

# Vishnu Waman Thakur Charitable Trust's VIVA Institute of Technology

Approved By AICTE, New Delhi, DTE, Govt. of Maharashtra Affiliated to the University of Mumbai Shirgaon, Virar(E.), Dist: Palghar- 401305, Maharashtra

### **Criteria 1- Curricular Aspects**

**Key Indicator – 1.2 Academic Flexibility** 

1.2.1 & 1.2.2: Number of Add on/Certificate/ Value Added programs offered during the last five years





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| 1   | Number of Add on/Certificate/ Value Added programs offered during A.Y. 2021-22 | 5-100    |
| 2   | Number of Add on/Certificate/ Value Added programs offered during A.Y. 2019-20 | 101-198  |
| 3   | Number of Add on/Certificate/ Value Added programs offered during A.Y. 2018-19 | 199-294  |
| 4   | Number of Add on/Certificate/ Value Added programs offered during A.Y. 2017-18 | 295-394  |





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#### List of Value added Courses offered during last five years.

| Sr. | Year     | Course Name   | Student |
|-----|----------|---|---------|
| No  |          |   | Count   |
| 1   | 2021-22  | Learning with Python                                  | 13      |
| 2   | 2021-22  | Automation Using IOT                                  | 57      |
| 3   | 2021-22  | Nirman-Arduino Workshop                               | 8       |
| 4   | 2021-22  | OOP Bridge Course                                     | 9       |
| 5   | 2021-22  | Skill based Laboratories                              | 74      |
| 6   | 2021-22  | Introduction to NDT                                   | 15      |
| 7   | 2021-22  | ANSYS (Engineering Simulation)                        | 15      |
| 8   | 2021-22  | Introduction to Dye Penetrant Non Destructive Testing | 30      |
|     |          | (DT) Method   |         |
| 9   | 2021-22  | ELECTRICAL INSTALLATION                               | 22      |
| 10  | 2021-22  | Printed circuit board design                          | 24      |
| 11  | 2021-22  | Electrical Safety Practices                           | 24      |
| 12  | 2021-22  | MSP & PRIMAVERA                                       | 24      |
| 13  | 2021-22  | Advanced concrete technology                          | 110     |
| 14  | 2019-20  | Programming with JAVA                                 | 22      |
| 15  | 2019-20  | Learning with Python                                  | 15      |
| 16  | 2019-20  | Machine Learning and Deep Learning                    | 51      |
| 17  | 2019 -20 | OOP   | 75      |
| 18  | 2019-20  | Nirman-Arduino Workshop                               | 16      |
| 19  | 2019-20  | MATLAB and Simulink for Research                      | 49      |
| 20  | 2019-20  | ADVANCE SOLID WORKS                                   | 15      |
| 21  | 2019-20  | ANSYS (Engineering Simulation)                        | 15      |
| 22  |          | Introduction to Magnetic Particle Non Destructive     | 30      |
|     | 2019-20  | Testing (MT) Method                                   |         |
| 23  | 2019-20. | ELECTRICAL INSTALLATION                               | 15      |
| 24  | 2019-20  | Printed circuit board design                          | 17      |
| 25  | 2019-20. | Electrical Safety Practices                           | 15      |
| 26  | 2019-20. | MSP & PRIMAVERA                                       | 26      |
| 27  | 2019-20  | Emerging techniques in Civil Engineering              | 126     |
| 28  | 2019-20  | Soft Skills   | 30      |
| 29  | 2018-19  | Programming with JAVA                                 | 17      |
| 30  | 2018-19  | Learning with Python                                  | 20      |
| 31  | 2018-19  | NETWORK SECURITY AND CRYPTOGRAPHY                     | 57      |



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| 32 | 2018-19 | Nirman-Arduino Workshop                             | 26  |
|----|---------|---|-----|
|    |         | 1   |     |
| 33 | 2018-19 | PCB Design Workshop                                 | 60  |
| 34 | 2018-19 | Research Methodology Tools                          | 73  |
| 35 | 2018-19 | ELECTRICAL INSTALLATION                             | 15  |
| 36 | 2018-19 | Printed circuit board design                        | 17  |
| 37 | 2018-19 | Electrical Safety Practices                         | 16  |
| 38 | 2018-19 | ADVANCE SOLID WORKS                                 | 17  |
| 39 | 2018-19 | ANSYS (Engineering Simulation)                      | 15  |
| 40 | 2018-19 | Introduction to Radiography Non Destructive Testing | 30  |
|    |         | (RT) Method   |     |
| 41 | 2018-19 | MSP & PRIMAVERA                                     | 22  |
| 42 | 2018-19 | Matlab  | 128 |
| 43 | 2018-19 | Soft Skills   | 30  |
| 44 | 2017-18 | Programming with JAVA                               | 20  |
| 45 | 2017-18 | Learning with Python                                | 15  |
| 46 | 2017-18 | Natural Language Processing                         | 69  |
| 47 | 2017-18 | SOFTWARE WORKSHOP                                   | 54  |
| 48 | 2017-18 | Nirman-Arduino Workshop                             | 15  |
| 49 | 2017-18 | VLSI Design & Embedded Systems                      | 78  |
| 50 | 2017-18 | ADVANCE SOLID WORKS                                 | 15  |
| 51 | 2017-18 | ANSYS (Engineering Simulation)                      | 18  |
| 52 | 2017-18 | Introduction to Ultrasonic Non Destructive Testing  | 30  |
|    |         | (UT) Method   |     |
| 53 | 2017-18 | ELECTRICAL INSTALLATION                             | 15  |
| 54 | 2017-18 | Printed circuit board design                        | 10  |
| 55 | 2017-18 | Electrical Safety Practices                         | 16  |
| 56 | 2017-18 | MSP & PRIMAVERA                                     | 26  |
| 57 | 2017-18 | Recent trends in Civil Engineering                  | 138 |
| 58 | 2017-18 | Soft Skills   | 30  |





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A.Y. 2021-2022





## VIVA INSTITUTE OF TECHNOLOGY

#### Academic Year 2021 - 22

Course name: - Learning with Python Duration: - 3<sup>rd</sup> Jan 2022 to 7<sup>th</sup> Jan 2022 Venue: - VIVA Institute of Technology

Co-ordinator: - Prof. Vinit Raut

Enrolled students: - 13

#### Course Objective:-

1. To create fully functional Python programs

2. To understand user input

3. To learn about loop structures and conditionals

4. To work with Python file handling

#### Course Outcomes: -

After successful completion of the course, the students are able to

- 1. Describe the basics of the Python programming language
- 2. Install Python and write first program
- 3. Use variables to store, retrieve and calculate information
- 4. Utilize core programming tools such as functions and loops
- 5. Explain the basic principles of Python programming language

#### Course Schedule: -

| Days | Morning Session<br>(9 am to 12 pm)   | Afternoon Session<br>(1 pm to 4 pm)                 |
|------|--------------------------------------|---|
| 1    | Introduction                         | Install Python and basic<br>python program          |
| 2    | Basic syntax , variables and strings | Lists, Tuples and Dictionaries.<br>Exercise         |
| 3    | If-else statements, For loop         | While loop,<br>Pass, break and continue<br>Exercise |
| 4    | Understanding<br>Functions           | File handling – opening and reading                 |
| 5.   | Classes and Objects                  | Exercise<br>Quiz                                    |



### Vishou Warnen Theisur Charitable Trunt's VIVA INSTITUTE OF TECHNOLOGY COMPUTER ENGINEERING DEPARTMENT

Computer engg. department of VIVA Institute of Technology conducted a course on "Learning with Python" for second and third year students. Total 13 students had This course was conducted by Prof. Vinit Raut in order to provide basic been enrolled for this course.

knowledge of Python programming. This was 30 hrs. certificate course. During the course students learned how to install Python. They learned all the basic of python like variables, lists, strings. Also students study conditional statements and loops. This course also cover functions and file handling.

Students enjoyed the course and completed it successfully.

CO-PO Mapping: -

| Course      |         | Program Outcome |         |         |         |         |         |         |        |          |          |          |  |
|-------------|---------|-----------------|---------|---------|---------|---------|---------|---------|--------|----------|----------|----------|--|
| Outcom<br>e | PO<br>1 | PO<br>2         | PO<br>3 | PO<br>4 | PO<br>5 | PO<br>6 | PO<br>7 | PO<br>8 | 9<br>9 | PO<br>10 | PO<br>11 | PO<br>12 |  |
| CO 1        | 3       | -               | -       | -       | -       | 2       | -       | •       | *      | -        | -        | -        |  |
| CO2         | 3       | -               | -       |         |         | -       | -       | -       | -      | -        | -        | *        |  |
| CO3         |         | -               | 3       | -       | -       | -       |         | -       |        | -        | -        | -        |  |
| CO4         | -       |                 | 3       | 2       | -       | *       | -       | -       |        | -        | ¥        | -        |  |
| CO5         |         | 3               | -       | -       | +       | -       |         | -       |        | 7        | 1        | 1        |  |
|             | 3       | 3               | 3       | 2       |         |         | +       | -       | +.     | -        | 1        | 1        |  |

#### CO PO Justification: -

| COs | POs | Justification  |  |  |  |  |  |  |  |
|-----|-----|--|--|--|--|--|--|--|--|
| CO1 | PO1 | Strongly mapped as the students will be able to analyse the problem to be<br>implemented using basics of Python. |  |  |  |  |  |  |  |
| CO2 | PO1 | Strongly mapped as the students will be able to identify the technique required to implement the problem.        |  |  |  |  |  |  |  |
| CO3 | PO3 | Slightly mapped as the students will be able to find a solution for the problem identified.                      |  |  |  |  |  |  |  |
| CO4 | PO3 | Strongly mapped as the students will be able to find the relevant tools to implement the problem stated.         |  |  |  |  |  |  |  |
|     | PO4 | Moderately mapped as the students will be able to find a feasible solution for the problem designed.             |  |  |  |  |  |  |  |
| CO5 | PO2 | Strongly mapped as the students will be able to develop design methodologies for the system to be developed.     |  |  |  |  |  |  |  |



Ashwini Save HOD, Computer Engg.



Academic Year 2021 - 22

Course Name:- Learning With Python Course Duration:- 3rd Jan to 7th Jan 2022

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|---------|----------------------------|----------------------|-----------|-----------|---------------------|-----------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|
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| SHANY   | name or alphany            | Session<br>(2 to 12) | (5 to 4)  | (9 to 12) | Seesion<br>(1 to 4) | Beneion<br>(9 to 12 ) | Session<br>(1 to 4) | Session<br>(9 to 12 ) | Session<br>(1 to 4) | Session<br>(9 to 12 ) | Session<br>(1 to 4) |
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| 9       | Aryan Manish Rout          | NP                   | -AR       | AR        | AR                  | AR                    | AP                  | AR                    | AR                  | DP                    | AP                  |
| 3       | Neta Milind Kadam          | Neha                 | Haha      | Neha      | Neba                | Noba                  | Noha                | Naha                  | None                | Neha                  | Noha                |
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### CERTIFICATE

OF PARTICIPATION

This is to certify that Neha Milind Kadam

attended a one-week Program on "Learning with Python" organized by the Computer Engineering Department Of VIVA Institute of Technology from 3rd Jan to 7th Jan 2022.

800

Frof, Ashwini Save H.O.D

Denne

Dr. Arun Kumar Principal





#### Academic Year 2021 - 22

Course name: - Automation Using IOT

Duration: - 3<sup>rd</sup> Jan to 7<sup>th</sup> Jan 2022 Venue: - VIVA Institute of Technology Co-ordinator: - Prof. Monali Pimpale

Enrolled students: - 57

#### Course Objective: -

- This course focuses on the latest microcontrollers with application development, product design and prototyping.
- 2. Recognise the factors that contributed to the emergence of LoT
- Design and program LoT devices
- Use real IoT protocols for communication
- Secure the elements of an IoT device

#### Course Outcomes: -

After successful completion of the course, the students are able to

- Interpret the impact and challenges posed by LoT networks leading to new architectural models.
- 2. Illustrate the smart objects and the technologies to connect them to network.
- Compare different Application protocols for IoT.
- 4. Infer the role of Data Analytics and Security in IoT.
- Identify sensor technologies for sensing real world entities and understand the role of LoT in various domains of Industry.

#### Course Schedule: -

| Session  | Time                     | Topic   |
|----------|--------------------------|---|
| Day 1: - | 3 <sup>rd</sup> Jan 2022 |   |
| 1        | 9.30 - 11.00             | Introduction to IOT   |
| 2        | 11.15- 12.30             | Understanding LoT fundamentals IOT Architecture and protocols                         |
| 3        | 1.15 – 4.30              | Overview of IoT components and IoT Communication<br>Technologies<br>Challenges in IOT |
| Day 2: - | 4th Jan 2022             |   |
| 1        | 9.30 - 11.00             | Arduino Simulation Environment  |
| 2        | 11.15-12.30              | Arduino Uno Architecture<br>Setup the IDE, Writing Arduino Software                   |
| 3        | 1.15 - 4.30              | Interfacing LED, push button and buzzer with Arduino<br>Interfacing Arduino with LCD  |
| Day 3: - | 5th Jan 2022             |   |
| 1        | 9.30 - 11.00             | Sensor & Actuators with Arduino   |



| 2        | 11.15-12.30  | Overview of Sensors working                              |
|----------|--------------|--|
|          |              | Analog and Digital Sensors                               |
| 3        | 1.15 - 4.30  | Interfacing of Actuators with Arduino.                   |
|          |              | Interfacing of Relay Switch and Servo Motor with Arduino |
| Day 4 :- | 6th Jan 2022 |  |
| 1        | 9.30 - 11.00 | Basic Networking with ESP8266 WiFi module                |
| 2        | 11.15-12.30  | Basics of Wireless Networking                            |
|          |              | Introduction to ESP8266 Wi-Fi Module                     |
|          |              | Various Wi-Fi library                                    |
| 3        | 1.15 - 4.30  | Web server- introduction, installation, configuration    |
|          |              | Posting sensor(s) data to web server                     |
| Day 5 :- | 7th Jan 2022 |  |
| 1        | 9.30 - 11.00 | Cloud Platforms for IOT                                  |
|          |              | Virtualization concepts and Cloud Architecture           |
| 2        | 11.15-12.30  | Cloud computing, benefits                                |
|          |              | Cloud services SaaS, PaaS, IaaS                          |
|          |              | Cloud providers & offerings                              |
| 3        | 1.15 - 4.30  | Study of IOT Cloud platforms                             |
|          |              | ThingSpeak API and MQTT                                  |
|          |              | Interfacing ESP8266 with Web services                    |
|          |              | Quiz   |
|          |              | ·  |

#### Report:-

Computer engg. department of VIVA Institute of Technology conducted a course on "Automation Using IOT" for Last year students. Total 57 students had been enrolled for this course.

This course was conducted by Prof. Monali Pimpale in order to provide knowledge of Automation Using IOT.

LoT is a giant, digitally connected universe of billions of physical devices around the world; "things" that collect and share data about how they're used and the environment around them. These objects are embedded with internet connectivity, software, sensors, and other hardware that enable them to connect and exchange data with other systems and devices over the web. Students enjoyed the course and completed it successfully.

CO-PO Mapping: -

| Course  |     | Program Outcome |     |     |     |     |     |     |         |          |          |          |
|---------|-----|-----------------|-----|-----|-----|-----|-----|-----|---------|----------|----------|----------|
| Outcome | PO1 | PO2             | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO<br>9 | PO1<br>0 | PO1<br>1 | PO1<br>2 |
| CO 1    | 2   | -               | -   | -   | -   | -   | -   | -   | -       | -        | -        | -        |
| CO2     | -   | 2               | 3   | 2   | -   | -   | -   | -   | -       | -        | -        | -        |
| CO3     | -   | 2               | 2   | -   | -   | -   | -   | -   | -       | -        | -        | -        |
| CO4     | 1   | 2               | 3   | -   | -   | -   | -   | -   | -       | -        | -        | -        |
| CO 5    | -   | -               | ı   | 3   | -   | -   | -   | -   | -       | -        | -        | -        |



Ashwini Save HOD, Computer Engg.



# Automation Using IST Late Shel. Vishnu Wannen Thakur Charmathe Truscs

IVA INSTITUTE OF TECHNOLOGY

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COMPUTER ENGINEERING DEPARTMENT BE Attendance Sheet [2021-22]

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| 9.        | PAWAR SANJWA PUJARE      | PCS.      | <b>93</b> | Josh     | Tub     | Yest        | clash.   |         |
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| 19        | ANITCUPTA                | 164-      | ACA .     | AGA      | 104     | 464         | 100      |         |
| 19        | MULI KAMLESH BAMESHKUMAR | A         | 4         | A        | 4       | 4           | 1        |         |
| 20        | KEMAR KARAN NENTANMAL    | 1         | A-        | 4        | A       | A           | 1        |         |
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| - 45      | SAMIKINA IANJAY MURAHKAR | An        | 10N-      | SAN      | DN      | -           | to a     |         |
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| 17        | SEIDHITA SURHASH CALUMKE | 100       | 200       | (E)      | 888     | 335         |          |         |
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| 29        | HRUCHITA BACU JADHAV     | House     | H LOW     | Libour   | Histori | Hagely      | High     |         |
| 30        | YOGALI SAFTOSH PAPIL     | Jan       | - Jagar   | Jugar.   | C.1(1)  | 100         | 1        |         |
| 31        | SANKET INSALE            | A         | A-        | A-       | A       | 4           | A_       | -       |
| 32        | RITIC CHARATHOL          | 1         | *         | 4        | A       | A           | A        |         |
| 13        | RITESH YASHIYA           | 1         | 4         | 4        | A       | A-          | -        |         |
| 36        | URVAL CHROTALE           | A-        | A         | 1        | 4       | A-          | A_       |         |
| 35        | CAURAY CRPTA             | A         | A         | A        | - 1     | 1           | A        |         |
| 36        | RAJ GEPTA                | A         | A         | A        | A-      | A-          | A        | 1       |



Bit Attendance Sheet (2021-22)

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### **Certificate of Participation**

This is to certify that YASH PATIL has attended One Week Program on "Automation Using IOT" organised by the Computer Engineering Department of VIVA Institute of Technology from 3rd Jan 2022 to 7th Jan 2022



ASHWINI SAVE HOD

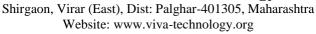


DR. ARUN KUMAR PRINCIPAL





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#### Department of Electronics and Telecommunication Engineering

### Name of Course: Nirman-Arduino Workshop

Duration: 30 hours/1 week

### Day 1- Embedded System Basic (Working, Input devices & Programming Code):

Session Introduction, Hardware & Basic Programming
1:

- ✓ Introduction to basic of embedded system
- ✓ Introduction & explanation of microcontrollers
- ✓ Explanation of AVR ATMega 328 microcontroller
- ✓ Explanation of Arduino board & programming
- ✓ Basic Arduino based programs for interfacing i/o devices

Session 2:

- ✓ Introduction to output devices interfacing
  - **Project 1 :** LED blinking
- ✓ Introduction to input devices interfacing
  - **Project 2:** Push button interfacing
- ✓ Rotary encoder interfacing
  - Project 3 & 4:
    - i. More LEDS switching sequentially based onencoder input
    - ii. Bar graph sort of LED switching based on encoder input

Quiz

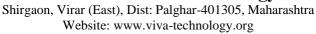
#### Day 2 - Digital & Analog Input Ouput Devices Interfacing

Session ✓ Explanation for digital input devices 3:





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- ✓ Explanation for analog input devices
- ✓ Introduction to temperature sensor and its working
- ✓ Basic programming for interfacing temperature sensor
  - Project 5 : Temperature sensor using LM35
- ✓ Introduction to relay
- ✓ Basic programming for interfacing relay
  - Project 6: Automatic temperature controller system(soldering iron temperature control\_simple on/off)

Session 4:

- ✓ Introduction to LDR sensor and its working
- ✓ Basic programming for interfacing LDR sensor
  - Project 7: Light controlled switch
- ✓ Introduction to IR sensor and its working
- ✓ Basic programming for interfacing IR sensor
  - Project 8: Detect presence of object and blink LEDaccordingly

#### Quiz

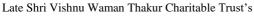
### Day 3 - Advance Sensor (Ultrasonic, Hall Effect) and Serial Communication

Session 5:

- ✓ Introduction to ultrasonic sensor and its working
- ✓ Basic programming for interfacing of ultrasonic sensor
- ✓ Programming and conversion concept for the measurement
- ✓ Formulas for speed, distance & time for distance measurementusing ultrasonic sensor
- ✓ Project 9 : Distance Finder / Range Finder using Ultrasonic
- ✓ Explanation of working of stepper motor & motor driver

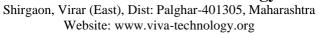


16





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- ✓ Interfacing of stepper motor with motor driver & basic motorcontrol program
  - Project 10 : Stepper Motor Rotation
- ✓ Introduction to Hall Effect sensor and its working

- ✓ Basic programming for interfacing Hall Effect sensor
  - Project 11 : Stepper Motor Speed Detection
- Session 6: ✓ Introduction to serial communication & its significance inembedded system
  - Explanation of program for establishing serial communication for data transfer between computer & Arduino
    - Project 12 : Send temperature data and distance
       measured by ultrasonic to serial port

#### Quiz

#### Day 4 - Visible Output, Keypad

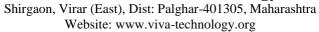
Session 7:

- ✓ Introduction to a 7-Segment LED display
- √ 7-segment LED display interfacing & basic data display program
  - Project 13 : Temperature indicator on 7 segment
- ✓ Introduction to LCD (16 X 2) & its working
- ✓ LCD Interfacing & Basic data display program
  - **Project 14 :** Display temperature on LCD





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#### Session 8:

- ✓ Introduction to matrix keypad & its working
- ✓ Concept of data line reduction & matrix concept
- ✓ Interfacing LCD & matrix keypad with Arduino
  - Project 15: LCD based GUI for user passwordregistration and monitor

#### **Project 16** Smart Door System

#### / Product

#### Day 5 - Industry 4.0 and Project Guidance

#### Session 9:

- ✓ Tips for Project making
- ✓ Steps for designing a project
- ✓ Schematic designing tips
- ✓ Project development phase
- ✓ Project functional block programming & output
- ✓ Doubt discussion

#### Session 10:

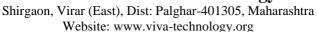
- ✓ Industry 4.0: The Fourth Industrial Revolution
- ✓ Certificates & Project Letters distribution for competition

#### **Feedback**





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#### Department of Electronics and Telecommunication Engineering

#### **Report**

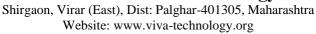
**Nirman** is to nurture and organize the young change makers to solve various societalchallenges. It is an educational process to train the students to take up crucial issues and problems in the society. The focus in this course is to enable and equip the students to immediately start building Arduino enabled products. This was a 30hrs/1 week certificate course.

This 5 days Bridge course was conducted by Prof. Nutan Malekar in order to provide basic knowledge to second year and third year students about an **Arduino** and how it works. It helped students to learn programming concepts using **C** and **C**++ along with Arduino specific programming. The students understood how to use a wide variety of hardware and components and prototype projects using a breadboard.





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#### **Course Objectives**

- ♣ To understand what an Arduino is and how
- it worksTo learn how to use an Arduino safely
- To program Arduino using code that have written in the Arduino IDE (IntegratedDevelopment Environment)
- **♣** To learn programming concepts using C and C++ along with Arduino specific programming
- ♣ To understand best practice concepts for programming and prototyping
- To use a wide variety of hardware and components and prototype your projects using abreadboard
- To build innovative project with Arduino

#### Course Outcomes:

- > Students will be able to get new product or service ideas by hearing about needs in industry.
- > Students will be able to receive large volumes of usable content within a compressed amount of time.
- > Students will be able to get intensive exposure to a topic through presentations and discussions.
- > Students will be able to achieve confidence and motivation for organising different events that improves the personality of a student.
- > Students will be able to achieve confidence and motivation for participating in different events that improves the personality of a student.
- > Students will be able to develop a connection that might help with future employment.









#### Department of Electronics and Telecommunication Engineering

#### CO-PO MAPPING

| Course  |   | Program<br>Outcome |   |   |   |   |   |   |   |   |   |        |
|---------|---|--------------------|---|---|---|---|---|---|---|---|---|--------|
| Outcome | P | P                  | P | P | P | P | P | P | P | P | P | CO     |
|         | О | О                  | O | O | 0 | О | Ο | O | O | O | О | Target |
|         | 1 | 2                  | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 1 | level  |
|         |   |                    |   |   |   |   |   |   |   | 0 | 1 |        |
| CO1     | 2 | -                  | - | - | - | - | - | - | - | - | - | 2      |
| CO2     | - | 2                  | - | - | - | - | - | - | - | - | - | 2      |
| CO3     | 2 | -                  | - | - | _ | 2 | - | - | - | - | - | 2      |
| CO4     | 2 | -                  | - | - | - | - | - | - | - | - | _ | 2      |
| CO5     | - | 2                  | - | - | - | - | - | - | - | - | _ | 2      |
| CO6     | - | -                  | - | - | 2 | - | - | - | - | - | 1 | 1.5    |
|         | 2 | 2                  | - | _ | 2 | 2 | - | - | - | - | 1 |        |





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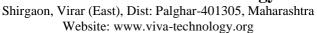
#### **Attendance Sheet:**







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#### Department of Electronics and Telecommunication Engineering

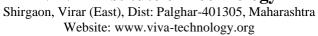
#### Model Certificate







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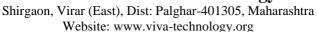
#### Department of Electronics and Telecommunication Engineering

## Name of Course: OOP Bridge Course Duration: 30 hours

| Day | Contents  | Hrs. |
|-----|---|------|
| 1   | <ul> <li>Introduction Introduction to java, java buzzword, data types, dynamic initialization, scope and life time operators, control statements, arrays, type conversion and casting, finals &amp; blank finals.</li> <li>Classes and Objects: Concepts, methods, constructors, usage of static, access control, this key word,</li> <li>Garbage collection, overloading, parameter passing mechanisms, nested classes and inner classes.</li> </ul> | 6    |
| 2   | Inheritance: Basic concepts, access specifies, usage of super key word, method overriding, final methods and classes, abstract classes, dynamic method dispatch, Object class.  Interfaces: Differences between classes and interfaces, defining an interface, implementing interface, Variables in interface and extending interfaces.   | 6    |
| 3   | Packages: Creating a Package, setting CLASSPATH, Access control protection, importing packages.  Exception Handling: Concepts of Exception handling, types of exceptions, usage of try, catch, throw, throws and finally keywords, Built-in exceptions, creating own exception sub classes.  Strings: Exploring the String class, String buffer class, Command-linear arguments.  Library: Date class, Wrapper classes.                               | 6    |
| 4   | Multithreading: Concepts of Multithreading, differences between process and thread, thread life cycle, Thread class, Runnable interface, creating multiple threads, Synchronization, thread priorities, inter Thread communication, daemon threads, and deadlocks.  I/O Streams: Streams, Byte streams, Character streams, File class, File streams.  | 6    |
| 5   | Applets: Concepts of Applets, life cycle of an applet, creating applets, passing parameters to applets, accessing remote applet, Color class and Graphics Event Handling: Events, Event sources, Event classes, Event Listeners, Delegation event model, handling events.   | 6    |



#### **VIVA Institute of Technology**





Department of Electronics and Telecommunication Engineering

Report

**Duration:** 

Venue: VIVA Institute Of Technology, Shirgaon.

Electronics & Telecommunication Engineering Department of VIVA Institute of Technology organiz ed a 30 hours' certificate course on "OOP Bridge Course" during 3rd Jan 2022 to 7<sup>th</sup> Jan 20 22.

The workshop was basically aimed to provide basic knowledge to second year of semester 4– EXTC students of JAVA language which was conducted by **Mr. Kushal Suvarna sir** as the speaker who g uided the participants.

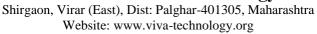
The event was a success with very positive feedback from the participants. The speech by the Princip al **Dr. Arun Kumar** was an inspiring one that covered the broad future scopes of the field. The Prin cipal being an encouraging one who said that for such events where in student development is involved, he will always be supportive. In the speech given by **Mrs. Archana Ingle**, H.O.D of EXTC, students gained an idea of how this workshop can be utilized to take creative projects in the field of sof tware.

**Mr. Kushal Suvarna** sir introduced themselves to the participants and enlightened them about the fantastic and intriguing field of **JAVA software** and narrated their various achievements and their future plans.





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#### Department of Electronics and Telecommunication Engineering

### Course Objectives

- 1. To understand the basic concepts and fundamentals of platform independent object oriented language.
- 2. To demonstrate skills in writing programs using exception handling techniques and multithreading.
- 3. To understand streams and efficient user interface design techniques.

### Course Outcomes:

After successful completion of the course, the students are able to

- ➤ 1. Use the syntax and semantics of java programming language and basic concepts of OOP.
- ➤ 2. Develop reusable programs using the concepts of inheritance, polymorphism, interfaces and packages.
- ➤ 3. Apply the concepts of Multithreading and Exception handling to develop efficient and error free codes.
- ➤ 4. Design event driven GUI and web related applications which mimic the real word scenarios.









### Department of Electronics and Telecommunication Engineering

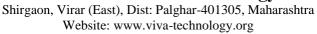
### CO-PO MAPPING

| Course<br>Outcome |         |         | Program Outcome |         |         |         |      |         |         |          |          |                    |
|-------------------|---------|---------|-----------------|---------|---------|---------|------|---------|---------|----------|----------|--------------------|
|                   | PO<br>1 | PO<br>2 | PO<br>3         | PO<br>4 | P0<br>5 | PO<br>6 | PO 7 | PO<br>8 | PO<br>9 | PO<br>10 | PO<br>11 | CO<br>Target level |
| CO1               | 2       | -       | -               | -       | _       | -       | -    | -       | -       | -        | -        | 2                  |
| CO2               | -       | 2       | -               | -       | -       | -       | -    | -       | -       | -        | -        | 2                  |
| CO3               | 2       | -       | -               | -       | -       | 2       | -    | -       | -       | -        | -        | 2                  |
| CO4               | 2       | -       | -               | -       | -       | -       | -    | -       | -       | -        | -        | 2                  |
|                   |         |         |                 |         |         |         |      |         |         |          |          |                    |
|                   | 2       | 2       | -               | -       | 2       | 2       | -    | -       | -       | -        | -        |                    |





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### Department of Electronics and Telecommunication Engineering

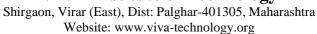
### **Model Certificate**







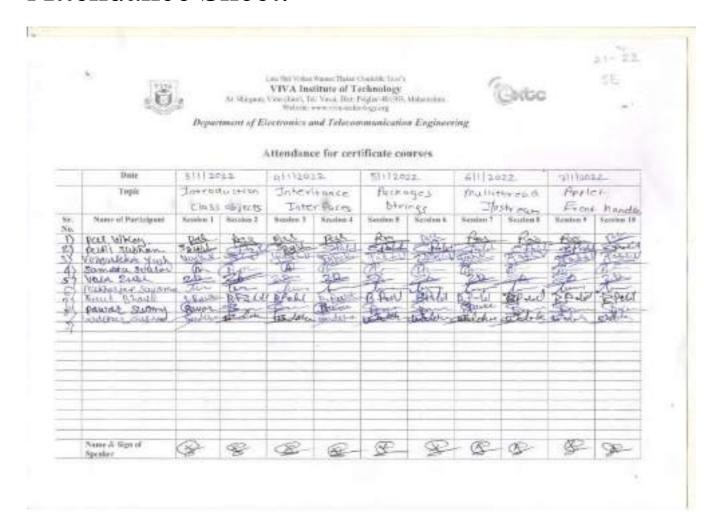
#### **VIVA Institute of Technology**





#### Department of Electronics and Telecommunication Engineering

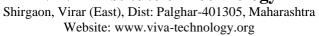
### **Attendance Sheet:**







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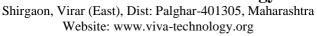
### Department of Electronics and Telecommunication Engineering

# Name of Course: Skill based Laboratories Duration: 30 hours

| <b>Date and Day</b>   | Time          | Contents  |  |  |  |  |  |  |  |
|---|---------------|---|--|--|--|--|--|--|--|
|   | 9.00 to 10.00 | Breakfast, Registration and Inauguration  |  |  |  |  |  |  |  |
| 3 <sup>rd</sup> Jan 2022                                    | 10.00 – 1.00  | History and Introduction to Linux Operating System Linux commands and shell scripting Loping Structure & Shell Loop Control |  |  |  |  |  |  |  |
| 0 0000 2022   | 1.00-1.30     | Lunch Break   |  |  |  |  |  |  |  |
|   | 1.30-4.00     | Introduction to Raspberry Pi with timeline and model Rpi board details & OS Installation                                    |  |  |  |  |  |  |  |
|   | 10.00-1.00    | Introduction to Basics of FPGA/CPLD  RTL Design  Combinational and Sequential circuit design simulation                     |  |  |  |  |  |  |  |
| 4 <sup>th</sup> Jan 2022                                    | 1.00-1.30     | Lunch Break   |  |  |  |  |  |  |  |
|   | 1.30-4.00     | FPGA Design and Implementation Interfacing of FPGA Board  |  |  |  |  |  |  |  |
|   | 10.00-1.00    | Interfacing with Sensors, Actuator, Telegram & Camera   |  |  |  |  |  |  |  |
| 5 <sup>th</sup> Jan 2022                                    | 1.00-1.30     | Lunch Break   |  |  |  |  |  |  |  |
| 3 Juli 2022   | 1.30-4:00     | Interfacing with Telegram & Camera Project demonstration using Raspberry Pi   |  |  |  |  |  |  |  |
|   | 10.00-1.00    | Introduction to Arduino and how it works Implement Embedded systems with different sensors and peripherals as IoT.          |  |  |  |  |  |  |  |
| 6 <sup>th</sup> Jan 2022                                    | 1.00-1.30     | Lunch Break   |  |  |  |  |  |  |  |
|   | 1.30-4:00     | Program Arduino using Arduino IDE for real life applications  |  |  |  |  |  |  |  |
|   | 10.00-1.00    | Project demonstration using Raspberry Pi  |  |  |  |  |  |  |  |
| 7 <sup>th</sup> Jan 2022                                    | 1.00-1.30     | Lunch Break   |  |  |  |  |  |  |  |
| At Shirgson<br>Post Virar,<br>Tal.: Vasal,<br>Dist. Palebox | 2.00-3.00     | Valedictory   |  |  |  |  |  |  |  |



#### **VIVA Institute of Technology**





## Department of Electronics and Telecommunication Engineering Report

Duration: 3rd-7th Jan 2022.

**Venue: VIVA Institute Of Technology, Shirgaon.** 

Electronics & Telecommunication Engineering Department of VIVA Institute of Tech nology organized a 30 hours' certificate course on "Skill based Laboratories" from 3 rd-7th Jan 2022 conducted by Mrs. Meena Perla.

The objective of the Hands-on Skill based Laboratories for EXTC Engineering training program is to learn to create tools with skill lab software's that will help to implement new ideas and solve difficult problems. Learning of Linux, Raspberry Pi, and FPGA will help to apply our research to interesting and challenging real-world problems. This STTP provides comprehensive coverage of Skill based Lab and its applications while providing opportunities for Hands-on practicals.

The purpose of this STTP is to have discussions on various ways in which these software tools can be used to carry out research.

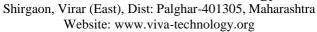
Topics Covered in STTP on "Skill based Laboratories"

- ☐ History and Introduction to Linux Operating System
- Linux commands and shell scripting
- Loping Structure & Shell Loop Control
- Introduction to Raspberry Pi with timeline and model
- Rpi board details & OS Installation
- Introduction to Basics of FPGA/CPLD
- RTL Design
- Combinational and Sequential circuit design simulation
- FPGA Design and Implementation
- Interfacing of FPGA Board

Interfacing with Sensors, Actuator, Telegram & Camera

Project demonstration using Raspberry Pi

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#### Department of Electronics and Telecommunication Engineering

- Introduction to Arduino and how it works
- Implement embedded systems with different sensors and peripherals as IoT.
- Program Arduino using Arduino IDE for real life applications

As new developments are introducing in industry day by day demanding expertise in these software, it was felt necessary that the student also become competent in the said field.

#### Course Objectives

- > To understand basics of Linux, FPGA Raspberry Pi and Arduino.
- To use wireless sensors/communications with embedded systems.
- > To learn installation of Raspbian.
- To program Arduino using Arduino IDE for real life applications
- ➤ To understand FPGA design and implementation
- > To learn Interfacing of FPGA boards
- ➤ To learn Implementation skill of different servers on Linux
- ➤ To explore Linux commands and Shell Scripting.

#### Course Outcomes:

After successful completion of the course, the students are able to

- ➤ Understand basics of Linux, FPGA Raspberry Pi and Arduino.
- ➤ Use wireless sensors/communications with embedded systems.
- ➤ Learn installation of Raspbian.
- > Program Arduino using Arduino IDE for real life applications
- ➤ Understand FPGA design and implementation
- ➤ Learn Interfacing of FPGA boards
- ➤ Learn Implementation skill of different servers on Linux
- > Explore Linux commands and Shell Scripting.







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Website: www.viva-technology.org

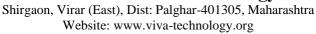
## Department of Electronics and Telecommunication Engineering CO-PO MAPPING

|                   |         |         | Program Outcome |         |      |         |         |         |         |          |          |                       |
|-------------------|---------|---------|-----------------|---------|------|---------|---------|---------|---------|----------|----------|-----------------------|
| Course<br>Outcome | PO<br>1 | PO<br>2 | PO 3            | PO<br>4 | P0 5 | PO<br>6 | PO<br>7 | PO<br>8 | PO<br>9 | PO<br>10 | PO<br>11 | CO<br>Target<br>level |
| CO1               | 2       | -       | -               | -       | -    | -       | -       | -       | -       | -        | -        | 2                     |
| CO2               | -       | 2       | -               | -       | -    | -       | -       | -       | -       | -        | -        | 2                     |
| CO3               | 2       | -       | -               | -       | -    | 2       | -       | -       | -       | -        | -        | 2                     |
| CO4               | 2       | -       | -               | -       | -    | -       | -       | -       | -       | -        | -        | 2                     |
|                   |         |         |                 |         |      |         |         |         |         |          |          |                       |
|                   | 2       | 2       | -               | -       | 2    | 2       | -       | _       | ı       | ı        | ı        |                       |





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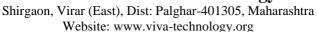
#### **Attendance Sheet:**







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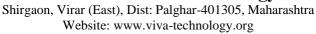
#### Department of Electronics and Telecommunication Engineering







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#### Department of Electronics and Telecommunication Engineering

#### Model Certificate



#### Student Certificate



### **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

Late Shree Vishnu Waman Thakur Charitable Trust's

### VIVA Institute of Technology

Shirgaon, Virar (E)

Department of Mechanical Engineering

VIVA/VIT/MECH/STUDENT/2021-22

Date: 02/07/2021

### NOTICE

All the shortlisted students of Mechanical Engineering are hereby informed to attend the Value Added Course organized by Department of Mechanical Engineering on the topic of "Introduction to NDT" from 05th July 2021 to 09th July 2021.

Timing:-

1<sup>st</sup> Session:- 9.00 am - 12. pm

2<sup>nd</sup> session:- 1.00 pm - 4. Syllabus & Course Outcomes

Venue:- CAD CAM Lab

Prof. Tejas Chaudhari

Prof. Niyati Raut



### **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

### **DEPARTMENT OF MECHANICAL ENGINEERING**

Course Name: Introduction to NDT

Academic Term: July 2021 to Dec 2021

Syllabus:

| Modu<br>le | Details   | Hours |
|------------|---|-------|
| <u>IC</u>  | Overview of Liquid Penetrant Testing                      |       |
|            | History of Liquid Penetrant Testing, Principles of        |       |
|            | Liquid Penetrant Testing, Advantages of the Penetrant     |       |
|            | Process, Disadvantages of the Penetrant Process,          |       |
| 1          | Basics of the Penetrant Process, Preparation of Parts for | 08    |
|            | Penetrant Testing, Surface Condition, Penetrant           |       |
|            | System, Sensitivity, Type of Penetrant, Advantages of     |       |
|            | Fluorescent Liquid Penetrants, Advantages of Visible      |       |
|            | Dye Penetrants, Selection of Liquid Penetrant,            |       |
|            | Penetrant Dwell Temperature, Penetrant Removal            |       |
|            | Method  |       |
|            | Water Washable, Lipophilic Emulsifier.                    |       |
|            | Penetrants, Developer and Equipment                       |       |
|            | Characteristics of Penetrants : Surface Tension,          |       |
|            | Wetting Ability, Chemical Properties of Penetrants,       |       |
| 2          | Inertness, Removability, Water Tolerance, Developer,      | 08    |
|            | Dry Powder, Water Soluble Water Suspended, Non            |       |
|            | aqueous, Specific Application , Material and Process      |       |
|            | Control Tests, Ultraviolet Light Intensity, Emulsifier    |       |
|            | Concentration, Ambient White Light Intensity,             |       |
|            | Penetrant Inspection Area Cleanliness,                    |       |
|            | Penetrant Materials Content.                              |       |
|            | Testing in Primary Metals Production                      |       |
|            | Producing Metals and Alloys, Processing                   |       |
|            | Discontinuities, Discontinuities Related to Metal         |       |
| 3          | Solidification, Discontinuities in Metal Ingots,          | 08    |
|            | Discontinuities in Metal Castings Discontinuities in      |       |
|            | Blooms and Billets Discontinuities in Hot Rolled Bars,    |       |
|            | Shapes, Plate or Strip, Discontinuities in Forgings,      |       |
|            | Discontinuities in Rolled and Pierced Products,           |       |
|            | Discontinuities in Extrusions, Discontinuities in         |       |
| (18        | Cold Worked Metal Products, Discontinuities in Fusion     |       |
| 3))        | Welds   |       |

### **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

|   | Appearance of Liquid Penetrant Indications            |    |
|---|---|----|
|   | Brilliance and Extent of Indications, Persistence of  |    |
|   | Indications   |    |
| 4 | Other Variables Affecting Indication Appearance,      | 06 |
|   | Surface Conditions, Temperature, Dwell Time and       |    |
|   | Washing Developer, Previous Testing, Common           |    |
|   | Causes of Non relevant and False Indications, Poor    |    |
|   | Process Control, Part Geometry and Surface Condition, |    |
|   | Evaluation of Non relevant Indications                |    |

Department of Mechanical Engineering; VIVA institute of technology, Shirgaon, Virar

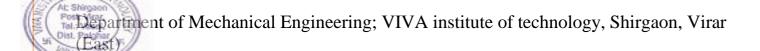
### **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

### **DEPARTMENT OF MECHANICAL ENGINEERING**

#### **Course Outcomes**

| Sr.<br>No. | CO<br>Code | Course<br>Outcomes   |
|------------|------------|--|
| 1          | CO_1       | Apply basic aspects of Inspection to solve engineering problems. |
| 2          | CO_2       | Select suitable Penetrant and Developer for test.                |
| 3          | CO_3       | Study different discontinuities associated in Metal Production   |
| 4          | CO_4       | Identify Different appearance of Liquid Penetrant Indications    |
| 5          | CO_5       | Perform Liquid Penetrant test on different part geometry.        |



#### Late Shree Vishnu Vishnu Warran Charitable Trast's

#### VIVA Institute of Technology

At. Shirgson, Virar (East), Talaka-Vasai, Palgter District - 401305, Atshamalite Department of Mechanical Engineering

#### VALUE ADDED COURSE - Introduction to NDT Academic Vesr : 3021-22

Course Duration: 5th July to 9th July 2021.

Time: 9.06 am to 12.00 pm

| 2020    | H200375 H2028 (UVA)                  | Class | Dute           |            |            |            |           |  |
|---------|--------------------------------------|-------|----------------|------------|------------|------------|-----------|--|
| Sr. No. | Name of Students                     |       | 05/07/2021     | 06/07/2021 | 07/97/2021 | 68/07/2021 | 09/07/202 |  |
| 1       | DAS BUNTY COVIND KAKULI              | SE    | star-          | Santa.     | \$ X       | ATT.       | A P       |  |
| .2      | MAURYA ANANDKUMAR GANESH SAROJ DEVI  | SE    | Linoud         | street     | Anad       | phrand     | phrane    |  |
| 1       | DEVGANIA RUCHIK BABU MANJU           | TE    | Telle          | what       | Tarkey     | Town       | Tool      |  |
| 4       | NAIR RAJ KIRANKUMAR SAPNA            | TE    | Negi           | NR91       | NREY       | Nay.       | May       |  |
| 5       | PATIL SAYALI MILIND MANISHA          | TE    | a angli        | PTB        | Bay        | aley 4     | 200       |  |
| 0       | PATIL VAISHNAVI MANOHAR UJWALA       | TE    | REAL PROPERTY. | Pali       | Path       | Patil      | Tati      |  |
| 7       | PATIL VAISHNAVI SATISH NILIMA        | TE    | VRAII          | YPutil     | VALUE      | YEAR       | YPa #1    |  |
| 8       | KULKARNI ATHARYA MILIND AMITA        | TE    | 14-            | Ala        | A          | 1          | AZ        |  |
| 9       | MATHKAR SAHE, SANJEEV MATHKAR SAYALI | TE    | Selve          | Sol        | Spl        | AS         | Sale      |  |
| 10      | MEHER SIDDESH DILIP RAMA             | TE    | 445            | SH         | SH         | 29         | Stop      |  |
| - 11    | BHASARA NITIN DINESH SANGITA         | DE    | Non            | Nr.        | No         | No.        | NY        |  |
| 12      | PATIL VIPUL VILAS YASHODA            | BE    | 120            | LAN        | West       | Nopel      | Sharl     |  |
| 13      | SALKAR YÄSH PRAMOD PRACHI            | DE    | Your           | Yush       | MB         | Yash       | Yash      |  |
| 14      | KHEDEKAR SAHIL SUNIL SUCHITA         | BE    | Ham            | Shie       | sid=       | Skhir      | Skin      |  |
| 15      | LOKHANDE HARSH ASHOK ASMITA          | BE    | MARLE          | Harsh      | Hansh      | Hazs       | tans/     |  |

Prof. Tejas Charlibari Faculty Co-ordinator (Mechanical Engineering Dept.)

Prof. Hiyati Raut HOD

(Medianical Engineering Dept.)



#### Laic Stree Vishnu Vishna Warren Charisable Trusi's

#### VIVA Institute of Technology

At Shirgane, Vine (East), Tabika-Vasai, Palgha: District - 401305, Mahawashira. Department of Mechanical Engineering

### VALUE ADDED COURSE - Introduction to NDT

Academic Year: 2021-22

Course Duration: 5th July to 5th July 2021.

Time: 1.00 pm to 4.00 pm

|         | THE COMPLETE COSTS                   | Class | Date       |            |            |            |            |  |
|---------|--------------------------------------|-------|------------|------------|------------|------------|------------|--|
| Sr. No. | Name of Students                     |       | 05/07/2021 | 06/07/2021 | 97/97/2021 | 01/07/2011 | 09/07/2021 |  |
| 1       | DAS BUNTY GOVIND KAKULI              | SE    | the state  | 24         | EN         | FIR        | 1          |  |
| 2       | MAURYA ANANDKUMAR GANESH SARGI DEVI  | SE    | duand      | amand      | parand     | PB         | grand      |  |
| 3       | DEVGANIA RUCHIK BABU MANJU           | TE    | PIS        | Toolber    | Dochada.   | Totale     | Todas      |  |
| +       | NAIR RAJ KIRANKUMAR SAPNA            | TE    | Maj        | NR4        | Neg        | 130        | V.         |  |
| 5.      | PATIL SAVALI MILIND MANISHA          | TE    | angli      | golay      | Ching      | Magli      | May        |  |
| 0.      | PATIL VAISHNAVI MANOHAR UJWALA       | TE    | Patil      | Patil-     | Potet_     | Pater      | Tada       |  |
| 7       | PATIL VAISHNAVI SATISH NILIMA        | TE    | VRMI       | VAN        | V/Pcd/#    | YPHI       | YPOHI      |  |
| 8       | KULKARNI ATHARVA MILIND AMITA        | TE    | Me         | AB.        | A          | 13         | XIII       |  |
| 9       | MATHKAR SAHIL SANJETV MATHKAR SAYALI | TE    | soul,      | gun        | Salur      | Salve      | Salril     |  |
| 10      | MEHER SIDDESH DILIP RAMA             | TE    | Silver     | Suddy      | Sidan      | Sidden     | Siddle     |  |
| - 11    | BHASARA NITIN DINESH SANGITA         | BE    | Non        | N6         | No-        | NN         | MM         |  |
| 12      | PATIL VIPUL VILAS YASHODA            | BE    | ANS        | 16gant     | Mari       | Vipi       | · PTS      |  |
| 13      | SALKAR YASH PRAMOD PRACHI            | BE    | Yash       | Youth      | York       | Vash       | Vest       |  |
| 14      | KHEDEKAR SAHIL SUNIL SUCHITA         | BE    | 75th       | SKI        | Skhie      | 5100       | SKA-       |  |
| 15      | LOKHANDE HARSH ASHOK ASMITA          | BE    | there's    | Hash       | Karen      | Karsh      | Karsh      |  |

Prof. Tejac Chaudhan Faculty Co-ordinator (Michanical Engineering Dept.)

(Mechanical Engineering Dept.)





## VIVA Institute of Technology

Approved by AICTE New Delhi, DTE, Govt. of Maharashtra and Affiliated to University of Mumbai Shirgaon, Virar(E.), Dist: Palghar-401305, Maharashtra

### CERTIFICATE

This to certify that Dr. / Mr. / Ms. PATIL VIPUL VILAS YASHODA

has attended a Short Term Training Program on "INTRODUCTION TO NDT" during the period 5th July - 9th July, 2021 at Department of Mechanical Engineering, VIVA Institute of Technology, Shirgaon, Virar.

Pos

Mr. Tejas Chaudhari (CO-ORDINATOR) Mant

Mrs. Niyati Raut (HEAD OF THE DEPARTMENT) Tuna

Dr. Arun Kumar (PRINCIPAL)



### **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

Late Shree Vishnu Waman Thakur Charitable Trust's

### VIVA Institute of Technology

Shirgaon, Virar (E)

Department of Mechanical Engineering

VIVA/VIT/MECH/STUDENT/2021-22

Date: 30/12/2022

### NOTICE

All the shortlisted students of Mechanical Engineering are hereby informed to attend the Value Added Course organized by Department of Mechanical Engineering on the topic of "ANSYS (Engineering Simulation)" from 03<sup>rd</sup> January 2022 to 07<sup>th</sup> January 2022.

Timing:-

1st Session:- 9.00 am - 12. pm

2<sup>nd</sup> session:- 1.00 pm - 4.00 pm

Venue:- CAD CAM Lab

Prof. Tejas Chaudhari

Faculty Co-ordinator

Prof. Nivati Raut

HOD Mechanical



### **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

#### **Syllabus & Course Outcomes**

Course Name: ANSYS (Engineering Simulation)

Academic Term: Jan 2022 to May 2022

### Syllabus:

| Modu<br>le | Details  | Hours |
|------------|--|-------|
| _          | Solid Modeling: An Overview of Solid Modeling  | _     |
| 1          | Operations, Working with Boolean operations,   | 4     |
|            | Working Plane, Importing of 3D   |       |
|            | models.  |       |
|            | Meshing: Free meshing or Mapped meshing, Setting   |       |
|            | Element Attributes, Selecting Element Type, Shape  |       |
| 2          | Function, Defining Element Types, Defining Section   | 8     |
|            | Properties, Assigning Element Attributes before  |       |
|            | meshing, Mesh Controls, The ANSYS Mesh Tool,   |       |
|            | Smart sizing, Meshing, Free Meshing, Mapped  |       |
|            | Meshing, Hybrid  |       |
|            | meshing, Mesh Extrusion, Volume Sweeping. <b>Boundary Conditions:</b> Types of Loads, Applying   |       |
| 3          | <b>Boundary Conditions:</b> Types of Loads, Applying loads.                                      | 6     |
| 3          | Solvers: Types of Solvers, Solver Setup, Load Step   | O     |
|            | Options, Solving Multiple Load Steps.  |       |
| 4          | <b>Tips &amp; Tricks:</b> Using the Toolbar & Creating Abbreviations,                            | 4     |
| 4          | Introduction to APDL, Using Parameters, Using the  | 4     |
|            | Start File, Using the Session Editor, Using Input Files.  ANSYS Workbench: Introduction to ANSYS |       |
| 5          | Workbench, Graphical   | 8     |
| 3          | User Interface, Static Structural Analysis, Modal  | U     |
|            | Analysis, Thermal Analysis, Contact Recognition.   |       |

epartment of Mechanical Engineering; VIVA institute of technology, Shirgaon, Virar

### **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

### **DEPARTMENT OF MECHANICAL ENGINEERING**

#### **Course Outcomes**

| Sr.<br>No. | CO<br>Code | Course<br>Outcomes   |
|------------|------------|--|
| 1          | CO_1       | Apply basic aspects of Analysis to solve engineering problems. |
| 2          | CO_2       | Select suitable meshing and perform convergence test.          |
| 3          | CO_3       | Apply basic aspects to solve engineering problems.             |
| 4          | CO_4       | Perform basics tricks and tips to solve engineering problems.  |
| 5          | CO_5       | Interpret the result.  |



#### Late Stree Vishes Volum Warran Charteble Trust's

VIVA Institute of Technology

At Shingson, Viner (East), Teleke-Vesar, Peighar District – 401105, Melarashtra.

Department of Mechanical Engineering

#### VALUE ADDED COURSE - ANSYS (Engineering Simulation) Academic Year : 2021-22

Course Duration: 3rd Jan to 7th Jan 2022

Time: 9,00 am to 12,00 pm

|         |                                    | - 65  | Date       |            |            |            |            |  |
|---------|------------------------------------|-------|------------|------------|------------|------------|------------|--|
| Sr. No. | Name of Students                   | Class | 03/01/2022 | 94/91/2022 | 05/01/2022 | 06/01/2022 | 07/01/2022 |  |
| 1       | MACHHI RONIK GANESH TEENA          | SE    | Ravik      | Rank       | Quirk      | Quink      | Pour       |  |
| 2       | KAMBLE TRUNAL TULSHIDAS MINAKSHI   | SE    | Found      | Townal     | MS         | Tours      | mus        |  |
| 3       | PRAJAPATI PRACHITI GANESH SHILPA   | SE    | AB         | Practic    | Projeti    | Projecti   | Poor       |  |
| 4       | KINI MANGESH VISHWANATH JAYVANTI   | TE    | Deale 9    | THE HE     | 10414      | Patricina. | PART I     |  |
|         | MATHAK GAVIN DOMINIC PRESCILLA     | TE    | manin      | (fagen     | courin     | (Persin    | (ADWW      |  |
| 6       | TARAL RUTIK RAVINDRA RANJANA       | TE    | ARL        | ATRIL      | ATRL       | MAL        | AB         |  |
| 7       | YADAV MONU HARISHCHANDRA INDU      | TE    | Home       | PMS        | affer      | opal       | offa       |  |
| 8       | PATIL ISHAN SANDEEP RESHMA         | TE    | offin      | Blown      | Samo       | Shun       | phon       |  |
| 9       | PATIL NIRBHAY JAYVANT JYOTI        | TE    | ARATE      | A PATT     | MARTEL     | NATI+      | NEWST      |  |
| 10      | DANDGAWHAL GRANTHALI SAGAR MANISHA | 86    | Agen-      | age        | Low        | spa-       | rien       |  |
| 11      | JANI YIDHI PRAKASH BHAYANA         | 38    | (ibari     | iwwii      | indo       | ivvi       | OWN        |  |
| 12      | KURADE ABHUIT GANAPATI PRATIBHA    | вє    | KRAN       | INP. GOE   | KEROP      | KENCH      | KBBOE      |  |
| 15      | SHAPARIA CHINTAN VIJAY CHANDRIKA   | BE    | Hickory    | AB         | Harm       | Median     | in Contact |  |
| 14      | THAKUR OM NILESH SUJATA            | BE    | Hokey      | Thekun     | - 19 Cherr | DARLEN     | - Alko     |  |
| 15      | VYAS HARSH DHAVAL SHIVANI          | BE    | yough      | Jacobs     | Conso      | Josh       | (hough     |  |

Prof. Tejas Chardhas Faculty Co-ordinator (Michanical Engineering Dept.) Prof. Viyati Raut H.O.D.

(Medianical Engineering Dept.)



#### Lare Shree Videou Visheo Wanso Chamable Triar's

#### VIVA Institute of Technology

At Shirgson, Virw (East), Taluka-Visan, Palghar District - 401905, Meharashira Department of Mechanical Engineering

#### VALUE ADDED COURSE - ANSYS (Engineering Simulation)

Academic Year | 2021-22

Course Durution : 3rd Jun to 7th Jun 2022

Time: 1.00 pm to 4.00 pm

|         | 26 22 2                            | 1     | Date       |            |            |            |            |  |
|---------|------------------------------------|-------|------------|------------|------------|------------|------------|--|
| Sr. No. | Name of Students                   | Class | (3/01/2022 | 64/61/2022 | 05/01/2022 | 06/01/2022 | 07/01/2012 |  |
| . 1     | MACHHI RONIK GANESH TEENA          | SE    | MAN        | KNOP.      | PARTIK     | MANUEL N   | MAJK       |  |
| 1       | KAMBLE TRUNAL TULSHIDAS MINAKSHI   | SE    | Markon     | Kraph      | PIR        | Kraval     | Klann      |  |
| 3:      | PRAJAPATI PRACHITI GANESH SHILPA   | SE    | paigh      | pour       | 900        | ROOM       | PROJECT)   |  |
| 4       | KINI MANGESH VISHWANATH JAYVANTI   | TE    | Aipra-     | P-2        | AM         | HIN        | MA         |  |
| 5       | MATHAK GAVIN DOMINIC PRESCILLA     | TE    | SHP-U      | 31491      | 8 1411     | DH41       | मामाभ      |  |
| b       | TARAL RUTIK RAVINDRA RANJANA       | TE    | Me         | THUR       | Pay        | apon       | my         |  |
| 7       | YADAY MONU HARISHCHANDRA INDU      | TE    | PNB        | HAON       | MIN        | MANOW      | - OV       |  |
|         | PATIL ISHAN SANDEEP RESHMA         | TE    | There .    | Start.     | Mount.     | MAD.       | Denn       |  |
|         | PATIL NIRBHAY JAYVANT JYOTI        | TE    | - Note     | NAME       | MA         | Mind       | PS.        |  |
| 10      | DANDGAWHAL GRANTHALI SAGAR MANISHA | 8E    | alast      | plated     | plan       | abstrati   | POHO       |  |
| in      | JANI VIDHI PRAKASIL BHAVANA        | BE    | ANI        | ANI        | ANI        | MI         | F.N.T      |  |
| 12      | KURADE ABHUIT GANAPATI PRATIBHA    | 38    | Him        | MM         | Mint       | MAN        | ALJ H      |  |
| 13.     | SHAPARIA CHINTAN VUAY CHANDRIKA    | BE    | denta      | - divisor  | - DENTA    | abouto     | Pedar      |  |
| 14      | THAKUR ON NILESH SUIATA            | 38    | theter     | Buter      | Taken      | Tomes      | Tenter     |  |
| 15      | VYAS HARSH DHAVAL SHIVANI          | BE    | 500FT      | DAY ECO    | 040-1      | OBIL       | ONLY       |  |

Prof. Tejas Chauthari Feculty Co-ordinator

(Mechanical Engineering Dept.)

(Mechanical Engineering Dept.)





## VIVA Institute of Technology

Approved by AICTE New Delhi, DTE, Govt. of Maharashtra and Affiliated to University of Mumbai Shirgaon, Virar(E.), Dist: Palghar-401305, Maharashtra

## CERTIFICATE

This to certify that Dr. / Mr. / Ms. PRAJAPATI PRACHITI GANESH SHILPA

has attended a Short Term Training Program on "ANSYS (Engineering Simulation)" during the

period 3<sup>rd</sup> Jan - 7<sup>th</sup> Jan, 2022 at Department of Mechanical Engineering, VIVA Institute of
Technology, Shirgaon, Virar.

(Ros)

Mr. Tejas Chaudhari (CO-ORDINATOR) MAGNE

Mrs. Niyati Raut (HEAD OF THE DEPARTMENT) Tuna

Dr. Arun Kumar (PRINCIPAL)



### **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

Late Shree Vishnu Waman Thakur Charitable Trust's

## VIVA Institute of Technology

Shirgaon, Virar (E)

Department of Mechanical Engineering

VIVA/VIT/MECH/STUDENT/2021-22

## NOTICE

All the shortlisted students of B.E. Mechanical Engineering are hereby informed to attend the Value Added Course organized by Department of Mechanical Engineering on the topic of "Introduction to Dye Penetrant Non Destructive Testing (DT) Method" from 03<sup>rd</sup> January to 07<sup>th</sup> January 2022.

Timing:-

1st Session: - 9.00 am - 12.00 pm

2<sup>nd</sup> session:- 1.00 pm - 4.00 pm

Venue:- CAD CAM Lab

Prof. Tejas Chaudhari

- eles

Faculty Co-ordinator

Prof. Nyati Raut

Date: 30/12/2021

**HOD** Mechanical



partment of Mechanical Engineering; VIVA institute of technology, Shirgaon, Virar (East)

### **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

# DEPARTMENT OF MECHANICAL ENGINEERING Syllabus & Course Outcomes

Course Name: Introduction to Dye Penetrant Non Destructive Testing (DT) Method

Academic Year: 2021-22

#### **Syllabus:**

| MODULE | DETAILS  | HOURS |
|--------|--|-------|
|        | Module 1: Basic Principles of Non-Destructive Testing      |       |
|        | Definition and importance of NDT                           |       |
|        | Types of NDT methods                                       |       |
|        | Visual testing (VT)  |       |
| 1      | Liquid penetrant testing (PT)                              | 5     |
| 1      | Magnetic particle testing (MT)                             | 3     |
|        | Eddy current testing (ET)                                  |       |
|        | Radiographic testing method (RT)                           |       |
|        | Ultrasonic testing (UT)                                    |       |
|        | Comparison of different NDT methods                        |       |
|        | Module 2: Basics of Dye Penetrant Testing                  |       |
|        | Advantages of Ultrasonic Tests                             | 4     |
| 2      | Limitations of Ultrasonic Tests                            | 4     |
|        | Criteria for Successful Testing                            |       |
|        | Module 3: Quality Assurance techniques                     |       |
| ,      | Visible Solvent Removable                                  | 7     |
| 3      | Water Washable   | 7     |
|        | Post Emulsifiable  |       |
|        | <b>Module 4: Inspection steps in Dye Penetrant Testing</b> |       |
|        | Pre-cleaning   |       |
|        | Application of Penetrant                                   |       |
| 4      | Excess Penetrant Removal                                   | 7     |
|        | Application of Developer                                   |       |
|        | Inspection   |       |
|        | Post Cleaning  |       |



### **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

|   | Module 5: Standards and Codes                          |   |
|---|--|---|
|   | ASTM (American Society of Testing and Materials)       |   |
|   | ISO (International Standards Organization)             |   |
| _ | CEN (European Committee for Standardization)           | _ |
| 5 | ASME (American Society of Mechanical Engineers)        | 7 |
|   | NBIC (The National Board of Boiler and Pressure Vessel |   |
|   | Inspectors)  |   |
|   | ISO (International Standards Organization)             |   |

#### **Course Outcomes:**

| SR.<br>NO. | CO CODE | COURSE OUTCOMES   |
|------------|---------|---|
| 1          | CO_1    | Apply basic aspects of Inspection to solve engineering problems.  |
| 2          | CO_2    | Understand the basic concept of Dye Penetrant Testing.            |
| 3          | CO_3    | Understand the various Quality Assurance techniques.              |
| 4          | CO_4    | Understand the various Inspection steps in Dye Penetrant Testing. |
| 5          | CO_5    | Select appropriate Standards and Codes.                           |

#### VIVA Institute of Technology

At. Shingaon, Virar (East), Taluka-Vassi, Palgher District - 401305, Meharashtra.

#### Department of Mechanical Engineering

### VALUE ADDED COURSE - Introduction to Dye Penetrunt Non Destructive Testing (DT) Method

Academic Verr : 2021-22

Caucse Duration: 3rd Jan to 7th Jan 2022

Time: 9.00 am to 12.00 pm

| Sr. No.   | Name                                  |       |            |            | Date   |            |            |
|-----------|---------------------------------------|-------|------------|------------|--|------------|------------|
| 200 (200) | Name of Students                      | Class | 03/01/2022 | 04/01/2022 | 05/01/2022   | 06/01/2022 | ØT/01/2022 |
| 1         | ADIVAREKAR VISHAL ATMARAM AMITA       | BE    | VANS       | MAN        | 184  | MAN        | AB         |
| 2         | ATTAR MOHD HUZAIF MOHD IRFAN SAJIDA   | BE    | Ana        | Bur        | AM   | Du         | BM         |
| 3         | BHUJANG ANIKET BALASAHEB BABITA       | BE    | BOAR       | DIPIG      | 0899   | SPA        | DARR       |
| 4         | CHAUDHARI RIDDHESH NITIN NIDHI        | BE    | peller     | peur       | AB   | pay        | ARM        |
| 3         | CHAVAN SHREYAS SAMEER SAMIKSHA        | BE    | 806        | 931        | 88   | 300        | 8038       |
| ó         | DALVI VAIBHAV EKNATH KALPANA          | BE    | Sar        | See        | eses   | ES         | our        |
| 7         | / GAWANDI AISHWARYA ANANT AKSHAYA     | BE    | oneuro     | Draw       | Arguni   | AB         | Done       |
| 8         | / GONDHALEKAR AKSHATA PRITAM SUJATA   | BE    | MPG        | APG        | apu  | APG        | APRE       |
| 9         | / JAMBHALE SHILPA SHANTARAM SHUBHANGI | BE    | 33-6       | -          | 330  | 520        | 22         |
| 10        | KENI MILIND GOVIND SANGEETA           | 86    | maleire    |            | The state of the s | massi      | nac        |
| .01       | KHARAT RAHUL SUKHDEV ANITA            | 38    | RSK        | PSL        | RASS   | FASS       | RELL       |
| 12        | / KHOPKAR MAYURI CHANDRAKANT CHARULAT | BE    | AB         | AB         | ne.  | 185        | ne         |
| 13        | MAHYAVANSHI JAYESH RAJESH KUSUM       | BE    | 504-84     | 200        | Japen  | JUME       | TUN        |
| 14        | MARAVAR MAHARAJA VENKATACHALAM        | BE    |            |            | WOW  | www        | COM        |
| 13        | MISHRA KRISHNA SHASHIBHUSHAN REETA    | BE    |            | SIGN       | 1881   | AB         | Ksy        |
| 16        | MITHARI SMIT PRADIP UJWALA            | ĐE.   | SPM        | 28m        | Sem  | SPA        | 8001       |
| 17        | NAIK DHAVAL SUDHIR SEEMA              | BE.   | Bru        | -          | ERY  | 201        | 200        |
| 18        | NAIK PRAJYOT VIJAY VIDYA              | BE    | Rnule      | PLANTEN    | anio   | enin       | BAND       |
| 19        | NARKAR PARAS RAVINDRA RAJANI          | 8E    |            | Pung       | AB S   |            | anu        |
| 20        | / PALAV DAKSHA VAIBHAV VAISHALI       | BE    | DNIE       | PVP        | PVP  |            | D.A.4      |
| 2)        | PANCHAL SHUBHAM UDAY ANAMIKA          | BE    | SUFW       | Sugar      | Sap  | Supers     | AB         |
| 22        | PARATE MANISH PURUSHOTTAM PUSHPA      | BE    | MAP :      | MUP        |  | CANA       | and        |
| 23        | PARULEKAR ONIKAR JAYWANT ROOPAM       | BE    | MB         | omiza      |  |            | Some       |
| 24        | / PATIL POOJA RAJENDRA UJWALA         | BE    | PRP-N      | REM        | - BADie  | BARON      | PAR        |
| 25        | PATIL RAHUL BHAGWAN SUNFTA            | BE    | #BR        | AB         | PARA?  | BOBO       | ROW        |
| 26        | PATIL VAIBHAV SAKHARAM SUVARNA        | 36    | DO         | 8-A        | 120  | AB         | 88         |
| 27        | SAWANT NINAD VIJAY MANALI             | BE    | Rus        | Qui        | Du   | Die        | D          |
| 28        | SHINDE ABHISHEK GANESH BHARATI        | BE    | (A)        | AB         | Doe  | Dem        | See        |
| 39        | / THAKUR POOJA HARESHWAR VAISHALI     | BE    | ROUS       | for        | Ron  | 400        | Pou        |
| 30        | / UPADHYAY SONAM SUBHASH KARUNA       | BE    | Sour       | Skim       | Busto  | AB         | 02         |

At: Shirgaon Post Virar, Co. Dist. Palghar Is

Prof. Teles Chaudhari Faculty Co-ordinator (Mechanical Engineering Dept.) Prof. Nighti Rout H.O.D. (Mechanical Engineering Dept.)

#### VIVA Institute of Technology

At Shirgaon, Virar (East), Taluka-Vasni, Palghar District - 401305, Mahasashtra.

#### Department of Mechanical Engineering

#### VALUE ADDED COURSE - Introduction to Dye Penetrant Non Destructive Testing (DT) Method

Academic Year : 2021-22

Course Duration: 3rd Jan to 7th Jan 2022

Time: 1.00 pm to 3.00 pm

| e. v.   |                                       |       | 1  |            | Date       | 10V 1                           | 1 45       |
|---------|---------------------------------------|-------|--|------------|------------|---------------------------------|------------|
| Sr. No. | Name of Students                      | Class | 03/01/2022   | 04/01/2022 | 05/01/2022 | 06/01/2022                      | 97/01/2023 |
| 1       | ADIVAREKAR VISHAL ATMARAM AMITA       | BE    | Maria  | VAAN       | MASTON     | Som                             | MB         |
| 2       | ATTAR MOHD HUZAIF MOHD IRFAN SAJIDA   | DE    | AB   | BM         | SV         | BM                              | BM         |
| 3       | BHUJANG ANIKET BALASAHEB BABITA       | BE    | PALL   | PARLE      | RAN        | am                              | RAI        |
| 4       | CHAUDHARI RIDDHESH NITIN NIDHI        | BE    | SH   | con        | MB         | 055                             | CER        |
| 5       | CHAVAN SHREYAS SAMEER SAMIKSHA        | BE    | DNY  | An         | 804        | mu                              | one        |
| 0       | DALVI VAIBHAV EKNATH KALPANA          | BE    | 1.6  | nou        | anaus      | Anus                            | AB         |
| 7       | /GAWANDI AISHWARYA ANANT AKSHAYA      | BE    | APG  | 300        | AP6        | AB                              | Dre        |
| 8       | / GONDHALEKAR AKSHATA PRITAM SUJATA   | BE    | AB   | 534        | 559        | 500                             | 228        |
| 0       | / JAMBHALE SHILPA SHANTARAM SHUBHANGI | DE    | malen  | matri      | meson      | marker                          | mula       |
| 10      | KENI MILIND GOVIND SANGEETA           | BE    | RAS  | AB         | 800        | The second second second second | 88         |
| 11      | KHARAT RAHUL SUKHDEV ANITA            | BE    | nes  | ms         | MS         | mes                             | AB         |
| 12      | / KHOPKAR MAYURI CHANDRAKANT CHARULAT | 88    | AB   | AB C       | DOMEN      | Jeefa.                          | 2004       |
| 13      | MAHYAYANSHI JAYESH RAJESH KUSUM       | BE    | UEN  | MUN        | DVWA       | MA                              | Men        |
| 14      | MARAYAR MAHARAJA VENKATACHALAM        | BE    | AB   | YSOL       | E-824      | Keny                            | Ken        |
| 15      | MISHRA KRISHNA SHASHIBHUSHAN REETA    | BE    | 3844   | Spu        | 800c       | MB                              | SAPON      |
| 16      | MITHARI SMIT PRADIP UJWALA            | DE    | The second secon | BEND       | Donn       | Doch                            | Do         |
| 17      | NAIK DHAVAL SUDHIR SEEMA              | BE    | Brown  | AB         | CAM        | pour                            | Phu        |
| 18      | NAIK PRAJYOT VIJAY VIDVA              | BE    | aron   | Dun        | Pu         | Rom                             | Rm         |
| 19      | NARKAR PARAS RAVINDRA RAJANI          | BE    | PVP  | 8,40       | AB         | D.N.B                           | DV. K      |
| 20      | / PALAV DAKSHA VAIBHAV VAISHALI       | BE    | Sopu   | SM         | silen      | grou                            | gur        |
| 21      | PANCHAL SHUBHAM UDAY ANAMIKA          | BE    | more   | mis        | mus        | mp                              | AB         |
| 22      | PARATE MANISH PURUSHOTTAM PUSHPA      | BE    | 0912   | agun       | OMICH      | mou                             |            |
| 23      | PARULEKAR OMKAR JAYWANT ROOPAM        | BE    | MB   | RALI       | Row        | RAM                             | Reu        |
| 24      | /PATIL POGJA RAJENDRA UJWALA          | BE    | RAP  | PORR       | PSSQ       | PER                             | RIGIT      |
| 25      | PATIL RAHUL BHAGWAN SUNITA            | BE    | 20   | AB         | 358        | 250                             | \$0        |
| 26      | PATIL VAIBHAV SAKHARAM SUVARNA        | BE    | Dur  | OW         | Du         | AB                              | Me         |
| 27      | SAWANT NINAD VIJAY MANALI             | BE    | Deper  | Bor        | Par        | KIN                             | Ale        |
| 28      | SHINDE ABHISHEK GANESH BHARATI        | BE    | Dom  | AB         | Aym        | Agu                             | Deri       |
| 29      | /THAKUR POOJA HARESHWAR VAISHALI      | BE    | Bosy   | Rosyn      | Roox       | Roop                            | boe        |
| 30      | /UPADHYAY SONAM SUBHASH KARUNA        | BE    | 52800  | SOO        | Saup       | AB                              | SZ         |

At: Shirgaon Post: Virar, Tal.: Vasal, Dist. Palghar

Prof. Teyes Chaudhari Faculty Co-ordinator

Prof. N Vati Raut



### VIVA Institute of Technology

Approved by AICTE New Delhi, DTE, Govt. of Maharashtra and Affiliated to University of Mumbai

Shirgaon, Virar(E.), Dist: Palghar-401305, Maharashtra

### CERTIFICATE

This to certify that Dr. / Mr. / Ms. THAKUR POOJA HARESHWAR VAISHALI
has attended a Short Term Training Program on "Introduction to Dye Penetrant Non Destructive
Testing (DT) Method" during the period 03rd Jan to 07th Jan, 2022 at Department of Mechanical
Engineering, VIVA Institute of Technology, Shirgaon, Virar.

Mr. Tejas Chaudhari (CO-ORDINATOR) Mrs. Nivati Raut
(HEAD OF THE DEPARTMENT)

Dr. Arun Kumar (PRINCIPAL)



### VALUE ADDED COURSE (Online)

| Name of Course:          | ELECTRICAL<br>INSTALLATION | Branch:             | Electrical Engineering |
|--------------------------|----------------------------|---------------------|------------------------|
| Duration:                | 30 Hours                   | Instructors:        | Piyali Mondal          |
| Date of<br>Commencement: | 22 Feb 2022                | Date of conclusion: | 18 April 2022          |

|           | Course Outcomes  |
|-----------|--|
| Upon succ | essful completion of the course, the student must be able to                                   |
| CO1       | To understand practices followed in industries for safety of equipment and personnel.          |
| CO2       | To understand basic electrical and electronics concepts, devices and their electrical ratings. |
| CO3       | To understand power transfer systems and their installation practices in industry              |
| CO4       | To understand documentation required for installation.   |

#### Course Objectives

The objective of this vocational course is to make students understand various installation practices followed in industries for electrical equipment. This course is designed to make students job-ready for the industry by instilling multiple skills in them like electrical drawing and reading, IEEE and IS standards followed in industries, documentation for industries, etc.

|          | Syllabus  |       |
|----------|---|-------|
| Unit No. | Contents  | Hours |
| 1        | Health and safety industry practices  The regulations, laws and guidance documents associated with the electrical industry, Use equipment on a construction site, Follow safety procedures, practices and policies on construction sites, Carry out electrical safety procedures and practices, Understand environmental protection, structure and roles of individuals and organizations | 6     |
| 2        | Electrical science Understand direct current principles, Understand electromagnetic properties associated with devices under installation, Understand electronic components required for installation with data sheets and drawings.  | 6     |
| 3        | Electrical installation Tools commonly used in electrical installation practices, Erect cable containment/management systems used in electrical installation, Install wiring systems and supports used in electrical installation activities, Install accessories and terminate   | 6     |

| 4 | Power transfer technology Understand how electricity is supplied and the characteristics of consumer's equipment, Understand isolation and protection, Understand automatic disconnection of supply, Understand the principles of final circuits | 6 |
|---|--|---|
| 5 | Technical documentation with clients Understand technical information with help of IEEE standards, manufacturer guidelines, Drawings used to plan electrical activities, Types of financial information, Types of handover information           | 6 |

|       | Learning Resources   |
|-------|--|
| Text  | Books:   |
|       | <ol> <li>Trevor Linsley, "Basic electrical installation work", 1989</li> <li>J. B. Gupta, "A Course in Electrical Installation Estimating and Costing", 2013.</li> </ol>     |
| Refer | rence Books:   |
|       | <ol> <li>Tarlok Singh, "Installation Commissioning &amp; Maintenance Of Electrical Equipments", 2013</li> <li>Brian Scaddan, "Electrical Installation Work", 2015</li> </ol> |



VIVA Institute of Technology, Virar SUBJECT: Flethical Installation B.E. ELECT SUBJECT INCHARGE: Prof Prival: Mondal

B.E. ELECTRICAL (2021-202)

| R.  | Name                              | 11/3    | 11/3    | 1413      | 1913   | 21/3                       | 21/3      | 29/3   | 1013          |     | _ |
|-----|-----------------------------------|---------|---------|-----------|--------|----------------------------|-----------|--------|---------------|-----|---|
| la, | Time                              | 1:30    | 3500    | 2130      | 530    | 2:20                       | 2:70      |        | 2:30          |     |   |
| 1   | AMIN GALITAN MOHAN OBETHA         | a       | ar      | no        | alle   | ENG                        | 64        | CO     | al            |     |   |
| 2   | BADWE KINAD PRASAD PRAPTI         | 100     |         |           |        |                            |           |        |               |     |   |
| 3   | DHANDARI PRADIP PRAKADI RAMANA    | -       |         | -         | Comp   |                            | -         | -maer  | COURS.        |     | _ |
| 4   | DOLUMENTA ADMENT MARKET NOTA      | Bt      | BF      | BI        | 14     | Bt                         | Bf        | 24     | 14            |     |   |
| 5   | DIOXE METHA DIVANESHWAR SANGEA    | 1000    | 2000    |           |        |                            |           |        |               |     | _ |
| 6   | SUBSTABA STEEN AND, HERA          |         |         |           |        | - /                        |           |        |               |     |   |
| +   | CHAUHAN ASSHAY SANIAY JAYSPRITE   | BJ.     | 04      | 100       | -      | 4                          | 67        | AT-    | Jed-          |     |   |
| 8   | CHLVAN BUTUIA ALAY APARNA         | 4-      | 0       | (P)       | @      | Q-                         | P         | P.     | (B)           |     |   |
| 9   | CHOUSEAN SANGETA PREM NABAYAN     | 30      | SC      | 30        | 30     | 30                         | SC        | 36     | SK            | - 3 |   |
| 19  | GAVADE KAKUNA GOVEND (YOT)        |         |         |           |        |                            |           |        |               |     |   |
| 11  | GHARAT HETESH DONESH DIPA         |         |         |           |        |                            |           |        |               |     |   |
| 12  | GUILLE ADITI SURYAKANT SONAL      |         | CAS .   |           |        |                            |           |        |               |     |   |
| 11  | LIATIN KARONAN HEAYUR IYALOO      |         |         |           |        |                            |           | - 1    | -             |     |   |
| 14  |                                   | -       | 1       |           |        |                            |           |        |               |     |   |
| 15  |                                   | QE1     | (tre)   | (4)       | (m)    | (42)                       | asy       | 4      | GET           |     |   |
| 16  |                                   | 200     | Barr    | Joseph    | 郑开     | BOW                        | Risi      | 別が     | Kol.          |     |   |
| 17  | DUPTA BATENDRA BASHISHTIKANU      |         |         | - Account | -      | Terrediction of the second |           | 200    | and a         | 1   |   |
| -   | HEIPAKA AMEIT RAMOTEHAL           | 14-     | ur.F    | 44        | A      | 14                         | 4         | 14     | nf-           |     |   |
| -   | TAZBIAN SAMESHA HIRAMAN           | 83      | 8)      | 8         | 87     | 81                         | 81        | 81     | 8             |     |   |
| -   | FACHAY SCIENT AND ANKITA          | 80      | 587     | 370       | 420.7  | 500                        | 800       | 30     | 5333          |     |   |
| -   | TAISWAL AMITTOMAN NAVALAISNORE    |         |         |           | -      | 10000                      | SHEHIT TO | - 0    |               |     |   |
| -   | CALE PRADEEP PRAKASH SUNITA       |         |         |           |        |                            |           | 14700  |               |     |   |
| 23  | EAMELE SHWETA NARENDRA VANITA     | GF.     | EK.     | SK        | CK.    | 54                         | C1-       | SE     | 24            |     |   |
| 34  | SAPPLES ONEAR VASUDED VANDANA     |         |         |           |        |                            |           |        |               |     |   |
| -   | ECHADA VE BRAKTI SADASTEV         | 146     | KA      | 118       | VB.    | LB.                        | EB        | E.B    | \$B           |     |   |
|     | KOLEKAN EUSHAL VILAS RAXIAMA      | 12      | 100     | -         |        |                            |           |        |               |     |   |
|     | COMMON VEUDINALI BRALACIANDRA     |         |         |           |        |                            |           |        |               |     |   |
|     |                                   |         |         |           |        |                            | - 1       |        |               |     |   |
|     | LASE NOTERN DEREAS NOTAN          |         |         |           |        |                            |           |        |               |     |   |
|     | LONE KANELSHI GARRAT GEETANVALI   | Me      | MI      | lin       | my     | un                         | uu        | wy     | Ma            |     |   |
| -   | HARITYA MILAH KIBIKIR KAKIDIN     | MIP     | MP      | 12-A      | MP     | MP                         | -         | MP     |               |     | _ |
|     | MAKWANA PRATIK BUPIN RAPUAN       | 1-14    | 1       | A M       | To be  | 1 -01                      | 1-4       | MA     | Bary          |     |   |
| -   | MARDORIKAR SACHEN DENKAR VARSHALI |         |         |           |        |                            |           |        |               | -   |   |
| 100 | MUNICAYAT SHEETINH RAYDIGHAN      | -       |         |           |        |                            |           |        |               | -   |   |
| -   | MEDICONAL ADDITI SAMAY SEAL       | 1000    | 5550 47 | 4.60      | 200    | 40.0                       | and       | 44.4   | 440           | -   |   |
| -   | NASILUM MIHA RINA                 | m       | M       | M         | m      | w                          | m         | m      | m             |     |   |
| -   | ORIGINAL SECTION THEORY           |         |         |           |        |                            |           |        |               |     |   |
| 7   | PACHARDOUR ASPESIACIONAR ASSISTE  |         |         |           |        |                            |           |        |               |     |   |
| 5   | PADVE AESISAT ABUDA SASSETA       |         |         |           | _      |                            |           |        |               | -   | - |
| 9   | PANCIFIC MITH VINDOCUMAN HANSA    |         | 9       |           |        |                            |           | - 0    |               | -   |   |
| 0   | PARADRE SHARAD CANESH SURITA      |         |         |           |        |                            |           |        |               |     |   |
| 1   | PASHTE POOLA KIBAN KATAL          |         |         |           | -      |                            |           | -      |               |     |   |
| 7   | PATE DAESHAT HINECHANDRA          |         |         |           |        |                            |           |        |               |     |   |
| -   | PATE CONCAR YDAY BUYANNA          |         |         |           | C      | 1                          | -         | -      | -             |     |   |
| 4   | PATE PAYAL SIDEL SMITA            | Stane . | Decent- | Terre     | aunt   | Just                       | CLIP      | troul- | - deepl       |     |   |
| -   | PATE RUSHKERS KIDMAE KAVITA       |         |         | 10.00     |        |                            | -         |        | - Property of |     |   |
| -   | PATE SANKET SCHAN SEEMA           |         | -       | S         | 100    | -                          |           |        |               |     |   |
| -   | PAWAR PALOCISE RAMERANDRA NANDA   | A       | Famore  | Free      | France | Fawar.                     | France    | Faras  | Lane          |     |   |
| -   | AWAR NEAR MARLET MADRIE           | NP      | , p     | 10        | ND.    | NP.                        | NP        | NP     | NP            |     | 1 |



| 45  | PAWAR PRIYANKA BHAJBU SUNITA*,    |       |       |         |       | -   |      |        |     |          | _       | 4  |
|-----|-----------------------------------|-------|-------|---------|-------|-----|------|--------|-----|----------|---------|----|
| 50  | PAWAR RANGLEAUNDRA NGETA          |       |       |         | - 14  |     |      |        | 1   |          |         | 4  |
| 51  | PERSONAL PROPERTY LANGEST         |       |       |         |       |     |      |        |     |          | $\perp$ | 4  |
| 52  | PENPLE TAKAY NARUNDRA NAMITA      |       |       |         |       |     |      |        |     |          | $\perp$ | 1  |
| 53  | POGDATU ENERA DEVÍCAJ BRAKATIKI   |       |       |         |       |     |      |        |     |          | _       | 4  |
| 54  | LANE NETRA PLAKASH NANDA          | 1     |       |         |       |     |      |        |     |          |         | 4  |
| 55  | LALT KALPIT MANOKAR MANASWI       |       |       |         |       |     |      |        |     | -        | -       | 1  |
| 56  | LAWOOL PRATEAM PANEEARNATH        | -     |       |         |       |     |      |        |     | $\vdash$ | -       | +  |
| 57. | LATITED AMARIKACISAR NASHI        | 典     | 無     | A       | A     | A   | 突    | 1      | A   | _        | -       | +  |
| 胡   | LANGE YUGAY BALAHAH VEUSRALI      |       |       |         |       |     |      |        |     | _        | -       | +  |
| 59  | SAPATE SOUT DOLER DRALES          | 7     |       |         |       |     |      | -      |     | _        | -       | +  |
| db. | SASE PARAO BATESH PUPALI          |       | -     |         |       |     |      |        |     | $\vdash$ | -       | +  |
| 61  | LAWART PRATIC RAVINDRA SHABA      |       |       |         |       |     |      |        |     | -        | -       | +  |
| 13  | EAWANT BORIAN VISHWANATH VINAYA   |       | 1     | 4000000 |       |     |      |        |     |          | -       | +  |
| o   | SELPAL HARRISH BODIESE RDEA       | 他与    | 113.5 | 1135    | 1000  | MBO | 1135 | 1185   | 120 | -        | -       | ₽  |
| 64  | SHANYAR CHENTU SHAKATYA PARVATI   |       |       | -       |       |     |      |        |     | -        |         | H  |
| cs. | BEDIED RAFSATISH SENGHE           |       |       |         | -     |     |      |        |     |          | -       | ₽  |
| 66  | SHINDS RETAK ANKUSH APEKSHA       |       |       |         |       |     |      |        | _   |          |         | ₽  |
| 67  | HOLON RETURN BAMOKANERA KIRAN     |       |       |         |       |     |      |        | -   |          |         | ₽  |
| 18  | TANDE AMAY ADROX ASSEVON          |       |       | 1       |       |     |      |        |     |          |         | H  |
| 63  | ENDIC PARTHERAVCHANDORATE AYA BEN |       |       |         |       |     |      | -      |     |          |         | H  |
| 70  | DEAGLUSE BRAVEOU SHOUKANT SWATT   |       |       |         |       |     |      |        |     | - 0      |         | -  |
| 71  | TRANSPER PROVINCE AND SECURIT     | 0     |       | ~       |       | -   | -    |        |     |          |         | -  |
| 72  | LPADITYAY YENIY UNBERGUNIAN       | 1 hos | Viva  | Chris   | James | Um  | No   | (Jones | NW  |          |         | -  |
| 3   | VANOGALI DIBILIVERE PRABRANT      | 1     |       |         |       |     |      |        | -   |          |         |    |
| 4   | AZE ANIUMSK KITEN KRUTA           |       |       |         |       |     |      |        | -   |          |         | -  |
| 15  | TERRAPUL PRATUMENT PEAKAGE        |       |       |         |       |     |      |        |     |          |         |    |
| 16  | PANATHUS SHALING AGAILST          |       |       |         |       |     | 20   | 10     | 20  |          |         | -  |
| 7   | SHWALAIMA TRINCE RAITHDRA         | 20    | 20    | 20      | 20    | 10  | 20   | v      | 1   |          |         | -  |
| 4   | ADAY AARASH SATISH SHEKA          | -     |       |         |       |     | _    |        |     |          |         |    |
| 9   | ADAY PANKAI KUKESHCHOROKA         | _     |       |         |       |     | -    |        |     |          |         | 16 |
| ,   | ACHIAN HOTESH MACHEKAR MACHINE    | 1     | 4     |         | _     |     |      |        |     | -        | -       | -  |

| 57. | Date | TOPICS COVERED                |
|-----|------|-------------------------------|
| 1   | u/3  | Current fringles              |
| 2   | 11/3 | - Whiteen components readings |
| 3   | 14/3 | - elaponis organists reacting |
|     | 1413 | Dute muto land drawings       |
|     | 21/2 | Euro durin to materian        |
|     | 01/3 | Colle erection, Installation  |
| -   | 20/3 | 7006 for Intallation          |
| -   | 10/3 | wing modern & supports        |



SUBJECT INCHARGE

SUBJECT: FLUSSICAL TOSTALLATION B.E. ELECT SUBJECT INCHARGE: Part Physic Mondal B.E. ELECT B.E. ELECTRICAL (2021-202)

| R.   | Name  | 27/3     | 22/3   | 26/3     | ollou | yes.       | 74   | 年十十    | -List  | +     |
|------|---|----------|--------|----------|-------|------------|------|--------|--------|-------|
| fa.  | Time  | 2:50     | 2-30   | 5:50     | 1:30  | 1 Te       | 1150 | 2:36   | 3:30   | -     |
| 6    | AMEN GAUTAM MORRAY GEETHA   | 600      | de     | de       | CAN   | EACH       | SU   | W      | asl    |       |
| 3    | BAGNE NIXAD PRASAD PRAFTI   | O Files  | -      | T-       | -     | -          |      | _      | -      | -     |
| 3    | MICANDIAN PRADIP PRAKASH KANSINA  | -        | -      | -7       | -     | -70        | T    | -      |        | -     |
| 4    | SHARKHADA ASHINI MAKESH MITA  | d4       | 24-    | PA       | Bt    | 61         | SH   | 84     | 84     |       |
| 5    | SHOIZ AMESHA DIVISANZISHWAR, SANOITA  | -        | -      | -        | ( -   | -          |      | -      |        |       |
| 6    | SHUSARA STESH AND HELA  | W        | 1      | -        | 15 W  |            | -    | 1000   |        |       |
| 7    | CHAUNAN AKSENY SANIAY JAYSHREE  | (Fig.    | A.     | EX       | ad    | 801        | PI   | SH     | 04     |       |
| 4    | CHAYAN BUTUR ANY APARNA   | Co       | CD-    | (P)      | OF.   | (B)        | 0    | (2)    | CE     |       |
| 8    | CHICKHAN SANGTA PRIM NAZAYAN  | 90       | SU     | SL       | 56    | SC         | SU   | d      | 5-1    |       |
| 10   | CAWADE KABUNA GOVEND JYOTE  | -        | -      | -        | -     | -          |      | 1      | -      |       |
| 11   | CHARAT HITESIK DONESIK DIPA.  | -        | -      | -        | -     | -          | -    | -      | -      |       |
| 12   | GUSELE ADITS SURVAKANT SONAL  |          | -      | -        | -     | -          |      | -      | -      |       |
| -    | GOSAVE SUYASH MANOHAR METALI  | -        |        | _        | -     | C=         |      | -      |        |       |
| 14   | OUPTA AVINASHKUMAR SEWALAL  | 055      |        | -        | -     | -5         | -    | -      | -      |       |
| -    | OLIPTA HARSHAL BITCHAY POKY   | (30)     | -01    | 64       | 644   | G#2        | 64   | 70     | 617    |       |
| 14"  | CUPTA PRITI GURUPRASAD ANITA  | 6.11     | ALL    | Just     | REIN  | Ziti       | Bill | K11    | 2(1)   |       |
| 17   | OUPTA RAJENDRA BASHINET HAND  | - Into   | 570    | 1        | -     | -          |      | -,     |        |       |
| III. | IDEPULA ANCIT KAMEDIKAL   | 14       | 119    | 14       | M     | dit        | 14   | M      | M      |       |
| 19   | DADBLAY SAMEESHA HERAMAN  | 0        | 3)     | 87       | 59    | <b>4</b> ) | 3)   | 5)     | 81     |       |
| 10   | IADRAY SIDDLE ANE. ANCITA   | 900      | 50     | 80)      | Sn    | 80         | (N)  | 628    | cro    |       |
| 21   | NISWAL AMITELMAR KANALKIEHORE   | 3 -      | -      | -        | -     | -          | -    | -      | pier.  |       |
| 11   | EALE PRADRES PRAEASH SUNITA   |          |        | -        | -     |            | 1    |        |        |       |
| 35   | CAMBLE SHWETA NARENDRA YANTA  | SK       | 0K     | SK       | SK    | SK         | CK   | 576-   | SK     |       |
| 14   | CAPBULE OMICAN VASCISSO VANDANA   | -        | -      | -        | -     | -          | -    | -      | -      |       |
| 25   | DIABAYE BILAKTI SADASHIV  | 116      | PB     | NB       | KB    | KB         | KB.  | 16     | KB     |       |
| 16   | KOLEKAN KENBAL VILAF RANDANA  |          | -      | -        | -     |            | -    |        |        |       |
| 17   | COMBINAR VECTORAL I MERCACIDADORA   | -        |        | -        | -     | -          | -    | -      | -      |       |
| 18   | LASE NITERII BIERAN NUTAV   | 11       | -      | -        | -     | -          | -    | -      |        |       |
| 25   | LONG KAMLESS GAVPAT GESTAPOALI  | N. T. S. | -      | -        |       | 1          |      | -      | -      |       |
|      | MADIFA MLANKISHDI KAMBEN  | we       | In     | uu       | My    | Mu         | m    | Mu     | Jul    |       |
| -    | SEASONAHA PRATIK BIPIN RANJAN   | MAP      | MAP    | MP       | MP    | NOP        | MP   | MP     | NO     |       |
|      | MARDOLEAR SACHEN DENEAR VALSBALL  | 1        | 1      | -        |       |            |      | -      |        |       |
| _    | MENDAVAT BREETIEN RAVINGRAN   | -        |        | -        | -     |            | -    |        | -      |       |
|      |   | -        | -      | -        | -     | -          | -    | -      |        |       |
| -    | MUNUDKAR ANNET SANIAY SEIAL   | 1111     | m      | m        | M     | m          | m    | mo     | m      | 7 - 1 |
| 18   | NAME AND ADDRESS OF THE PARTY AND ADDRESS OF T | wo       | 1      | 1.11     | 1     |            |      | -      |        |       |
| -    | SHA VISHAL SHASIKANT MERIA  | -        |        | -        | -     | -          | -    | -      | S- 15  |       |
| -    | PACHADERAR ASIESHRUMAR ASIROK   | -        | -      |          | -     | -          | -    | -      |        |       |
| -    | PADYE AKIHAY ARUUN AIMETA   |          | -      | _        | -     | -          |      |        | -      |       |
| -    | PANCHAL JATEN YENDOCUMAR HANSA  | -        |        |          |       |            | -    | -      | -      |       |
| ia.  | FAZACHE SHARAD QUNESH SUNETA  | -        |        |          |       | -          | -    | -      | -      |       |
| 0    | PASHTE POLISA SIRAN KAJAL   |          | -      |          |       | -          |      | _      |        |       |
| -    | PATEL DARREAT BRALCHOREAS   | -        |        |          |       | -          | -    | -      |        |       |
| -    | ATE ORGAN VIIAV BUVARNA   | -        | -      | 2        | 2     | Pour       | 2    | Pine   | Dinel  |       |
|      | PATE PAYAL SENIE SASTA  | - total  | tent   | - Louise | Hours | JOSEP .    | 100  | 1150   | Tettet |       |
| _    | PATE KUSHKEBI KUMAR KAVITA  | -        | -      | -        | -     | -          |      | 1      | -      |       |
|      | PATIL SANGET SCPAN MEMA   | 1        | 1      | 22       | 7     | Four       | From | Ban-   | Bur    |       |
| 7    | PAWAE TALGUNT RANCHANDRA NANDA  | "Thomas" | Street | Lacre    | Down  | PALL       | NP   | John . |        | -     |



| es þ | AWAR PRIVAPEA BRAIRE SUNTER"             |        |      | -     |       |      |     |     |       |   |   |
|------|--|--------|------|-------|-------|------|-----|-----|-------|---|---|
| 10 1 | AWAR AMEL KARDIDAA MEETA                 |        |      |       |       |      | -   |     |       |   |   |
| 11   | MANGEN AND HER THAIRS I SALE             |        |      |       |       |      |     |     |       |   |   |
| 12   | PINPLE TANAY HARENERA HANKTA             |        |      |       |       |      |     |     |       |   |   |
| 53   | PODDANI DIDINA DENKAT BRUBATERI          |        |      |       |       |      |     |     |       |   |   |
| 54   | AND RETRAPHARABIDIANSA                   |        |      |       |       |      |     |     |       |   |   |
| 11   | DATE KALPE MARKENA MARKENT               |        |      |       |       |      |     |     |       |   |   |
| 11.  | SAFECE PRATHEMERABILISM                  |        |      |       |       |      |     |     |       |   |   |
| M    | SATTETS AMAKAN KACITAR PAREN             | -1     | 10   | B     | A     | -17  | #   | 18  | 13    |   |   |
| gh.  | SAMES YORAN BALAKAN WESTHALL             |        |      |       |       | -    |     |     | - Zol |   |   |
| 10   | SAPATE BOST CLUBP DIPAGE                 |        | - 1  |       |       | -    |     |     | 1     |   |   |
| 60   | LATE PARAGRAPHIC ROPALI                  |        |      | -     |       | - 0  |     |     |       |   |   |
| 61   | LOWART PRATTIE SAVINGERA SHALA           |        | 1    | -     |       |      |     |     |       |   |   |
| 61   | LUNGSOFT BERNANN VIRTHER HARRING THEATER | 1      | 1    |       |       | a. 1 |     |     |       |   |   |
| w    | TERPAS BARAGUII SEPERUM ROMA             | (BO    | 180  | Mag   | (Phs  | 1903 | FY  | Pr- | er.   |   |   |
| 64   | TRAVAR ORWITTHURATTA PARVATI             | 1      | 1    | 1 800 | 100   | 40.5 |     |     |       |   |   |
| 45   | SHITHER RAVEATION SERONE                 | -      |      |       |       |      |     |     |       |   |   |
| 84   | THE CHE NOTES AND THE SPECIFIA           |        |      |       | - 7   |      |     |     |       |   |   |
| 67   | DOLUM HOTELIN BANKCHANDRA KOLAN          |        |      |       |       |      |     |     |       |   |   |
| 10   | TANDELAMAY ADIOK ASSIVER                 |        |      |       |       |      | - 3 |     |       |   |   |
| 68   | TANK BARTH BAYCHANDISHALDATA BER         |        |      |       |       |      |     |     |       |   | - |
| TP   | TRAKANE BRAYERS BRUKART SWATS            |        |      |       |       |      |     |     |       |   |   |
| 18   | TRAKARE CRETAKA AKRAYAK BRAKATI          | d Reco |      |       |       |      |     |     |       |   | - |
| X    | CHADRIYAY YEWY DAGER KUMAR               | 1 ans  | Vira | Om    | Marin | A    | p.  | 1.0 | 0     |   |   |
| 73   | VANNALI DIBILIYEZH PRANSANT              | 1      |      | -     |       |      | -   | 7   | 1     |   |   |
| 74   | VAZE ASSISTOSSOCIES HESTA                |        |      |       | 7.00  | - 8  |     |     |       |   |   |
| 18   | VERNANDE PRATTEMESTE PRAKASH             |        |      |       |       |      |     |     |       |   |   |
| 76   | VILENDA SUNSCIA CRINTANIAN               |        |      |       |       |      |     |     |       |   | - |
| y    | STEMPHANAMAN PROME RANDHOMA              | 20     | 20   | ve    | 20    | 20   | A-  | 20  | 20    |   | - |
| 78.  | VADAY AARABH SATISH BROBIA               |        |      |       |       |      |     | -   | 1     |   | - |
| 79   | YADAY PANKAI ILBELIKUUNDRA               |        |      |       |       |      |     |     |       |   | - |
| 10   | HERRAY HITEGHIAZHENCAN MAZHENI           |        |      |       |       |      |     |     |       |   | - |
|      | NO OF STUDENTS PRESENT                   |        |      |       |       |      |     |     |       | - | _ |

| 5r<br>00 | Date   | TOPICS COVERED                    |
|----------|--------|-----------------------------------|
| 1        | 29/3   | Supposes to intallations          |
| 2        | 28/3   | Action intall others              |
| 3        | 28/3   | Turodukan to power fromter        |
| 4        | orlon  | Supply up energy to commence      |
| 5        | 01/04  | Tholoton and portuner             |
| 6        | 01/011 | -Auto reclosered of agingment     |
| 7        | 414    | Introduction to portube believing |
| 1        | 414    | pringles for find circultury      |

SUBJECT INCHARGE



VIVA Institute of Technology, Virar

SUBJECT: Flechen cal Installation B.E. ELECTRICAL (2021-202: SUBJECT INCHARGE: Prop Payeds Mondal.

| u. | Name                              | 1114   | 11/4   | 10 4  | 1574   | 15 4  | 1814    |       |   |      | _ | 1 |
|----|-----------------------------------|--------|--------|-------|--------|-------|---------|-------|---|------|---|---|
| 4  | Time                              | 2:51   | 7130   | 113.0 | 1130   | 3:30  | 1130    |       |   | _    |   | 1 |
| ı. | AMEN GAUTAM MOHAN OBSTRA.         | cold   | WHI!   | all   | 6001   | 684   | Call    |       |   |      |   | I |
| 1  | BACINE NINAD PRASAD PRAPTI        |        | 1      |       |        | 1     | 1       |       |   |      |   | 1 |
| 5  | INGCOASI PRABO PRAKASI BANDANA    |        |        |       |        |       | - 5     |       |   | 0.3  |   | 1 |
| 4  | BHATCHADA ASHISH MAKESH NITA      | BH     | 2      | BA    | EA     | \$4   | 14      |       |   |      |   |   |
| 3  | BEOBL AMERIA DISYANDSHWAR SANCETA |        | -      |       |        |       |         |       |   | 1 3  |   |   |
| 1  | BRUSARA STESS AND HERA            |        |        |       |        |       |         |       |   |      |   |   |
| 1  | CHALINAN AKSHAY SANIAY IAYSHREE   | #      | CIL    | Q1    | EM-    | RS    | an      |       |   |      |   |   |
| 1  | CHAVAN KUTUK AUNY APARKA          | 0-     | 0      | @_    | Q.     | (P)   | Cel     | -     |   |      |   |   |
| 9  | DEJUHAN SANGITA PREM NASAYAN      | 96     | 56     | SI    | el     | SL    | st      |       |   |      |   |   |
| 10 | CAWADE EARLINA GOVING PYOTI       |        | -      |       | - Care |       | 1000    |       |   |      |   |   |
| 18 | GLAVAT HITESH DOESH DIPA          |        |        |       |        | -     |         |       |   |      |   |   |
| 12 | CUTULE ACITY SURVANAST SONAL      | -      | -      |       |        |       |         |       |   |      |   |   |
| B  | GOSAVI SEVASH MANORAR MITALI      |        |        |       |        | = 0   |         |       |   |      |   |   |
| 14 | CLPTIL AVINASHKUMAB SEWALAL       |        |        |       |        |       | - 54    |       |   | 100  |   |   |
| 15 | CLPTA HARRHAL BHULAN PORT         | (51)   | 64     | 640   | (200   | C#    | CSE,    |       |   |      |   | J |
| 35 | GUPTA PRITTI GURUPPIASAD ANTA     | Part   | Tar 11 | Ph1+  | AH     | Para  | Red     | - 4   |   | 3    |   | J |
| 17 | OLPTA RAENDRA BASHSIHT MANTU      | D. F   | D11    | 1000  |        |       |         |       |   |      |   | J |
|    | HERPARA ONLY RANGERIAL            | H      | 14     | 14    | 14     | M     | 24      |       |   | 12.3 |   | J |
| 19 | INDRAY SAMERSHA REAGAN            | (8)    | 8)     | 8     | 89     | 25)   | 3       |       |   |      |   | J |
| 30 | INDEKV SOCHLANE ANUTA             | 000    | 570    | (9)   | 0493   | P297  | 10)     | - 9   |   |      |   | J |
| -  | INSWAL ANDTELMAN NAVALICIPADRE    | 1      | 1.00   |       |        | - V   |         |       |   |      |   | J |
| 21 | KALE PRADEED PRAEASH SUNITA       |        |        |       |        |       |         |       |   |      |   | Ī |
| 77 | XAMPLE SHWETA NARENDRA VANTA      | CK     | SK     | er.   | 20     | DK.   | PK.     |       |   | 1    |   | I |
| 23 | KAPDILE OMKAR VASUDED VANDANA     | 100    |        |       |        |       |         |       |   | 1    |   | ١ |
| 2# |                                   | 18     | EB     | KB    | BB     | KB    | KR      | 8     |   | 8 5  |   | 1 |
| 15 | SCHADAVE SHAKTI SADASHIV          | 10     | PE     | 100   | - //   |       |         |       |   |      |   | Í |
| 26 | ROLEEAR EUSPAL VELAS EARKANA      | -      |        | 1     | 2.3    |       |         |       |   | 1    |   | Í |
| 27 | HUMBHAR VALUEALI BIIALACIANDRA    | -      |        |       |        |       |         |       |   |      |   | 1 |
| 28 | LASE NITESH BRIKAT KUTAN          | -      |        |       |        | - 1   |         |       |   | 5 3  |   | 1 |
| 29 | LOKE KANLESH GARPAT GERTANIALI    | un     | un     | 114   | щ      | LIL   | ш       |       |   |      |   | 1 |
| 39 | MADIYA MEANKISHOR RANBEN          |        | MP     | 10    | MP     | MP    | MAP     |       |   |      |   | 1 |
| 20 | MAKWANA PRATIE BIPTH KANAM        | 179    | 1      | -4    | 1      | 1-4   | 1-0     |       |   |      |   | 1 |
| 22 | MATERIAN SACIES DINEAR VARIBALI   |        |        |       |        | - 0   |         |       | - |      |   | 1 |
| 33 | MUNDAYAT SRIETEH RAYINDRAN        |        |        | -     |        |       |         |       |   |      |   | 1 |
| 34 | MURITURAL ANDREY HANDLY SELAL.    |        |        | 44.4  | 40.0   | ar A  | 41.4    |       |   |      |   | 1 |
|    | NACIONA MICHIE ADEA               | m      | M      | m     | m      | m     | M       |       |   | -    |   | 1 |
| 36 | ORGA VISIDEL SHASIKANT MEESKA     | 7      | -      |       |        |       |         |       | - | -    |   | 1 |
| 37 | PACHAPERAR ATHERREMAN ASHOR       |        |        |       |        |       |         |       |   |      |   | 1 |
| 38 | PADYE AKSHAY ARIKN ASMETA         |        |        |       |        |       |         |       |   |      |   | 1 |
| 10 | PROCHAL PATER VENODICUMAR HANSA   |        |        |       |        |       |         |       |   | -    |   | - |
| _  | PARADID SHARAD GANTER SUNITA      |        |        |       |        |       |         |       | - | -    |   | 1 |
| _  | PASSITI PODIA KERAN KAME          | -      |        |       |        |       |         |       |   | -    |   | 1 |
| -  | PATE DAK HAT HIBLEDGANDRA         | -      |        |       |        |       |         |       |   | -    |   | - |
| 40 | PATEL GARGAR VILLY SLIVARINA      | 200    | retri  |       |        | -     | 0       | _     |   | -    |   | - |
| -  |                                   | they   | (A)    | (phus | Hays   | Fryst | John !  | Dogat |   |      |   | 1 |
| -  | PATE, AUDIENDIN KAMAR KANTA       | -      |        | Sh.   |        | -     | 2.      | 1     |   | -    | _ | - |
| -  |                                   | 36     |        |       |        |       |         |       |   |      |   | 1 |
| 1  | PRIVATE PALOUNE RANCHANDRA NUNDA  | Day w. | From   | tam   | Javas  | From  | Francis |       |   |      | _ | 1 |
| 40 | PEWAL HILA: MARLITI MADRINI       | A      | -/-    | -A-   | A      | A     | NP      |       |   |      |   |   |



| 0   | ANNAR PRIVADERA BIJABELI BURGITA. * |       |       |           |      | - 0          | 1 2   |   |   | $\vdash$      |   |
|-----|-------------------------------------|-------|-------|-----------|------|--------------|-------|---|---|---------------|---|
| 100 | PANYAL BARIA BAYENDRA HEETA         | 0     |       |           |      |              |       |   |   |               | _ |
| 91  | PEAR NEGANT STENDS A JAYSTAGE       |       |       |           |      |              |       | - |   | $\vdash$      | - |
| 52  | PMPLE TAKAN NAKENDRA NAMITA         |       |       |           |      |              |       |   |   | -             | _ |
| 50  | POOLAGE STREET DEVIKAL BRAKATIO     | -     |       |           |      |              |       |   |   |               | _ |
| 54  | RANE NETRA PRAKASH NANDA            |       |       |           |      |              |       |   | - | +             | _ |
| 55  | PAUT KALPE HANGBAR NANASWI          | 100   |       |           |      |              |       |   |   | $\vdash$      | - |
| 56  | EAWOOL FRATHAM PANDIJARDIATH        |       |       |           |      |              |       |   |   | $\rightarrow$ | _ |
| 97  | SATTED ASSAAN KAUSAN NASEN          | #     | #     | 本         | 傘    | B            | -1/2  |   |   | -             | - |
| 18  | DONNE YUGAN BALARAN VICENALI        |       |       | - Hilliam |      | Silver of St | 200   | 7 |   | +             | - |
| 19  | DAPATE KORIT DILESP DIPALES         |       |       |           |      |              |       |   |   | $\vdash$      | - |
| 60  | LASE PARAG RARSH RUPALI             |       | -     |           |      |              |       |   |   | -             | - |
| 51  | IAWANT PRATIS RAYINGRA SHABA        |       | -     |           |      |              |       |   |   | -             | - |
| 62  | IAWANT BORAN VIBITEANATH VINATA     | 9     |       |           |      |              |       |   |   | $\vdash$      | - |
| 63  | IEAWA, HARMESI BINDESH RIMA         | 1435  | HBS . | 183       | 483  | 4535         | 七出5   |   |   | -             | - |
| ы   | SHANVAR CHENTU DRAKATYA PARYATI     |       |       | 100000    |      |              |       |   |   | -             | - |
| 65  | DENSE RAI SATISH SIDDRE             |       |       |           |      |              |       |   |   | +             | - |
| 66  | DENSE RUTE AVKUSH APEKSIA           | -     |       |           |      |              |       |   | - | +             | - |
| 67  | SCLUK HITTERS RAMCHANDRA KIRAN      |       |       |           |      | -            |       |   |   | +             | - |
| G   | FAMILE AWAY ASHDIC ASSISTED         |       |       |           |      |              |       |   |   | -             | - |
| 69  | CANE PARTH BAYCHUNDOBALDAYA BED     | -     | -     |           |      |              |       |   |   | +             | - |
| 70  | THANARE STANTSH SIDSKANT SWATS      |       |       |           |      |              |       |   |   | 1             | - |
| 71  | THINKABE CHETANA NABAYAN BHARATI    |       | 1     | 1         |      |              | 0     |   |   | +             | - |
| 73  | MANUS BERMA VAND VANDERAND          | green | Men   | Vivo      | When | CANL         | Stray | * |   | +             | - |
| 73  | VANBALI DHILLIVESH PRASHANT         |       |       |           |      |              |       |   |   | +             | - |
| 74  | VAZE AURI/TOSH NETIN NEXTA          | -     |       |           |      |              |       |   | - | 1             | - |
| 75  | VEIGEANDE FRATHWESH PRAKASH         |       |       |           |      |              |       |   |   | +             | - |
| 16  | VELDADA EUREBIA CHENTAMAN           |       |       |           | -    |              | - 2   |   | - | -             | - |
| 11  | VISITE ACCIONA PRINCE NATURCA       | A     | 20    | A         | 20   | A            | A     |   |   | +             |   |
| 79  | VADAV AAKASII SATISH SNERA          |       |       |           |      |              |       |   |   | -             | - |
| 79  | YADAV PANKAI SURESHCHANDRA          |       |       |           |      |              |       |   |   | 1             | - |
| 80  | CADHAY RITERI MADRIKAR MADRINI      |       |       |           |      |              |       |   |   | +             | - |

| Sr<br>no | Date | TOPICS COVERED                      |
|----------|------|-------------------------------------|
| 1        | 11 4 | Feeling documentos                  |
| 3        | uly  | IEEE dalashut reding                |
| 3        | 15/4 | manifectoring quidalons and drawing |
| 4        | 1014 | Drawing plan to components          |
| 5        | Isly | Imamial documentails hard over      |
| 6        | 1817 | Conduirn, and sunary session        |
| 7        |      |                                     |
|          |      |                                     |

y mondal SUBJECT INCHARGE



## VIVA INSTITUTE OF TECHNOLOGY

(Affiliated to University of Mumbai; Approved by AICTE & DTE)
Veer Savarkar Marg, Shirgaon, Virar 401303

Department of Electrical Engineering

# CERTIFICATE

This is to certify that,
Mr./Ms. BHARKHADA ASHISH MAHESH
of BE Electrical
has successfully completed value added course on
"Electrical Installation Guides"

organized by

Department of Electrical Engineering

for A.Y. 2021-22 from 22-02-2022 to 18-04-2022.

f. mundal

Course Coordinator

Beso

Head of Department



### **VALUE ADDED COURSE**

| Name of Course:      | Printed Circuit Board(PCB) Designing | Branch:             | Electrical<br>Engineering |
|----------------------|--------------------------------------|---------------------|---------------------------|
| <b>Duration:</b>     | 30 Hours                             | <b>Instructors:</b> | Anojkumar Yadav           |
| Date of              | 22 Feb 2022                          | Date of conclusion: | 13 Apr 2022               |
| <b>Commencement:</b> |                                      |                     | _                         |

|   | Course Outcomes  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| Upon successful completion of the course, the student must be able to |  |  |  |  |  |  |
| CO1   | To understand the requirements of designing a PCB using software.                      |  |  |  |  |  |
| CO2   | To understand various components required for PCB design and their electrical ratings. |  |  |  |  |  |
| CO3   | To use development tools for PCB designing   |  |  |  |  |  |
| CO4   | To understand design standards and flow charts   |  |  |  |  |  |

|                 | Syllabus   |       |
|-----------------|--|-------|
| Uni<br>t<br>No. | Contents   | Hours |
| S OF v≥         | Introduction to PCB designing concepts: Introduction & Brief History: What is PCB, Difference between PWB and PCB, Types of PCBs: Single Sided (Single Layer), Multi-Layer (Double Layer), PCB Materials. Prototyping, eCAD and PCBs, Purpose and Intent, Equipment Computer Circuit Programming and Testing Hardware, PCB Component Hardware, Software, MPLAB X IDE and XC8 Compiler, Understanding the Walkthrough | 6     |

| 2 | Component introduction and their categories:                             | 6 |
|---|--|---|
|   | Types of Components: Active Components, Passive Components               |   |
|   | Component Package Types: Axial lead, Radial Lead, Single Inline          |   |
|   | Package(SIP), Dual Inline Package(DIP), Transistor Outline(TO), Pin Grid |   |
|   | Array(PGA), MetalElectrode Face(MELF), Leadless Chip Carrier (LCC),      |   |
|   | Small Outline Integrated Circuit(SOIC), Quad Flat Pack(QPF) and Thin     |   |
|   | QFP (TQFP), Ball Grid Array (BGA), Plastic Leaded Chip Carrier(PLCC)     |   |
| 3 | Introduction to Development Tools:                                       | 6 |
|   | Introduction to PCB Design using OrCAD tool, Introduction to PCB         |   |
|   | Design using PROTEUS tool  |   |
| 4 | Detailed description and practical of PCB designing                      | 6 |



|   | PCB Designing Flow Chart, Description of PCB Layers, Keywords & TheirDescription, PCB Materials, Rules for Track, Study of IPC Standards  |   |
|---|---|---|
| 5 | Lab practice and designing concepts: Starting the PCB designing, Auto routing, PCB Designing Practice, Post Designing& PCB Fabrication Process, Testing and Troubleshooting Methods | 6 |

|     | Learning Resources  |
|-----|---|
| Tex | xt Books:   |
|     | 1. Kraig Mitzner, "Complete PCB Design Using OrCad Capture and Layout", 2011  |
| Ref | ference Books:  |
|     | <ol> <li>"PCB Design for Real-World EMI Control (The Springer International Series in Engineering and Computer Science)" by James Drewniak and Bruce R Archambeault.</li> <li>"PCB Design: Printed Circuit Board" by Michael Dsouza and Dsouza Michael</li> </ol> |



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| L  | BJECT INCHARGE: P           | 20/2      | 93/2      | 25/2     | 25 2    | 25/2    | 4/3     | 413                                  | 4/3    | P    | C   | T |
|----|-----------------------------|-----------|-----------|----------|---------|---------|---------|--------------------------------------|--------|------|-----|---|
| 0. | Time                        | 3:50      | 3:30      | 1:30     | 2:30    | ALL.    | 1150    | 2:50                                 | 3:50   | 7    | *   |   |
|    | AMBAT SABAR SANTOSH         | Mu        | Attr      | 41       | A       | Alu     | AIN     | All                                  | Agh.   | 0    | 7   | 7 |
| 2  | BANGAR HRUSHIKESH MANGESH   | Book      | Boute     | BAY      | Borr    | Bruy    | A       | Bur                                  | A      | 0    | 6   | 6 |
| 3  | BAROT SHYAM GOVIND          | S G Bon   | Caron     | S G. Box | -6.6150 | 5.4 BM  | 4       | 56 Bon                               | Salv   | 0    | 7   | 7 |
| 4  | BRAGAT AALEKH DADAN         | March     | Blu       | Bhu      | Bhu     | A       | Bhoy    | Bhu                                  | Bhel   | 0    | 7   | 7 |
| 5  | DEKKER JANHAVE ASHOK        |           |           |          | 100     |         | 34040   |                                      | 2 - 10 |      | Ų,  | ÷ |
|    | BIND JITENDRA MOTILAL       |           |           |          |         |         |         |                                      |        |      |     |   |
| 1  | BOLKE ROHAN RAMESH          | RREL      | RKBU      | A        | RAR     | RAGO    | A       | RREL                                 | RREGIA | 0    | 6   | 6 |
| 8  | CHAUDISARI VIGHNESH SANDESH | A         | CVS       | as       | CVS     | as      | CVS     | as                                   | 05     | 0    | 7   | - |
| 9  | CHAVAN ROSHAN SHIVAJI       |           |           |          |         | 70      |         | 17.                                  | 2      |      |     |   |
| 10 | DAUDA AADESH JANA           | Aledah    | Alik      | Algor    | AGOW    | Alba    | Aladan  | Afda                                 | Aldon  | 6    | 8   | 8 |
| 11 | DHODARE NIVID SURENDRA      |           |           | 1123     |         | 0       |         |                                      |        |      |     | - |
| 12 | FATNAIK ASHISH UDAY         | Alufo     | Aura      | A        |         | HAUF    | M       | Aufal                                | Anto   |      | 6   | 6 |
| Ð  | GADHARI VEDANT SHARAD       | VSGa      | 1/56      | V34-     | VSG     | VSG     | A       | Vegu                                 | A      | 0    | 6   | 6 |
| 14 | GANVE ALANKAR GOVIND        | Contract. | - TE 1200 |          |         |         | 100     |                                      |        | 31   |     | - |
| 15 | CHORPADE RUSHIKESH R        |           |           |          |         |         |         |                                      | 0 1    |      |     | - |
| 36 | COHEL DHRUV ATUL            | DA Gel    | DAGeh     | Dolah    | A       | Datoh   |         | Name and Address of the Owner, where |        | 100  | 7   | 7 |
| 19 | GUPTA SUMIT SURAIDON        | 534       | A         | SS4      | 1       | A       | 584     | SSG.                                 | 956    | 0    | 5   | 5 |
| 11 | GURCDA KUNAL KRISHNA        | T         | 1         | 374      | _       |         |         | -                                    |        |      | _   |   |
| 19 | JADHAV AAKASII KISHOR       | James     | - Jook    | lagh     | A       | Joohn   | Jalla   | Jachr                                | Jadru  | 0    | 7   | 7 |
| 20 | JADHAV ROKAN EKNATH         |           | -         |          |         |         |         |                                      |        |      |     |   |
| 21 | JANATHE HARESH LAXMAN       |           |           |          |         | 1- 1-   | 11.     |                                      | 111    |      | _   |   |
| 23 | KADAM KUNAL KISHOR          | KKleh     | KI Kada   | KKtor    | KKKM    | FK bork | KIK Kod | KKKal                                | FLAN   | 0    | 8   | 8 |
| 20 | KADAM NIKHE YUAY            | 4         | NVK       | A        | NVK     | NVK     | A       | NVIS                                 | NVE    | 0    | 5   | 5 |
| 24 | KAMBLE NATH ANAND           |           | 7         | 11       |         |         | vi      | 11                                   | M.     | 7.27 |     | - |
| 25 | KAKWANDE VIVEK ANL          | VAKON     | 14        | VAKE     | ~Vat    | ~A      | VAKIN   | Valen                                | VAKEN  | 0    | 06  | 6 |
| 26 | KESARKAR ROHAN H            | -         |           |          |         |         |         |                                      | (C)    |      |     |   |
| 21 | KUSHWANA SUNNY JAYPRAKASH   |           |           | 801      | - A     | 00      |         | Dat A                                | Anal L | _    | 200 | - |
| 28 | LATE DEEP DEEP              | M) Lite   | A         | DDIA     | - A     | DOLL    | A       | 110 hat                              | Oplak  | 0    | 05  | 5 |
| 25 | MACHEL AMOL JAYHIND         |           | 17        |          |         |         |         |                                      |        |      |     |   |
| H  | MAHADIK SHREEKISINA P       |           |           |          |         |         |         |                                      |        |      |     |   |
| 31 | MAHALA KILESH VASANT        | 1         |           |          | 1.      | 1       |         |                                      | 41 1.4 |      | -   | - |
| 32 | MALI MITESH VIKAS           | Palif     | Malo      | Moun     | Mart    | Mary    | Makin   | A                                    | Makit  | 0    | 1   | 7 |
| 33 | MESTRY VEDANG PRAVIN        |           |           |          |         |         |         |                                      |        |      |     |   |
| 34 | MHATRE PRASHANT MANGE       |           |           |          |         |         |         |                                      |        |      |     |   |
| 35 | NAIK AAKASIEJITENDRA        |           |           |          |         |         |         |                                      |        |      |     |   |
| 36 | SAZIDHARI ANSH DOLF         |           |           |          |         |         |         |                                      |        |      | 1   | - |

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|----------------------------|-------|------|------|-------|--------|--------|---------|----------|---------|----|----|----|
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| PASHTE SNIHAL SUBHASH      | SAANL | 1    | S    | PPA)  | )Par   | Spin   | ffeet   | A france | Frank   | 0  | -  | -  |
| PATEL ADNAN NISAR          | 1     |      | 1    | '     |        | 1      |         |          |         | -  |    |    |
| PATEL JAY DELP             |       |      |      | -     |        |        |         |          |         |    |    |    |
| PATHARE MAYUR CHETAN       |       |      | -    | 0 1   | 0      | 0      | Per     | Danie    | Ropul   | 0  | I  | 7  |
| PATIL BHAGYASHRI PRABRAKAI | BPP   | P    | 1    | Sprah | Report | Defin  | Dit     | OFF      | 4       |    | 7  | 1  |
| PATIL HANDIK PADMAKAR      | .,    |      | -    | 41    | ,      |        |         |          |         |    |    | -  |
| PATIL PRASAD RAKEV         |       | 1    |      |       |        |        |         |          |         |    |    |    |
| PATIL SHRADOHA KAILAS      |       |      |      |       | _      | -      | -       |          |         |    |    |    |
| RAUT VASH KISHOR           |       | -    |      |       |        |        |         |          |         |    |    | -  |
| KEWALE JAY PRAVIN          |       | 1    |      |       |        |        |         |          |         | _  |    |    |
| SAROJ RAJ PRADEEP          |       |      |      | 0     | 71.    | Con    | Car     | 1        | SSSM    | 0  | 7  | 7  |
| SAWANT SECONESH KERAN      | SSsa  | m 5  | SPOR | SSGAN | SSgan  | Sister | Ssew    | 1        | 0.35/10 |    | 1  | 7  |
| SHAKULUMER ISHAQUE         |       | -    |      |       |        |        | -       |          |         |    |    |    |
| 52 SHUKLA HARSH RAJESH     |       |      |      | A W   | 4      | 0 1    | 1       | 0. 11    | Smh     | NA | 5  | <  |
| 53 SINGH DINKAR RAJESH     | Siw   | 4    | A    | Sive) | 1      | Dist   | 1/+     | Smill    | y simin | 10 | ŕ  | F  |
| SCILANKI SAHIL TRIKAM      |       | ١,   |      | 1     | A      | No.    | 1 11.00 | Ala      | Asm     | 0  | 8  | 8  |
| 33 SONAR ANIKET PRAKASH    | ASS   | an l | ggw. | 43800 | HISA   | N-1550 | Asia    | MENT     | A Pyre  | -  | 10 | Ť  |
| 56 SURVE ROUT RAJENDRA     |       | 1    |      |       | -      | -      | -       |          |         |    | -  | +  |
| TAMORE RHUSIOKESIS P       |       | -    | _    |       |        | -      | -       |          |         |    | +  | +  |
| 58 VANASE ROHAN TANAJI     |       | -    | ,    | N 1   | 1      | 11.500 | 1       | VIVO     | II.O.   | 0  | 5  | 15 |
| 59 VARMA VIRENDRA RANDEV   | - VV  | ACN  | 1    | Me    | u A    | WO     | 04-/4   | V Y P    | W WAR   |    | 1  | Ĭ  |
| NO OF STUDENTS PRESEN      |       |      |      |       |        |        |         |          |         |    |    | L  |

| Se   | Date | TOPIC COVERED                      |
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| ma . | 22/2 | Introduction to course and history |
| 2    |      | Ture or PUB protosing              |
| -    | 23/2 | Programing and handware,           |
| 1    | 25/2 | TEB componen How and son           |
| 4    | 15/2 | MPLAB X TOE                        |
| 5    |      | walktrough                         |
| 6    | 43   |                                    |
| 7    | 413  | touponent parkage types            |
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| 1  | BJECT INCHARGE: PI   | 20/3    | 25 5   | 153     | 05/3   | 21/3  | 20/7   | 1/4     | 1/4    | P  | C | T   |
|----|--|---------|--------|---------|--------|-------|--------|---------|--------|----|---|-----|
|    | Time   | 3:30    | 1130   | 1130    | 1130   | 3:50  | 2.30   | 1:30    | 1.50   |    |   |     |
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|    | SWEST STATE OF THE SECOND  | Dam.    | Dank.  | RMs.    | Borr   | A     | Roll   | Pom     | Silv   | 12 | 7 | 19  |
|    | BANGAR HRUSHKESH MANGESH   | SGB     | H A    | A       | Saga   | A     | SGBA   | Salm    | AGR    | 14 | 5 | 19  |
|    | BAROT SHYAM GOVIND   | A       | Bhill  | Bhu     | Bhu    | Rher  | Blue   | Bhay    | Blue   | 14 | 7 | 21  |
| 0  | BIENGAT AALEKS DADAN   | 1       | CA Mad | Divido  | 110100 | 100   | 0      | - 1     | /      |    | , |     |
|    | BHOIR IANBAVI ASHOK  | /1      |        |         |        |       |        |         |        |    |   |     |
| ,  | WIND JITENDRA MOTILAL  | BBB     | Oln    | A       | Other  | A     | QAR    | A       | RID D. | 12 | 5 | 17  |
|    | BOLKE ROHAN RAMESH   | 1       | 2      | at      | A Vo   | CIL   | CV     | CVS     | ENS,   | 14 | 7 | 21  |
| 0  | CHAUDHARI VICHNESH SANDESH   | (V)     | ( )    |         | /      |       |        |         |        |    |   |     |
| 10 | CHAVAN ROSRAN SHIVAJI  | Allo    | Ann    | Lan     | A      | A     | AND    | ALL     | A      | 14 | 5 | 19  |
|    | DAVIDA APRICANT ANTA   | A110    | MAIN   | KI WU   | 1      | -     | n ma   | Z IMPLY |        |    |   |     |
|    | DESCRIPTION DUNCTIONS  | Act     | 151    | 1501    | AEI    | 4     | Arak   | A       | AFON   | 13 | 6 | 19  |
| 12 | Thirteen remain curry  | Atab    | Mar    | 1 Klen  | Vosu   | 1     | Vegen  | X       | Can    | 14 | 5 | 19  |
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| 14 | UNIVE RESENT NO THE  |         |        |         |        |       |        |         |        |    |   | -   |
| 13 | GIIOTO SOLE HOMANOGO I II  | Bac     | Dec    | MAG     | Dack   | Oda   | Dura   | Macde   | DAGOS  | 13 | 8 | 21  |
| 11 | UCHE DINO V ALVE   | CCI     | Ch     | JHC     | 584    | A     | V VIII | COL     | Seg    | 10 | 5 | 15  |
| 17 | GUPTA SUMIT SURAIDON   | S'SGA   | 024    | 17      | 209    | -     | H      | 234     | 2,00   | 10 | _ | 1   |
| -  | GURODA KUNAL KRISHNA   | Tale    | 14     | 12/     | Toda   | Tade  | Tack   | Toda    | Tach   | 14 | 7 | 21  |
| 11 | IADHAY AAKASH KISHKR   | Josh    | 10     | Jach    | Jaan   | Juen  | Jaco   | Juda    | Piers  | -  | 7 | -   |
| 30 | DADHAY ROHAN EKNATH  |         |        |         |        |       |        |         |        |    |   |     |
| 20 | JANATHE HARESH LAXMAN  | EU L    | 1 1    | Toka    | 4      | WV.   | VUL    | 146     | YVV.   | 16 | 6 | 22  |
| 2  | KADAM KUNAL KISHOR   | 12/1/2  | 1      | 194     | ahu.   | HILL  | ALLE   | NVV.    | NVran  | 10 | 7 | 19  |
| 2  | KADAM NIKIEL YUNY  | MAY     | 1      | MAK     | VIVEA  | NVA   | NVE    | 11111   | MAKEN  | 1- | - | 1.1 |
| 2  | KAMBLE NATH ANAND  |         | -      |         |        |       |        |         |        | -  |   |     |
| 2  | KARWANDE VIVEK ANEL  |         | -      |         |        |       |        |         |        |    |   |     |
| 3  | The second secon | -       |        |         |        |       |        |         |        |    |   |     |
| 1  | KUSHWARA SUNNY JAYPRAKASH  | an      | 1      | Mo      | N .    | not   | ODlut  | Mu      | fin .  | 12 | 1 | 18  |
| 3  | LATE DEEP DOLP   | Dila    | 1      | Million | A      | VIVE  | Min    | Chlor   | VIII   | 14 | 6 | 10  |
| 2  | MACHHI AMOL JAYHEND  |         | -      |         |        |       |        |         |        |    |   |     |
| 3  | MAHADIK SHREEKRISHNA P   |         |        |         |        |       |        |         |        |    |   |     |
| 3  | MAHALA NILESH VASANT   | W       | 1      | MA      | Mah    | Da D. | - 21   | M. C.   | 1      | 10 | - | 1-7 |
| 3  | MALIMITESH VIKAS   | Mach    | A      | MAKA    | man    | Har   | H      | Mehi    | 1      | 12 | > | 17  |
| 3  | MESTRY VEDANG PRAVIN   | 1111111 |        |         |        |       |        |         |        |    | - | -   |
| 3  | MHATRE PRASHANT MANOJ  |         |        |         |        |       |        |         |        |    | - | -   |
| 1  | NAIK AAKASHJITENDRA  |         |        |         |        |       |        |         |        |    |   | -   |

| PAN | COUNT DHRUV ASHOR         | Dy | par   | Ľ  | 19-1  | ) sper | DAG  | 1  | April | AL     | Japan | men    | 11  | 6   | 17  |
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| PAR | AB HRITIK ATMARAM         |    |       |    | 1     | ,      | 1    | _  | -     | 1      | 00.   | -      | _   | 7   | 18  |
| PAS | HEE SNEMAL SUBHASH        | 54 | Acun  | 9  | pour  | Sferr  | Spr. | 5  | par   | A      | MM    | A      | 12  | 6   | 10  |
| 1   | TIL ADNAN NISAR           | 1  | 1     |    | "     | ,      | No.  | 1  | 0     |        |       |        | -   | -   |     |
| PAT | TEL JAY DUAP              | T  |       |    |       |        |      | L  |       | _      |       |        | _   |     |     |
| FA  | THARE MAYUR CHETAN        | T  |       |    |       |        |      | L  |       |        |       | -      |     | _   | 10  |
| +   | TIL BHAG YASORI MIABHAKAR | Pa | pat   |    | A     | Bopu   | BERN | 1  | part  | A      | popur | A      | 13  | 5   | 18  |
|     | TIL HARDIK PADMAKAR       |    | 1     |    | -     | 11     | 11   | -  | 10    |        | 1.    |        |     | _   |     |
|     | CTIL PRASAD RAJEEV        | T  |       | T  |       |        |      |    |       |        |       |        |     | _   |     |
|     | ATUL SHRADDHA KALAS       |    |       | 1  |       |        |      |    |       |        |       |        |     |     |     |
| -   | AUT YASH KISHOR           | T  |       | T  |       |        |      | 1  |       |        |       |        | _   | _   | -   |
|     | EWALE IAT PRAYER          | 1  |       | T  |       | Mi.    |      |    |       |        |       | -      | _   | _   | -   |
|     | AZOLIKAJ PRADEEP          |    |       | T  |       |        |      |    |       |        | -14   | 714    | _   | -   | 19  |
|     | AWANT SIDDHESH KIRAN      | 1  | Ssa   | 4  | SSSgN | SSSa   | 1950 | MS | M Sar | A      | SSan  | SSSam  | 12  | 7   | 119 |
|     | SHATKH UMER ISHAQUE       | 1  |       | 1  |       | 100    |      |    |       | 100    |       |        | _   | -   | ⊢   |
|     | SMUSCLA HARSH RAJESH      |    |       | A  | ,     |        |      |    | . 1   |        |       | 10 1/1 |     | -   | 100 |
|     | SINGH DINICAR RAJESH      |    | shapp | Ü  | Smyl  | DSMA   | A    | K  | Shall | Stroll | A     | Singh  | II. | 6   | 17  |
| 4.1 | SOLANKI SAHIL TRIKAM      |    | V     | 1  | . '   | 1      |      |    |       |        | -     |        |     | -   | 1   |
| 55  | SONAR ANIKET PRAKASH      |    | Asse  | an | ALSO  | w A    | ASS  | n  | A     | Alson  | ASSI  | A      | 12  | 5   | 1   |
| 56  | SURVE ROUT RAISHURA       |    |       |    |       |        |      |    |       |        |       |        | -   | -   | +   |
| 57  | TAMORE RHUSHIKESH P       |    | 1     |    |       | 1      |      |    |       |        |       |        | -   | -   | +   |
| 58  | VANAKE BOHAN TANAJI       |    | -     |    | Ser   | 1      |      |    |       | 110    | 10775 | -      | 111 | 100 | 1   |
| 10  | VARMA VIKENDRA RAMDEV     | -  | 116   |    | MAR   | al A   | IVV  | h  | A     | Walm   | uWka  | 1 A    | 11/ | 0   | 16  |

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| 1  | 93 3 | Julie & outer garbores |
| 2  | 25/3 | PORA MELF LLC          |
| 3  | 2012 | quall orders Ils       |
| 4  | vr/3 | OPF TOFP PUL           |
| 5  | 2413 | Levelopement tools     |
| 6  | 3013 | CAD foots              |
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|    | 119  | The 2                  |

Prof. Anojkumar yadav.



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SUBJECT: PCB design Aprilamo yadow S.E. ELECTRICAL (2021-2022) 8/3 11/3 9/2 7:30 1130 3:30 2:30 Time 1.30 14 AN AMBAT SADAR SANTONI BANGAR HRUSHIKESH MANGESH SOBONSOBOSTANSGBOOGRA SGB SuBa BAROT SHYAM GOVIND DHAGAT AALEKH DADAN BHOR JANHAVI ASBOK IND JITENDRA MOTILAL 12 BOLKE ROHAN RAMESH 14 CHAUDHARI VIGHNESH SANDESH CHAVAN BOSBAN SHIVAJI 4 DALIDA AADESII JANA DHODARE NIVID SUBENDRA 冯 (t3.) Fate Afah Afah Afah Afah Afah Afah Afah FATNAIK ASHESH UDAY GADHARI VEDANT SHARAD 14 GANVE ALANKAR GOVIND 12 GHORPADE RUSHIKESIER 13 DAGGOLD AGON 6 Daten DA Gon Dation Da from A 16 GOHIL DHRUV ATUL SSG BSG. SSW SSG 10 GUPTA SUMIT SURAJDON GURODA KUNAL KRISHNA JADHAV AAKASH KISHOR JADHAV ROHAN EKNATH IANATHE HARESH LAXMAN Kleen KKAN KKKN KKKN KKKN KKKN KKKN 22 KADAM KUNAL KISHOR NYKON NYKON VKONYKONYKONYKO 23 KADAM NIKHIL VUAY 24 CAMBLE NATH ARAND 25 KARWANDE VIVEK ANIL 26 KESAKKAR ROHAN H 21 CUSHWAHA SUNNY JAYPRAKASH 28 ATE DEEP DILIP 29 MACRIEI AMOL JAYHIND MAHADIK SHREEKRISHNA P WAHALA NILESH VASANT 31 Malu Mali Mat 32 VALUMITESH VIKAS 33 VESTRY VEDANG PRAYIN VEGATRE PRASHANT MANOJ NAIK AAKASH JITENDRA T ESSCHARE AMSHDILIP

At: Shirgaon Post: Virar,

|   |        |        |       |       |        |         |        |   | P  | C | T  |
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| SAULU SAU FRAULES                                 | SSG    | SSS    | n A   | SSav  | SSSan  | 1. A    | A      | SSSan                                   | 7  | 5 | 12 |
| 50 SAWANT SIDDHESH KIRAN                          | 3350   | AL COM | 4     |       |        | 177     |        |   |    |   |    |
| 31 SHAIKH UMER ISHAQUE                            | -      |        |       |       | 12     |         | M      |   |    |   |    |
| 52 SHUKLA HARSH RAJESH                            | Smith  | Chal   | Agral | (Sml) | (Sond) | A       | Single | A                                       | 5  | 6 | D  |
| 53 SINGH DINKAR RAJESH                            | Diving | Dira   | 1000  | 71.0  | 2.17   | 1       |        |   | 1  |   |    |
| SCEANCE SAHEL TREKAM                              | A25    | n. 188 | andre | A     | 190    | ARGEN   | A      | A                                       | 8  | 4 | 10 |
| 55 SONAR ANKET PRAKASH                            | Hali   | 11/100 | 7133  | 1     | 100    | 1       | 1      |   |    | 1 |    |
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| 53 TAMORE RHUSHIKESH P                            | -      | -      |       | 0     |        |         |        | 1                                       |    |   |    |
| SE VANARE BOHAN TANAJI                            | WA     | . 1    | ViB   | - MO. | . 4    | MADA    | MAD.   | VRay                                    | 15 | 6 | (1 |
| 39 VARMA VIRENDRA RAMDEV                          | V V V  | G A    | VVCO  | VIX   | 1      | 1.40-4  | 1      | 1                                       |    |   |    |
| NO OF STUDENTS PRESENT                            |        |        |       |       |        |         |        |   |    |   |    |
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Anojkumar yadav.



VIVA Institute of Technology, Virar

| t  | Name                       | 1/4          | 1/4        | 514    | 014  | 414   | 1214  | Ista  | 1314   | P        | C        | T    |
|----|----------------------------|--------------|------------|--------|------|-------|-------|-------|--------|----------|----------|------|
| 0. | Time                       | 2:30         | 1.20       | 2.430  | 2:30 | 2150  | 1:30  | \$150 | 3130   |          |          |      |
| 1  | AMBAT SAGAR SANTOSH        | Am           | 4          | AAM    | Am   | A     | Am    | AAN   | .1     | 20       | 5        | 25   |
| 2  | BANGAR HRUSHIKESH MANGESH  | A            | Bhu        | Rom    | Bon  | A     | 1     | Bh    | 1      | 19       | 4        | 23   |
| 1  | BAROT SHYAM GOVIND         | 14           | Salm       | A      | 5GB  | SGB   | A     | Sigh  | Sten   | 19       | 5        | 24   |
| 4  | BRIAGAT AALEKE DADAN       | 14           | Bhad       | Bhat   | Rhut | Bhay  | Bhu   | Phu   | 1      | 21       | 6        | 27   |
| 8  | BHOIR JANHAVI ASHOK        |              |            | V      | 7    |       |       | 0     |        |          |          |      |
| 6  | DIND JITENDRA MOTILAL      |              |            | Oy v   | 0.4  |       |       | -     | 01     | 100      |          |      |
| 7. | BOLKE BOHAN RAMESH         | ARB          | RABI       | RRIDA  | KKAL | A     | KKQ.  | KK12  | Kin    | 17       | 7        | 24   |
| 8  | CHAUDHARI VIGHNESH SANDESH | A            | NS         | A      | CVS  | 1     | OB    | 4     | CVS    | 21       | 4        | 25   |
| 9  | CHAYAN ROSHAN SHIYAJI      | 1 4          |            |        |      |       | 4-0   |       | 4      | 1-       |          | 20   |
| 10 | DAUDA AADESHJANA           | Ath          | A          | AHA    | 1    | AAH   | JAHA  | AM    | AAGA   | 19       | 6        | 25   |
| 11 | DHODARE NIVED SURENDRA     | 0.00         |            |        |      |       | , ,   |       |        | 1.0      |          | 2.07 |
| 12 | FATNAK ASRISH UDAY         | AFRI         | A          | A      | AFal | A     | AFOR  | A     | Afrat  | 19       | 4        | 2.5  |
| 13 | GADIKARI VEDANT SHARAD     | Man          | NA.        | VSG    | NSG4 | VGr   | A     | 150   | VSr    | 19       | 6        | 25   |
| 14 | GANVE ALANKAR GOVINO       |              | (2)        |        | 1    |       | 1     |       |        |          |          |      |
| 15 | GHORPADE RUSHIKESH R       |              |            |        | 0. 7 |       |       | 0     | 100    |          | 20       | ~ ^  |
| 10 | GORIE, DHRUV ATUL          | MAK-OU       | A          | 1      | DAGO | A     | 1/Aga | DAEN  | VAJO.  | 21       | 5        | 26   |
| 17 | GUPTA SUMIT SURADON , /    | 836          | 554        | A      | 27.9 | 4     | 222   | A     | 270    | 15       | 5        | 20   |
| 18 | GURODA KUNAL KRISHNA       | -            |            |        |      |       |       |       | 1      | A 1      | ,        | 00   |
| 19 | JADRAY AAKASH KISHOR       | lach         | +          | bah    | A    | Joeth | A     | 1     | Joeler | 4        | 4        | 25   |
| 20 | JACHAY ROHAN EKNATH        | ۲:           |            |        |      |       |       | -     | 7      |          |          | _    |
| 21 | JANATHE HARESH LAXMAN      | 1,11         |            | 12/21/ |      | (A)   | vot.  |       | 1001   | 200      | ,        | 0.7  |
| 22 | KADAM KUNAL KISHOR         | KKK          | A          | KKK    | A    | 4     | HK    | 13/4  | FFE    | 122      | Ä        | 16   |
| 23 | KADAM NIKHIL VIJAY         | A            | NVK A      | MIK    | A    | MYKA  | NA    | MA    | INVIA  | 19       | 6        | 25   |
| 24 | EAMBLE NATH ANAND          |              |            |        | -    |       |       |       |        | -        | -        | -    |
| 25 | KARWANDE VIVEK ANIL        |              |            |        |      |       |       |       |        | $\vdash$ | -        | -    |
| 26 | KESARKAR ROHAN H           |              |            |        |      |       | -     | -     |        | -        | -        | -    |
| 27 | KUSHWAHA SUNNY JAYFRAKASH  |              | Cont       |        | Acr  |       | 1000  | and   | nnt    | -        | -        |      |
| 28 | LATE DEEP DILIP            | 1            | DDL        | 1      | Mh   | A     | 11116 | 11/16 | JUL    | 18       | 15       | 2    |
| 29 | MACHHI AMOL JAYHIND        | 15           |            |        |      |       |       | 1     | -      | -        | -        | 1    |
| 30 | MAHADIK SHREEKRISHNA P     |              |            |        | -    |       |       |       | -      | -        | $\vdash$ | -    |
| 31 | MARALA NILESH VASANT       |              | 1.1        |        | 1    | 1     |       | 1     |        | +        | -        | 1    |
| 32 | MALI MITESH VIKAS          | Mah          | Mah        | 1      | Mah  | Mal   | N A   | Mal   | i A    | 17       | 3        | 12   |
| 33 | MESTRY VEDANG PRAVIN       | O O O DE SEL | ESLA (SVA) |        | 1    |       |       |       |        |          | 1        |      |
| 34 | METATRE PRASHANT MANOI     |              |            |        |      |       |       |       |        |          |          |      |
| 35 | NAK AAKASH MISNURA         |              |            |        |      |       |       |       |        |          |          |      |

| Low    |                            | Duan    | A     | DADA    | A      | DAR   | A      | )APU   | DAP    | 17  | 4        | 21       |
|--------|----------------------------|---------|-------|---------|--------|-------|--------|--------|--------|-----|----------|----------|
| +      | NCHAL DHRUV ASHOK          | -11     | 13.00 |         | -40    | 45    | -0-34  | wh.    |        | 10  | -        | 21       |
| +      | RABHRITIK ATMAKAM          | Mul     | allal | SSPORT  | Sigh   | SSAM  | A      | Sp     | 1      | 18  | 6        | 24       |
| PA     | SHITE SMERKAL SCHILLASH    | 7       | 7     | 1       |        | 1     |        | 1      |        |     | $\dashv$ | _        |
| D.A    | TEL ADNAN NISAR            | -       |       |         | 150000 | 1     |        |        |        |     |          |          |
| PA     | CTEL IAY DILIP             | -       | 10    |         | 1      |       |        |        | W. cz. |     |          |          |
| 2 19   | ATHARE MAYUR CHETAN        | 0 0     | N     | 10 - 1  | Row    | Karl  | Ropul  | A      | Bow    | 18  | 7        | 25       |
| (3 m   | ATIL BEINGYASIRI PRABHAKAR | Beplan  | Bpr   | Bon     | Birn   | Du.   | till m | -      | 11     |     | 1        |          |
| 11 ,   | ATTE HARDIN PADAGAKAR      |         |       | 1       | -      | 1,105 |        |        |        |     |          |          |
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| 0.0    | LAUT YASH KISHOR           |         |       |         | -      | -     | -      |        |        |     |          |          |
|        | REWALE IAY PRAVIN          |         |       |         | -      | -     |        |        | -      |     |          | $\vdash$ |
|        | SAROJ RAJ PRADEEP          |         |       |         | -      | 1001  |        | reti   | 4      | 19  | 6        | 25       |
|        | SAWANT SIDDRESH KIRAN      | 88/4    | JSKS  | u Ska   | 3%     | Sky   | 1      | 2022   | 4/1    | 1   | 0        | -        |
| 77     | SHAIKH UMER ISRAQUE        | 1.      |       |         | 1      |       | -      |        | -      | -   |          |          |
| 7.0    | SHUKLA KARSHRAJESH         |         |       |         | ho A   | 1     | 100    | AC P   | 101    | 17  | 8        | 2        |
| 53     | SINGH DINKAR RATISM        | Str     | MR K  | Small   | WXW    | Svy   | Story  | 1 Siny | South  | 4-  | 0        | 100      |
| 54     | SOLANKI SAHIL TRICAM       | 17      |       | Last    |        | 1000  | 1/285  | 100    | - 1    | 17  | 6        | 7        |
| 55     | SONAR ANKET PRAKASH        | A       | AP    | SU AND  | n Ho   | ARV   | MAKED  | 18/10  | a/+    | 17  | 4        | +        |
| 16     | SURVERDITT RATINDRA        |         |       |         |        |       | 1      | -      | -      | +   | +        | +        |
| 57     |                            | 1       | 1     |         |        |       |        | -      | -      | +   | +        | +        |
| 9      | TAMORE REJUSHIKESH 7       | T Ulios |       | - 1,000 |        | 111   | 1100   | -      | KAN.   | 16  | 报        | 1        |
| - 100  | VANARE ROBLET LIBERTS      | M       | m A   | 1////   | A A    | - WA  | N/W    | W A    | MAK    | U/D | 10       | +        |
| F      | VARMA VIRENDRA RANDEV      | 1.4     |       | 100     |        |       |        | -      | -      | +   | +        | +        |
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Pool. Anojkumar yadav



# VIVA INSTITUTE OF TECHNOLOGY

(Affiliated to University of Mumbai; Approved by AICTE & DTE)

Veer Savarkar Marg, Shirgaon, Vitar 401303

Department of Electrical Engineering

# CERTIFICATE

This is to certify that,
Mr./Ms. <u>Dauda Aadesh Jana</u>
of class SE Electrical
has successfully completed value added course on
"Printed Circuit Board Design"
organized by

Department of Electrical Engineering for A.Y. 2021-22 from 22<sup>nd</sup> Feb 2022 to 13<sup>th</sup> Apr 2022.

Prof Anoikumar Yadav

Course Coordinator

5880

Prof. Bhushan Save Head of Department



### **VALUE ADDED COURSE (Online)**

| Name of Course:              | Electrical Safety Practices | Branch:             | Electrical Engineering |
|------------------------------|-----------------------------|---------------------|------------------------|
| <b>Duration:</b>             | 30 Hours                    | Coordinator:        | Prof. Mukesh Mishra    |
| Date of<br>Commencemen<br>t: | 22 Feb 2022                 | Date of Conclusion: | 19 Apr 2022            |

|         | Course Outcomes   |  |  |  |  |  |  |  |  |  |
|---------|---|--|--|--|--|--|--|--|--|--|
| Upon su | Upon successful completion of the course, the student must be able to   |  |  |  |  |  |  |  |  |  |
| CO1     | Understand the Indian power sector organization and Electricity rules, electrical safety inresidential, commercial, agriculture, hazardous areas and use of fire extinguishers. |  |  |  |  |  |  |  |  |  |
| CO2     | Outline the electrical safety during installation, testing, and commissioning procedures.   |  |  |  |  |  |  |  |  |  |
| CO3     | Make use of specifications of electrical plants and classification of safety equipment forvarious hazardous locations.  |  |  |  |  |  |  |  |  |  |
| CO4     | Distinguish various fire extinguishers and their classification.  |  |  |  |  |  |  |  |  |  |

|              | Syllabus  |      |
|--------------|---|------|
| Unit         | Conten  | Hour |
| No.          | ts  | S    |
| At: Shiroson | Introduction To Electrical Safety, Shocks And Their Prevention:  Term and definitions, objectives of safety and security measures, Hazards associated with electric current and voltage, who is exposed, principles of electrical safety, Approach to prevent Accidents, the scope of subject electrical safety. Primary and secondary electrical shocks, possibilities of getting an electrical shock and its severity, medical analysis of electric shocks and its effects, shocks due to flash/ Spark over's, prevention of shocks, safety precautions against contact shocks, flash shocks, burns, residential buildings, and shop. | 6    |

| 2 | Overview of the Safety Model: Wiring and fitting, Domestic appliances, water tap giving a shock, shock from the wet wall, fan firing shock, multi-storied building, Temporary installations, Agricultural pump installation, Do's and Don'ts for safety in the use of domestic electrical appliances. | 6 |
|---|---|---|
| 3 | Electrical Hazards recognizing and Evaluating Preliminary preparations, safe sequence, the risk of plant and equipment, safety documentation, field quality, and safety, personal protective equipment, safety clearance notice, safety precautions, safeguards for operators, safety.                | 6 |
| 4 | Controlling Hazards: Safe Work Environment: Hazardous zones, class 0, 1 and 2, spark, flashovers, and corona discharge and functional requirements, Specifications of electrical plants, equipment for hazardous  | 6 |



|   | locations, Classification of equipment enclosure for various hazardous gases andvapors, classification of equipment/enclosure for hazardous locations.   |  |
|---|--|--|
| 5 | Controlling Hazards: Safe Work Practices: Fundamentals of fire, initiation of fires, types; extinguishing techniques, prevention of fire, types of fire extinguishers, fire detection and alarm system; CO <sub>2</sub> and Halogen gas schemes; foam schemes, Ladder safety fact sheet, Avoid wet working conditions and other dangers, Avoid overhead powerlines |  |

| Learning Resources  |  |
|---|--|
| Text Books:   |  |
| 1. Rao, S. and Saluja, H.L., "Electrical Safety, Fire Safety Engineering and Safety Management", Khanna Publishers, 1988.   |  |
| Reference Books:  |  |
| <ol> <li>Cooper. W.F, "Electrical safety Engineering", Newnes-Butterworth Company, 1978.</li> <li>John Codick, "Electrical safety handbook", McGraw Hill Inc., New Delhi, 2000.</li> <li>Nagrath, I.J., and Kothari, D.P., "Power System Engineering", Tata McGraw Hill, 1998.</li> </ol> |  |
| 4. Wadhwa, C.L., "Electric Power Systems", New Age International, 2004.   |  |



VIVA Institute of Technology, Virar

T.E. ELECTRICAL (2021-2022) SUBJECT: Electrical Sabety proutices SUBJECT INCHARGE: Port Mullich Molma 8/3 2/3 21/2 4/3 22/2 22/2 24/2 R. Name 0 Na 3 30 1-30 2:30 3:30 3:30 0 0 7 Penpente Report Brokent Bestant Propert Everent Profes AHRIE MAVERAJ PANDET SKALA ALI SALMAN MARBOOD RATERNA WEEKAN SHUBH PRATED EVENA DATE SHERLARM MOMANI MANUTA 08 MEE MEB MEB 0 MAB CORNAL CORNAL CHRIST AT CHAM ATCHEM MARG DALAMENDOALAH MUKESH BALA 07 -0 BRATT CHARMY PINAKIN BELA 07 0 CHAUDHARI ABHISHEK JIVAN SNEHAL CHAUSIAN BARGE SURYABANT SRITE CHAVAN EXPERIMANUN ANUKADHA PULL ON DIE 600 DIE 600 0 Maria CHAYAN BUHAN YINUD YANTA DALVI GAURAY GANRAT GEETA 4 Comme Comme Comme Comme Comme o 07 Company Copper Copper DARKE STEENBARD NAVORCESSOR 07 DISADAGA MORAN BANDHU KAMU person person o 14 paren paren paren paren A GAWAI BUHAN ANANO SHASHIFBARKA CHARAT AJDKYA PRABILAKAN BUNTA 08 CON CONTROL CON CONTROL DU PRAVIN RANGET GAYATRI nederal recent recent might nowed in fruit in foot in for 08 COUNTAR MANCE SELVAN BRURDHA CULANS MAKESK UTTAM RRENA 06 ASE ASE O PILE ASE ASIE ASE A A ULAN AMERINADAR STARAM CUPTARABLE HARBIAR VIMLADEVI OUTTA SURAT INCHANLAL SANCERTA Electo potest policy person proto proto A Plesto 07 HOLMUNDE AKARH ASHOR GAURI PPTOWS PT- PPJONEPPJONED ADDICAL PRINCAL PRINCASH PRINCALL 06 98-12-MANGAM PRANKY PRAMOD PRAMALE PPIED CHE FOR CHE CUE FOR THE FIRE CON 08 KAMILE SHIBHAN LALABATE MICHA LABORAL A HETELE KATELL LEGICA LEGICA (Section (Sec KAP ANUN BAMAKANT ANITA KATELA ANAND GAMBARAM 08 KATKAR YASHODEEP SHRIKANT 0 07 GRADE ATTION ANTWARD ASSISTED CUBAL PRATHMENT CHANTRASHEDUAR KUMBEAR PREMIHANDRA HERSLAL the party that a training the party that of the 07 LADRAYA KHUSHALI RAMESHKUMAR MACRES STEMARTH SURES! SURESDEA powert Advant Advant Advant Devent Advant Advant Advant O oβ MALAUSE ADWAIT HARSHOUNDRA 35 MANAGE SAGAR RAMISH RAMA MARCHANDE MILESH GAUTAM HORE BUTEIK SUHAS MORENT MUKADAM AFFAN ASLAM ISHRAT PERson PROm. PRAN PROm. PRAN PRAN PRAN PRAN 08 0 ARMAR RAWLE BILLPENDRABILLY PASHTE ASSISTA ASSISK ASSISTED PASSITE MITALI VASLIDEY VISIDAGES 42 PASITTE SEIAL SCHIAST SPUBHANCE Patel Patel Posts Posts Partel Posts Pastel Pastel O 08 PATEL RGAR EBIT RITA PACIL ANKIT CHANDRAKANT DEGYAN WALL BRAYEN MARTASO TSUPO PATEL CHIPGIAY RATESH SANCEETA

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SCHOOL DECAMERS SUMIL SUCHETA

At: Shiroso

Dist. Palghar

| 49  | PATE KOMAL SANDESH SWATE   |         |        |        |          |         |           |         |        |    |   |     |
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| 50  | PATIL PRATIK VIDAY VISHAKBA  |         |        |        |          | - 0     |           | 2       |        |    |   |     |
| 81  | PATEL RINKAL KONDU KIRTEE  |         |        |        |          |         |           |         |        |    |   | 1.0 |
| 52  | PATRA RAJESH TRINATH DAMAYANTI   |         |        |        |          |         |           |         |        |    |   |     |
| 53  | PAWAR YASH SAYALARAM SHEHAL  | 8 10    |        |        |          |         |           |         |        |    |   |     |
| 54. | PANTERS PRESANA PRANCO SHITAL  | PHOPELL | CEALE  | CAMPER | PATRICE. | A       | Chicaler  | beach.  | phot   | -0 | 7 | 07  |
| 55  | SANICHE NICHTL SUDBUSIAN SARITA  |         |        |        | - 1      | 5       |           |         |        |    |   |     |
| 56  | SATAVI VOGESH SURESH SUREKHA   |         |        |        |          |         |           |         |        |    |   |     |
| 57  | SAVARE VERHAL DILIP-GEETA  |         |        |        |          |         |           |         |        |    |   |     |
| 58  | SKINDE BOHAN GOFDATH GEETA   |         |        |        |          |         |           |         |        |    |   |     |
| 59  | SINGH KRITE NAKENDRA SUNLETA   |         |        |        |          |         |           |         |        |    |   |     |
| 69  | SONGH PRATEEK SUILISH DODU   | STOAL   | PSAND  | PIGN   | 9.516.7  | P. Root | P.S.EW    | A       | 4      | 0  | 6 | 0.6 |
| 61  | SINGH BAHIL AME ANU  |         | 300000 | 10.00  |          |         | in Icelia | 5 Phys. |        |    |   | -   |
| 62  | SIRSAE NEUTA BALAWANT SUMTA  | MINE    | But    | Maria  | No Break | 140000  | roller    | NEED    | La Com | 0  | 8 | 08  |
| 63  | SONALKAR SHRUTIKA PANDURANG  |         |        |        |          |         |           |         |        |    |   | _   |
| 64  | SONAR LALIT PRAKASH REKNA  |         | 1      |        |          |         |           |         |        |    |   |     |
| 68  | SURYVANSII TUURAR JAJVANT SUMAN  |         |        |        |          |         |           |         |        |    |   | -   |
| 66  | THAKARE PRASAD SLIDHER SUPRIYA   |         |        | -      |          |         |           |         |        |    |   | _   |
| 47  | TOKARE DIPESH RAKNDRA SUNITA   |         |        |        |          |         |           |         |        |    |   |     |
| 68  | VARTAK MIRIR RASIV REMANG  |         |        |        |          |         |           |         |        |    |   | _   |
| 68  | VERWAKADNA ASITKUWAN<br>SEBHASHCHANDRA   |         |        |        |          |         |           |         |        |    |   | -   |
| 70  | The state of the s |         |        |        |          |         |           |         |        |    |   | _   |
|     | NO OF STUDENTS PRESENT   | 20      | 20     | 22     | 20       | 21      | 23        | 22      | 21     |    |   |     |

| Se<br>no | Date  | TOPICS COVERED                              |
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| 1        | 22/2  | Improbusion to elevaced sofely 6 effectives |
| 2        | 22/2  | Hozard ancieted with autor 4 vellege        |
| 1        | 24/2  | Primary & suon day elastical shocks         |
| 4        | 24/2- | madked andy so and effects                  |
| 5        | 913   | Shorts due to flash / parles                |
| 6        | 813   | Prevention for shops of billerys.           |
| 7        | 213   | Eveniew of sofely model                     |
| 8        | 10/3  | wring to domistic appliances                |

SUBJECT INCHARGE



SUBJECT: Electrical facility precision T.E. ELEC T.E. ELECTRICAL (2021-2022)

| R.  | Name                                | 10/3   | 14        | 1 15 3         | 10/3                  | 1719    | i int    | 3 21/3 | 22/3       | P   | C      |          |
|-----|-------------------------------------|--|-----------|----------------|-----------------------|---------|----------|--------|------------|-----|--------|----------|
| 3   | Time                                | 3:34   | 3:3       | 0 2131         | 2:2                   | 0 2-13  | 0 2:30   | 513    | 2:50       |     |        | T        |
| 1   | AHRE MAYUKAI PANDIT SRAILA          | TUL  | IV gran   | E PYL          | and the second second |         |          |        | 1 Enfin    | 7   | 18     | 1        |
| 1   | ALI SALMAN MAHBOOD RAIBERHA         |  |           |                | 1                     | 1       | -        |        |            |     |        | T        |
| 3   | AREKAR SHUBH PRASAD SHERA           |  |           |                |                       | 1       | 1        |        |            |     |        | T        |
|     | BAIT SAURABH MINIAN HAMTA           |  |           | 110            |                       |         |          | 1      |            | -   | $\top$ | T        |
| 5   | BALAMEROGAJAHMUKESHBALA             | n.8.8  | mal       | 10.61          | S INBR                | DAN     | MBB      | PO-BB  | MBB        | 8   | 8      | 1        |
| 6   | BHATT CHAMP PRAKIN BILLA            | The state of the s |           |                |                       |         | 1 CPBP   |        | FELSH      | -7  | 7      | 1        |
| 7   | CHALTERIARI ABRIDREX SVAN SNERAL    |  |           |                |                       |         | MATON    |        | Atchin     | 7   | 7      | 1        |
|     | CHAUTEAN BARSH SURTAKANT PRITE      |  |           |                |                       |         |          |        |            |     |        | T        |
| 9   | CHAVAN DIDESH ARUN ANURADIRA        |  |           | 3              |                       | 1000    |          |        | 100        | 100 |        |          |
| 10  | CHAVAN BOHAN VINOD VANITA           | 200  | Que se    | - 000          | A                     | pus     | -02      | - A    | 1022       | 7   | 6      | 1.       |
| 11  | DALVE GALBLAY GANPAT GEETA          | 1  | 1         | 1              |                       |         | 1        |        | 100        | -   |        |          |
| 12  | DANGODARA DILABABILIN JAGOISH BIHAT |  |           |                |                       |         |          |        |            |     |        |          |
| D   | DAIUE SIDCHESH YANDKISHOK           | GANG 9   | E COM     | - Call         | CAR                   | GUY     | 73/2     | CTAPE  | SHEET .    | -7  | 8      | 15       |
| 14  | OFFADAGA MOHAN BANDISU KANU         | 1  | 1,00      | 1              | 1                     | 1       | 1        | 130    | 3          |     |        |          |
| 15  | GAMAI ROHAN ANUND SHASHIMABIKA      | Coper  | 2010      | Paner          | 4 8                   | Rober   | 6 drey   | Caron  | Room       | -7  | 7      | 10       |
| 16  | GHARAT AJINKYA PRASHAKAK SUNETA     | 1  | 1         |                |                       |         |          |        |            | -   | 17     |          |
| 17  | GILL PRAVIN RANJEET GAYATRI         | GD   | -(20      | - Colin        | -00                   | (ac-    | 160      | - A    | A.         | 8   | 6      | 1        |
| 18  | GOUNDAR MANO! SELVAM SHARDHA        | and the second   |           | m. har         | FA GOL                | M. Com  | W. Con   | 1000   | 4152       | -8  | 8      | T        |
| 19  | CUTARE NAHESH UTTAH REIGHA.         |  |           |                |                       |         |          |        |            |     |        |          |
| 10  | GULARE ADDENNASUNDAR SITARAM        | 200  | Pit       | ast.           | - PRE-                | A       | Pige     | P.95   | AS.E       | 6   | 7      | 13       |
| -   | GUPYA RAHUL HARIHAR VIMLA DEVI      |  | 1         | 1              | 1                     |         |          | -      |            |     |        |          |
| -   | GUPTA SURAJ EISHANLAL SANGEETA      | 0.0  |           |                | 300                   | 1 3     | 1000     |        |            |     | 200    |          |
| -   | HOLMUKKE AKASH ASHOK GAURI          | Cresto   | AKOST     | Die            | DESCE-                | Profe   | PLOT     | DESID  | PERE       | 7   | 8      | 15       |
| -   | ACHIAV PRANAY PRAKASH PRANALI       | -  | 1         |                | 1                     |         |          |        |            |     |        |          |
| -   | ANGAM PRANCY FRANCO PRANALI         | P.P.300  | A         | pega           | P.Porter              | キャナル    | pp jorg  | potu   | 22.40      | 6   | 7      | 13       |
| -   | LAMBLE SPETBEAM LALASAHER           | CLK  | A         |                | SLK                   |         | -        |        | T-1-1C     | 8   | 7      | 15       |
| -   | (AP ANUI RAMAKANT ANTA              | 1  | 13.       | -              | -                     | 1       | -        |        | - American |     |        | -        |
| -   | ATELA ANAND GANGANAM                | CATE LE  | LATEL     | E TELET        | YPULL!                | CATTLE  | HTELE    | VECLE  | WILL       | 7   | 8      | 15       |
| +   | ATKAN VASIKIDEEZ SHUKANT            |  |           | YSKALES        |                       | YOU     |          |        | Youthan    | -8  | 7      | 15       |
| _   | DEADE ATISH AVINASH ASHNINI         | A Produce  | 1         | and the second | The second second     | -       | 41000    |        |            | 7   | 8      | 15       |
| +   | UBAL PRATHMESH CHANDRASHEERAR       | 100  | Pres      | 71/            |                       | -       | To       | -      | 44.50      |     | 0      | 1.2      |
| +   |                                     |  |           |                |                       |         |          |        | Consum and |     |        |          |
|     | IMBRIAR PRENCHANDRA HERALAG         | Lindred  | La Alfali | HARD           | a                     | Market  | Ventali  | Halin  | kh4        | 7   | 7      | 11       |
|     | ADHAVA KHUSHALI RAMESHKUMAR         | Tra.   | 11-3      | The same       |                       | PASSA   | pur      |        |            | -   | -      | +        |
|     | ACRES SIMILARTH SURESH SUREKHA      | A Louis  | n land    | A hardt        | March                 | th and  | Al wit   | Local  | Phone      | q   | 9      | 1.       |
|     | ALASHE ADWART HARISHCHANDRA         | Peloni   | Lan       | Jack Hill      | Pillow II             | 1       | Liferal? | Piero  | Lakerali   | 0   | - 5    | 1        |
|     | CHANG SAGAR RAMESH RAMA             | -  |           | -              |                       |         |          |        |            | -   | -      |          |
|     | ACHANDE NEESH GAUTAM                | -  |           |                |                       |         |          |        | -          | _   |        | -        |
|     | RE ERITRIE STHAS HORINE             | _  |           |                |                       |         |          |        |            | _   |        | _        |
|     | KADAM AFFAN ASLAM BHEAT             |  |           |                |                       |         |          |        |            | _   |        |          |
| PAI | IMAK RAIKE BHURINDRABHAI            | PECars.  | A         | PERITE         | Phleax.               | -Fffice | P. Barr  | PRPS.  | Charle     | 8   | 7      | 15       |
| 774 | SHITE ASSETA ASSECT ASSESSE         |  |           |                | 9                     | 2       |          |        |            |     | 9 5    |          |
| PA  | SHITE MUTALI YASEDEV VISHARIEL      |  |           |                |                       |         |          |        |            |     |        |          |
|     | SHIT SEIAL SERRASH SHURANGI         | 1  | Same N    | any of C       | 100                   | E same  | Samuel 1 | = 50   | 4          |     | EB     |          |
| _   | TE, RISAR KIRIT RITA                | BULL   | 6013T     | Pedel          | A                     | Poste   | Butch    | Tate   | Pulel      | 8   | 7      | 1        |
|     | IL ANKIT CHANDRAKANT DEUTAN         |  |           |                |                       |         | 8        |        | 1000       |     | -      | 1        |
|     | E BHAYTH MARTANO TREPTI             |  |           |                |                       |         |          |        |            |     | S      |          |
|     | L ODMAY RAESE SANCERTA              |  |           |                |                       |         |          |        |            |     | -      | $\vdash$ |
|     | P. CLEMENT MANUAL MANUAL PROPERTY.  |  | ) fishil  |                |                       |         |          |        |            | 8   |        | _        |



| 41  | PATEL KOMAL SANDESH SWATS                  |         |         |          |           | 3         |       |       |        |     |   | I   |
|-----|--|---------|---------|----------|-----------|-----------|-------|-------|--------|-----|---|-----|
| 50  | PATEL PRATIK VENY VENKACHA                 |         |         |          |           |           |       |       | 5      | 3.2 |   |     |
| 51  | PATE RINKAL KONDU KIRITE                   |         |         |          |           |           |       |       |        |     |   | - 1 |
| 52  | PATRA RAJESH TENATH DAMAYANTI              |         |         |          |           |           |       |       |        |     | 9 |     |
| 53  | PAWAR YASH SAVALARAM SNEHAL                | 1       |         | 0,92     |           | 0         |       |       | 3      |     |   |     |
| 54  | RANTEKS PRERANA PRANCO SPETAL              | MARINE  | pposer- | manust.  | GHYLE"    | WASHING . | ENMIL | pent  | pre    | 7   | 8 | 15  |
| 55. | SANESE MEHIL BUTHAKAK SARITA               |         |         | 1        |           |           | 200   | 1-1-1 |        |     |   |     |
| 96  | SATANI VOGESH SURESH SUREKHA               |         |         |          |           |           |       |       |        |     |   |     |
| 57. | SAVARE VISUAL DILIP CERTA                  |         |         |          |           |           |       |       |        |     | 1 |     |
| 88  | SHINDE ROBAN GOVENATH GEEVA                |         |         |          |           |           |       |       |        |     |   |     |
| MI. | SINCE KRITE NAREHORA SUNETTA               |         |         | 0.00     | 8-3-      |           |       |       | -      |     |   |     |
| 64  | 109 OH PRATEEK SURESH IMDIL                | PORROW  | Probet  | 3.5 Ares | P.J.5 -   | PFHON     | 中中国   | A.    | A      | 6   | 6 | 12  |
| 61  | STYGH RAPILL AYE, AYU.                     |         | 1       |          | 1.800/100 |           |       |       | 200    | 1   |   |     |
| 62  | SIRSAE NIXITA BALAWANI SUNITA              | Mariant | Miller  | mary.    | Price     | of water  | COL   | 13000 | 17     | - 8 | 8 | 16  |
| 63  | NONALKAR SHRUTIKA PANDURANG                | -       |         | 100      | 10        | 1         |       |       | Trans. |     |   |     |
| 64  | SONAN LALIT PRAKADI RIDGIA.                | (0)     |         |          |           |           |       |       |        | J., |   |     |
| 65  | SURYVANSII TUSHAR JAIVANT SUMAN            |         |         |          |           |           |       |       |        | 1 7 |   |     |
| 66  | THAKARE PRASAD SLOHIB SUPRIYA              |         |         |          |           |           |       |       | 3      |     |   |     |
| 67  | TOKAKE DIPESH RAJENDRA SUNITA              |         |         |          |           |           |       |       |        |     |   |     |
| 61  | VARTAK MIHER BAJIN DEMANG                  |         |         |          |           |           |       |       |        | 3   |   |     |
| 68  | VIDITA AKAKNIA AMPIKUMAR<br>SUBHASHKAANDRA |         |         | 1-7/     |           |           |       |       |        |     |   |     |
| 79  | WAY ARE ROBIT PRADEP PRAGATI               |         |         | Legavi   |           | 100       |       | 1000  | No.    |     |   |     |
| 11  | NO OF STUDENTS PRESENT                     | 24      | 21      | 24       | 20        | 23        | 23    | 18    | 22     |     |   |     |

| Sr<br>no | Date | TOPICS COVERED                      |
|----------|------|-------------------------------------|
| 1        | 10/3 | water tak lederge curry, wet way    |
| 1        | 14/3 | Mulhi strand blog provision tulique |
| 3        | 15/3 | Temporary installations             |
| 4        | 15/3 | Agetween installations              |
| 5        | 1713 | Do's & Don'to for sabily            |
| 6        | 1913 | pretoning preparettes for Hazards   |
| 7        | 21/3 | Eable require for sole of plant.    |
| 8        | 21/3 | Sabily doumerson                    |

SUBJECT INCHARGE



SUBJECT: Electrical fatety foraction T.E. ELECTRICAL (2021-2022)

| R.           | Name                            | 1.2     | 12     | 24            | 14    | 241      | 2 .    | gla           | 20         | 13    | 241      | 3 4             | 14      | 57           | 4    | P      | L  |        |
|--------------|---------------------------------|---------|--------|---------------|-------|----------|--------|---------------|------------|-------|----------|-----------------|---------|--------------|------|--------|----|--------|
| No.          | Time                            | _       |        | -             | -     |          | _      |               | _          | -     | -        |                 | 130     | 1.3          | 10   | $\neg$ |    | T      |
| 1            | AHRE NAVERALFANDE SIMILA        |         | 30     |               | 10000 | 3:3      |        |               |            | 30    | HY       |                 | 13.     | Prin         |      | 5      | 7  | 2      |
| 1            | ALI BALMAN MANBOOR RABISHA      | 100     | Di n   | Selen         | 601   | (ITW     | tot li | Tin a         | -          |       | 11000    | 1 1             | +       | -            | 1    |        | -  | T      |
| 3            | AREKAR SHURR PLASAD SNEKA       | _       | _      | -             | -     |          | +      | _             | -          | -     |          | -               | _       | -            | +    | $\neg$ |    | T      |
|              | BAIT SALVAGH MORANIMANTA        | _       | _      | -             | -     |          | +      | _             | +          | -     | -        | _               | _       | 1            | -    | $\neg$ |    | Г      |
|              | BALAHERUGAIAH MERUSH BALA       | MA      | a      | (m6)          |       | m 0 0    | -      |               | 10.0       | 6     | 1081     | Lin             | 24      | MB           | 0 1  | 6      | 7  | 2      |
|              | BHATT CHARMY ROAKIN BELA        | -       | -      | Bridge Street |       | MAR      |        | 12-11         | -          |       | (18ha    | and the same of |         | -            |      |        | 8  | 2      |
| 7            | CHARLESTERN TWAN ENDIAL         | -       | -att   | _             | _     | -        | _      | Cont.         | P35        |       | 0152     | - PA            | 2       | 112          |      |        | 8  | 2      |
|              | CHALINAN HARSH PURYAKANT PRITI  | Va 2    | 2,525- | MIC           | -     | 192      | PE-2   | _             | 100        |       | 100      | 11/2            |         | 100          | -    | +      | _  |        |
| 9            | CHAVAN DIPESH ARCH ANURADHA     |         |        |               | +     | _        | -      | _             | -          | -     |          | +               | _       |              | 1    |        |    |        |
| 10           | CHAYAN BORAN VINOD VANEA        | 9.0     | ghres. | - Avid        | 100   | i orbor  | * 01   | desca         | Breite     | -     | onta     | - (2Nd          | **      | Δ.           | 13   | 13     | 7  | 2      |
| 11           | DALVI GALRAY GARRAT GEETA       | 125     |        | - Bearing     | -     | 200      | Har.   | -             | P. C.      | -     | Pioe     | 1 20            |         |              | 1    | 1      |    |        |
| -            |                                 | _       | -      |               | +     | _        | +      | _             | -          | -     | _        | +               |         |              | +    | +      | 7  |        |
| 12           | DANGODARA DRABNESH JAGOISHDHAI  |         | .00    | 2110          | 2     | W.       | -      | 0             | CILL       | NV.   | · Tito   | No W            | -4-     | SAME         | -115 | 17     |    | 2      |
| 13           | DARKE SCIENCES NANDROSHOR       | 377     |        | 23gg          | -17   | Sept.    | 7      | <u>a</u>      | 11-ages    | -     | 10000    | 1700            |         | 9430         | 113  | +      | +  | _      |
| _            | DISADAGA MOHAN BANCHU KAMU      | mole    |        | Det.          | - 9   | -box     | Rol    |               | Deter      | -     | Peren    | Rob             |         | Rober        | 114  | 8      | 1  | 2.2    |
| 13           | GAVAI ROHAN ANAND SHASHPRABHA   | HO.     | 32     | Pokor         | 45    | Open     | KO     | 4040          | Rohe       | Des - | -0.00    | 1507            | -       | Por          | 110  | 10     | +  | -      |
| -            | GHARAT AIDNEYA PRABHAKAR SUNITA | 100     |        | 40            | -     | -14      | 0      | 0             | GE         | -     | Gin.     | 605             | 3       | 7.0          | 114  | 8      | 1  | 27     |
| -            | GRU PRANTN RANGEST GAYATIL      | (20     |        | 010           | -     | 210      | -      | $\overline{}$ | -          | _     | 200      | 166-            | 哥       | 1            | 116  | _      |    | 23     |
| 8            | SOUNDAR MANOE SELVAM SHAKDHA    | 0.60    | 7      | W(50)         | 100   | Gez      | 1 ,    | 9             | 4 (100)    | 7     | Jan D    | 4.00            | 7       | AL           | 110  | +7     | +  |        |
| -            | CLIARE MAJESH UTTAMREKKA        | 200     |        | 655           | 100   | 04       | PER.   |               | en e       | 10    | 20.0     | E34             | +       | -            | 1.9  | 1-7    | +  | 20     |
| -            | ZUZAU ABIENNASUNEAK SITAKAM     | 289     | - '    | 090           | 72    | 86       | 100    | -             | PEG        | - 18  | 25       | Bek             | -       | 1            | 13   | 17     | +  |        |
| -            | SUPTA RAHUL HARBIAN YIMLA DEYF  | _       | -      |               | +     |          | -      | -             |            | +     |          | -               | +       |              | -    | ⊢      | +  | -      |
| +            | SUPTA SURAJ RISHANLAL SANGEETA  |         | -      |               | 100   | -1       | -      | 70-           | n right    | 2 5   | 120      | 0.00            | N.      | Dients.      | -10  | 0      | +  | -      |
| -            | IDENTIFICE ARASH ASHOR GATES    | Plat    | - P    | ALER D        | 13    | 247      | Die    | 25            | Pred       | TE    | The same | PARE            | 7       | PE           | 15   | 8      | 12 | 3      |
| -            | ACHIAN PRANAY PRAKASH PRANALI   | 000     | -      |               | -     |          | -      | -             | 007        | 10    |          | Day             | 19      | Pr.          | 1.5  | 10     | +  | -      |
| -            | INGSM PRANAY PRAMOD PRANALI     |         |        |               |       |          |        | _             |            |       |          |                 | _       | Floga        | _    | 8      | _  | 1      |
| 6 6          | AMELE SECTION LALASSACE         | CLI     | - 3    | CILIC         | 150   | -16-     | 20     | =             | OF.        | 17    | ( )E     | 014             | - 5     | -1.15        | 15   | 8      | 12 | -3     |
| 1            | AP ANUI BANKAKANT ANTTA         | 4481    | Bar    |               | -     | er Lib   |        | 160           | 1.9777     |       | ert In   | u sac li        | 2       | mer de       |      | -      | 1  | 0      |
| 1            | ATELA ANAND GANGARAM            | MASTER  |        | er. e         |       | عدو      |        |               |            |       |          | VME             |         | Paris        | 15   | 7      |    | .2     |
| 10           | ATKAR YASHEDEEP SHRIBANT        | YSLAN   |        |               | -     | 1        | 4      | -             |            | -     | _        | COPP            | 1.5     | Char         | 15   | 8      | -  | . 3    |
| -            | EADE ATTEM AVENASH ASSISTED     | Shuks   | - 18   | rue           | (L)   | -44      | the    | -             | the d      | 15    | 47       | ched            | E.K.    | f-out-       | 12   | 8      | 2  | 3      |
| 100          | DAL PRATRIMESH CHANCEASHEXIBAR  |         | -      |               |       | -        |        | -             |            |       |          |                 | +       |              |      | 200    | 1  |        |
| kt           | DEDICAR PREMISIANDRA HIRALAL    | -       | 1      | n.A.          |       |          |        | -             | 1.30       | -     | 1 1      |                 |         | -            | -    |        | -  |        |
| P            | ADHAYA KHUSHALI RANESIOOMAR     | the     | 45     | والمراس       | J.    | 1200     | 0      | K.            | المصاور    | 1kb   | Thorn    | 100             | W       | and the same | 14   | 7      | 2  | -1     |
| MA           | CHOC SIDILARTH SURESHSURESHA    |         | -      |               |       |          |        | 1             |            |       |          |                 | 1       |              |      | 100    |    |        |
| MA           | LASKE ADWALT HARISHCHANDRA      | AHarles | 40     | HAPM          | ARTH  | Select 1 | HHAN   | 159 01        | il tampely | Ан    | penty    | 4               | Ph      | -th-th       | 16   | 7      | 2  | 1      |
| MA           | NANT SAGAR RUMESH RAHA          |         | _      |               |       |          |        |               |            |       |          |                 | $\perp$ |              |      |        |    |        |
| HA           | UCHANDE MILESH GAUTAM           |         |        | - 3           |       |          |        | _             |            |       |          |                 |         | 1            | 9    |        |    |        |
| MOR          | E HUTTHE SURAS NORTH            |         | _      |               |       |          |        |               |            |       |          |                 |         |              |      |        |    |        |
| MUX          | ADAM AIYAN ASLAH ISIRAT         |         | L      |               |       |          |        |               |            |       |          |                 |         |              |      |        |    | $\neg$ |
| MRS          | HAR KANCE BIT PENDRASHAI        | Philip  | CB f   | (44.bk)       | 466   | m A      | Bow    | - 20          | (Parm      | FBF   | pru F    | Ofen            | RE      | Posts        | 15   | 8      | 23 | 5      |
| PAS          | HTE ASSETA ASHOK ASHRINE        | S = 1   |        |               |       |          |        | 12 12 12      |            |       |          | 120.7           | 1       |              |      |        |    |        |
| FAS          | HTE MITALI VASLEEY VIIRARIA     |         |        |               |       |          |        |               |            | -     |          |                 |         |              |      |        |    |        |
| PAS          | KTE SEJAL SUBWASH SHUBHANGI     | \$ 19   |        |               |       |          |        |               |            |       |          |                 |         |              |      |        |    | -      |
| ATE          | L DOAR KRIT RITA                | ह्यान्य | Po     | del 1         | Pul:  | 4 1      | we     | R             | del        | Pa    | 14 7     | Red (           | 75      | Mel 1        | 5    | 8      | 23 | H      |
| and also     | ANNET CHANDRAKANT DEGTAND       |         | 71.5   |               | 100   |          |        | T             |            |       |          | -               | -       | -            | -    | 0      | -  | 4      |
| <b>WATER</b> | BHAYIN MARTAND TREPTI           |         |        |               |       |          |        |               |            |       |          |                 |         | -            | -    |        | -  | 4      |
|              |                                 |         |        |               |       |          |        |               |            |       |          |                 |         |              |      |        |    |        |

| . 1 | PATEL ROMAL SANDESH SWATT  |                |        |         |           |          |        |        |          |          | -        | -  |
|-----|--|----------------|--------|---------|-----------|----------|--------|--------|----------|----------|----------|----|
| -   | PATIL PRATIK YDAY YISHAKHA   |                |        |         |           |          |        |        |          |          | _        | -  |
| -   | PATIL RINGAL BONDU KIRTEE  |                |        |         |           |          |        |        |          |          | _        |    |
| -   | PATRA RAJESH TRINATH DAMAYANTI   |                |        |         |           |          |        |        | -        | _        | _        | -  |
| 0   | PAWAR YATH SAVALARAM SNIHAL  |                |        | 1 - 15  |           | -        |        |        | 77230.00 | 100      | -        | -  |
|     | RAMTERE PREBANA PRAVIOU SHITAL   | <b>DUNITER</b> | CHITE  | CHUKEKO | CANTER    | CANTON   | PAMPA  | FPM1-  | 14100    | 15       | 8        | 23 |
| 18  | SANKIR SIKHIL SUDHAKAR SARITA  | - Prince       |        |         |           | New York |        |        |          | _        |          | -  |
| 56  | SATAYI YOCESH SURESH SUREKKA   |                |        |         |           |          |        |        |          | _        | _        | -  |
| 87  | SAVARE VISHAL DELP CITETA  |                |        |         |           |          | 4      |        |          | -        |          | ╀  |
| 58  | GENDE ROHAN-GOPINATH GEITA   |                |        |         |           |          |        |        | _        | -        | _        | -  |
| 19  | SONOH KRITI NARENDRA SUNSETA   |                | 10     |         |           |          |        |        |          |          | -        | 13 |
| 60  | SINGK PRATEER SCHESILENDU  | P.Stanto       | PORT   | PSSIM   | P.C.Brall | PSBro    | A      | Parot  | 4        | 12       | 6        | 18 |
| 41  | (ONCH RAUGE AND AND)   |                |        |         |           |          |        |        | - 600    | 17       | -1       | 2  |
| 62  | HIRSAT NIKITA BALAWANT SENITA  | NAME           | L. Mar | うるう     | A         | 10 Proce | lo boy | 10000  | Libra    | -16      | 1        | 4  |
| 63  | SONALKAR SIRGITIKA PANDURANG   |                |        |         |           |          |        |        |          | -        | -        | -  |
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| -   | THAKARE PRASAD PLDICK SUPRIVA  |                |        |         |           |          | -      |        | -        | -        | -        | -  |
| 67  | TOKAKE DIPEDH BAIENDRA SENTA   |                |        |         |           |          |        |        |          | -        | -        | +  |
| 68  | VARTAK MEHIR BATV HEMANGI  |                |        |         |           |          |        | -      |          | -        | $\vdash$ | +  |
| 63  | VISHWALARDIA AMETREMAN<br>SUBHASHCHANDRA   |                |        |         |           |          | -      | 1      |          | -        |          | +  |
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| 3        | 2413 | Hazaldous somes class.                |
| 4        | 243  | comma discharge and flosheres         |
| 5        | 2913 | Sperficolor of electrical glant       |
| 6        | 24/3 | Equipment for hazardons locations     |
| 7        | 414  | Classificately of equipment unlosses  |
| 8        | 574  | Hazalder locations search to estimate |

SUBJECT INCHARGE



SUBJECT: Electrical (2021-2022)
SUBJECT INCHARGE: The Michael Michael T.E. ELECTRICAL (2021-2022)

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| +   | BATT SALTABIHMCHAN MAARTA                                |              |          |          |         | 13                          |           | -     |        | -        |
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| 6   | EMATT CHARMY PRAKIN BELA                                 | CPE          |          | COBL     |         |                             | CPRIZ     | 22    | _      |          |
| 7   | CHALEHARI AMESHEK JIVAN SKERAL                           | P.500*       | 0.50-    | Moder    | A       | Madre                       | Mer       | 22    | 5      | 27       |
| 8   | CHAUMAN HARSH SURYAKANT PRITE                            | 77.00        |          |          |         |                             |           |       |        | _        |
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| 14  | DRIADAGA MOKAN BAKOKU KAMU                               |              |          |          | S.Amil  | The I                       |           |       | _      | 201      |
| 15  | GAWAL BOHAN ANASO SHASHIMARIA                            | Quelor?      | - 100har | A        | Copes   | Popular                     | 69.00     | 22    | 5      | 27       |
| 16  | GRUSAT ARNKYA PRABHAKAR SUNITA                           | - 1          | 12       |          |         | 10                          |           | -     | _      | -        |
| 17  | CIBLI PRAYEN RANGEET GAYATRI                             | GIT          | - Gr     | A        | GO-     | COL                         | Gia       | 22    | 5      | 27       |
| 18  | COUNTIAN MANOES FOLVAN SHARDRA                           | A GOVE       | min's    | W Car    | 6. 60mm | e ( san                     | 4 100m    | 23    | 6      | 29       |
| 19  | CUTARE MAHESH UTTAM KKRIA                                |              |          |          |         |                             |           |       |        | 0.7      |
| 20  | CUSAN ABHINNASUNDAR SITARAM                              | 220          | - PR. L  | DEL      | ASE     | Park                        | ACC       | 20    | 6      | 26       |
| 21  | COPTA RAHUL HARBUR VINLA DEVI                            |              |          |          |         | - 3                         | 200       |       |        |          |
| 22  | OLPTA SURAI KISHANLAL SANCERTA                           |              | 12.000   |          |         |                             |           |       | -      | - 0      |
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| 26  | EANGLE SHOWING LALASANDS                                 | SLIC         | CUL      | CLIK     | City    | CUE                         | CHE       | 23    | 6      | 29       |
| 17  | EAP AND BANKAKANT ANITA                                  |              |          |          | 2000    |                             |           | - 0.1 |        |          |
| 18  | KATELA ANAND GANGARAM                                    | METELB       | torsib   | KATELE   | tatela  | THEY                        | - A       | 22    | 5      | 27       |
| 29  | KATKAR YASHODRIP SHRIKANT                                | 18 total     | V OKETE  | 15 pm    | XIII'   | A                           | VER       | 23    | 5      | 28       |
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| 4   | COMBINAL PREMITTANDRA HERALAL                            |              |          |          |         | -                           |           |       |        | n 6      |
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| 7   | NORE SERVICE SUREMEDING                                  |              |          |          |         |                             |           |       |        |          |
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| -   | DOYAM SAGAR RAMETH RANK                                  |              |          |          |         |                             |           |       | $\Box$ |          |
| -   | MACHINDE WILESH GAUTAM                                   |              |          |          |         |                             |           |       |        |          |
| -   | COLE HOUTHER, SCHOOL MOREN                               |              |          |          |         |                             |           |       |        |          |
| _   | EKADAM AFFAN ASLAM SURAT                                 |              |          |          |         |                             |           | 8 1   |        |          |
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| -   | ASHTE SEJAL BUSHASH SHUBRANGI                            |              |          | 18       | 10      |                             |           |       |        |          |
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|     | TIL ANKIT CHANDRAKANT DEGYANT                            |              | 1        |          |         | ,                           |           | -     |        |          |
| -   | TE BHAVES MARTAND TRUPTI                                 |              |          |          |         |                             |           |       |        |          |
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| -   | TIL CHENNAY RAIESH SANGEETA<br>TIL CHENNEH SUNEL SUCHETA | Drpaki       |          | 10.11    |         | A D                         | JAAL .    | 2.2.  | 5      | 27       |

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| 69 | TARTAE MITTE EASTVIEWING        |         |         |         |        |        | 130    | 3   |     |          | -        |
| 45 | TOKARE ORESHRAJENDRA SUMTA      |         |         |         |        | Ø      |        |     | (4) |          |          |
| 67 | THAKARE BASAD SUBBIR SUBBYA     |         |         |         |        | 8 V    |        |     |     |          |          |
| 14 | SUMPOUNDE TURICAL JACHANT SUMAN |         |         |         |        | 1      | 1 -    |     |     |          |          |
| 15 | SCHAR LAUT BAKASH REKHA         |         |         |         |        | 3      |        |     |     |          |          |
| 14 | (SONALKAR SHUUTUKA LANDURANG    |         |         |         |        |        |        |     |     |          |          |
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| 60 | / SONCH KRITE NAKENDRA SENEETA  |         |         |         |        |        |        |     |     |          |          |
| 59 | SHENDE KORAN GOVERNOW GESTA     |         |         |         |        | 11 - 2 |        |     |     |          |          |
| 58 | SANARE VISITAL DILITORETA       |         |         |         |        |        |        |     | +   |          | $\vdash$ |
| 57 | NATAYI YOGESH HURUSIK SUMEKNA   |         |         |         |        | de ti  |        |     |     |          | Т        |
| 56 | BANKER NIGHT, PURHAKAR SARITA   |         |         |         |        |        |        |     | 1   |          | 1        |
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| 54 | 10WAR VASIE SANKLARAM IMERAL    |         |         | 12.6    |        | (100)  |        |     | 1   | $\vdash$ |          |
| 63 | DETRA KAJERII TRENITH DAMAMATTI |         |         |         |        |        |        |     |     |          |          |
| 52 | CATILBINEAL KONDUKBITES         |         |         |         |        |        |        |     |     |          |          |
| 91 | LATEL BATTE VOICE VEHARRA       |         |         |         |        |        |        |     |     | $\vdash$ | T        |
| 9  | / JATEL KOMAL SANDREH SWATT     |         |         |         |        | 18     |        |     |     |          |          |
| 10 | TATE DELANGES SUNE SUCURA       |         |         |         |        |        | 1 1    | 1   | 1   | 1        | 1        |

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SUBJECT INCHARGE



# VIVA INSTITUTE OF TECHNOLOGY

(Affiliated to University of Mumbai; Approved by AICTE & DTE)

Veer Savarkar Marg, Shirgaon, Virar 401303

Department of Electrical Engineering

# CERTIFICATE

This is to certify that,
Mr./Ms. Gujari Abhinnasundar Sitaram
of TE Electrical
has successfully completed value added course on
"ELECTRICAL SAFETY PRACTICES"
organized by

Department of Electrical Engineering for A.Y. 2021-22 from 22 FEB 2022 to 19 April 2022.

full hi.

Prof. Mukesh Mishra

Course Coordinator



Prof. Bhushan Save

Head of Department





# Late Shri Vishnu Waman Thakur Charitable Trust's VIVA INSTITUTE OF TECHNOLOGY Shirgaon, Virar (E), Tal: Vasai, Dist: Palghar – 401 305.



CIVIL ENGG. DEPARTMENT

#### **SEMESTER VIII**

Course Name: Microsoft Project Manager Academic Year: 21 - 22

Resource person: Mrs. Monica More
Conducted as per time table for the respective subject
Hours: 30

#### **Objectives:**

- 1. Plan for a project in detail
- 2. To use templates which creates projects in project 2017
- 3. To create, manage, schedule and track all the imputed resources
- 4. To create, manage, assign and track tasks of all inputted resources
- 5. To work with deadline and constraints
- 6. To use dependencies to help schedule tasks
- 7. To run reports.

#### **Course Outcomes**

At the end of the course, learners will be able to understand:

- 1. The functions involved in software related to civil engineering projects.
- 2. How to prioritize tasks, define expectations and prepare schedule.
- 3. Will know tracking and managing resources throughout the project.
- 4. To create and tracking budgets and sharing calendars with the team.
- 5. Learn about risk management involved in project management.





# Late Shri Vishnu Waman Thakur Charitable Trust's VIVA INSTITUTE OF TECHNOLOGY Shirgaon, Virar (E), Tal: Vasai, Dist: Palghar – 401 305. CIVIL ENGG. DEPARTMENT



#### **Detailed Syllabus**

#### Chapter 1: An Introduction to Project Management......03hours

Recognize when to use project management, role as a project manager is to deliver a project, communications, influence, and careful use of authority all play a major factor in the support you receive to complete the project, Project managers frequently find themselves with the challenge of adding new scope to a project with an already tight timeline. Typically, the job of the project manager is to work with their team to determine what this new scope will mean and how it will affect the project, building and tracking project schedules.

#### Chapter 2: The Microsoft Project User Interface......05 hours

To recognize best practices when running ms project for the first time, microsoft project user interface, the ribbon area icons, tabs, and access to the backstage, microsoft project scheduling engine, preparing a new project, estimating the project, ribbon actions (icons) you may need to perform within microsoft project, backstage is a full-screen area that allows you to open, save, share, and print your project, using views and tables

#### Chapter 3: The Microsoft Project Scheduling Engine......06 hours

constraint based scheduling, calculates dates for you based on constraints you place on tasks and resources, critical path and user-controlled scheduling, user-controlled scheduling can effectively break the ability to identify the critical path because durations, start dates, and finish dates are not required when using this feature, configure project options, microsoft project offers many options for you to configure the user interface, scheduling engine, and task tracking for your project most of these options are located in the backstage using the options menu item.

#### Chapter 4: Preparing a New Project......6 hours

Create a new project before you create a new project, make sure you have all the project options configured as you want them unless you have a unique reason to do otherwise, it is



#### VIVA INSTITUTE OF TECHNOLOGY Shirgaon, Virar (E), Tal: Vasai, Dist: Palghar – 401 305. CIVIL ENGG. DEPARTMENT



a good practice to start with a blank project configure a project calendar learn the differences between the Microsoft project calendars and when to use them.

#### Chapter 5: Estimating the Project......3 hours

Add tasks to the project, add durations to each task, add predecessors to each task to link tasks together, create the critical path, add resources to the project, create resource assignments, build a work breakdown structure, add costs to the project, add milestones to the project, add lag and review the critical path, adjust resource allocations.

#### Chapter 6: Tracking the Project......2 hours

To create a baseline baselines, custom views and fields project reporting task status updates updating task status from your team and update the project progress. resource assignment status updates .

#### Chapter 7: Custom Views and Fields......3 hours

To create custom views and tables views, create custom fields microsoft project, create graphical indicators when you create a custom field, further enhance it to use graphical indicators, these indicators allow you to display things like red, yellow, and green flag

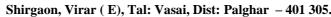
### Chapter 8: Project Reporting......2 hours

working with the timeline, multiple timelines in project 2016, 2019 and online, working with the reporting module, about agile projects, using the task board, using sprints, using project online desktop, tips and tricks conclusion go to goskills.com using boards and the gantt chart, sharing boards





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### CIVIL ENGG. DEPARTMENT

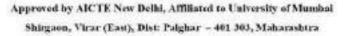


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| 1      | GEDIYA AASHISH CHANDRAKANT   | 64.        | 104               | 1        | Selv             | Seli-     | Sadiri   | 1 8    | par ! | gader      | -      | -   | _ |
| _      | GHARAT SACHIN NARAYAN        | anhi       | Sucher            | A        | 500              | 700       | 7        | ter    |       | a.         | N      | -   | _ |
| 3      | GHATGE TWINKLE BALASAHEB     | A          | A                 | W.       | w                | 13        | 1        | N.     | m     | A          | ٨      | -   | _ |
| 4      | GOHIL MONISHA SURESH         | (M)        | 1                 | A        | A 1              | 2         | M        | 2      | 27    | 8/         | 1      | _   | _ |
| 5      | GOVARI AKASH LAXMAN          | 100        | 13                | A        | 3                | Ä         | wil      | a.     | 1     | ارتتز      | 00     |     | _ |
| 6      | GUPTA GAURAV LALJI           | an         | وليلق             | A        |                  | 01        | -        | sale   | Selv  | salif      | A      |     | _ |
| 7      | GUITAV SAHIL ARUN            | TA         | gold)             | Sall     | Salv             | 300       | 1        | 1      | >     | 2          | 3      | -   |   |
| 8      | HADAL MANOI KAKADYA          | A          | 81.6              | 100      | 1/2              | ،عيد      | FI.      | QL.    | 2     | Su         | Sar.   |     |   |
| 9      | HATAKAR SUYASHJAYSING        | A          | gu                | for      | Xv.              | A         | 94       | -5     | Tr.   | 75.        | 27     |     |   |
| 10     | HIRPARA JAYDEEP JAYSUKHBHAI  | Ti         | J.                | A        | 11.              | V         | 17.      | Nited- | * frd | Wiles      | vitein |     |   |
| 11     | ILHE NITESH SUBHASH          | Wiled      | Wilcel            | Nites.   | A                | Niel      | 9.7      | Miles  | 0.3.  | 274        | Der.   |     |   |
| 12     | INDALKAR DISHA DATTA         | Distx      | Hyman             | Dula     | AC               | Trity     | 200      | Z X    | 2     | 1          | 1      |     |   |
| 13     | JADHAV NAYANKUMAR VUAYKUMAR  | 10         | (ok               | Or-      | A                | (A)       | Bur      | paron. | K     | Parcy      | A      |     |   |
| 14     | JADHAY PARAG ANJAY ANUPRIYA  | 1          | June              | Page     | A                | A         | 101      | 6      | 7     | W          | Δ.     |     | - |
| 15     | JADHAY PRASANJEET PRAKASH    | A          | A                 | 1        | 18               | Aus       | 1        | 1      | A     | 1          | 100    | _   | - |
| 16     | JAGTAP AJAY HARIDAS          | A          | A                 | riph     | 1                | 18 00     | Λ        | A      | 1000  | Hah        | 1927   |     | - |
| 17     | JAGTAP DEVANG SANDEEP        | A          | 0                 | 0        | 6                | 0         | A        | 0      | Do.   | 0          | 0      | -   | - |
| 18     | JAISWAL PRAJWAL RAJESH       | A          | Λ                 | P        | 900              | 10)       | (0)      | Λ      | 0     | 1          | WOW.   |     | + |
| 19     | JAMSANDEKAR SAIRAJ SHIVDATTA | A          | De                | A        | 80               | AU.       | SW       |        | 2/8   | A          | 2000   |     | + |
| 20     | KADAM MAKARAND VUAY SITARAM  | 1000       | my                | 1        | (may             | A         | (June)   | A      | 1800  | A          | W      |     | + |
| 21     | KADAM OMKAR SUDHAKAR         | 1          | OPK               | If       | Cond             | A         | Done     | 137 1  |       | A          | Clark  | -   | + |
| 22     | KADAM SHUBHAM SANIAY         | A          | Miller            | / year   |                  | light     | A        | MAN    |       | A          | A      | -   | + |
| 23     | KAJAVE ANKET CHANDRAKANT     | the last   | M                 | 11       | 1                | (D)       | (1)      | A      | A     | (1)        | ٨      | -   | + |
| 24     | KALMETAR MANISH LILADHAR     | 1          | Mb                | A        | MR               | MR        | N        | Mr     | LIK   | 1          | 1      |     |   |





#### VIVA INSTITUTE OF TECHNOLOGY





## Certificate of Participation

This is to certify that Dr. / Mr. / Ms. GEDIVA AASHISH has attended software course on "MSP & PRIMAVERA" organized by Civil Engineering Department from 18th January to 25th March 2022 at VIVA Institute of Technology, Shirgaon, Mumbai.

(Prof. Monica More)

Co-ordinator

(Prof. Lissy Jose)

**Head of Civil Engg Department** 

(Dr. Arun Kumar)

Principal





### VIVA INSTITUTE OF TECHNOLOGY

Shirgaon, Virar (E), Tal: Vasai, Dist: Palghar - 401 305.



Name of the Course: Advanced concrete technology

**AY: 2021-22** 

Course Duration: 30 hr

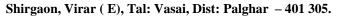
**STTP Programme Schedule** 

|       | D-4:       |               | Name of Carabana               | Topics                |  |  |  |
|-------|------------|---------------|--------------------------------|-----------------------|--|--|--|
|       | Date       | Time          | Name of Speakers               | 1 opics               |  |  |  |
|       |            |               |                                |                       |  |  |  |
|       |            | 9 am-12pm     | Session 1: Prof. Mayur Patel   |                       |  |  |  |
| Day 1 | 4/07/2022  |               |                                | Different types of    |  |  |  |
| Day 1 | <u> </u>   | 1.00 -4.00 pm | Session 2: Prof. Mayur Patel   | admixture & their     |  |  |  |
|       |            | 1.00 4.00 pm  | Session 2. 1101. Wayan Later   | uses.                 |  |  |  |
|       |            |               |                                |                       |  |  |  |
|       |            | 9 am-12pm     | Session 1: Prof Monica More    | High Grade            |  |  |  |
|       | 5/07/2022  |               |                                | concrete with four    |  |  |  |
| Day 2 |            |               |                                | blended               |  |  |  |
|       |            |               |                                | cementitious          |  |  |  |
|       |            |               |                                | Materials             |  |  |  |
|       |            | 1.00 -4.00 pm | Session 2: Prof. Akshay Mistry | Importance of CTM     |  |  |  |
|       |            |               |                                | inRMC industry        |  |  |  |
|       |            | 9 am-12pm     | Session 1: Prof. Ashish Shetty | Test on fly ash       |  |  |  |
|       | 6/07/2022  | 1.00 -4.00 pm | Session 2: Prof. Ashish Shetty | Effect of fineness of |  |  |  |
| Day 3 |            | -             | ·                              | flyash obtained by    |  |  |  |
|       |            |               |                                | wet sieving method    |  |  |  |
|       |            |               |                                | on the                |  |  |  |
|       |            |               |                                | properties of cement  |  |  |  |
|       | 7/07/2022  | 9 am-12pm     | Session 1: Prof. Monica More   |                       |  |  |  |
| Day 4 |            | 1.00 1.00     |                                | Special concrete      |  |  |  |
|       |            | 1.00 -4.00 pm | Session 2: Prof. Monica More   |                       |  |  |  |
| Day 5 | 08/07/2022 | 9 am-12pm     | Session: Prof. Yadnesh Patil   | Advanced              |  |  |  |
| Day S | 00/07/2022 | 1.00 -4.00 pm |                                | casting               |  |  |  |
|       |            |               |                                | methods               |  |  |  |





#### VIVA INSTITUTE OF TECHNOLOGY



#### CIVIL ENGG. DEPARTMENT



#### **Course Objectives:**

- 1. To understand the knowledge of concrete admixtures
- 2. To learn about various methods & design high grade concrete
- 3. To learn how CTM can be important in RMC plant
- 4. To learn effective is fly ash in concrete
- 5. To understand advance concrete techniques can be used

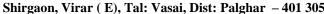
#### **Course outcomes:**

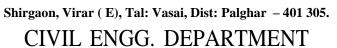
- 1. Students will be able to understand how admixtures are important
- 2. Students will be able to understand various design of high gradeconcrete
- 3. Students will be able to understand CTM importance
- 4. Students will be able know effective use of fly ash in concrete
- 5. Students will be able to analyze advance concrete techniques





### VIVA INSTITUTE OF TECHNOLOGY







#### **CO PO MAPPING**

|     |     |     |     |     | P   | rogran | 1 Outco | omes |     |      |      |      |              |
|-----|-----|-----|-----|-----|-----|--------|---------|------|-----|------|------|------|--------------|
| СО  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6    | PO7     | PO8  | PO9 | PO10 | PO11 | PO12 | CO<br>target |
| C01 | 2   |     |     |     |     |        |         |      |     |      |      |      | 2            |
| CO2 |     | 1   |     |     | 1   |        |         |      |     |      |      |      | 2            |
| CO3 |     | 2   |     |     |     | 1      |         |      |     |      |      |      | 1.5          |
| C04 |     | 2   |     | 1   |     | 1      |         |      |     |      |      |      | 2            |
| CO5 |     | 2   |     | 1   |     |        |         |      |     |      |      |      | 1.5          |
|     | 2   | 2   |     | 1.5 | 2   |        |         |      |     |      | 1    |      |              |





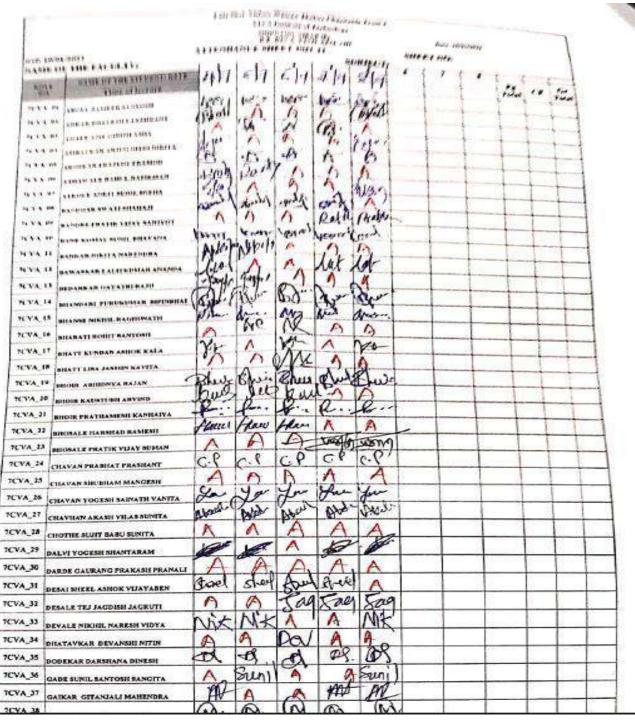
#### VIVA INSTITUTE OF TECHNOLOGY

Shirgaon, Virar (E), Tal: Vasai, Dist: Palghar - 401 305.

#### CIVIL ENGG. DEPARTMENT



#### ATTENDANCE SHEET





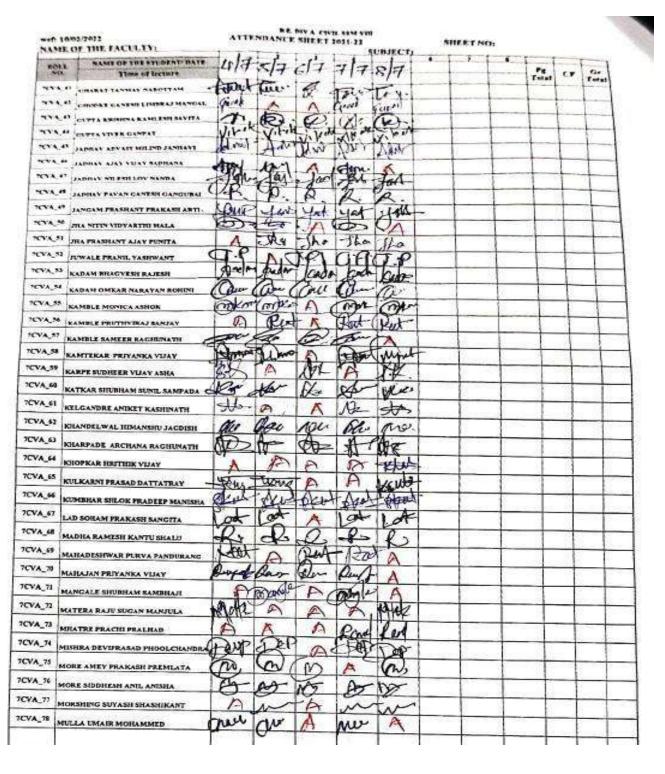


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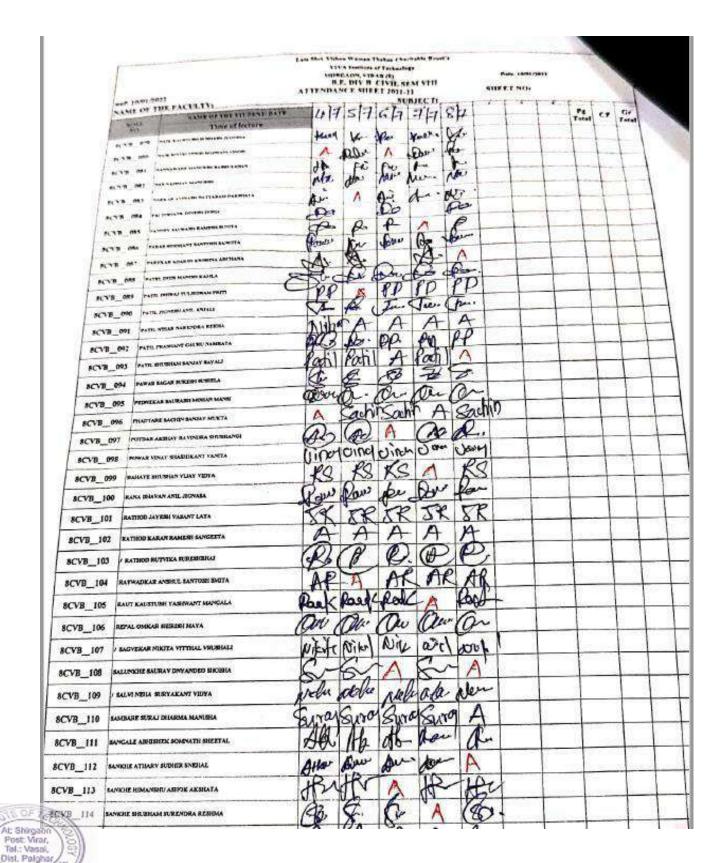


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#### CIVIL ENGG. DEPARTMENT





Vishnu Waman Thakur Charitable Trust's

#### VIVA INSTITUTE OF TECHNOLOGY

Approved by AICTE New Delhi, Affiliated to University of Mumbai <u>Shirgaon</u>, Virar (East), <u>Dist</u>: <u>Palghar</u> 401 303, Maharashtra



## Certificate of Participation

This is to certify that Dr. / Mr. / Ms. More Siddhesh has attended one week course on "Advanced Concrete Technology" organized by Civil Engineering Department from 4th July 2022 to 8th July 2022 at VIVA Institute of Technology, Shirgaon, Mumbai.

(Prof. Ramya Raju)

Co-ordinator

(Prof. Lissy Jose)

Head of Civil Engg Department

(Dr. Arun Kumar)

Principal





# Vishnu Waman Thakur Charitable Trust's VIVA Institute of Technology

Approved By AICTE, New Delhi, DTE, Govt. of Maharashtra Affiliated to the University of Mumbai Shirgaon, Virar(E.), Dist: Palghar- 401305, Maharashtra

A.Y. 2019-2020





# VIVA INSTITUTE OF TECHNOLOGY

#### Academic Year 2019 - 20

Course name: - Programming with JAVA Duration: - 24th Jun 2019 to 28th Jun 2019

Venue: - VIVA Institute of Technology Co-ordinator: - Prof. Akshata Raut

Enrolled students: - 22 Course Objective:-

- To understand the basic concepts and fundamentals of platform independent object oriented language.
- To demonstrate skills in writing programs using exception handling techniques and multithreading.
- To understand streams and efficient user interface design techniques.
- To write programs for solving real world problems using java collection framework.
- 5. To impart hands-on experience with java programming.

#### Course Outcomes: -

After successful completion of the course, the students are able to

- Use the syntax and semantics of java programming language and basic concepts of OOP.
- Develop reusable programs using the concepts of inheritance, polymorphism, interfaces and packages.
- Apply the concepts of Multithreading and Exception handling to develop efficient and error free codes.
- Able to write programs for solving real world problems using java collection frame work.

#### Course Schedule: -

| Days | Morning Session<br>(9 am to 12 pm)                             | Afternoon Session<br>(1 pm to 4 pm)             |
|------|--|---|
| 1    | Introduction to Java, Java<br>buzzword, scope, and<br>lifetime | Classes and Objects,<br>Inheritance<br>Exercise |
| 2    | Interference, Packages   | Exception Handling<br>Exercise                  |
| 3    | Strings, and Library   | Multithreading<br>Exercise                      |
| 4    | Applets  | Event Handling<br>Exercise                      |
| 5    | Layout Manager   | Quiz  |





Computer engs. department of VIVA Institute of Technology conducted a course on "Programming with JAVA" for second and third year students. Total 22 students had been enrolled for this course.

This course was conducted by Prof. Akshata Raut in order to provide basic

knowledge of JAVA programming. This was 30 hrs. certificate course. During the course students learned basic programming of JAVA. Also students learned all concepts of JAVA like interference, packages, applets and so on. Students practiced of all things concepts in the exercise session. All doubts and errors during programming were solved by the co ordinator.

Students enjoyed the course and completed it successfully.

| CO-PO Ma          | 7      | Program outer no pot |     |     |     |     |     |   |   |     |          |   |
|-------------------|--------|----------------------|-----|-----|-----|-----|-----|---|---|-----|----------|---|
| Course<br>Outcome | P01    | PO2                  | PO3 | PO4 | PO5 | P06 | PO7 | - | 9 | 0   | PO1<br>1 | 2 |
| Outcome           | 15.000 |                      |     | -   | -   |     |     |   | - |     | -        | 7 |
| CO 1              | 3      | -                    | -   | -   | •   | -   | -   |   |   |     |          | - |
| CO2               | -      | 2                    |     | -   | •   | -   | -   | - |   |     | -        |   |
| CO3               | -      |                      | 3   | 1   | -   | -   | -   | * |   | -   | _        | - |
| CO4               | -      | -                    | 3   |     | -   | •   | •   | - | - | 707 | 5        |   |
| .04               | 3      | 2                    | 3   | 3   | -   | -   |     | • | - | -   | -        |   |

| COs | 1   | ification: -  Justification  |  |  |  |  |  |  |  |  |  |
|-----|-----|--|--|--|--|--|--|--|--|--|--|
| CO1 | PO1 | ongly mapped as the students will be able to analyse the problem to be elemented using basics of Python.     |  |  |  |  |  |  |  |  |  |
| CO2 | PO2 | Moderately mapped as the students will be able to identify the technique required to implement the problem.  |  |  |  |  |  |  |  |  |  |
| CO3 | PO3 | Strongly mapped as the students will be able to find a solution for the problem identified.                  |  |  |  |  |  |  |  |  |  |
|     | PO4 | Slightly mapped as the students will be able to depict the project outcome and future scope.                 |  |  |  |  |  |  |  |  |  |
| 004 | PO3 | Strongly mapped as the students will be able to develop design methodologies for the system to be developed. |  |  |  |  |  |  |  |  |  |



Ashwini Save HOD, Computer Engg.



Course Name:- Programming with JAVA Course Duration: - 24th Jun to 28th Jun 2019

Academic Year 2019 - 20

|         |                             | 24%                   | /2119               |                                  | Indance Sheet                   |                                  |                      |                    |                     |                    |          |
|---------|-----------------------------|-----------------------|---------------------|----------------------------------|---------------------------------|----------------------------------|----------------------|--------------------|---------------------|--------------------|----------|
| Sr. No. | Name of Student             | Morning               | Afternoon           |                                  | 615010                          | 260                              | 62919                | 27/0               | U2019               | 180                | 6/2019   |
| 1       |                             | Session<br>(9 to 12 ) | Session<br>(1 to 4) | Morning<br>Session<br>(9 to 12 ) | Attemson<br>Session<br>(1 to 4) | Marring<br>Session<br>(9 to 12 ) | Afternoon<br>Session | Morning<br>Session | Atempora<br>Session | Merning<br>Session | Afternoo |
|         | GHARAT KAKAN KISHOR         | Noso                  | Yarun.              | Keeps-                           | KOSS                            | Korso                            | (1104)               | (9 to 12)          | (1 to 4)            | (9 to 12)          | (1 to 4) |
|         | PATEL JAY MAHESH PRAGNA     | IALA                  | PJAY                | PJAN                             | 1                               | 1                                | KONO                 | Kosa               | Koro                | Fores              | KOW      |
| 3       | SAKRE DISHA SANJAY          | DS.                   | DS.                 | -                                | P.JAY                           | 674                              | PJM                  | PJA                | 8. JAY              | 97Ay               | PJA      |
| 4       | PURCHIT DHEERAJ DINESH      | 10                    | (00)                | DS                               | 122                             | DS                               | DIC                  | -23                | 25.                 | D.5                | D.S      |
| 5       | TIRODKAR PRATHMESH GAJANAN  | Promone               |                     | (1.5)                            | (80)                            | 30                               | 15D)                 | 20                 | (80)                | (PD)               | PP       |
| 6       | BARIA KHYATI RAJESH         | 200                   | 100                 | 1 Lordin                         | Francis                         | Drive                            | Prower               | - Promp-           | grow                | from               | 8101     |
| 7       | HADPE SAURABH ABAJI         | Derica                | (DECVA              | -71-                             |                                 | Charica                          | (PBOK)               | 10 BOK             | ( BBOH              | CO Priva           | Per      |
| 8       | DARADE HITESH SUBHASH       | Sindpe                | Page                | Spicade                          | Spoder                          | Specie                           | Store                | Stades             | Sugar               | Stok               | Species  |
| 9       | MALIASHVINIBHATU            | teiten                | Hillyh              | 1 17 5000                        | Hitch                           | 1445                             | Hitch                | FlityL             | Hifgh               | rite               | Mits     |
| 10      |                             | A Mah                 | H- Moli             | A-Mali                           | A-mak                           | Amali                            | A-Maki               | A-Mali             | A Mali              | p-mati             | A mal    |
| -       | GHADSHI NIKHIL PRASHANT     | HINKHIL               | HiKPI               | HIRPH                            | Mikhit                          | Mikkel                           | Hikhal               | _A-                | -A-                 | MIKKED             | MIEN     |
| 11      | DUBEY CICVINDNARAYAN RAMESI | (Gamber               | G-Duky              | G-Dych                           | G Duch                          | G. Duboy                         | 6 Pubs               | ( Dule             | G. pubs             | GAVA               | 6 24     |
| 32      | ISWALKAR ABHISHEK ASHOK     | (H)                   | (A2)                | (D).                             | (AI)                            | (02)                             | (A-1)                | (A2)               | (A)                 | A                  | 00       |
| 13      | JADHAV HRUCHITA BALU        | 44Jelle               | HJadh               | Hole                             | HJallio                         | A Hed K                          | hijadh               | FOTER              | HJETHE              | HIGH               | HJad     |
| 14      | JADHAV RUTUJA DEVDAS        | R.J.                  | 63                  | 5.3                              | RJ                              | 4.3                              | 8.3                  | 22                 | 6.3                 | 8.3.               | 2.3.     |
| 15      | JHA SHWETA KRISHNACHANDRA   | School                | Stha                | SJha                             | Stha                            | Silva                            | Siha                 | Siha               | Stha                | SONG               | STha     |
| 16      | KADAM ATHARY AMIT           | N.K.                  | V.K-                | A.K                              | A.Y.                            | OK                               | A.K.                 | U.K                | D.K                 | AK                 | A.K      |
| 17      | KADU DEVESHREE              | Dkady                 | Nade                | Dirary                           | DKad                            | Dragy                            | Adrah.               | Drade              | Dkal                | -Dtole             | Dka      |
| 18      | KOKTHARKAR SUYASH SAGAR     | Ske                   | _4-                 | Guer                             | SKW                             | Skar                             | Skar                 | Solver             | cku                 | -4-                | A -      |
| 19      | KORE SHUBHAM                | SK                    | SR                  | Sk                               | SE                              | SK                               | SK.                  | SK                 | SE                  | S.                 | SK       |
| 20      | LIMBAD DEEP DHARMENORA      | Dece.                 | Dece                | Deep                             | Deep.                           | Deep                             | Desp                 | Dup                | Deep                | pesp               | Decp     |
| 21      | WAHADIK HRTIK SACHIN        | Hem                   | Hum                 | Hum                              | Ham                             | Hrm                              | Hom                  | Hm                 | Hom                 | Ham                | mm       |
| 22      | PATE CHRAG PRAKASH          | COUNT                 | Cealil              | COLIN                            | CPaH                            | Coahi                            | Cpali                | Cpati              | Cpah                | COWIT              | (pa      |



Late Shri. Vishnu Waman Thakur Charitable Trust's

#### VIVA Institute of Technology

Approved By AICTE. New Delhi, DTE, Govt. of Maharashtra Affiliated to the University of Mumbai geon, Virar(E.). Dist: Palgher-401305, Maharashtra

## CERTIFICATE

OF PARTICIPATION

ATHARY AMIT KADAM

This is to certify that \_ attended a one-week Program on "Programming with JAVA" organized by the Computer Engineering Department Of VIVA Institute of Technology from 24th June to 28th June 2019



Prof. Ashwini Save H.O.D

Dr. Arun Kumar Principal





#### Academic Year 2019 - 20

Course name: - Machine Learning and Deep Learning

Duration: - 24th June to 28th June 2019 Venue: - VIVA Institute of Technology Co-ordinator: - Prof. Sunita Naik

Enrolled students: - 51

#### Course Objective: -

- To understand the basic theory underlying machine learning.
   To make students comfortable with tools and techniques required in handling large amounts of datasets
- Analyse the concept of neural networks for learning linear and non-linear activation functions
- This will help students in developing skills required to gain experience of doing independent research and study.

#### Course Outcomes: -

After successful completion of the course, the students are able to

- 1. Appreciate the importance of visualization in the data analytics solution
- 2. Apply structured thinking to unstructured problems
- 3. Understand a very broad collection of machine learning algorithms and problems
- 4. Learn algorithmic topics of machine learning and mathematically deep enough to introduce the required theory
- 5. Develop an appreciation for what is involved in learning from data.

#### Course Schedule: -

| Session  | Time                       | Topic   |
|----------|----------------------------|---|
|          |                            | ropic   |
| _        | 24 <sup>th</sup> June 2019 |   |
| 1        | 9.30 - 11.00               | Introduction                                  |
| I        |                            | Key Note Address                              |
| 2        | 11.15-12.30                | Basics of Machine learning and Deep Learning  |
| 3        |                            | ANN and CNN concepts                          |
| Day 2: - | 25 <sup>th</sup> June 2019 |   |
| 1        | 9.30 - 11.00               | Introduction to python using JUPYTER NOTEBOOK |
| 2        | 11.15-12.30                | Machine learning Algorithms                   |
| 3        | 1.15 - 4.30                | Data Analytics I and II                       |
|          | 26 <sup>th</sup> June 2019 |   |
| 1        | 9.30 - 11.00               | Deep Learning and its applications            |
| 2        | 11.15-12.30                | Word Embedding in NLP                         |



| 3        | 1.15 - 4.30               | Deep Learning Techniques with respect to Natural Language<br>Processing (NLP) in Python |
|----------|---------------------------|---|
| Day 4 :- | 27 <sup>m</sup> June 2019 |   |
| 1        | 9.30 - 11.00              | Introduction to ROata Frames, Importing and Exporting data,<br>Data manipulation)       |
| 2        | 11.15-12.30               | prediction with Convolutional Neural Networks   |
| 3        | 1.15 - 4.30               | Applications of Deep Neural networks  |
| Day 5 :- | 28th June 2019            |   |
| 1        | 9.30 - 11.00              | Recurrent Neural Networks with respect to NLP in Python                                 |
| 2        | 11.15-12.30               | Prediction with Convolutional Neural Network with respect to<br>NLP in Python           |
| 3        | 1.15 - 4.30               | Techniques used in NLP, Syntactic Analysis, Semantic Analysis<br>Quiz                   |

#### Report:

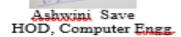
Computer engg, department of VIVA Institute of Technology conducted a course on "Machine Learning and Deep Learning" for Last year students. Total 51 students had been enrolled for this course.

This course was conducted by Prof. Sunita Naik in order to provide knowledge of Machine learning and Deep Learning.

Machine learning is a sub-domain of computer science which evolved from the study of pattern recognition in data, and also from the computational learning theory in artificial intelligence. Deep learning allows computational models to learn by gathering knowledge from experience. Complex concepts can be learnt by deep learning approach due to its hierarchical conceptualization. Deep learning has significantly benefitted for the state-of-the-art in many recurring domains in the modern world. Students enjoyed the course and completed it successfully.

#### CO-PO Mapping: -

| Course  |     | Program Outcome |     |     |     |     |     |     |         |          |          |          |  |  |  |
|---------|-----|-----------------|-----|-----|-----|-----|-----|-----|---------|----------|----------|----------|--|--|--|
| Outcome | POI | PO2             | PO3 | PO4 | PO5 | PO6 | PO7 | POS | PO<br>9 | PO1<br>0 | PO1<br>1 | PO1<br>2 |  |  |  |
| CO 1    | 3   | 2               | -   | -   | -   | -   | -   | -   | -       | -        | -        | -        |  |  |  |
| CO2     | -   | 2               | 3   | -   | -   | -   | -   | -   | -       | -        | -        | -        |  |  |  |
| CO3     | 3   | 2               | -   | -   | -   | -   | -   | -   | -       | -        | -        | -        |  |  |  |
| CO4     | -   | -               | 3   | 2   | -   | -   | -   | -   | -       | -        | -        | -        |  |  |  |
| CO 5    | -   | -               | -   | 3   | -   | -   | -   | -   | -       | -        | -        | -        |  |  |  |





# Bridge course attendance



# VIVA INSTITUTE OF TECHNOLOGY



#### Computer Engineering Department

#### BE Attendance Sheet [2019-20]

Semester | VI

Week/Month

Subject Incharge:

Subject

| 24 M June | - | 2,840 | June |
|-----------|---|-------|------|
|-----------|---|-------|------|

| Hell No | Name                         | 2.4106   | 241 06   | 25/06    | 20/00   | 27/06  | 28/00   | Total |
|---------|------------------------------|----------|----------|----------|---------|--|---------|-------|
| 1       | ARGANE SHASHANK NITIN        | NES.     | A55.     | 15.      | AC      | A.   | B.      |       |
| 1       | BANGURA SHESHTI RAJESH       | Harell   | Bruh     | Jones M  | A Lord  | ASWA!  | Pron.   |       |
| 3       | BANGURAVISHAL]AGANNATH       | VI.      | VE.      | 1        | VB.     | Ws.  | Jb      |       |
|         | BBOVAD SHIVANI MANDIDAR      | 7        | 76       | A        | Se.     | 24.  | 21      |       |
| 4       | DILLAVA PALLAVI JOGA         | Pb       | Ph       | 61       | Pb      | r <sub>b</sub>   | (b      |       |
| ٨       | CHASKAR RUTUJA KAMLAKAR      | +        | P2.      | 00.      | do.     | 1  | D .     |       |
| 7       | CHAUDHARI SUGAM MAHESH       | Plym     | Roger    | Sw.      | Pugar.  | San-   | Sage.   |       |
|         | CHAVAN SNEHAL HABURAD        | A        | A.       | -10-     | 1       | 1  | 10      |       |
| 9       | CHOOGULE ADDISHIBE AND       | Accorded | -NEWS    | May .    | spegal. | Under.   | Ngh.    |       |
| 10      | DHANDE AMETTRAKUR            | -AD.     | QQ.      | -CM      | an-     | AD   | AP      | ſ     |
| 11      | DUBEY STRWETA UMASHANKAR     | A        | D.       | 800      | 8D.     | 90.  | 200     |       |
| 12      | GAWAD PRATIK LAXMAN          | - Paik   | TROLIE   | Tarlik   |         | EPRON  | Tort k  |       |
| 13      | GUPTA DEEPAKKUMAR ACHCHHELAL | (A)      | - 1      | b-       | 1       | 4  | 1       |       |
| 14      | GEPTA MOHITKUMARJAYPRAKASH   | Mi.      | M2+.     | dus .    | MZ      | de.  | Mi      |       |
| 15      | GUPTA PRAKASH VIJAYSHANKAR - | TEF      | Xa       | 100      | 10.     | To.  | 80      |       |
| 16      | GUPTA SHYAM UMBSEPHASAD      | Sham     | 5 hyan   | chagar   | Shyo-   | A-   | Shya-   |       |
| 17      | JADHAV PRADNESH SANJAY       | Black    | F. Wall  | Tanhot   | Parlod  | The second secon | Estat   | \$    |
| 18      | JADHAV PRADNYA JAYESH        | Todo     | CDI      | Tade     | Padry   | Foder  | table   |       |
| 19 "    | JAWALE KHUSHBOD              | E.       | Jk.      | 7/2      | A       | 71.  | Th      |       |
| 20      | 109HI ADITYA BHARAY          | de       | The      | -dp      | SHE     | 11   | ab.     |       |
| 21      | JOSHI KIRTI MANOJ            | Kjons    | KAOSH    | KAPSh    | Kiash   |  | A_      |       |
| 22      | KALE RAHUL RAGSAHEB          | -1       | -1       | A.       | A       | A  | <u></u> |       |
| 21      | KAMBILI KAUSTUBN DEEPAK      | taustu   | Phulm    | tautule  | Acadel  | -tautos  |         |       |
| 24      | KANSARA MANTHAN SANJAY       | 15000    | Mosse    |          | Mik     | stran  | Mus     |       |
| 25      | KORE SWIKILUTI JAGDISHI      | 4        | FE.      | B        | 10.     | 18   | 18      |       |
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| 29      | MAITY PALLAVI KAMAL          | MP -     | MP       | AP.      | mo.     | NAP  |         |       |
| 30      | MALGAONKAR HENANGI SUDHIR    | Mang     | nut leng |          | Marg    | NAMOST   | 34.48   |       |
| 31      | HARTHAK HARSH PANKAJ         | A        | -1       | A        | 1       | 1  | A       |       |
| 32      | MILATRE RAJ VIKAS            | A        | A        | 4        | A       | 1  | A-      |       |
| 33      | MISHIRA RAHULINDRASEN        | Paleka   | Pucha    | Pruner   | Purno   | Person   | Pages.  |       |
| 9       | HOGAVEERA PRAJWAL MUTTHA     | and      | Dec A    | Denistal | Program | Projun   | 1       |       |



# Computer Engineering Department



### BE Attendance Sheet [2019-20]

Semester: VI

Week/ Month:

Subject:

Subject Incharge (

| Hell No | Name                      | Typy-boom | faite   | Date   | flate    | Date    | Corroll | Tetal |
|---------|---------------------------|-----------|---------|--------|----------|---------|---------|-------|
| 35      | NIKAM ABBISHEKSHASHIKANT  | NA-       | W.      | pr.    | tro.     | M       | TW      |       |
| 36      | PANGA RAHUL BARU          | (Sand     | Com     | Robert | Rahud    | Rows    | Cal.    |       |
| 37      | PANGAM PRANITA PANDURANG  | tog~      | Ferges  | large  | Kayp     |         | tope    |       |
| 38      | PARAB ADITYA RAVINDRA     | MP.       | -AVE    | 1275   | Br.      | AND     | 100     |       |
| 39      | PATEL HARDIK MOHAN        | Hodel     | Hotel.  | Hectal | . Hatel  | Histor  | Hatel . |       |
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| +3      | PATIL PARESH YASHWANT     | talet.    | Testala | trali. | Pedi -   | Frall.  | TRAY    |       |
| 4Z      | PATIL HUTUJA SANJAY       | -86N      | Park    | fre 1  | Jel )    | Fail    | OH!     |       |
| 33      | PATH, SAURABH ARUN        | A.        | -10-    | A      | -4-      | A       | A       |       |
| 44      | PATIL SHIVAM RAVINDRA     | 4         | apab'   | FOTT ! | PAN.     | 9511    | 251     |       |
| 45      | FAWAR MANISH ANAND        | Maria     | TORIST  | char.  | bet 3.   | PART    | pour    |       |
| 46      | PAWAIT MAYUR MILIND       | A         | A-      | -4-    | A-       | A       | Δ_      |       |
| 47      | PAWAR DEKARSHA PRAYIN     | UP        | UP_     | 邓      | UP       | Ne      | P       |       |
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| 57      | TALELE TANMAY LILADHAR    | TET       | U       | UT     | 15       | TI      | 10      |       |
| 50      | TARE ADITI DEEPAK         | TROLA     | han!    | TARANI | Taditi . | Trabti  | Patit.  |       |
| 59      | THAKUR RUCHA VIVEK        | Sive      | Dele:   | Dine   | De C     | 200 E   | Acher   | -     |
| 60      | VAGAL SANKET DILIP        | A         | A       | A-     | A        | 1       | A       |       |
| 61      | VANJARE DMKAR SANJAY      | John      | This    | Soules | Sour     | Souls   | Louis   | 6     |
| 62      | VYAS RAJ BANWARI          | Trad !    | Pal     | Rai    | Roj      | Paj     | 701     |       |
| 63      | YADAY RAKESH              | A         | 1       | A      | Δ        | A       | A       |       |
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# VIVA INSTITUTE OF TECHNOLOGY COMPUTER ENGINEERING DEPARTMENT

### Academic Year 2019 - 20

Course name: - Learning with Python Duration: - 24<sup>th</sup> Dec to 31<sup>st</sup> Dec 2019 Venue: - VIVA Institute of Technology Co-ordinator: - Prof. Dyaneshwar Bhabad

Enrolled students: - 15

### Course Objective:-

1. To create fully functional Python programs

2. To understand user input

3. To learn about loop structures and conditionals

4. To work with Python file handling

### Course Outcomes: -

After successful completion of the course, the students are able to

- 1. Describe the basics of the Python programming language
- 2. Install Python and write first program
- 3. Use variables to store, retrieve and calculate information
- 4. Utilize core programming tools such as functions and loops
- 5. Explain the basic principles of Python programming language

#### Course Schedule: -

| Days | Morning Session<br>(9 am to 12 pm)      | Afternoon Session<br>(1 pm to 4 pm)            |  |  |  |  |
|------|---|--|--|--|--|--|
| 1    | Introduction                            | Install Python and basic python program        |  |  |  |  |
| 2    | Basic syntax , variables and<br>strings | nd Lists, Tuples and Dictionaries.<br>Exercise |  |  |  |  |
| 3    | If-else statements, For loop            | While loop, Pass, break and continue Exercise  |  |  |  |  |
| 4    | Understanding Functions                 | File handling - opening and reading            |  |  |  |  |
| 5    | Classes and Objects                     | Exercise<br>Quiz                               |  |  |  |  |





# Vinhou Warner Thakur Charitable Trust's VIVA INSTITUTE OF TECHNOLOGY COMPUTER ENGINEERING DEPARTMENT

## Report:-

Computer engg. department of VIVA Institute of Technology conducted a course on "Learning with Python" for second and third year students. Total 15 students had been enrolled for this course.

This course was conducted by Prof. Dyaneshwar Bhabad in order to provide basic knowledge of Python programming. This was 30 hrs. certificate course.

During the course students learned how to install Python. They learned all the basic of python like variables, lists, strings. Also students study conditional statements and loops. This course also cover functions and file handling.

Students enjoyed the course and completed it successfully.

# CO-PO Mapping: -

| Program Outcome |     |                         |                                     |       |       |       |            |    |     |     |     |  |  |
|-----------------|-----|-------------------------|-------------------------------------|-------|-------|-------|------------|----|-----|-----|-----|--|--|
| PO1             | P02 | PO3                     | P04                                 | PO5   | P06   | P07   | P08        | PO | P01 | PO1 | PO1 |  |  |
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# CO PO Justification: -

| COs | POs | Justification   |
|-----|-----|---|
| CO1 | PO1 | Strongly mapped as the students will be able to analyse the problem to be implemented using basics of Python. |
| CO2 | PO1 | Strongly mapped as the students will be able to identify the technique required to implement the problem.     |
| CO3 | PO3 | Slightly mapped as the students will be able to find a solution for the problem identified.                   |
| C04 | PO3 | Strongly mapped as the students will be able to find the relevant tools to implement the problem stated.      |
|     | PO4 | Moderately mapped as the students will be able to find a feasible solution for the problem designed.          |
| CO5 | P02 | Strongly mapped as the students will be able to develop design methodologies for the system to be developed.  |

b.n.



Course Name: - Learning With Python Course Duration: - 24th Dec to 31st Dec 2019

Academic Year 2019 - 20

| ir.No. | Marrie of Student   | 244        | 22019        | Alten    | Altendance Sheet |                       |                                    |                    |                    |                     |                    |
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| *      | YADAV DELP MAHENDRA   | -          | t-ia.        | Knan     | 4mm              | dian                  | Knan                               | N-on               | (1 to 4)           | Seasion<br>(Sto 11) | Deseion<br>(Tip 4) |
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|        | VAGHASIYA TUSHAR MANSUKH  | (Vaguera   | Novoye       | 5        |                  | 7 1/15                | The                                | THE                | Eller              | DAY                 | Salve              |
|        | PARIHAR RAHUL MUKESH  | Pahale     | Kalul        | 0.1      | Tycgida          | Nogory                | Liegeling                          | Megury             | Lograny            | Tombe               | horote             |
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| *      | KHARATMOL HRITIK CHANDRAKANT  | 1K)        | 1K           | P.D.     | M                | DE                    | Sp                                 | DE                 | DA                 | O                   | Ok                 |
| 11     | MEDHEKAR PRATHMESH RALARAN  | Medheb     |              | 5        | H                | JK-                   | H-                                 | H                  | 111                | 141                 | 14                 |
| "      | MHETRE BALAJI SUBHASH   |            |              | Thurs.   | Track Mary       | Rober                 | -11-                               | ( alen             | media              | 0                   | 3                  |
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Late Shri. Vishnu Waman Thakur Charitable Trust's

### VIVA Institute of Technology

Approved By AICTE, New Beihl, DTE, Govt. of Meharashtra Affiliated to the University of Mumbal Shirgaon, Virar(E.), Dist: Palghar 401305, Meharashtra

# CERTIFICATE

OF PARTICIPATION

This is to certify that \_\_\_\_ CHIRAG PRAKASH PATIL

attended a one-week Program on "Learning with Python" organized by the Computer Engineering Department Of VIVA Institute of Technology from 24th Dec to 31st Dec 2019.



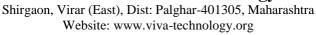
Prof. Ashwini Save H.O.D Dane.

Dr. Arun Kumer Principal





#### **VIVA Institute of Technology**





### Department of Electronics and Telecommunication Engineering

# Name of Course:

# Nirman-Arduino Workshop Duration: 30 hours/ 1 week

#### Day 1- Embedded System Basic (Working, Input devices & Programming Code):

#### Session 1: Introduction, Hardware & Basic Programming

- ✓ Introduction to basic of embedded system
- ✓ Introduction & explanation of microcontrollers
- ✓ Explanation of AVR ATMega 328 microcontroller
- ✓ Explanation of Arduino board & programming
- ✓ Basic Arduino based programs for interfacing i/o devices

#### Session 2:

- ✓ Introduction to output devices interfacing
  - Project 1 : LED blinking
- ✓ Introduction to input devices interfacing
  - Project 2: Push button interfacing
- ✓ Rotary encoder interfacing
  - Project 3 & 4:
    - More LEDS switching sequentially based on encoder input
    - ii. Bar graph sort of LED switching based on encoder input

#### Quiz

#### Day 2 - Digital & Analog Input Ouput Devices Interfacing

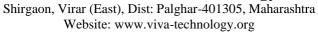
Session 3:

- ✓ Explanation for digital input devices
- ✓ Explanation for analog input devices





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### Department of Electronics and Telecommunication Engineering

- ✓ Introduction to temperature sensor and its working
- ✓ Basic programming for interfacing temperature sensor
  - **Project 5 :** Temperature sensor using LM35
- ✓ Introduction to relay
- ✓ Basic programming for interfacing relay
  - Project 6: Automatic temperature controller system
     (soldering iron temperature control\_simple on/off)
- Session 4:
- ✓ Introduction to LDR sensor and its working
- ✓ Basic programming for interfacing LDR sensor
  - **Project 7 :** Light controlled switch
- ✓ Introduction to IR sensor and its working
- ✓ Basic programming for interfacing IR sensor
  - Project 8: Detect presence of object and blink LED accordingly

#### Quiz

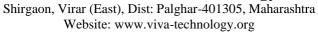
#### Day 3 - Advance Sensor (Ultrasonic, Hall Effect) and Serial Communication

- Session 5:
- ✓ Introduction to ultrasonic sensor and its working
- ✓ Basic programming for interfacing of ultrasonic sensor
- ✓ Programming and conversion concept for the measurement
- ✓ Formulas for speed, distance & time for distance measurement using ultrasonic sensor
  - Project 9 : Distance Finder / Range Finder usingUltrasonic
- ✓ Explanation of working of stepper motor & motor driver
- ✓ Interfacing of stepper motor with motor driver & basic motor control program
  - Project 10 : Stepper Motor Rotation
- ✓ Introduction to Hall Effect sensor and its working
- ✓ Basic programming for interfacing Hall Effect sensor





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### Department of Electronics and Telecommunication Engineering

- Project 11 : Stepper Motor Speed Detection
- Session 6: ✓ Introduction to serial communication & its significance in embedded system
  - ✓ Explanation of program for establishing serial communication for data transfer between computer & Arduino
    - Project 12: Send temperature data and distance measured by ultrasonic to serial port

#### Quiz

#### Day 4 - Visible Output, Keypad

- Session 7: ✓ Introduction to a 7-Segment LED display
  - ✓ 7-segment LED display interfacing & basic data display program
    - **Project 13 :** Temperature indicator on 7 segment
  - ✓ Introduction to LCD (16 X 2) & its working
  - ✓ LCD Interfacing & Basic data display program
    - Project 14 : Display temperature on LCD
- Session 8: ✓ Introduction to matrix keypad & its working
  - ✓ Concept of data line reduction & matrix concept
  - ✓ Interfacing LCD & matrix keypad with Arduino
    - Project 15: LCD based GUI for user password registration and monitor

#### **Project 16** Smart Door System

#### / Product

### Day 5 - Industry 4.0 and Project Guidance

- Session 9: ✓ Tips for Project making
  - ✓ Steps for designing a project
  - ✓ Schematic designing tips
  - ✓ Project development phase



115









# Department of Electronics and Telecommunication Engineering

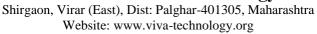
- ✓ Project functional block programming & output
- ✓ Doubt discussion
- Session 10:
- ✓ Industry 4.0: The Fourth Industrial Revolution
- ✓ Certificates & Project Letters distribution for competition

#### **Feedback**





#### **VIVA Institute of Technology**





### Department of Electronics and Telecommunication Engineering

# Report

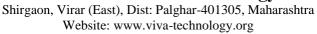
**Nirman** is to nurture and organize the young change makers to solve various societal challenges. It is an educational process to train the students to take up crucial issues and problems in the society. The focus in this course is to enable and equip the students to immediately start building Arduino enabled products. This was a 30hrs/1 week certificate course.

This 5 days Bridge course was conducted by Prof. Nutan Malekar from 1<sup>st</sup> July 2019 to 5<sup>th</sup> July 2019 in order to provide basic knowledge to second year and third year students about an **Arduino** and how it works. It helped students to learn programming concepts using **C** and **C**++ along with Arduino specific programming. The students understood how to use a **wide variety of hardware and components** and prototype projects using a breadboard.





#### **VIVA Institute of Technology**





### Department of Electronics and Telecommunication Engineering

# Course Objectives

#### **Course Objectives**

- **♣** To understand what an Arduino is and how it works
- ♣ To learn how to use an Arduino safely
- → To program Arduino using code that have written in the Arduino IDE (Integrated Development Environment)
- ♣ To learn programming concepts using C and C++ along with Arduino specific programming
- ♣ To understand best practice concepts for programming and prototyping
- ♣ To use a wide variety of hardware and components and prototype your projects using a breadboard
- **♣** To build innovative project with Arduino

# **Course Outcomes:**

- > Students will be able to get new product or service ideas by hearing about needs in industry.
- > Students will be able to receive large volumes of usable content within a compressed amount of time.
- > Students will be able to get intensive exposure to a topic through presentations and discussions.
- > Students will be able to achieve confidence and motivation for organising different events that improves the personality of a student.
- > Students will be able to achieve confidence and motivation for participating in different events that improves the personality of a student.
- > Students will be able to develop a connection that might help with future employment.









# Department of Electronics and Telecommunication Engineering

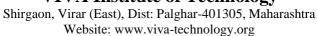
# **CO-PO MAPPING**

| Course  |         |         |         |         |         | ]       | Program | o Outco | me      |          |          |                    |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|--------------------|
| Outcome | PO<br>1 | PO<br>2 | PO<br>3 | PO<br>4 | P0<br>5 | PO<br>6 | PO 7    | PO<br>8 | PO<br>9 | PO<br>10 | PO<br>11 | CO<br>Target level |
| CO1     | 2       | -       | -       | -       | -       | -       | -       | -       | -       | -        | -        | 2                  |
| CO2     | -       | 2       | -       | -       | _       | -       | -       | -       | -       | -        | -        | 2                  |
| CO3     | 2       | -       | -       | -       | -       | 2       | -       | -       | -       | -        | -        | 2                  |
| CO4     | 2       | -       | -       | -       | -       | -       | -       | -       | -       | -        | -        | 2                  |
| CO5     | -       | 2       | -       | -       | -       | -       | -       | -       | -       | -        | -        | 2                  |
| CO6     | -       | -       | -       | -       | 2       | -       | -       | -       | -       | 1        | 1        | 1.5                |
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### Department of Electronics and Telecommunication Engineering

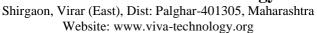
# **Attendance Sheet:**







#### **VIVA Institute of Technology**





### Department of Electronics and Telecommunication Engineering

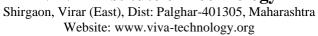
# **Model Certificate**







### **VIVA Institute of Technology**





## Department of Electronics and Telecommunication Engineering

# Name of Course: OOP Bridge Course

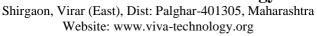
Duration: 30 hours

| Module | Contents   | Hours |
|--------|--|-------|
|        | Introduction Introduction to java, java buzzword, data types, dynamic                    |       |
|        | initialization, scope and life time operators, control statements, arrays, type          |       |
|        | conversion and casting, finals & blank finals.   |       |
|        | Classes and Objects: Concepts, methods, constructors, usage of static, access            |       |
| 1      | control, this key word,  |       |
| 1      | Garbage collection, overloading, parameter passing mechanisms, nested                    | 8     |
|        | classes and inner classes.   |       |
|        | Inheritance: Basic concepts, access specifies, usage of super key word,                  |       |
|        | method overriding, final methods   |       |
|        | and classes, abstract classes, dynamic method dispatch, Object class.                    |       |
|        | <b>Interfaces:</b> Differences between classes and interfaces, defining an interface,    |       |
|        | implementing interface,  |       |
|        | Variables in interface and extending interfaces.   |       |
| 2      | Packages: Creating a Package, setting CLASSPATH, Access control                          | 8     |
| 2      | protection, importing packages.  |       |
|        | Exception Handling: Concepts of Exception handling, types of exceptions,                 |       |
|        | usage of try, catch, throw, throws   |       |
|        | and finally keywords, Built-in exceptions, creating own exception sub classes.           |       |
|        | <b>Strings:</b> Exploring the String class, String buffer class, Command-linear          |       |
|        | arguments.   |       |
|        | Library: Date class, Wrapper classes.  |       |
|        | Multithreading: Concepts of Multithreading, differences between process                  |       |
| 3      | and thread, thread life cycle,   | 8     |
|        | Thread class, Runnable interface, creating multiple threads, Synchronization,            |       |
|        | thread priorities, inter   |       |
|        | Thread communication, daemon threads, and deadlocks.                                     |       |
|        | I/O Streams: Streams, Byte streams, Character streams, File class, File                  |       |
|        | streams.   |       |
|        | <b>Applets</b> : Concepts of Applets, life cycle of an applet, creating applets, passing |       |
|        | parameters to applets, accessing remote applet, Color class and Graphics                 |       |
| 4      | <b>Event Handling</b> : Events, Event sources, Event classes, Event Listeners,           | 6     |
|        | Delegation event model, handling   |       |
|        | events.  |       |





#### **VIVA Institute of Technology**





### Department of Electronics and Telecommunication Engineering

# Report

**Duration: 8th Jul 2019 to 15th Oct 2019.** 

Venue: VIVA Institute Of Technology, Shirgaon.

Electronics & Telecommunication Engineering Department of VIVA Institute of Technology organized a 30 hours' certificate course on "OOP Bridge Course" during 8<sup>th</sup> Jul 2019 to 15<sup>th</sup> Oct 2019.

The workshop was basically aimed to provide basic knowledge to second year of semester 4– EXTC students of JAVA language which was conducted by **Mr. Kushal Suvarna sir** as the speaker who guided the participants.

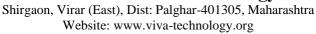
The event was a success with very positive feedback from the participants. The speech by the Principal **Dr. Arun Kumar** was an inspiring one that covered the broad future scopes of the field. The Principal being an encouraging one who said that for such events where in student d evelopment is involved, he will always be supportive. In the speech given by **Mrs. Archana Ingle**, H.O.D of EXTC, students gained an idea of how this workshop can be utilized to take creative projects in the field of software.

**Mr. Kushal Suvarna** sir introduced themselves to the participants and enlightened them about the fantastic and intriguing field of **JAVA software** and narrated their various achievements and their future plans.





#### **VIVA Institute of Technology**





### Department of Electronics and Telecommunication Engineering

# Course Objectives

- 1. To understand the basic concepts and fundamentals of platform independent object oriented language.
- 2. To demonstrate skills in writing programs using exception handling techniques and multithreading.
- 3. To understand streams and efficient user interface design techniques.

# **Course Outcomes:**

After successful completion of the course, the students are able to

- ➤ 1. Use the syntax and semantics of java programming language and basic concepts of OOP.
- ➤ 2. Develop reusable programs using the concepts of inheritance, polymorphism, interfaces and packages.
- ➤ 3. Apply the concepts of Multithreading and Exception handling to develop efficient and error free codes.
- ➤ 4. Design event driven GUI and web related applications which mimic the real word scenarios.









# Department of Electronics and Telecommunication Engineering

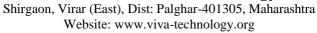
# **CO-PO MAPPING**

| Course  |         | Program Outcome |         |         |         |         |      |         |         |          |          |                    |  |
|---------|---------|-----------------|---------|---------|---------|---------|------|---------|---------|----------|----------|--------------------|--|
| Outcome | PO<br>1 | PO<br>2         | PO<br>3 | PO<br>4 | P0<br>5 | PO<br>6 | PO 7 | PO<br>8 | PO<br>9 | PO<br>10 | PO<br>11 | CO<br>Target level |  |
| CO1     | 2       | -               | -       | -       | -       | -       | -    | -       | -       | -        | -        | 2                  |  |
| CO2     | -       | 2               | -       | -       | -       | -       | -    | -       | -       | -        | -        | 2                  |  |
| CO3     | 2       | -               | -       | -       | -       | 2       | -    | -       | -       | -        | -        | 2                  |  |
| CO4     | 2       | 1               | -       | -       | -       | -       | -    | -       | -       | 1        | -        | 2                  |  |
|         |         |                 |         |         |         |         |      |         |         |          |          |                    |  |
|         | 2       | 2               | _       | _       | 2       | 2       | _    | -       | -       | -        | -        |                    |  |

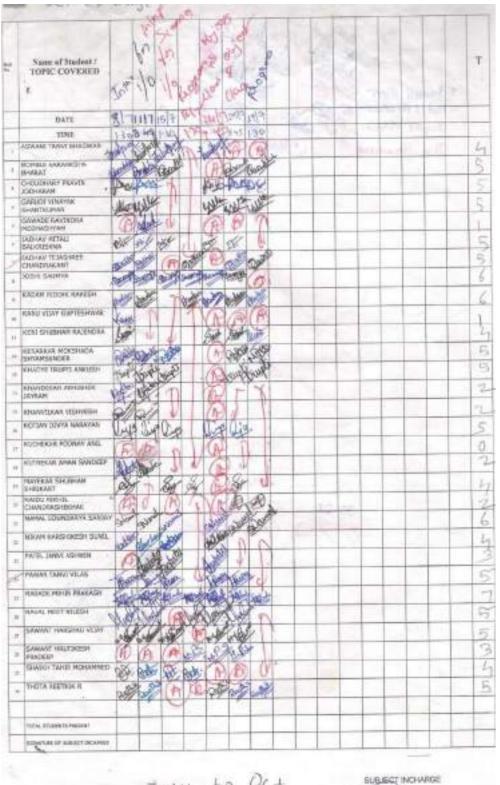


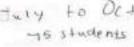


### **VIVA Institute of Technology**















### **VIVA Institute of Technology**



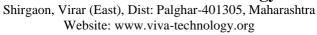
Shirgaon, Virar (East), Dist: Palghar-401305, Maharashtra Website: www.viva-technology.org







#### **VIVA Institute of Technology**



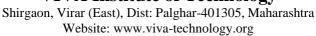








#### VIVA Institute of Technology



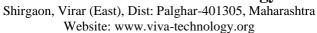








#### **VIVA Institute of Technology**



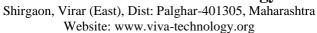








### **VIVA Institute of Technology**





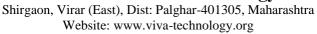
### Department of Electronics and Telecommunication Engineering



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#### **VIVA Institute of Technology**





### Department of Electronics and Telecommunication Engineering

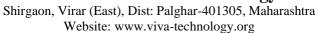
# **Model Certificate**







### **VIVA Institute of Technology**





# Department of Electronics and Telecommunication Engineering

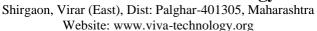
# Name of Course: MATLAB and Simulink for Research

Duration: 30 hours

| Date and Day              | Time         | Contents   |
|---------------------------|--------------|--|
|                           | 9.00 to 9.30 | Breakfast, Registration and Inauguration                     |
|                           | 9.30 – 11.00 | History and Introduction to AI                               |
| 30 <sup>th</sup> Dec 2019 | 11.00-11.15  | Tea Break  |
| 30 Dec 2019               | 11.15 -12.45 | Agents of AI   |
|                           | 12.45-1.30   | Lunch Break  |
|                           | 1.30-4.00    | Different types of Intelligent systems                       |
|                           | 9.00-11.00   | Modelling and simulation of end to end communication system  |
| 2187                      | 11.00-11.15  | Tea Break  |
| 31 <sup>st</sup> Dec 2019 | 11.15-1.15   | Modelling the architecture of RF front ends                  |
|                           | 1.15-2.00    | Lunch Break  |
|                           | 2.00-4.00    | Integrating antenna and array designs in system level models |
|                           | 9.00-11.00   | Walkthrough of classification workflows                      |
|                           | 11.00-11.15  | Tea Break  |
| 2 <sup>nd</sup> Jan 2020  | 11.15-1.15   | Classification using neural networks                         |
|                           | 1.15-2.00    | Lunch Break  |
|                           | 2.00-4:00    | Deep learning with Image data                                |
|                           | 9.00-11.00   | Multilayer Perception  |
|                           | 11.00-11.15  | Tea Break  |
| 3 <sup>rd</sup> Jan 2020  | 11.15-1.15   | Convolutional Neural Network                                 |
|                           | 1.15-2.00    | Lunch Break  |
|                           | 2.00-4.00    | Hands-on practice  |
| 4 <sup>th</sup> Jan 2020  | 10.00-2.30   | Exploring recent MATLAB toolboxes Tea Break                  |
| Virar, (S)                | 3.00-4.00    | Valedictory function   |



#### **VIVA Institute of Technology**





### Department of Electronics and Telecommunication Engineering

# Report

Duration: 30<sup>th</sup> December 2019 – 4<sup>th</sup> January 2020. Venue: VIVA Institute Of Technology, Shirgaon.

Electronics & Telecommunication Engineering Department of VIVA Institute of Technology organized a 30 hours' certificate course on "MATLAB and Simulink for Research" from 30<sup>th</sup> December 2019 – 4<sup>th</sup> January 2020 conducted by Mrs. Madhura Ranade.

The objective of the Research with MATLAB and Simulink training program is to learn to create tools with MATLAB that will help to implement new ideas and solve difficult problems. Learning of MATLAB and Simulink will help to apply our research to interesting and challenging real-world problems. This STTP provides comprehensive coverage of MATLAB and Simulink and its applications while providing opportunities for Hands-on practicals.

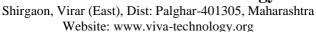
The purpose of this STTP is to have discussions on various ways in which MATLAB and Simulink tools can be used to carry out research..

| can be ased to early out research.  |
|---|
| Topics Covered in STTP on "Research methodology"  |
| ☐ Introduction to Artificial Intelligence.  |
| □ exploring recent MATLAB toolboxes.  |
| ☐ Multilayer perception and convolutional neural net-works.   |
| ☐ Deep learning with Image data using MATLAB  |
| ☐ Design and implementing MIMO wireless systems with MATLAB and Simulink                                  |
| As new developments are introducing in industry day by day demanding expertise in the MATLAB software, it |
| was felt necessary that the student also become competent in the said field.                              |





#### **VIVA Institute of Technology**





## Department of Electronics and Telecommunication Engineering

# Course Objectives

- 1. Get Hands on Practice on Various MATLAB toolboxes and Simulink.
- 2. To learn the basics MATLAB toolboxes and Simulink
- 3. To understand use of MATLAB Simulink and its uses in different research areas.
- 4. Learn how to set parameters and test the output in Simulink.

# **Course Outcomes:**

After successful completion of the course, the students are able to

- > Get Hands on Practice on Various MATLAB toolboxes and Simulink.
- > Get to learn the basics MATLAB toolboxes and Simulink
- After the completion of this course the participants will have knowledge of use of MATLAB Simulink and its uses in different research areas.
- Learn how to set parameters and test the output in Simulink

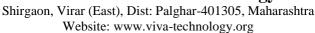
# CO-PO MAPPING

| Course  |         | Program Outcome |         |         |         |         |      |         |         |          |          |                    |
|---------|---------|-----------------|---------|---------|---------|---------|------|---------|---------|----------|----------|--------------------|
| Outcome | PO<br>1 | PO<br>2         | PO<br>3 | PO<br>4 | P0<br>5 | PO<br>6 | PO 7 | PO<br>8 | PO<br>9 | PO<br>10 | PO<br>11 | CO<br>Target level |
| CO1     | 2       | -               | -       | -       | -       | -       | -    | -       | -       | -        | -        | 2                  |
| CO2     | -       | 2               | -       | -       | -       | -       | -    | -       | -       | 1        | -        | 2                  |
| CO3     | 2       | -               | -       | -       | -       | 2       | -    | -       | -       | -        | -        | 2                  |
| CO4     | 2       | ı               | -       | -       | -       | -       | -    | -       | -       | 1        | 1        | 2                  |
|         |         |                 |         |         |         |         |      |         |         |          |          |                    |
|         | 2       | 2               | -       | -       | 2       | 2       | -    | -       | -       | -        | -        |                    |





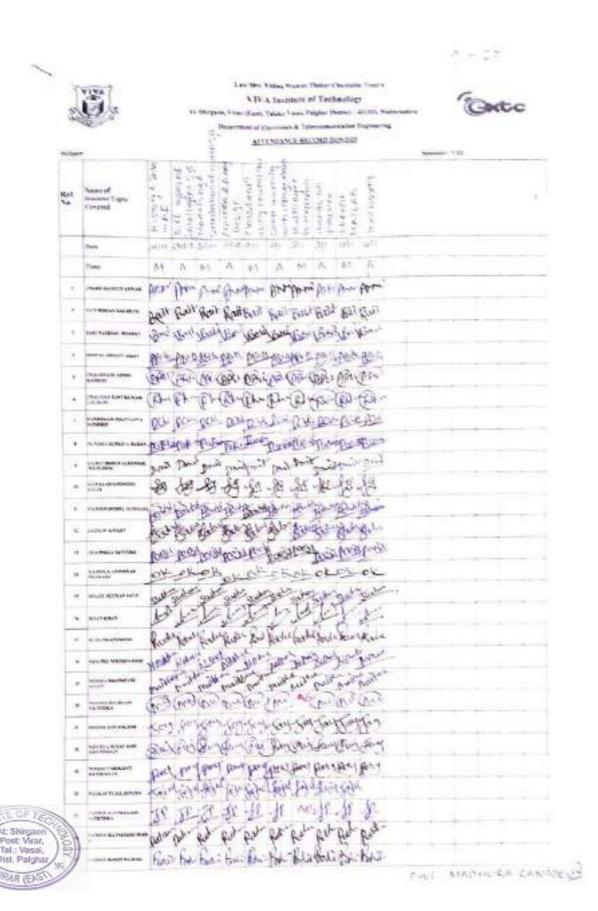
#### **VIVA Institute of Technology**





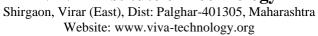
# Department of Electronics and Telecommunication Engineering

# **Attendance Sheet:**

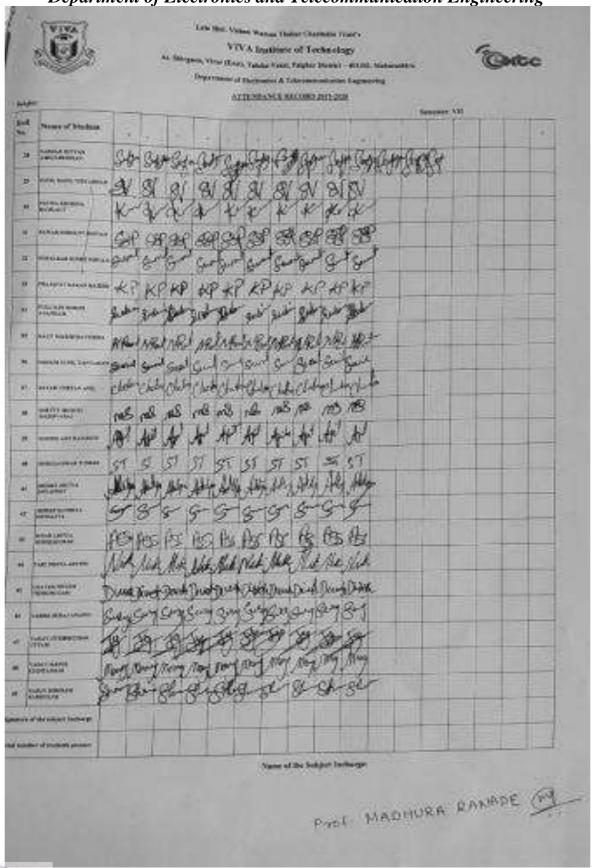




### **VIVA Institute of Technology**

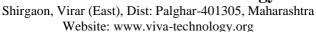








#### **VIVA Institute of Technology**





# Department of Electronics and Telecommunication Engineering Model Certificate



# Student Certificate





# **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

### **DEPARTMENT OF MECHANICAL ENGINEERING**

### **Syllabus & Course Outcomes**

Course Name: Advance Solid Works

Academic Term: July 2019 to Dec 2019

Syllabus:

| Module | Details  | Hours |
|--------|--|-------|
|        | Sketching with SolidWorks: 2D Sketching, sketching entities and        |       |
|        | relations, 3D Sketching, Editing & its features, Dimensions, Sketch    |       |
|        | tool, Mirror, Convert entity, Move & Copy                              |       |
| 1      | Part Modeling: Extrude and Cut extrude, Revolve and Sweep, View        | 6     |
|        | toolbar, Creating Reference geometries, Fillet and Chamfer, Hole       |       |
|        | wizard, Calculating weight/mass & other geometric properties, Export   |       |
|        | / Import of CAD files.   |       |
|        | Advanced Part Modeling: Adding ribs and draft, Circular and            |       |
| 2      | rectangular pattern, Shell and Boss feature, Configuration and Design  | 6     |
| 2      | Tables, Material Library & Assigning Material, Library Features &      | U     |
|        | Smart Fasteners, Boolean operations.                                   |       |
|        | Assembly Mode: Getting started with Assembly, Inserting                |       |
|        | components in assembly, Top-Down Assembly, Feature Manager             |       |
|        | Design tree & Symbols, Hiding components & controlling                 |       |
| 3      | transparency, Sub-Assemblies, Using mates in assembly, Use of Smart    | 6     |
|        | Fasteners, Bottom -Up Assembly, Interference detection and             |       |
|        | misalignment of holes, Exploding assemblies and adding explode         |       |
|        | lines.   |       |
|        | Generating detail drawings from Model: Drafting overview,              |       |
|        | Drawing sheets and views, Adding drawing views, View settings and      |       |
| 4      | drawing properties, Smart Dimensioning, Annotations and Symbols,       | 6     |
|        | Sheet Formats and Templates, Ballooning for nomenclature, Adding       |       |
|        | Bill of Material and tables.   |       |
|        | Surface Modeling / Sheet Metal: Introduction to surfacing tools,       |       |
| 5      | Sweep, Loft, Revolve, Offset etc., Filleting and trimming, Utilization | 6     |
|        | of Sheet Metal & forming tools.  |       |



Department of Mechanical Engineering; VIVA institute of technology, Shirgaon, Virar (East)

# **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

## **DEPARTMENT OF MECHANICAL ENGINEERING**

#### **Course Outcomes**

| Sr. No. | CO Code | Course Outcomes  |
|---------|---------|--|
| 1       | CO_1    | Visualize and prepare 2D & 3D modeling of a given object using solid works software. |
| 2       | CO_2    | Build solid model of a given object using solid works software.                      |
| 3       | CO_3    | Generate assembly models of given objects using assembly tools.                      |
| 4       | CO_4    | Perform product data exchange among CAD systems.                                     |
| 5       | CO_5    | Build solid model of a given object using surface modeling.                          |

### Lase Stree Vishia Vishna Warran Chantible Trasts

#### VIVA Institute of Technology

At Shogam, View (East), Talaka-Visio, Poliper Device - 421300, Metanasium Department of blocksnical Engineering VALUE ADDED COURSE - ADVANCE SOLID WORKS

Academic Year 2019-20

Course Duration : 24th June to 28th June 2019

Time: 9.00 am to 12.00 pm

| Sr. No. | Name of Students            | Class | Date       |              |            |            |            |  |
|---------|-----------------------------|-------|------------|--------------|------------|------------|------------|--|
|         |                             |       | 24/06/2019 | 25/05/2019   | 26/06/2019 | 27/06/2019 | 28/06/2019 |  |
| 1       | JAIN ANIRUDDRA ROSHAN       | SE    | You'r      | Out-         | SW         | din        | OHA        |  |
| 2       | KHOPKAR MAYURI CHANDRAKANT  | SE    | Market     | Kulon        | Kelm       | wer        | Ker        |  |
| 3       | KOKALE KHYATI KAJESH        | SE    | Replate !  | Kinkat .     | A          | Khyps      | Megadi     |  |
| 4       | ABAIKAR CHINMAY RAJESH      | TE    | Charles    | Owner        | Corres     | chiers     | Owige      |  |
| 5       | CHANEKAR MINAD SURESH       | TE    | T          | Mod          | MUDOO      | Niped      | 150        |  |
| 6       | MENEZES CHRIS WILLIAM       | TE    | Charle     | asis         | Charle     | Chear      | Charles    |  |
| 7       | NEDUMATTOM ARUN BABU        | TE    | Amor       | Fren         | from       | 74         | Am         |  |
| 8       | PALIWAL PRIVANKA            | TE    | emeny      | And          | A          | - mus      | +nus.      |  |
| 9       | RAI VEDAN MAHESIK           | TE    | Vand       | Naud         | read       | rema       | Mans       |  |
| 10      | DAVE ROMIL ARVIND SANGITA   | 30    | Marie Land | 40 mil       | Rose       | A          | Home       |  |
| - 11    | GHOLE VINAYAK SANJEEVAN     | BE    | White      | ميلندنيكا را | way        | Minight    | AR         |  |
| 12      | KUMBHAR ABHUIT VASANT       | 94    | Anny       | AVSTU        | ABRY       | PRESE      | HOLE       |  |
| 15      | PAL ANUJ SHIVKARAN SATNA    | 86    | AMY        | muy          | iny        | And        | Awy        |  |
| 14      | RALVINAYAK PRAKASH SUNITA   | BE    | Hey        | AN           | flas       | 47         | 10         |  |
| 15      | ZANKAR YOGITA RAJESH BABITA | BE    | 10000      | 45310        | 40000      | CABA       | North      |  |

Facalty Considerator

(Machanical Engineering Dept.)

HOD.

(Medianical Engineering Dept )



# Lara Shree Vishnu Vishna Warran Chantable 119918

VIVA Institute of Technology

At. Shirpson, Virus (East), Taluka-Vasai, Palgine District - 40(103, Maharashira.

# Department of Mechanical Engineering

# VALUE ADDED COURSE - ADVANCE SOLID WORKS

Academic Year 2019-20

Course Duration ; 24th June to 28th June 2019

Time: 1.60 pm to 4.00 pm

|         | Name of Students   | Class | Date       |            |            |            |           |  |
|---------|--|-------|------------|------------|------------|------------|-----------|--|
| Sr. No. |  |       | 24/06/2019 | 25/06/2019 | 16/06/2019 | 27/06/2019 | 28/06/201 |  |
| -       | A COLUMN TO THE PARTY OF THE PA | SE    | deir       | GEVIA      | A          | Pain       | A         |  |
| 1       | JAIN ANIRUDDHA ROSHAN  | SE    | سلسليلا    | when       | Kollin     | Keln       | helm      |  |
| 1       | KHOPKAR MAYURI CHANDRAKANT   | -     | A          | anjab      | A          | Church     | lehud     |  |
| 3       | KOKALE KHYATI RAJESH   | SE    | IA.        |            | as Burd    | ching      | anous     |  |
| 4       | ARAIKAR CHINMAY RAJESH   | TE    | ches       | channel    | chem       | Nipad      | Nina      |  |
| 5       | GHANEKAR NINAD SURESH  | TE    | MODE       | Minad      | Mina       | NI N       | 201 16    |  |
| 6       | MENEZES CHRIS WILLIAM  | TE -  | Chuls      | A          | CKMB       | CHUNK      | Chris     |  |
| - 5     | NEDUMATTOM ARUN BABU   | TE    | Ann        | A          | Arren      | Ann        | A         |  |
| 7       | The second secon | TE    | Panya      | Line       | A          | Pulle      | A         |  |
|         | PALIWAL PRIYANKA   | TE    | halus      | There h    | Venue      | NEWSON     | A         |  |
| 9       | RAI VEDAN MAHESH   |       | 0          | down       | doniel     | Maria      | Pomil     |  |
| 10      | DAVE ROMIL ARVIND SANGITA  | BE    | Hem        | A DO       | 11 1 11    | theter     |           |  |
| 11      | GHOLE VINAYAK SANJEEVAN  | BE    | Vinny      | A          | Variable   | V-7        | new       |  |
| 12      | KUMBRAR ABHUIT VASANT  | BE    | A          | PHS.       | About      | the        | Appl      |  |
| 13      | PAL ANUI SHIVKARAN SATNA   | BE    | Any        | Ami        | Amy        | Anns       | Anus      |  |
| 14      | RAL VINAYAK PRAKASE SUNITA   | DC    | Mrayak     | Verayak    | Viceyak    | vioayak    | A         |  |
| 15      | ZANKAR YOGITA RAJESH BABITA  | BE    | 1040       | 162010     | مولاموا    | (DOD)HA    | 4000      |  |

Prof. Tejas Chou Faculty Co-predictor (Mechanical Engineering Dept.) Prof Mysti Raut

(Machanical Expineering Dept.)





# VIVA Institute of Technology

Approved by AICTE New Delhi, DTE, Govt. of Maharashtra and Affiliated to University of Mumbai Shirgaon, Virar(E.), Dist: Palghar-401305, Maharashtra

# CERTIFICATE

This to certify that Dr. / Mr. / Ms. MENEZES CHRIS WILLIAM

has attended a Short Term Training Program on "ADVANCE SOLID WORKS" during the period 24th June – 28th June, 2019 at Department of Mechanical Engineering, VIVA Institute of Technology, Shirgaon, Virar.

as

Mr. Tejas Chaudhari (CO-ORDINATOR) HAME

Mrs. Niyati Raut (HEAD OF THE DEPARTMENT) Olum

Dr. Arun Kumar (PRINCIPAL)



# **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

Late Shree Vishnu Waman Thakur Charltable Trust's

# VIVA Institute of Technology

Shirgaon, Virar (E)

Department of Mechanical Engineering

VIVA/VIT/MECH/STUDENT/2019-20

Date: 23/11/2019

# NOTICE

All the shortlisted students of Mechanical Engineering are hereby informed to attend the Value Added Course organized by Department of Mechanical Engineering on the topic of "ANSYS (Engineering Simulation)" from 30<sup>th</sup> December 2019 to 04<sup>th</sup> January 2020.

Timing:-

1st Session:- 9.00 am - 12. pm

2nd session:- 1.00 pm - 4.00 pm

Venue:- CAD CAM Lab

Prof. Tejas Chaudhari

Faculty Co-ordinator

Prof. Niyati Raut

HOD Mechanical



#### Late Shri Vishnu Waman Thakur Charitable Trust's

## **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

#### **Syllabus & Course Outcomes**

Course Name: ANSYS (Engineering Simulation)

Academic Term: Jan 2020 to May 2020

#### Syllabus:

| Module | Details   | Hours |
|--------|---|-------|
| 1      | <b>Solid Modeling:</b> An Overview of Solid Modeling Operations, Working with Boolean operations, Working Plane, Importing of 3D models.  | 4     |
| 2      | Meshing: Free meshing or Mapped meshing, Setting Element Attributes, Selecting Element Type, Shape Function, DefiningElement Types, Defining Section Properties, Assigning Element Attributes before meshing, Mesh Controls, The ANSYS Mesh Tool, Smart sizing, Meshing, Free Meshing, Mapped Meshing, Hybrid meshing, Mesh Extrusion, Volume Sweeping. | 8     |
| 3      | Boundary Conditions: Types of Loads, Applying loads.  Solvers: Types of Solvers, Solver Setup, Load Step Options, Solving Multiple Load Steps.  | 6     |
| 4      | <b>Tips &amp; Tricks:</b> Using the Toolbar & Creating Abbreviations, Introduction to APDL, Using Parameters, Using the Start File, Using the Session Editor, Using Input Files.  | 4     |
| 5      | ANSYS Workbench: Introduction to ANSYS Workbench, Graphical User Interface, Static Structural Analysis, Modal Analysis, Thermal Analysis, Contact Recognition.  | 8     |

#### Late Shri Vishnu Waman Thakur Charitable Trust's

## **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

#### **Course Outcomes**

| Sr. No. | CO Code | Course Outcomes  |
|---------|---------|--|
| 1       | CO_1    | Apply basic aspects of Analysis to solve engineering problems. |
| 2       | CO_2    | Select suitable meshing and perform convergence test.          |
| 3       | CO_3    | Apply basic aspects to solve engineering problems.             |
| 4       | CO_4    | Perform basics tricks and tips to solve engineering problems.  |
| 5       | CO_5    | Interpret the result.  |

#### Late Shree Visheu Visheu Warun Chartable Tron's

VIVA Institute of Technology
At Shingson, Vine (East), Talaka-Voice, Palyhar District – 401315, Nuharashira
Department of Machanical Engineering

### VALUE ADDED COURSE - ANSYS (Engineering Simulation)

Academic Year 2019-20

Course Duration : 30th Dec 2019 to 4th Jun 2020

Time: 9,60 am to 12,00 pm

| 7923    | 17 See 1                    | 2000  | Date       |            |            |            |           |  |
|---------|-----------------------------|-------|------------|------------|------------|------------|-----------|--|
| Sr. No. | Name of Students            | Class | 38/12/2019 | 31/12/2019 | 02/01/2020 | 63/01/2029 | 04/01/202 |  |
| 1       | JAIN ANIRUDDHA ROSHAN       | sc    | A          | Sour       | Dear       | Pair       | Quer      |  |
| 2       | PATIL SANKET SHIVAII        | SE    | 800B)      | Partil     | 200        | Rati       | agen      |  |
| 3       | VENGURLEKAR SIDDHESH DEEPAK | SE    | Soc        | Send       | Sal        | Sent       | A         |  |
| 4       | SHAH TEJ BHAVESH            | SE    | Tei        | Ter        | Top        | Tej        | Tel       |  |
| 5       | BANDEKAR CHETAN BHARAT      | TE    | Chelos     | Charan     | Cheton     | chertu     | A         |  |
| 6       | HOTKAR TEJDEEF PRABHAKAR    | TE    | Hothan     | HOHCOO     | A          | HOTPEN     | Hetwa     |  |
| 7       | MALADKAR PARAS RAMCHANDRA   | TE    | 4800       | A          | FIPOMO!    | Phanes     | (HPODO    |  |
|         | PATIL VIRAJ RAJENDRA        | TE    | Vinni      | uni        | -A         | DIM        | MM        |  |
| 9       | SANKHE VATHARTH MANGI       | TE    | MANO       | MANJ       | A          | MAGI       | MAN       |  |
| 10      | TARE CHINMAY DILIP          | 7'6   | Din        | Dich       | Dill       | Dita       | 2111      |  |
| 11      | INGLE AASHAY SHARAD AARTI   | BE    | PASIDE     | pathan     | Baller     | Harbal     | A23 AO    |  |
| 12      | KATE CHETAN SITARAM SUJATA  | BE    | 54         | KA         | Kut        | But        | KALL      |  |
| 13      | PIMPLE HARSHAL B            | 88    | ar         | b.         | B.         | #          | 4.        |  |
| -14     | RASAL SUJYOT R              | 88    | 800        | 500        | A          | See        | A         |  |
| 15      | SINGH AKASH PRAMOD DURGA    | BE    | AMSH       | MASM       | AKAIL      | person     | A-        |  |

Prof. Tejas Chau

Prof. Niyati Rout

HOD



#### Late Shree Vishnu Vishnu Warran Chautable Trust's

#### VIVA Institute of Technology

At. Shingson, Virar (East), Talukz-Vasai, Palghar District - 401305, Maharashira

#### Department of Mechanical Engineering

### VALUE ADDED COURSE - ANSYS (Engineering Simulation)

Acadomic Year: 2019-20

Course Duration : 30th Dec 2019 to 4th Jan 2020

Time: 1.00 pm to 4.00 pm

| Sr. No.    | Name of Students            | Class | Date       |            |            |            |            |  |  |
|------------|-----------------------------|-------|------------|------------|------------|------------|------------|--|--|
| 1300 (100) | TARINE OF STRUCENTS         |       | 30/12/2019 | 31/12/2019 | 92/01/2020 | 63/01/2020 | 04/01/2020 |  |  |
| 1          | JAIN ANIRUDDHA ROSHAN       | SE    | deul-      | Ger        | Goin       | Sich       | Jun        |  |  |
| 2          | PATIL SANKET SHIVAJI        | SE    | A          | Cath       | A          | (Sepon)    | PON        |  |  |
| 1          | VENGURLEKAR SIDDNESH DEEPAK | SE    | 54         | Sub        | Sul        | 30         | 3          |  |  |
| 4          | SHAH TEJ BHAVESH            | SE    | Te         | Ců,        | Tui        | A          | Tei        |  |  |
| 5          | BANDEKAR CHETAN BHARAT      | TE    | Choton     | chiller    | A          | change     | cheller    |  |  |
| 6          | HOTKAR TEJDEEP PRABHAKAR    | TE    | Modean     | Hatkas     | Hoteon     | Hookas     | A          |  |  |
| 7          | MALADKAR PARAS RAMCHANDRA   | TE    | A          | A          | Megara     | Matinas    | Medoral    |  |  |
| 8          | PATIL VIRAJ RAJENDRA        | TE    | ini        | ving       | King       | Vim        | alm        |  |  |
| 9          | SANKHE VATHARTH MANOJ       | TE    | MANY       | A          | Mossi      | A          | A          |  |  |
| 10         | TARE CHINMAY DILIP          | TE    | Divo       | Dup        | Phir       | Olve       | DWP        |  |  |
| 11         | INGLE AASHAY SHARAD AARTI   | BE    | Aashaey    | pashay     | Aasbal     | ustrad     | pagaou     |  |  |
| 1.2        | KATE CHETAN SITARAM SUJATA  | 86    | KLE        | A          | Ŕ          | HAT        | Karot      |  |  |
| 13         | PIMPLE HARSHAL B            | 96    | 4          | H          | 4          | He.        | 1          |  |  |
| 14         | RASAL SUPPOT IL             | DE    | 500        | 800        | Eng.       | A          | SF         |  |  |
| 15         | SINGH AKASH PRAMOD DURGA    | 36    | AWAKK      | MAN        | HUNNY      | AKBM       | MAN        |  |  |

Prof Tejas Cherdhari Facility Co-ordinator (Mechanical Engineering Dept.)

(Mechanical Engineering Dept.)





Late Shri Vishnu Waman Thakur Charitable Trust's

## VIVA Institute of Technology

Approved by AICTE New Delhi, DTE, Govt. of Maharashtra and Affiliated to University of Mumbai Shirgson, Virar(E.), Dist: Palghar-401 305, Maharashtra

## CERTIFICATE

This to certify that Dr. / Mr. / Ms. TARE CHINMAY DILIP

has attended a Short Term Training Program on "ANSYS (Engineering Simulation)" during the period 30th Dec - 04 th Jan, 2020 at Department of Mechanical Engineering, VIVA Institute of Technology, Shirgaon, Virar.

PS

Mr. Tejas Chaudhari (CO-ORDINATOR) NACOUL

Mrs. Niyati Raut (HEAD OF THE DEPARTMENT) Thuman

Dr. Arun Kumar (PRINCIPAL)



Late Shree Vishnu Waman Thakur Charitable Trust's

## VIVA Institute of Technology

Shirgaon, Virar (E)

### Department of Mechanical Engineering

VIVA/VIT/MECH/STUDENT/2019-20

## NOTICE

All the shortlisted students of B.E. Mechanical Engineering are hereby informed to attend the Value Added Course organized by Department of Mechanical Engineering on the topic of "Introduction to Magnetic Particle Non Destructive Testing (MT) Method" from 30<sup>th</sup> December 2019 to 04<sup>th</sup> January 2020.

Timing:-

1st Session:- 9.00 am - 12.00 pm

2<sup>nd</sup> session:- 1.00 pm - 4.00 pm

Venue:- CAD CAM Lab

Prof. Tejàs-Chaudhari

Faculty Co-ordinator

Prof. Niyati Raut

Date: 23/12/2019

HOD Mechanical



#### Late Shri Vishnu Waman Thakur Charitable Trust's

## **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

### **Syllabus & Course Outcomes**

Course Name: Introduction to Magnetic Particle Non Destructive Testing (MT) Method

Academic Year: 2019-20

#### **Syllabus:**

| MODULE | DETAILS  | HOURS |
|--------|--|-------|
|        | Module 1: Basic Principles of Non-Destructive Testing            |       |
|        | Definition and importance of NDT                                 |       |
|        | Types of NDT methods   |       |
|        | Visual testing (VT)  |       |
| 1      | Liquid penetrant testing (PT)                                    | 4     |
| 1      | Magnetic particle testing (MT)                                   | 4     |
|        | Eddy current testing (ET)  |       |
|        | Radiographic testing method (RT)                                 |       |
|        | Ultrasonic testing (UT)  |       |
|        | Comparison of different NDT methods                              |       |
|        | Module 2: Magnetization techniques                               |       |
|        | Permanent magnets  |       |
|        | Electromagnets   | 7     |
| 2      | Coils  | 7     |
|        | Magnetization by passage of current                              |       |
|        | Magnetization technique by induction                             |       |
|        | Module 3: Testing techniques                                     |       |
|        | Testing techniques for work pieces of differing alloy, shape and |       |
| 3      | condition  | 6     |
|        | Testing techniques with various types of current                 |       |
|        | Field direction for some specific cases                          |       |
|        | Module 4: Knowledge of equipment                                 |       |
| 4      | Permanent magnets  | 6     |
|        | Electromagnetic yoke   | 6     |
|        | Portable and stationary equipment                                |       |
|        |  |       |

epartment of Mechanical Engineering; VIVA institute of technology, Shirgaon, Virar (East)

#### Late Shri Vishnu Waman Thakur Charitable Trust's

## **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

|   | Types of current and concepts of testing capacity  |   |
|---|--|---|
|   | Demagnetization equipment                          |   |
|   | Maintenance and use of the equipment               |   |
|   | Module 5: Knowledge of Accessories                 |   |
|   | Contact points                                     |   |
|   | Vessels for checking bath concentration            |   |
|   | Field indicator (Berthold test piece)              |   |
| - | Calibration pieces (JIS)                           | 7 |
| 5 | Magnetic field measurement equipment (gauss meter) | 7 |
|   | Ultraviolet lamps                                  |   |
|   | Coloured and fluorescent powders                   |   |
|   | Colour for increasing contrast                     |   |
|   | Morphology of the particles                        |   |

#### **Course Outcomes:**

| SR.<br>NO. | CO CODE | COURSE OUTCOMES  |
|------------|---------|--|
| 1          | CO_1    | Apply basic aspects of Inspection to solve engineering problems. |
| 2          | CO_2    | Select suitable Magnetization techniques.                        |
| 3          | CO_3    | Understand the Testing techniques.                               |
| 4          | CO_4    | Understand the Knowledge of equipment.                           |
| 5          | CO_5    | Understand the Knowledge of Accessories.                         |

#### VIVA Institute of Technology

At. Sfergam, Vitter (East), Tabiko-Vasai, Palgher District - 401305, Maharashtra

#### Department of Mechanical Engineering

### VALUE ADDED COURSE - Introduction to Magnetic Particle Non Destructive Testing (MT) Method

Academic Vear : 2019-20

Course Duration : 30th Dec 2019 to 4th Jan 2020

Time: 9.00 aan to 12.00 pm

| C. No.  | Name of Students                   | Class | Date       |            |            |            |            |
|---------|------------------------------------|-------|------------|------------|------------|------------|------------|
| šr. No. | Name of Students                   | Class | 36/12/2019 | 31/12/2019 | 02/01/2020 | 03/01/2020 | 64/61/2020 |
| 1       | ADKHALE BHARAT YASHWANT PRATIKSHA  | BE    | BWARA      | BOW        | BARRA      | \$ ASAR    | BARBO      |
| 2       | BALIGA SIDDHESH SATISH SEEMA       | BE    | 33B        | AB         | 53B        | 538        | 35B        |
| 3       | BHANGALE CHIRAG NAXENDIKA MALINI   | BE    | CNE        | SINS       | CMB        | CMB.       | CNB        |
| 4       | BHOIR VRUSHALI GAJANAN KAVITA      | BE    | AB         | NUB        | ws         | LB         | R13        |
| 5       | BHOSALE RUSHIKESH SUBHASH PUSHPA   | BE    | 130        | Fig.       | AB .       | F3219      | BAC        |
| 6:      | BIRWATKAR ANIKET ANANT AKSHATA     | BE    | AB.        | MARS       | ABB.       | ABB        | AAS        |
| 7       | GULHANE AMAN ASHOR MANTA           | BE    | fram       | Dusa       | Dues       | Swa        | pur        |
| 8       | HASE NIKHIL BALASAREB PRATIBHA     | BE    | AB         | MB         | aro,       | ine        | NAB        |
| 9       | JADHAV VIKRANT VISHNU THERESA      | BE    | men        | m          | Mer        | mar        | stee       |
| 10      | JAWLE SIDDHESH SONU NITA           | BE    | 527        | 523        | 523        | 270        | 523        |
| 11      | KATALE ROHIT RAJENDRA RANIITA      | BE    | AB         | PRE        | RRYS       | PAS        | QXX/Q      |
| 12      | KHARAT ASHWINI KAILAS SANGITA      | BE    | PRIS       | BRAZ       | PRIZ       | RANZ       | BARAQ      |
| 13      | KOTIAN SHUBHAM GANESH KALAVATI     | 36    | SKM        | OW         | AB         | OKM        | Sure       |
| 14      | LEMBHR RAHUL CHUDAMANI SUNITA      | 38    | Relia      | em         | em         | Ru         | AB         |
| 15      | MISHRA SANGAM ANIL MAMATA          | 96    | Don's      | aril,      | grid       | Dun        | Boro       |
| 16      | NAWAR JATIN SANJAY TANVI           | BE    | EN         | LAS.       | 200        | 7900       | AB         |
| 17      | PATIL CHINAR ANAND BHARATI         | 96    | COREL      | AB         | Jen        | ala        | charce     |
| 18      | PATIL JITESH GURUNATH GITANJALI    | BE ,  | JEP :      | JGR.       | J 68       | 568        | JGO        |
| 19      | PATIL MANDAR CHANDRAKANT VINAYA    | BE    | AB         | mer        | MESP       | mes        | nex        |
| 20      | FATIL MANTHAN MILIND MANISHA       | BE    | mo         | mp         | one        | me         | mis        |
| 21      | SALUNKIE SOHAM VISHWANATH SWAPNALI | BE    | mp         | no         | no         | and        | no         |
| 22      | SAPKAL JAYESH ASHOK NITA           | BE    | - Ben      | AB -       | 30°        | por        | 2500       |
| 23      | SAVE KSHITU PRASHANTKUMAR PRACUI   | BE    | Son        | Sans       | SNE        | 2          | Sur        |
| 24      | SHAH SHALIN RAKESH RITA            | BE    | 867        | SEA        | AB         | 800        | SPK        |
| 25      | SHIUDKAR AKSHAY SHRIPATI ARCHANA   | DE    | DUS        | Bass       | Opo        | gos        | DIES       |
| 26      | SULE CHIRAG LAXMAN MUKTA           | BE    | CLS        | STO        | CLS        | CLS        | CLS        |
| 27      | THAKUR KRISHNA RAMESH PRAMILA      | BE    | 600x       | (A)        | AB         | (0)        | PA         |
| 28      | THOKAL AVINASH DATTU RATNAPRABHA   | BE    | POOR       | POP        | DOL        | DE !       | 130        |
| 29      | VICHARE AKASH PRADEEP HEMANGE      | BE    | AB         | Den        | guo        | Den        | Jen        |
| 30      | YADAV RAHUL KHELADI NIRMALA        | BE    | -RUGH      | PREY       | pay        | PROSP      | AB         |

ingaon Signature Virar, Vasar, Spalghar

Prof. Te as Chaudhari Faculty Co-ordinator (Mechanical Engineering Dept.) Prof. Niveti Raut

(Mechanital Engineering Dept.)

#### VIVA Institute of Technology

At. Shirgson, Vene (East), Teluka-Vassi, Pelgher District - 401305, Maharushtra.

#### Department of Mechanical Engineering

#### VALUE ADDED COURSE - Introduction to Magnetic Particle Non Destructive Testing (MT) Method

Academic Year 2019-20

Course Duration : 30th Dec 2019 to 4th Jan 2020

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| Sr. No. | Name of Students                   | Class |            |            | Date       |            |            |
|---------|------------------------------------|-------|------------|------------|------------|------------|------------|
|         | State of Groden's                  | CIRIS | 30/12/2019 | 31/12/2019 | 02/01/2020 | 03/01/2020 | 64/01/2020 |
| 1       | ADKHALE BHARAT YASHWANT PRATIKSHA  | BE    | CHOSON     | (BOARA)    | STURES     | BRATO      | 82100      |
| 2       | BALIGA SIDDHESH SATISH SEEMA       | BE    | 223        | AB         | 3 38       | SSB        | 553        |
| 3       | BHANGALE CHIRAG NARENDRA MALINI    | BE    | CMB.       | EN3        | ONB.       | COB        | OB         |
| 4       | BHCER VRUSHALI GAJANAN KAVITA      | BE    | AB         | VEB        | ins        | uns        | 11113      |
| 5       | BHOSALE RUSHIKESH SUBHASH PUSHPA   | BE    | RM         | (PSHR      | AB.        | Pars       | Ro         |
| 6       | BIRWATKAR ANIKET ANANT AKSHATA     | BE    | 202        | Mer-       | ARR        | AND        | AA R       |
| 7       | GULHANE AMAN ASHOK MAMTA           | BE    | Ague       | Der        | aler       | Aut        | Au         |
| 8       | HASE NIKHIL BALASAHEB PRATIBHA     | BE    | AB         | DAM        | den        | TAN        | SU         |
| 9       | JADHAV VIKRANT VISHNU THERESA      | BE    | men        | nine       | nke        | alu        | TA AT      |
| 10      | JAWLE SIDDHESH SONU NITA           | 88    | 555        | 255        | 257        | 835        | SV         |
| 11      | KATALE ROHIT RAJENDRA RANJITA      | BE    | AB         | ONE        | P800       | PRIO       | PRIO       |
| 12      | KHARAT ASHWINI KAILAS SANGITA      | BE    | One        | Axxun      | Delas      | AKING      | Ascer      |
| 13      | KOTIAN SHUBHAM GANESH KALAVATI     | BE    | PRIS       | 2012       | AB         | PRICE      | SAN        |
| 14      | LEMBER RAHUL CHUDAMANI SUNITA      | BE    | Aule       | Leus       | Aun        | Am         | AB         |
| 15      | MISHRA SANGAM ANIL MANATA          | BE    | DV.        | age        | ow         | ow         | Que        |
| 16      | NAWAR SATIN SANJAY TANVI           | BE    | Ani        | Amil       | mil        | And        | AB         |
| 17      | PATIL CHINAR ANAND BRAKATI         | BE    | W.         | SENT       | 350        | 286        | VIRC       |
| 18      | PATIL JITESH GURUNATH GITANJALI    | BE    | CARN       | coon       | AB         | colie      | care       |
| 19      | PATIL MANDAR CHANDRAKANT VINAYA    | 36    | JUP-       | TGR        | TUP        | KER        | 144        |
| 20      | PATIL MANTHAN MILIND MANISHA       | ВΕ    | mes        | nes        | mer        | neo        | me         |
| 21      | SALUNKHE SOHAM VISHWANATH SWAPNALI | DE    | mp         | me         | me         | mp         | ne         |
| 22      | SAPKAL JAYESH ASHOK NITA           | BE .  | SAW        | AB-        | 3130       | 28m        | BAM        |
| 21      | SAVE KSHITU PRASHANTKUMAR PRACHI   | BE    | some       | Sens       | Sous       | Sw         | Ser        |
| 24      | SHAH SHALIN RAKESH RITA            | ВΕ    | SEL        | SPS        | AB         | Ser        | 8PJ        |
| 25      | SHIUDKAR AKSHAY SHRIPATI ARCHANA   | BE    | OKS        | AK         | DAS        | alg        | AR         |
| 26      | SULE CHIRAG LAXMAN MUXTA           | BE    | CLD        | CLS        | CLA        | 548        | cie        |
| 27      | THAKUR KRISHNA RAMESH PRAMILA      | BE    | (A. 2)     | AND D      | AB (       | 445        | BA         |
| 28      | THOKAL AVINASH DATTU BATNAPRABHA   | BE    | DO         | DAT        | ADOT       | 000        | tesa       |
| 29      | VICHARE AKASH PRADEEP HEMANGI      | BE    | AB         | (Kors)     | DRN        | Gens       | Dien       |
| 30      | YADAV RAHUL KHELADI NIRMALA        | ВЕ    | P1924      | ROY        | proy       | PROP       | AB         |

At: Shirgaon Post Virar, Tal: Visas, Oct Post Virar, Tal: Visas, Oct Post Polisher No. 1911

Prof. Texas Chuudhari Faculty Co-ordinator (Mechanical Engineering Dept.) Prof Niyai Rauz H.Ozo

(Mechanical Engineering Dept.)



Late Shri Vishnu Waman Thakur Charitable Trust's

## VIVA Institute of Technology

Approved by AICTE New Delhi, DTE, Govt. of Maharashtra and Affiliated to University of Mumbai

Shirgaon, Virar(E.), Dist: Palghar-401305, Maharashtra

### CERTIFICATE

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has attended a Short Term Training Program on "Introduction to Magnetic Particle Non |

Destructive Testing (MT) Method" during the period 30th Dec 2019 to 04th Jan, 2020 at

Department of Mechanical Engineering, VIVA Institute of Technology, Shirgaon, Virar.

Mr. Tejas Chaudhari (CO-ORDINATOR) Mrs. Niyati Raut
(HEAD OF THE DEPARTMENT)

Dr. Arun Kumar (PRINCIPAL)



## **VALUE ADDED COURSE**

| Name of Course:              | Printed Circuit Board (PCB) Designing | Branch:             | Electrical Engineering |  |
|------------------------------|---------------------------------------|---------------------|------------------------|--|
| Duration:                    | 30 Hours                              | Instructors:        | Bhavita Patil          |  |
| <b>Date of Commencement:</b> | 05 July 2019                          | Date of conclusion: | 31 Oct 2019            |  |

|          | Course Outcomes  |  |  |  |  |  |
|----------|--|--|--|--|--|--|
| Upon suc | Upon successful completion of the course, the student must be able to                  |  |  |  |  |  |
| CO1      | To understand the requirements of designing a PCB using software.                      |  |  |  |  |  |
| CO2      | To understand various components required for PCB design and their electrical ratings. |  |  |  |  |  |
| CO3      | To use development tools for PCB designing   |  |  |  |  |  |
| CO4      | To understand design standards and flow charts   |  |  |  |  |  |

| Syllabus |   |       |  |  |
|----------|---|-------|--|--|
| Unit No. | Contents  | Hours |  |  |
| 1        | Introduction to PCB designing concepts: Introduction & Brief History: What is PCB, Difference between PWB and PCB, Types of PCBs: Single Sided (Single Layer), Multi-Layer (Double Layer), PCB Materials. Prototyping, eCAD and PCBs, Purpose and Intent, Equipment Computer Circuit Programming and Testing Hardware, PCB Component Hardware, Software, MPLAB X IDE and XC8 Compiler, Understanding the Walkthrough  | 6     |  |  |
| 2        | Component introduction and their categories:  Types of Components: Active Components, Passive Components  Component Package Types: Axial lead, Radial Lead, Single Inline Package(SIP), Dual Inline Package(DIP), Transistor Outline(TO), Pin Grid Array(PGA), Metal Electrode Face(MELF), Leadless Chip Carrier (LCC), Small Outline Integrated Circuit(SOIC), Quad Flat Pack(QPF) and Thin QFP (TQFP), Ball Grid Array (BGA), Plastic Leaded Chip Carrier(PLCC) | 6     |  |  |
| 3        | Introduction to Development Tools: Introduction to PCB Design using OrCAD tool, Introduction to PCB Design using PROTEUS tool   | 6     |  |  |
| 4        | Detailed description and practical of PCB designing   | 6     |  |  |

| PCB Designing Flow Chart, Description of PCB Layers, Keywords & Their Description, PCB Materials, Rules for Track, Study of IPC Standards  |   |
|--|---|
| Lab practice and designing concepts:  Starting the PCB designing, Auto routing, PCB Designing Practice, Post Designing& PCB Fabrication Process, Testing and Troubleshooting Methods | 6 |

|      | Learning Resources  |
|------|---|
| Tex  | t Books:  |
|      | 1. Kraig Mitzner, "Complete PCB Design Using OrCad Capture and Layout", 2011  |
| Refe | erence Books:   |
|      | <ol> <li>"PCB Design for Real-World EMI Control (The Springer International Series in Engineering and Computer Science)" by James Drewniak and Bruce R Archambeault.</li> <li>"PCB Design: Printed Circuit Board" by Michael Dsouza and Dsouza Michael</li> </ol> |



VIVA Institute of Technology, Virar

| H    | News                          | 5/9/         | 19 3         | 5 A-719 | 12/2/7 | 9 12,   | Ar19   | 19/2/15 | MALAN   | 9 4/2 | H19  | 16 9/19 | P      | C      |   |
|------|-------------------------------|--------------|--------------|---------|--------|---------|--------|---------|---------|-------|------|---------|--------|--------|---|
| No   | Time                          | 2:3          | -            | 7130    |        |         | 130    | 1,000   |         | -     | Ja   | 3:30    |        |        |   |
| X    | CHOUSEAN SANGETA PREM NARAYAN | 13           | P            | D       | 0      | 0 5     | .,,0   | OUP     | 0       | -     | P    | OSP     |        |        | Г |
| 2    | CORRLE ADITI SURYAKANT        | 10           | +            | 07      | -      | 11      | -      | -4      | -       | 1     | +    | -       |        |        |   |
| 3    | GUPTA ANINARHELMAN SEWALAL    |              | +            |         |        | +       | _      |         | 1       | 1     |      |         |        |        |   |
|      | IAONAY RECORDANIE             |              | +            |         |        |         |        |         |         |       |      |         |        |        |   |
| 4    | COMBLE SHWETA NARENDRA        |              |              | _       | -      | +       |        |         | -       | _     |      |         |        |        |   |
| 1    | MANDAYAT SHEETESH RAMINDRAN   | Post.        | 14           | nguu    |        | M       | hli    | Myn     | MAL     | NA    | ut   | DAIN    | 7      |        |   |
|      | PARTE POLICA STUDY            | 1.13%        | 1            | Sie     | 1      | 1.1     | 900    | Ligit   | 1911    | 171   | -    | 13      |        |        |   |
| X    | PATIL ALPESH MUNUMO           | PA           | hea          | ^       | DAL    | JP      | 4.     | Din     | Dors    | Pa    | m    | PAm     |        |        |   |
| 9.   | PATE, BHASTN GAREAND          | 170          | M.           | 1       | IM     | 1       | Z IN   | MIN     | THE     | 100   |      | 1       |        |        |   |
| 10   | P*TR SAMEET SOPAN             | - 20         |              |         | 1 4    |         | ELE:   | THE ST  |         |       | 2 1  |         |        |        |   |
| 1    | PARKAR FALGUNI RANCHANDRA     | 124          | D 1          | ED n    | ED     | 15      | PI     | DID     | EDD     | FL    | P    | EP D    | $\neg$ |        |   |
| 12   | PILKE SISHANT JITENDRA        | 1            | 1            | 17      | 17     | +       | +      | 114     | 17      | 1     | 7    | 177     | $\neg$ |        |   |
| 13   | PINIPLE TANAY KAKENDIA        | 2            |              | NA      |        |         |        |         | -       |       |      |         |        | 1      |   |
| 14   | RAWOOL PRATHAM PANDHAKINATIK  |              | 1            |         |        |         |        |         |         |       | ,    |         | $\neg$ | $\neg$ |   |
| 13   | SAIVED AMAAN KAUSAR           | Su           | . 2          | Int     | SW     | .15     | LIM    | Sigh    | 0       | CIA   | 1.   | Shill   | _      |        |   |
| -+   | SAWANT PRATIK RAVINORA        | 07           | The same     | CHER    | 1      | 7       | WV     | orp     | -       | avy   | n    | 711     |        |        | ÷ |
| 7    | SHINDE RAI SATISH             | 1            | +            |         | -      | +       | $\neg$ |         |         |       | 7    |         | $^{+}$ |        |   |
| 8    | POOLARI SNEHA DEVIKAJ         |              |              |         |        | 1       |        |         |         |       | 1    |         |        |        |   |
| 9    | DUKARE BHAVESD SERICANT       |              | $^{\dagger}$ |         |        |         |        |         |         |       | 1    |         |        | -      |   |
| 1    | THAKARE CHETANA MARAYAN       | Thu          | UT           | ha ken  | Thu    | IT.     | ake.   | Thali   | Three   | That  | m    | Than    |        | $^{+}$ | _ |
| 1    | PADHYAY ALOK B.               | Ahl          | 1/           | 144     | Ahu    | 1       |        | Ahr     | Anu     | Au    | u    | Ain     | +      | _      |   |
| 1    | EDGA ASMITA RANCHANDRA        | Ned          |              |         | 0      | Ve      | el,    | A       | vielly  | Ve    | X.   | Veily   |        |        |   |
| 3    | EKHANDE PRATHMESH PRAKASH     | 12.00        | 1            | Set     |        |         | d      | - 1     | 0       | -     | 1    | 1       | 1      |        |   |
| 4 V  | TSHWAKARMA PRINCE KUMAR R.    |              |              |         |        |         | -      |         |         |       | 1    |         |        |        |   |
| 5 1  | ADAY AAKASH SATISH            |              |              |         |        |         |        |         |         |       | 1    |         |        |        |   |
| . 5  | ANKHE YUGAN                   |              |              |         |        |         |        |         |         |       | 1    |         | 1      | +      |   |
| 7    | REPRAYEN                      | Cup          | 3            | 0- 6    | Sunf   | Cu      | P      | 0       | G.P     | Gurt  | . 1/ | 2. P    | +      | +      |   |
| a    | PTA HARSIAL B                 | 1            | 1            |         | 1      |         | 1      |         | 1       | COL   | 1    | -1004   | -      | +      | _ |
| 91   | HOIR AMISHA D.                |              |              |         |        |         |        |         |         |       | +    |         | +      | +      |   |
| 00   | DIAVES/YASH M                 |              |              |         |        |         |        |         |         |       | +    |         | +      |        |   |
| 100  | AKWANA PRATIK B               | MAN          | FM           | 0.1     | Mond   | Ma      | 411    | Meal    | MAI     | MAN   | 1. 1 | Val     | +      | -      |   |
| TIA  | NK PARTH B                    | The          | 1            | A       | Bel    | 116     | 1      | Tark    | 1       | the   | 4    | 1       | +      | +      |   |
| PÀ   | TIL RUSHIKESH K               |              |              | 0       |        |         |        | 1       |         | FC    | 1    | 47      | +      | +      | - |
| 56   | HANAVE CHETAN F               |              |              |         |        |         |        |         |         |       | +    |         | +      | -      |   |
| VA.  | ZE ASHUTOSK N                 | Vou          | VZ           | 124     | 1200   | VZ      | 4      | Voce    | Vint    | A     | 1    | wso.    | +      | +      | - |
| 1421 | RPARA ANKIT R                 |              | -            |         |        |         | 3      |         | 1       | 100   | 1    | -       | +      | -      | - |
| -    | NOTANG MIRROR R               | Nu           | 1            | lun     | Mh     | Nu      | 4 1    | hu      | 1 lela  | 110   |      | New     | -      | -      | - |
| -    | E NITESH BREKAJI              | 1.47         | IV           |         | 10.7   | 14-4    | 1      | ww      | CI COVO | Mu    | 4    | NEW -   | +      | -      | - |
| 7    | HBHAR VRUSHALI &              | 1/26         | VI           | M       | VKN    | W       | N      | KW      | Veh     | VES   | +    | /200    | -      | -      | - |
| -    | PADA SURBINHA C               | 1            | ¥ 1          | ~ .     | 1-1-   | V       | -      | 104     | 1       | VH    | 1    | KIT     | -      | -      | - |
| -    | WANT ROHAN V                  |              |              | 1       |        |         | +      | -       |         | _     | +    |         | +      | -      | 4 |
| -    | terror and the second         | Blh          | B            | 200     | 0      | 2       | 1      | 0 1     | m       | Ban   | 10   | 1       | -      | -      | 4 |
| 0340 | DAKA WESHA.                   | 1000 10100 C |              |         |        | Br Tale |        | 1       | Sec.    | 14-   | 1.00 |         |        |        |   |

At: Shirgaon Post: Virar, Tal.: Vasal, Dist. Palghar

| 41 | PATIL DAKSHAT R                         |             |         |         |          |         |          |                     |         |        | +        |          |
|----|---|-------------|---------|---------|----------|---------|----------|---------------------|---------|--------|----------|----------|
| 45 | PARADER SHARAD                          | g .         |         |         |          |         |          |                     |         |        | $\vdash$ | -        |
| 46 | SHANVAR CHINT                           | U D         |         |         | 17.      |         |          |                     | _       | -      | $\vdash$ | _        |
| 47 | OJNA VISHAL S                           |             | N AFOUR |         | A 44 /1/ |         | 210/4    |                     | MAL     | MMF    | $\vdash$ |          |
| 38 | MADIYA MILAYK                           | 30720       | MONK    | 701 1   | MINIK    | 27.4 tr | MINE     | MAK                 | SAME!   | dill'  | -        |          |
| A  | Внавакнаса А                            |             |         | PARTY.  | EGMIL    | STUK    | MAK      | MATE                | MARK    | 2011   | $\vdash$ |          |
| 50 | SEJPAL HARMISN                          |             |         |         |          |         |          |                     | -       | -      | +        |          |
| 51 | KAPDULE OMKAR                           |             | +       | -       |          |         | _        |                     | -       | -      | $\vdash$ |          |
| 53 | TAMBE ANAY AS                           |             | -       | -       |          |         | -        | _                   | _       |        | $\Box$   |          |
| 53 | VANNALI DHRUV                           |             | +       | -       |          | -       |          |                     |         |        | $\Box$   |          |
| 54 | 200000000000000000000000000000000000000 | Lant P      | -       |         |          |         |          |                     |         |        | $\Box$   |          |
| 55 | PATIL PAYAL S<br>PAWAR PRIYASKA         | -           | 1       |         |          |         |          |                     |         |        | $\vdash$ |          |
| 57 | SAPATE ROBERTO                          | 11          |         |         |          |         |          |                     |         |        |          |          |
| 51 | SHINDE RUTIK A                          |             |         |         |          |         | 300      |                     |         |        |          |          |
| 35 | GAWADE KARUNA                           | .6          | Starl   | Gal     | Gr.      | The !   | Chi      | Gha                 | Ch      | Contra |          |          |
| 68 | GUPTA PRITI G.                          | 1.1.1.1     |         | 3       |          | 1100    | 134      | -                   | X_1.000 |        |          |          |
| 61 | PAWAR NIRAJ                             |             |         |         |          |         |          |                     |         |        |          |          |
| 58 | CHAUHAN AKSHI                           | Y.          | draw    | du      | du       | chan    | dm       | dm                  | dru     | dan    |          |          |
| 63 | AMIN GAUTAM                             |             |         |         |          |         |          |                     |         |        |          |          |
| 64 | PAWAR RAHUL                             |             |         |         |          |         |          |                     |         |        | -        |          |
| 65 | MURROCKAR AND                           | IT.         |         |         |          |         |          |                     |         |        |          | _        |
| 64 | KHADAYE BHAKT                           |             |         |         |          |         |          |                     | - 2     |        | -        | -        |
| 61 | KALE PRADEEP                            |             |         |         |          |         |          |                     |         |        | -        | -        |
| 68 | GHARAT HETESH                           |             |         |         |          |         |          |                     |         |        | -        |          |
| 65 | BHANDAKI PRADU                          |             |         |         |          |         |          |                     |         |        | -        | $\dashv$ |
| 78 | PATIL OMFAR                             |             | -       | 3       |          |         | -        | -                   | -       |        | -        |          |
|    |   | -           | -       |         |          |         | -        |                     |         |        |          |          |
|    |   |             |         |         |          |         |          |                     |         |        |          |          |
|    | NO OF STUDE                             | NTS PRESENT |         |         |          |         |          |                     |         |        |          |          |
| Sr |   |             | 1       |         |          |         | TOPICS C | OVERED              |         |        |          |          |
| 50 | Date                                    | Time        | -       |         |          |         | Service  | - N. C. D. I. C. C. |         |        | 1        | _        |
| 1  | 5 4                                     | 2:30        | inh     | odu     | ution    | 15      | Co       | いかと                 | and     | of tri | nn       | 3        |
| 2  | 5/8                                     | 3130        | 18      | Pao     | -D P     | OB,     | Jeso     | dent                | ing     | -      |          | 8        |
| 3  | 1219                                    | 21.50       | 200     | from    | wing     |         | end      | ha                  | dwa     | ae     |          |          |
| 4  | 1214                                    | 9130        | PCI     | 3 4     | anyon    | neu     | +        | radi                | oaro    | 60     | ofm.     | مدم      |
| 5  | 1919                                    | 2:30        | MA      | AB ?    | H , ID   | E       | cV. u    |                     |         |        |          |          |
| 6  | 1919                                    | 3130        | wo      | ellette | non      | h.      |          |                     |         |        |          |          |
| ,  | 24 9                                    | 2130        | 770     | 00 0    | 2        | cong    | on u     | 45.                 | Active  | 4      | Pasi     | 100      |
| -  | 26/2                                    | 3:30        | 1       |         |          | 1       | ideag    |                     |         |        |          |          |



SUBJECT INCHARGE

# VIVA Institute of Technology, Virar S.E. ELECTRICAL (2019-2020)

SUBJECT: SUBJECT INCHARGE:

| ı.    | Name   | 281    | 19  | 1/3/19    | 9/8/1 | 19 1/6 | 19     | 6 17/19 | 619/1 | 13/9/1  | 9 3191 | 9        | P   |        | 1        |
|-------|--|--------|-----|-----------|-------|--------|--------|---------|-------|---------|--------|----------|-----|--------|----------|
| No.   | fine   | 110    |     | 4/4       |       | 11     | 1      | 1       | 100   |         | -      | +        | _   |        | $\vdash$ |
| 1     | CONDEIAN SANGITA PREMIMARAYAN  | 1281   | 7 4 | SIP       | 08    | Cy     | 9      | C8P     | (281  | C89     | CS     | 81       | -   |        |          |
| 2     | GDBBLE ADITI SURYAKANT   | 1      | 1   | 1         |       | 1      |        | ,       | 1     |         |        | '        | 4   | 71-3   | -        |
| 1     | COPTA AVINASIIKOMAR SIOVALAL   |        |     |           |       |        |        |         |       |         |        | _        | 1   |        |          |
| 1     | DEBINAV RIDDIKANA.   |        |     |           |       |        |        |         |       |         |        |          | 4   |        | _        |
| 5     | KAMBLE SHWETA NAREHORA   |        | 0   | 2010 He I | 1     | 9,50   | N      |         | - 1   | 1254 IV |        |          | 1   |        |          |
| 6     | MUNDAYAT SHEETISH RAVINDRAN  | Mu     | ηÅ  | Herel     | A     | Mu     | de     | d       | Much  | Muy     | Much   | 1        | 1   |        |          |
| 1     | PASHTE POOLAKIRAN  | 100    | 7   | 7 18116   |       |        |        | - 117   |       | -       | 100000 |          | 1   |        |          |
| 8     | PATEL ALPESH MUKUND  | PAV    |     | DAW       | A     | Par    | M      | PAM     | PAm   | PAN     | PAM    | 1        | 1   |        |          |
| 9     | PATIE BISAVIN MARTANE  | 100    |     | 1         |       | 100    | 1      |         | -     | 1       |        |          | I   |        |          |
| 10    | PATIL SANCET SOPAN   | et.    | T   |           | A C.  |        |        |         |       |         |        |          |     |        |          |
| 11    | PAWAR FALGUS RANCHANDRA  | FALC   | )   | RP        | FRE   | FR     | P      | A       | TPR   | PRP     | FPP    |          |     |        |          |
| 12    | PILKE NISHANT RITENDRA   | 104    | Ť   | 17        | 11    | 11     |        |         | .,,   | 111     | 111    |          | T   |        |          |
| 1.1   | PIMPLE TAKAY NAKENDRA  |        | 1   |           |       |        |        |         |       |         |        |          | T   |        |          |
| 14    | RAWOOL PEATHAM PANDHARINATH  |        | +   | 1         |       |        |        |         | 50    | ٥       | 1      |          | Т   |        |          |
| 15    | SALYED AMAAN KAUSAR  | Sylv   |     | Sul       | SW    | Sul    | 15     | W       | Suppl | Sulv    | SIL    |          | Т   |        |          |
|       | SAWANT PRATIK RAVINDRA   | 17     | +   | 2 100     | 7     | 0      | 1      | 7       |       | 24.     | - 14   |          |     | $\top$ |          |
| -     | SHINDE RAJ SATISH  | 1      | t   |           |       |        |        |         |       |         |        |          | Г   |        |          |
| 18    | POOJAE: SNEHADEVRAJ  |        | +   | 00        |       |        | $\top$ |         |       |         |        |          |     |        |          |
| 19    | HAKARE BRAVESH SHREGANT  | That   | 4   | hard      | Trast | That   | W Th   | ane     | That  | habi    | There  |          |     |        |          |
| 10 1  | HAKARE CHETANA NARAYAN   | 1.     | 1   |           |       |        | 1      |         |       |         |        |          | Г   |        |          |
| 1 0   | PADHYAY ALOK B.  | Any    | 17  | Aus       | Aur   | AN     | 12     | full    | Aul   | ret.    | Auri   |          |     | 1      |          |
| +     | EDGA ASMITA RAMDIANINA   | -      | -   | lona      | Vell  | Ves    | ÚÝ.    | ab      | Vely  | Very    | Ver    | 4        |     |        | 7        |
| +     | EKHANDE FRATHMESH FRAKASH  | vem    | ۲   | 0         | 1     | 1      | 1.     | 1       | 1     |         | 1      |          | Т   | 1      | 7        |
| +     | SHWAKARMA PRINCE KUMAR R.  | 1      |     |           | -0    |        |        |         | -     |         |        |          |     |        | 7        |
| +     | DAY AAKASH SATISR  |        |     |           |       |        |        |         |       |         |        |          |     |        | 1        |
| +     | NKHE YUGAN   |        |     |           |       |        |        |         |       |         |        |          |     |        | 1        |
| +     | UWAVIN   | Zioni. | 1   | OA A      | CA    | Goul   | 16     | Miles   | A     | a /     | real   | $\dashv$ | Т   | 1      | 1        |
| -     | PTA HARSHAL B  | Tom    | 2   | 1         | 117   | CTVN   | -      | W       | -     | -       | 1      | _        |     | +      | 1        |
| -     | OIR AMISHA D   | 20.7   |     | -         |       | -      |        |         |       |         |        |          |     |        | -        |
| -     |  |        | -   | -         |       |        |        |         |       |         |        | $\dashv$ |     | +      | +        |
| -     | SAVI SUYASH M<br>KWANA PRATIK B  | 1      | 71  |           |       |        |        | -       | -     | -       | -      | -        | -   | +      | -        |
| 1     | NK PARTH II  | Tak    | T   | altr      | 10)   | Tid    | 0      | 1       | ave " | Lauh-   | Toh.   | +        |     | +      | +        |
| 1     |  | CAV    | 10  | m         | -     | veo.   | 500    |         | come  | eur     | care!  | $\dashv$ | -   | +      | -        |
| -     | TIL RUSHIKESH K  |        | _   |           | -     |        |        | -       |       |         | -      | +        | -   | +      | -        |
| -     | ANAVE CHETAN F   |        | -   | -1        | -     |        |        |         |       |         | -      | -        |     | -      | -        |
| -     | PARA AVEIT R   |        | -   | -         | -     |        |        |         |       |         | -      | -        |     | -      | -        |
| -     | The state of the s |        | -   | -         | -     | -      |        | 1       |       |         | -      | +        |     |        | +        |
| -     | OTAM MITTER R  |        | -   | -         | -     | -      | _      |         |       |         |        | +        |     |        | -        |
| -     | E NOTESH BURKAN  | W      | - 0 | 1         | ten   | 1/1    | 3 //-  | NT)     | 7.LN  | 10      | Maria  | -        | -   | -      | -        |
| -     |  | Wr     | 24  | V         | 1-1   | VIG    | AK     | V       | K14 1 | ( FOT   | KIT    | +        | _   | -      | -        |
| -     | PADA SURECHA C   | -      | _   | -         | -     | -      |        | -       | _     |         |        | -        | 910 |        | 1        |
|       | ANT ROHAN V  |        |     | -         | -     | -      | _      | -       |       |         |        | 1        |     |        | 1        |
|       | SARA JITESB'A  |        | _   | _         |       |        |        |         |       |         |        |          |     |        |          |
| New Y | T KALPIT M   |        |     |           |       |        |        |         |       |         |        |          |     |        | 1        |

| 14 17 | ART DAKSHAT B                        |            |         | 1    |      |       |        |         |      |     |   |   |
|-------|--------------------------------------|------------|---------|------|------|-------|--------|---------|------|-----|---|---|
| 50    | ARADIE SHARAD G                      |            |         |      |      | 0-0-0 |        |         |      |     |   | L |
| 16 5  | HANVAR CHINTU D                      |            |         | _    |      |       |        |         |      |     |   | 1 |
| G 0   | URLA VISHAL S                        |            | courts. | NIMI | FONT | MMX   |        | MMIX    |      | MMK |   | - |
| -     | MADAYA MILAN K                       |            | STA     | 1    | MMK  | Dia   | RIAV   | RHE     |      | BHK | _ | + |
| -     | SHARAKHADA ASHISI                    | •          | SAL     | BHI  | Date | Dur   | CONT   |         |      |     | - | + |
| -     | SEIFAL HARMISH                       |            | -       | -    |      |       | 7      | 6       |      |     | - | + |
| -     | CAPOULE CINCAR                       |            |         |      |      |       |        |         |      |     | - | + |
|       | PANDE AMAY ASHOK<br>MADHAY EVITINSHA |            |         |      |      |       |        |         |      |     | - | + |
| -     | VARPEAU CHRUVESH                     | ,          |         |      |      |       |        |         |      | -   | - | + |
| -     | PATE PAYALS                          |            |         |      |      |       |        |         |      | -   | - | + |
| -     | PAWAR PRIYANSA                       |            |         |      |      | 7     | -      |         |      | -   | - | + |
| -     | SAPATE ROHET D                       |            |         |      |      |       |        |         |      | -   | - | + |
| -     | SHENDE EUTIK A                       |            | Sec.    |      | _    | 1     | 1      | 0       | 0    | 0.  |   | + |
| -     | DAWADE KAMONA G                      | A          | GK      | Caik | Sik  | (xk   | (at    | H-AE    | 35   | Gre | - |   |
| 60    | SUPTA PRITEG.                        |            | 7 15    |      |      |       | -      | -       | _    |     |   |   |
| 61    | PAWAR NIRA)                          |            |         |      | 1    | -     | al.    | 10      | 1    |     |   | T |
| 62    | CHAUHAN AKSHAY                       |            | dra     | Non  | 1 am | Chan  | Leva   | draw    | Cha  | 7   |   | I |
| 63    | AMIN GAUTAM                          |            |         |      | -    |       | -      | 115     | -    |     |   |   |
| 64    | PAWAR RAHUL                          | DSC TIME   |         |      | -    | 13.0  | -      | 1       |      |     |   |   |
| 65    | MURUEKAR ANIEET                      |            |         | -    | -    | -     | -      |         |      |     |   | 1 |
| 66    | KHADAYE BHAKTI                       |            | -       | -    | -    |       | -      |         |      |     |   | 1 |
| -     | KALE PRADEEP                         |            | -       |      | +    |       |        |         |      |     |   | 1 |
| 44    | GHARAT HITESH                        |            | -       | -    | -    |       |        |         |      |     |   | - |
| -     | BHANDARI FRADR                       |            | -       | 1000 | 1    |       | 134    | 11      |      |     |   | + |
| 70    | PATIL OMKAR                          |            | + 1     | 100  |      | 48    |        | 1.6-    |      |     | - | + |
|       |                                      | _          |         |      |      |       |        |         |      | -   | - | + |
| _     |                                      |            |         |      |      |       |        | 1       |      |     | - | + |
| -     | NO OF STUDEN                         | IS PRESENT |         |      |      |       |        |         |      |     |   | + |
| Sr    | Date                                 | Time       |         |      |      |       | TOPICS | COVERED |      |     |   | _ |
| 1     | 02/18                                |            | In      | line | and  | 01    | NO     | e po    | refe | 905 |   | _ |
| 2     | 01.6                                 |            | P       | GIA, | mt   | LF,   | LC     | c       |      |     |   |   |
| 3     |                                      | 1 - 1      | 8       | mai  | 1 0  | mol   | me     | 100     |      |     |   |   |
| 4     | 110                                  |            | 0       | PF.  | TOF  | 9.    | PLC    | -       |      |     |   |   |
| 5     | .6 09                                |            | 2       | Eve  | Lope | me    | w      | 100     | 6.   |     |   |   |
| 6     | 02/29                                |            | -       | CAD  | to   | 15    |        |         |      |     |   |   |
| 7     | 100                                  |            | 7       | ich  | ial  | 1     |        |         |      |     |   |   |
| 17.1  | 18/2                                 |            |         | um   |      |       |        |         |      |     |   |   |



Paurl ' SUBJECT INCHARGE

# VIVA Institute of Technology, Virar S.E. ELECTRICAL (2019-2029)

SUBJECT: SUBJECT INCHARGE:

| n.   | Name                         | 12/9/19 | 1219/14 | M/le/19 | 4.40/15 | n/1/19 | Y /le/19 | 17/19/19 | U/36/19       | P      | C      | L    |
|------|------------------------------|---------|---------|---------|---------|--------|----------|----------|---------------|--------|--------|------|
| No.  | Time                         |         |         |         |         |        |          |          |               |        |        | L    |
| 1    | CHOUHAN SANGITA PREMINARAYAN | 279     | OCEA    | OSA     | CLA     | CA     | CAD      | CSP      | CSP           |        |        | L    |
| 2    | GUBILE ADDI SURYAKART        | 1       | 1       | 1       | 1 9     | 1      | 1        |          | ,             |        |        | L    |
| 1    | GOPTA AVINABIBUMBUR SEWALAL  | 1 8     |         |         |         |        |          |          |               |        |        | L    |
| +    | ADRAV KOORE AVE.             | _       | _       |         |         |        |          |          |               |        |        |      |
|      | KAMBLE SHIRETA NAKENDRA      |         | 11/     |         |         |        | 11/      |          |               |        |        | L    |
| 6    | HUNDAVAT SREETISH RAVINDRAN  |         |         |         |         |        |          |          |               |        |        | 1    |
| 7    | PASHEE FOOTA KIRAN           |         |         |         |         |        |          |          |               |        |        |      |
| 8    | PATIL ALPESH MUKUND          |         |         |         |         |        |          |          |               |        |        | ī    |
| 0    | PATE HHAVIN MARTAND          |         | 1       |         |         |        |          |          |               |        |        |      |
| 10   | PATE SANSET SOFAN            | 300     | 801-0   | 200     | SÃO     | SAP    | 800      | SAP      | 540           |        |        |      |
| 11   | FAWAR FALGUNG RANCHANDINA    | EDP     | DRI     | FRI     | ERP     | FED    | 177      | FE       | FEP           | $\neg$ | $\neg$ | ī    |
| 12   | PIEKE NISSANT JITENDRA       | 117     | 117     | 17      | 17      | 17     | 111      | 17       | 111           | $\neg$ | $\neg$ |      |
| 13   | PINIPLE TANAT NAZIENDRA      | 17      |         |         |         |        |          |          |               | $\neg$ |        | _    |
| -    | RAWOOL PRATHAM PANDRINGTH    | OnD     | Drive   | Δ       | pmp     | 000    | mo       | PND      | porp          | +      |        |      |
|      | SALVED AMAAN KALSSAR         | 1       | 100     | -       | 100     | 1      | 100      | 101      | 1             | +      | $\pm$  | -    |
| -    | SAWANT PRATIE RAVINDRA       | 1       |         |         |         |        |          |          | 951           |        |        |      |
| -    | SHINDE BAJ SATISH            | SIRI    | DI      | ORI     | 001     | 8PJ    | RAVS     | 100      | 893           | +      | 1      |      |
|      | POGGARI SNEHA DEVIKAL        | LOPA    | 040     | 010     | 000     | 000    | 010      | 01-0     | OF            | +      | _      | _    |
| -    | THAKARE BRAYESH SHEIKANT     |         |         |         |         |        |          |          | $\rightarrow$ | +      | -      | -    |
| -    | THAKARE CHETANA NARAYAN      |         |         |         |         |        |          |          |               | +      | 1      | -    |
| +    | JPADHYAY ALOK B              | 1       |         | - 27    | 700     |        | -        |          | -             | -      | +      | -    |
| +    | EDGA ANNITA RANCHANDRA       | Veil    | 1/0/1   | Vedy    | T 6de   | Vedy   | A        | Veden    | Vedi          | +      | +      |      |
| +    | EKHADOE PRATHMESH PRAKASH    | ven     | Vee     | verage  | Von     | very   | 10       | vicon    | wan           | 1      | +      |      |
| +    | ISHWAKARMA PRINCE KUMAR R.   | -       |         | -       |         |        | -        |          |               | +      | -      | ì    |
| +    | ADAY AAKASII SAYBII          |         |         | -       |         |        |          | -        | -             | +      | +      | +    |
| +    | ANIONE YUGAY                 |         |         |         | -       | -      |          | -        |               | +      | +      | ÷    |
| ٠    | PE PRAYIN                    |         | -       |         |         |        |          |          | -             | +      | +      | - 12 |
| ٠    | UPTA HARSHAL B               |         | -       |         | -       | -      | -        | -        | _             | +      | +      | -    |
| ٠    | HOER AMESHA D.               |         |         |         | -       | -      | -        | -        | -             | +      | +      | -    |
| +    | DSAVISUYASHM                 |         |         |         |         |        | -        |          | _             | -      | -      | -    |
| +    | AKWANA FRATIK B              |         |         | -       | -       |        |          |          | -             | -      | +      | -    |
| +    | ONE PARTIEB                  | toil    | Took    | Lab -   | tailt   | 200    | F 10     | Tark     | Λ             | +      | +      | -    |
| +    | ATTL RUSHIKESH K             | Jours.  | low     | JOHN .  | Jour    | pure   | me       | lauk     | 7             | +      | +      | 4    |
| t    | HANAVE CHETAN F              |         |         | -       | -       |        |          | -        |               | +      | -      | -    |
| ٠    | AN ANUTURN                   |         | -       | -       |         |        |          |          | -             | +      | -      | 4    |
| -    | RPARA ADICT R                |         |         |         | -       | -      |          | _        |               | -      | -      | -    |
| -    |                              |         |         |         | -       | -      |          | -        |               | -      | -      | 4    |
|      | NAME MARK R                  |         | -       | -       | -       | -      | -        |          |               | -      | -      | 4    |
| -    | NE NETESHBHIKAIL             |         | -       |         |         |        | -        |          |               |        | -      |      |
|      | MEHAR VRUSHALI B             | -       |         |         |         |        |          |          |               | -      |        |      |
|      | LPADA SUREXINA C             |         |         |         |         |        |          |          |               |        |        |      |
| -    | WANT ROHAN V                 |         | -       |         |         |        |          |          |               |        | 1      |      |
| _    | JSARA JUESIKA                |         |         |         |         |        |          |          |               |        |        |      |
| AAI, | /T KALPITH                   |         |         |         |         |        |          |          |               |        |        | 7    |

| 10       | TE DAKSHAT B       |            |       |        |        |            |        |         |     |  |       |         |
|----------|--------------------|------------|-------|--------|--------|------------|--------|---------|-----|--|-------|---------|
| 7.5      | ARACHG SHARAD G    |            |       |        |        |            |        |         |     |  |       |         |
| i s      | HANVAR OHDITU D    |            |       |        |        |            |        | _       |     |  |       |         |
| 1,0      | BA VISHAL S        |            |       | Taxat. | -11111 | and s      | MNV    | rais/() | MNZ | MMIX   |       |         |
| 8 14     | DACKYA MILAN K     |            | Milit | Lubik  | WWK    | Libit      | MMK    | 1441    | THE | 11.4   |       |         |
| 9 11     | HARAKHADA ASHISH   |            |       |        |        |            |        | -       |     |  |       |         |
| 0 9      | EPAL HARMISH       |            |       |        | -      |            |        | -       |     |  |       |         |
| 91-2     | CAPDILLE OMKAR     |            | -     |        |        |            |        |         |     |  |       |         |
| 52       | TAMBLE AMAY ASPICE |            | -     |        | _      | -          |        |         |     |  |       |         |
| 93       | ACHAY SAMIKSHA     |            | M.    | Man    | Vop    | 1/1/20     | UDa    | 1/1/2   | VAP | VPP  |       |         |
| 54       | ANCHALI DHRUVESH   | p          | Nap   | Aph    | ALL    | VP         | VOF    | VID     | ADI | 111  |       |         |
| 55       | PATE PAYOLS        |            | 1     |        |        |            |        |         |     |  |       |         |
| 56       | PAREAR PRIVATIKA   |            | -     | -      |        |            |        |         |     |  |       |         |
| 57       | SAPATE BORRE D     |            | -     | -      |        | -          |        |         |     |  |       |         |
| 58       | SHEYDE BUTTE A     |            | -     |        | 1      | 100        |        |         |     |  |       |         |
| -        | SAWADE KARUNA G    |            | 1     | 6 5 5  |        |            | 1      | 1       |     |  |       |         |
| -        | OUPTA PRITTI G.    |            | -     |        |        |            |        | 1.5     |     | 1  |       |         |
| -        | CHAUHAN AKSHAY     |            | L.    | dru    | N      | do         | 1      | dra     | du  | Chan   | -     |         |
| 62       | AHEN GAUTAM        | 100        | TVW   | 1 Cres |        | 1          |        |         |     |  |       |         |
|          | PAWAR RAHUL        | 13.1       | 1     | -      |        |            |        |         |     |  |       | -       |
| 0.0      | MURUDKAR ANIKET    |            |       |        |        |            |        |         |     |  |       | -       |
| 65       | SHADAYE BHAKTI     |            |       | 100    |        |            |        |         |     |  |       | -       |
| 67       | SALEPKADEEP        |            |       |        |        |            |        |         |     |  | -     | $\perp$ |
| 68       | GHARAT HITESH      |            |       | 1      |        |            |        |         |     |  |       | -       |
| 69       | BHANDAU PRADIP     |            |       |        |        |            |        |         |     |  |       | -       |
| 70       | PATIL DINKAR       |            |       |        |        |            |        |         |     |  | -     | +       |
|          | T.K.               |            |       | - 5    | 138    |            |        |         | -   |  | -     | -       |
|          |                    |            |       |        |        |            |        |         | -   | -  | -     | +       |
|          |                    |            |       |        | _      | 1          |        | -       | -   | -  | -     | +       |
|          | NO OF STUDEN       | IS PRESENT |       |        |        |            |        | -       |     | -  | _     |         |
| Sr       | Date               | Time       |       |        |        |            | TOPICS | COVERED |     |  |       |         |
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| 2        | -                  |            | 3     | Proper | us to  | 100        |        |         |     |  |       |         |
| 3        | 100                |            |       |        |        |            | wee    | Hng     | 3   |  |       |         |
| 4        | 150                |            |       |        |        |            | wi     |         |     |  |       |         |
| 5        |                    | 41===      | _     | 'cB    | 100    | The second |        | 1       |     |  |       |         |
|          | 110                |            |       |        |        |            | da     | learing | Han |  |       |         |
| -        |                    |            |       |        |        |            | ٥,     |         |     |  |       |         |
| <u> </u> | 25/10              |            |       |        |        |            |        |         | 1   | THE STATE OF THE S |       |         |
| 8        | 25/10              |            |       | IPC    | 6+0    | nola       | relo   |         |     |  | Barl. | _       |





## VIVA Institute of Technology, Virar S.E. ELECTRICAL (2019-2020)

SUBJECT: SUBJECT INCHARGE:

| R  | Name                               | 25/14/15 | W/ 1+19 | ~ Av.19   | 14/1919 | 14/10/19 | 4/1/1 | 9 \$1/6/19   | 3//(#19 | P | C      | - |
|----|------------------------------------|----------|---------|-----------|---------|----------|-------|--------------|---------|---|--------|---|
| No | line                               |          |         | 1.51      | -W      |          |       |              |         |   |        | L |
| 1  | CHOUSIAN SANGITA PRIM NASKAYAN     | 4099     | PCSI    | 7 34      | ass     | C89      | C9x   | 1001         | CEP     |   |        | L |
| 2  | GURILE ADITI SURYAKANT             |          | 1       | 1         | 1       | 1        | 1     | 4            |         |   |        |   |
| 1  | CIDPTA AVINASHIKIMAR SEWALAL       |          |         | 1         |         |          |       |              |         |   |        |   |
| 4  | JADIENV SECON AND                  |          |         | 1         |         |          |       |              |         |   |        |   |
| 5  | CAMBLE SHIVETA BARENDRA            |          |         |           |         |          |       |              |         |   |        |   |
| 6  | PRINCIPATAT STEETISH RAVINDRAY     |          |         |           |         |          |       | 1            |         |   |        |   |
| 4  | PASHTE POOTA KIRAN                 |          |         |           | 1       |          |       |              |         |   |        |   |
| 8  | PATTL ALFESH MUKUND                |          | 1       |           |         |          |       |              |         |   |        |   |
| 9  | PATEL THAVEN MARTAND               | 1        |         |           |         | 1        |       |              | 1       |   |        |   |
| 10 | CATIL SANKET SURAN                 | 2.8      | Sul     | Caf       | Sol     | Sol      | Sol   | See          | Cal     |   |        |   |
| 11 | PAWAR FALGUN RANCHAPTIRA           | 17       | LAP     | FAR       | FAR     | DIP      | 4     | 110          | FAR     |   |        |   |
| 12 |                                    | Mot      | Sil     | Aid       | Dia     | 9714     | Park  | DAM          | PAUL    |   |        |   |
| 13 | FINIPLE TANAY BARENDIA             | DAA      | Pha     | The       | Plan    | 10h      | OV    | pno          | Town    |   |        | ī |
|    | RAWOOL PRATHAM PANDHARINATH        | 4        | 1       | Province. | 1       | 1        | 1     | 1            | ,       |   |        |   |
| 15 | SALYED AMAAN KAUSAR                |          |         |           |         |          |       |              |         |   |        | Т |
| 16 | SAWANT PRATIC RAVINDRA             |          |         |           |         |          |       |              |         |   |        |   |
| 17 | SHINDE RAJ SATISH                  | 1 1      | 1111    | 200       |         |          | ,d)   |              |         |   |        |   |
| 18 | PODJARI SKEJA DEVRAJ               | Pall     | Down    | Chila     | Dukt    | Pus      | pas   | POUT         | Post    |   |        |   |
| 19 | THAKARE BRAVESH SHREKANT           | 170      | 100     | 400       | Tec     | TOR      | tree  | 1700         | Tel     |   |        | Т |
| 20 | THAKARE CHETANA NARAYAN            | Ma       | VED     | VID S     | 105     | 105      | 103   | 1100         | 103     |   |        | П |
|    | UPADHYAY ALOK B.                   | 100      | 140     | N.        |         |          | 10    |              |         |   |        | Т |
|    | VEOGA ASMITA RANCHANDRA            | Vech     | · A     | Vest      | A-      | Veden    | A     | That.        | Val     |   |        |   |
| -  | VEKHANDE PRATHMESH PRAKASH         | - War    |         | V-Ch.     |         | 1        |       | A CONTRACTOR |         |   |        |   |
| -  | VISHWAKARMA PRINCE KUMAR R.        | lou      | 1 bx    | TOK.      | A       | 1,00     | vet   | 1/96         | 1/96    |   |        |   |
| 1  | YADAV AAKASII SATISH               | ME       | VP      | VIV       | 4       | ME       | A &   | 412          | 1       |   | $\neg$ |   |
| +  | SANKHE YUGAN                       | Salla    | Calv    | Call      | Soul    | Soul     | Soul  | Sul          | Sull    | _ |        |   |
| +  |                                    | Don.     | seve    | year      | and     | - Cur    | Jugg  | - In         | 30.74   |   |        |   |
| 1  | ZIU PRAVIN                         |          |         |           |         | 44       |       |              |         | 1 |        | Т |
| +  | SUPTA HARSHAL B<br>SHOER AMISHA D. |          |         |           |         |          |       |              |         | + | +      |   |
| +  |                                    | 1        | -       |           |         |          |       |              |         |   |        |   |
| -  | NOSAVI SUYASHIM                    |          |         |           |         |          |       |              |         |   |        | _ |
| -  | MAKWANA PRATIK B                   | Tab      | Tool    | Tail      | Tail    | Tout     | A     | Toul         | Total   | + | -      | - |
| +  | CANCEPORTED                        | Por      | - DUA   | · Jour    | - James | Jour     | 4     | lanc         | -1904   | 1 | -      | - |
| +  | ATIL RUSHIKESH K                   |          |         |           |         |          |       |              |         |   | -      | - |
| +  | DHANAVE CHETAN F                   |          |         |           |         |          |       |              |         | - | -      | - |
| +  | AZE ASHUTOSH N                     | MAD      | MAD     | 11/0      | 17.44   | UAC      | 1116  | 11/2         | 11.10   | + | -      | - |
| +  | IDVARA ANKIT R                     | MAK      | MAK     | MA        | 1777    | MY       | MAL   | MP           | HARL    | - | -      | _ |
| 1  | ANDAM MITTER                       |          |         |           | -       |          | - 10  | •            |         | - | -      | _ |
| 1  | ASE NITESH BHIKAN                  |          |         |           |         |          |       |              |         |   |        |   |
| K  | UMBHAR VRUSHALI B                  |          |         |           |         |          |       |              |         |   |        |   |
| V  | ELPAGA SUITERHA C                  |          |         |           |         |          |       |              |         |   |        |   |
| S  | AWANT ROHAN V                      | 0        | _       |           |         | -4       | -1    | 01           |         |   |        |   |
| D  | IUSAKA JITESHA.                    | byen     | Br      | 100       | bor     | Bhu      | Khy   | Bhi          | Λ       |   |        | 1 |
| 10 | AUT KALPITM                        | 0        | 29      | 0         | 0       | 1        | 00    | - 1          |         |   |        |   |

| 44       | PATIL DAKSHAT II |               |                |         |           |        |          |        |        |        | -        | - |
|----------|------------------|---------------|----------------|---------|-----------|--------|----------|--------|--------|--------|----------|---|
| 45       | PARADHI SHARAD G |               |                |         |           |        |          |        |        |        |          | + |
| 46       | SHAMVAR CHENTU D |               |                |         |           |        | 40       |        |        |        | -        | - |
| 47       | OJHA VISHAL S    |               |                |         |           |        |          |        | *****  | Bonelo | -        | - |
| 41       | MADIYA MILANIK   |               | MMA            | MM      | MMK       | WAY    | MMY      | PYNY   | TIME   | MIMK   | -        | + |
| 49       | BHARAKHADA ASHI  | 214           |                | BAM     | BU        | RIM    | BAN      | RHE    | BAK    | RHK    |          | + |
| 50       | SEIPAL HARRISH   | 127           | 13             | 200     |           |        | -        |        |        |        | -        | + |
| 51       | KAPDULE DMKAR    |               | 1.5            |         |           |        | 4        |        |        |        | -        | + |
| 52       | TAMBE AMAY ASHO  | 00            |                |         |           |        |          |        |        |        | $\vdash$ | + |
| 53       | JADHAV SAMKSHA   |               |                |         |           |        |          |        |        |        | -        | + |
| 54       | VANHALI DHRUVESI | n P           |                |         |           |        |          |        |        |        | -        | + |
| 55       | PATIL PAYALS     |               |                |         |           |        |          |        |        | _      |          | + |
| 56       | PAWAR PREVIOKA   |               |                |         |           |        |          |        |        |        | -        | - |
| 57       | SAPATE BOHLT D   |               |                |         |           |        |          |        |        |        | -        | + |
| 58       | SHINDE RUTK A    |               |                |         |           |        |          |        |        |        | -        | - |
| 59       | GAWADE KAEUNA G  | 1             |                | -       |           |        |          |        |        |        |          | + |
| 60       | GUPTA PRETI G.   | 101           | 913            | 11/4    | 100       |        | 1 183    |        |        |        | -        | + |
| 61       | PAWAR NIRAJ      |               |                |         |           |        |          |        |        |        | +        | + |
| 62       | CHAUHAN AXSHAY   | 1234          | On             | 4       | -         | Non    | 1 1      | thi    | . 6    | then   | -        | + |
| 63       | AMIN GAUTAM      |               |                | 1       |           | 1      | 1.       |        |        |        | -        | + |
| 64       | PAWAR RAHUL      |               |                |         |           | 7      |          |        |        |        | -        | + |
| 65       | MURUDEAR ANKET   |               | -              |         | -1-1      |        | Bkh      |        | all    | ole    | -        | + |
| 66       | KHADAYE BHAKTI   |               | Bom            | 4       | BKho      | 4      | Skhe     | 1      | Ekhau  | Khu    | -        | + |
| 67       | KALE PRADECT     | 100           | 0,             |         | 215       | S.     | (E)      |        | -      |        | -        | + |
| 68       | GHARAT HITESH    | 1141          | 1 17           |         |           |        |          |        |        | -      | -        | + |
| 69       | BHANDARI PRADIP  |               | 1. 1.          | 2011    | A . A     | 0.1    | 0        | m - A  | not.   | and    | -        | + |
| 70       | PATIL ONKAR      |               | prob           | Oyak    | Opah      | Ofan   | Openh    | Open   | Upan   | Opah   | +        | + |
| -        |                  |               | 1              | 1       | -1        | 1      |          |        |        |        |          | - |
| -        |                  |               |                |         | -         |        |          |        |        |        |          | + |
| _        | NO OF STUDEN     | TO BEFFERENCE | +              | -       | -         |        | -        | -      |        |        | -        | + |
|          |                  | 15 PKESENT    | - 1            |         | -         | -      | 100000   |        |        |        |          | - |
| Sr<br>so | Date             | Time          | -              |         |           |        | TOPICS C | OVERED |        |        |          |   |
| i        | 25/10            | 41-27-1       | la             | 6 %     | rallice   | . 8    | orion    | 0      |        |        |          |   |
| 2        | 20/10            |               | A              | int     | ioni      | ing    |          |        |        |        |          |   |
| 3        | 26/10            |               | A              | um      | m         | esting |          |        |        |        |          |   |
| 4        | 26/10            |               | PC             | B d     | ustyr,    | , 4    | saction  | e .    |        |        |          |   |
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| 6        | 26/10            |               | 1/70           | my      | on        | 1 1    | onte     | the !  | 7      |        |          |   |
| 7        | 31/10            |               | and the second | gole    | - 1       | 1      |          |        |        |        |          |   |
| <u> </u> | 31/10            |               | de la          | lori    |           |        |          |        |        |        | -1-11    |   |
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Bast. SUMECTINGUARGE



## VIVA INSTITUTE OF TECHNOLOGY

(Affiliated to University of Mumbai; Approved by AICTE & DTE)

Veer Sayarkar Marg, Shirgaon, Virar 401303

Department of Electrical Engineering

## CERTIFICATE

This is to certify that,
Mr./Ms. Thakare Chetana Narayan
of SE Electrical
has successfully completed value added course on
"Printed Circuit Board Design"
organized by

**Department of Electrical Engineering** for A.Y. 2019-20 from 5<sup>th</sup> Jul 2019 to 31<sup>st</sup> Oct 2019.

Barrl.

Prof. Bhavita Patil Course Coordinator 3880

Prof. Bhushan Save Head of Department



## **VALUE ADDED COURSE**

| Name of Course:       | Electrical Safety Practices | Branch:             | Electrical Engineering |
|-----------------------|-----------------------------|---------------------|------------------------|
| Duration:             | 30 Hours                    | Coordinator:        | Prof. Pratik Mahale    |
| Date of Commencement: | 5 Jul 2019                  | Date of Conclusion: | 4 Oct 2019             |

|         | Course Outcomes  |  |  |  |  |  |  |  |  |
|---------|--|--|--|--|--|--|--|--|--|
| Upon su | ccessful completion of the course, the student must be able to   |  |  |  |  |  |  |  |  |
| CO1     | Understand the Indian power sector organization and Electricity rules, electrical safety in residential, commercial, agriculture, hazardous areas and use of fire extinguishers. |  |  |  |  |  |  |  |  |
| CO2     | Outline the electrical safety during installation, testing, and commissioning procedures.  |  |  |  |  |  |  |  |  |
| CO3     | Make use of specifications of electrical plants and classification of safety equipment for various hazardous locations.  |  |  |  |  |  |  |  |  |
| CO4     | Distinguish various fire extinguishers and their classification.   |  |  |  |  |  |  |  |  |

|          | Syllabus  |       |
|----------|---|-------|
| Unit No. | Contents  | Hours |
| 1        | Introduction To Electrical Safety, Shocks And Their Prevention:  Term and definitions, objectives of safety and security measures, Hazards associated with electric current and voltage, who is exposed, principles of electrical safety, Approach to prevent Accidents, the scope of subject electrical safety. Primary and secondary electrical shocks, possibilities of getting an electrical shock and its severity, medical analysis of electric shocks and its effects, shocks due to flash/ Spark over's, prevention of shocks, safety precautions against contact shocks, flash shocks, burns, residential buildings, and shop. | 6     |
| 2        | Overview of the Safety Model: Wiring and fitting, Domestic appliances, water tap giving a shock, shock from the wet wall, fan firing shock, multi-storied building, Temporary installations, Agricultural pump installation, Do's and Don'ts for safety in the use of domestic electrical appliances.   | 6     |
| 3        | Electrical Hazards recognizing and Evaluating Preliminary preparations, safe sequence, the risk of plant and equipment, safety documentation, field quality, and safety, personal protective equipment, safety clearance notice, safety precautions, safeguards for operators, safety.  | 6     |
| 4        | Controlling Hazards: Safe Work Environment: Hazardous zones, class 0, 1 and 2, spark, flashovers, and corona discharge and functional requirements, Specifications of electrical plants, equipment for hazardous  | 6     |

|   | locations, Classification of equipment enclosure for various hazardous gases and vapors, classification of equipment/enclosure for hazardous locations.  |   |
|---|--|---|
| 5 | Controlling Hazards: Safe Work Practices: Fundamentals of fire, initiation of fires, types; extinguishing techniques, prevention of fire, types of fire extinguishers, fire detection and alarm system; CO <sub>2</sub> and Halogen gas schemes; foam schemes, Ladder safety fact sheet, Avoid wet working conditions and other dangers, Avoid overhead powerlines | 6 |

#### **Learning Resources**

#### **Text Books:**

1. Rao, S. and Saluja, H.L., "Electrical Safety, Fire Safety Engineering and Safety Management", Khanna Publishers, 1988.

#### **Reference Books:**

- 1. Cooper. W.F, "Electrical safety Engineering", Newnes-Butterworth Company, 1978.
- 2. John Codick, "Electrical safety handbook", McGraw Hill Inc., New Delhi, 2000.
- 3. Nagrath, I.J., and Kothari, D.P., "Power System Engineering", Tata McGraw Hill, 1998.
- 4. Wadhwa, C.L., "Electric Power Systems", New Age International, 2004.



| SUBJECT INCHARGE: _                            | 66      | 1/      |       |        |           | _      |        | _      | 14. 6  |          | 10- | T = | 1        |
|--|---------|---------|-------|--------|-----------|--------|--------|--------|--------|----------|-----|-----|----------|
| R. Name  | \$ 1971 | 3 /0/19 | 51-91 | 9 12/A | 19 12/4   | 310 3  | 14/419 | 104    | 19 M   | 19       | P   | C   | I        |
| No.  |         | 170     |       |        |           |        |        |        |        |          | _   |     | $\vdash$ |
| 1 MORE SHUDIEM SHANKAII                        |         |         |       |        |           |        |        |        |        |          |     |     |          |
| 2 AVERE SARVERS VISION                         |         |         |       |        |           |        |        |        |        |          |     | _   | $\vdash$ |
| 1 RAGINE REUAD PRABAD                          | 2ch     | ue Bajo | Pay   | we Ber | W Bo      | epus ! | Bergu  | Bou    | M. Bay | 119      | _   | _   |          |
| * DALDGROUPHWAR ADDRACH                        |         | 0       | 1.    | 1 . /  | 1 . (     | 0      | .0     | 1      | Jac    |          |     |     |          |
| ORIGIN NATTIK GAMESH                           | 497     | Brild   | 18008 | dan.   | K Ding    | 20     | HILL   | 2717   | 4917   | ᆚ        |     |     |          |
| 6 DESCRIVALLA DE VANCET SCRUSS                 |         | 1       | -     |        | 7         |        | = 517  |        |        | 1        |     |     |          |
| + MONORE MENTANDAN                             | 344     |         |       |        |           |        |        |        |        | 4        |     |     |          |
| 8 DUKALE DHIRAJ RAJU                           |         |         |       |        |           |        |        |        |        | 4        |     | _   | _        |
| ♦ CHAURASIA DEVAMEANDET                        |         |         |       |        |           |        |        |        | -      |          |     | _   |          |
| M GRAVAN BERPALIKANU                           | CDK     | COR     | CV    | PCP    | P -       | -C     | PK     | CDI    | POB    | 4        | -   | _   |          |
| H CHAVAN MAYUK VIJAV                           |         |         |       | 1      |           |        |        |        |        | 1        | -   | 1   |          |
| 12 CHAVAN RUDUA AJAY                           |         |         |       |        |           | 1      |        |        | -      | 1        | -   | -   |          |
| 13 DANDEKAR CHIWHAY                            | 0       | -       |       | -      | 10        | 1      | -0     | 0      | 000    | N        | -   | -   | _        |
| DARADE POOJA PRAKASH                           | Lleul   | Dow     | Lib   | duon   | Melon     | ull    | bull   | Llow   | Meer   | 4        | -   | -   | -        |
| 15 DAVANE DHAM RAISH                           |         |         |       |        |           | -      |        |        | -      | +        | -   | -   | -        |
| 16 DEHERIKAR YASH NARESH                       |         |         |       |        |           | -      | -      |        | -      | +        | +   | +   | -1       |
| 17 DHANGADA AMNASH OUVIND                      |         |         |       |        | -         | +      | -      | _      | -      | +        | -   | +   | -        |
| B DHEKTE VIPLESAMBLE                           | (n) (m) | 117.01  |       |        | -         | -      | -      |        | -      | +        | +   | +   | -        |
| 19 GAJKAR JAGRUTT SURESH                       | 0.      | _       |       | -      |           | -      | 0      |        | 1      | +        | +   | -   | -        |
| ON GADNIKAR DINKAR VIDAY                       | Selv    | Gal     | to    | Leen   | 4         | 100    | auri   | raw    | Gert   | 4-       | +   | +   | -        |
| GAVETANDET HJBERI                              |         |         |       |        |           | +      | -      | _      |        | +        | +   | +   | $\dashv$ |
| OLBILE LAXMINDAY                               | -       |         | _     | -      | -         | +      | -      | _      |        | 1        | -   | -   | -        |
| S GIPSAURIFA ATUL                              | -       | -       |       | -      | -         | +      | -      | _      |        | +        | +   | +   | -        |
| N CUPTA RAJENDRA BASHISHT                      | 0       | 1 0     |       |        | 1         | olo-   | Ar     | 1 (0)  | 2.6    | 1        | +   | +   | $\dashv$ |
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| ADAM ARSHWARYA MANGESH                         | I       |         | 20.1  |        | Last      | 1      |        | 201    | FON    | +        | +   | +   | $\dashv$ |
| KAMERKAR VRUSHABH MAHESH                       | Koma    | -       | carl  |        | Kan       | ¥      | -1     | -ewy   | 1-0/8  | 1        | +   | +   | -        |
| CANADE SAMESTINEI SUNT.                        |         |         |       |        | 1         | -      |        |        |        | 1        | +   | +   | +        |
| HASTE PRASPANT P                               |         |         |       |        |           | -      |        |        |        | $\vdash$ | +   | +   | +        |
| ERANCE VARBLEV PRAMICE<br>KOLEKAR KUSHAL VILAS | 1       | -       |       | -      | -         | 1      | -      |        |        |          | -   |     | +        |
| MOTEVAN DHUNG JASOJEH                          | 1       |         |       |        |           |        | 1      |        |        | -        | -   | +   | +        |
| MACHINERA ALIESANA                             |         |         |       | 10.25  |           | -      |        |        |        | -        | +   | +   | +        |
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| PATE PRATHIMESH KANTE                          |         |         |       |        |           |        | -      |        | -      | -        | 1   | -   | -        |
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At: Shirgaon Post: Virar, Tal.: Vasal, Dist. Palghar

|      | EDNEKAR ONKAR A    | NANDA       |          |       |        |        |           |         |         |          | -    | + |
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| 5 1  | VANE NETRA FRAK    | SH          |          |       |        |        |           |         |         | _        | -    | + |
| 16   | ATHOU PRASHEEL     | RATESH      |          |       |        | - 1    |           |         | -       |          | -    | + |
| 17 3 | ARPAL TEJAS RAME   | HANERA      |          |       |        |        |           |         |         |          | -    | + |
| 8    | SALUNKHE RIYA BI   | ARAT        |          |       |        |        |           |         | 200     | Table 4  | -    | + |
| 10   | LAMANT AADSTVA     | SERISH      | 2 timeth | 1-    | Jernin | -0     | 加口        | AMI'C   | HIJT    | 7411     | -    | - |
| 10   | SASE PARAG RATES   | in .        | -        |       | 1      |        |           | 11.     | 100     | - 1      |      | + |
| 91   | SAWANT BRAVANA     | JAYFRAKASH. |          |       |        |        |           |         |         | _        | -    | - |
| 52   | SAWANT SANKET I    | AYARIATTA   |          |       |        |        |           |         |         |          | -    | - |
| 53.  | SAYYED NEHAL IM    | 91          |          |       |        |        |           |         |         |          | -    | + |
| 54   | MARPOOLEMEN        | ff          |          |       |        |        |           |         |         |          | -    | + |
| 98   | STATE MELLANDE     | DAKA        |          |       |        |        |           |         |         |          | -    | - |
| 36   | DUADURMOLANIME     | D YACUT     |          |       |        |        |           |         |         |          | -    | - |
| 57   | STREET SCHALL FASO | RDAN        |          |       |        |        |           |         |         |          | -    | - |
| 55   | SINGILADA SHKUN    | AR ARUN     |          |       |        |        |           |         | -       |          | -    | - |
| 59   | STINGH PRABJECT J  | ASER        |          |       |        |        |           | 100     |         |          | -    | + |
| 60   | CINGH PRIYA SHU    | CHMARAVAN   |          |       |        |        |           |         |         |          | -    | - |
| 61   | SOLANKI VIGHNES    | H DOLIF     |          |       |        |        |           |         |         |          | -    | + |
| 62   | SOLIM HITESH RA    | NCHANDRA    |          |       |        |        |           |         |         | -        | -    | + |
| 63   | TAMORE HIMANSH     | U KIRAN     |          |       |        |        |           |         | _       |          | -    | + |
| 64   | OPAZBIYAY VINAY    | UMESH       | 1        |       |        | 100    | 100       | 100     | ma      | 1708     | -    | + |
| 45   | VICHARE FRANCE S   | RUHAS       | MPS      | MA    | NA     | NA     | VVS       | NA      | 1       | 112      | -    | - |
| 66   | VEHTWAKAKMA BR     | DESERVAMENT | 1 4      |       | 1      | . 5    | 1         | 1       | 1       |          | -    | + |
| d    | WANKHEDE MANIS     | H PUNDUK    | - Mari   | -     | MANY   | choku  | ed to the | gaine   | OF WILL | complete | -    | + |
| 68   | VADAV PANKAJ S     |             |          | -     | h-     | ~      | 00        |         |         | C        | -    | - |
| 9    | NAIK SIZKAPVA II   |             | Bula     | O BIL | SBN    | SBW    | ARY       | de      | BODIN   | BAN      | -    | + |
| 70   | KAUT SEURTI E      |             |          | 5/1   | 1      |        | -         |         | -       |          |      | + |
| 71   | SHIVNEK AL VISION  | itx.        |          |       | -      |        |           |         | -       |          |      | + |
| 72   | PANCHAL JATEN V.   |             |          |       | -      |        |           | -       | -       |          | -    | + |
| 73   | MENGEKAT ASHES     |             |          |       | -      |        |           | -       |         |          | -    | + |
| 74   | RAMPISE ROBLAN J   |             | 1 1      |       | 1. 1.  | 1.0    | 1.4       | Las     | hul     | Jaw      |      | + |
| 28   | IAISWAL AMETROM    | .FA         | Hally    | -     | James  | Journ  | John      | Jevan   | d Emil  | jew      | -    | + |
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SUBJECT INCHARGE

## VIVA Institute of Technology, Virar T.E. ELECTRICAL (2019-2020)

SUBJECT:

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|-----|--|-------|---------|----------|---------|---------|----------|---------|--|----------|--------|--------|
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| 1   | AGRE THURSIAM SHANKAS.   |       |         |          |         |         |          |         |  | $\vdash$ | -      |        |
| 2   | AYERE SARVESS VINOR  |       |         |          |         |         |          |         |  | -        | -      |        |
| 3   | BAGITE NINAD PIUSAD  | Por   | 40 R    | un Bar   | me Be   | WEB.    | rue Bay  | ue Ba   | Ju Ban   | 4_       | _      | -      |
| 4   | WALDGADE PAWAN ADBRADE   |       | N       |          |         | 1       | 1        | 1       | 10   | _        |        | _      |
| 5   | RHOIR NAITIK GARESH  | 197   | M -     | Dvi.     | - Ki    | 9419    | 2911     | 734     | 2000   | _        |        | _      |
| 4   | DIRECTOR DEVANGES SURESH   | 1     | -       |          |         |         |          |         |  |          |        |        |
| 2   | STEELE BITALL YADAY  |       |         |          |         |         |          |         |  |          |        |        |
| 8   | DUKALE DHIKAS KASIN  |       |         |          |         |         |          |         |  |          |        | _      |
| 9.  | CHASSASHIVAM RANGET  |       |         |          |         | 1 8     |          |         |  |          | _      |        |
| 10  | CHASASTREPALITARU  | 00    | DCD     | PICDI    | 20      | F CO    | RCDA     | -00     | COR  |          |        |        |
| 11  | CHAVON MARKE VIIAY   | 1     |         |          |         |         |          |         |  |          |        |        |
| 12  | CHAVAY RUTUR AIAY  |       |         |          |         |         |          |         |  |          |        |        |
| 13  | DAVIDEKAR CHINHAY  |       |         |          | A       |         | 1200     | 1 -     | 1-   |          |        |        |
| 14  | DARADE PODJA PRAKASH   | Da    | O Da    | al Da    | de Da   | de Da   | VI Done  | lla     | ed Dond  |          |        |        |
| 15  | DAVANCEBHANGRAICHE   | 1     |         |          |         |         | T        | 1       |  |          |        |        |
| 16  | DEHERIKAR YASH AARESH  |       | Inc     |          | 125     |         |          |         |  |          |        |        |
| 17  | DITANGADA AVENASH GOMNO  |       |         |          |         |         |          | 1       |  |          |        |        |
| 18  | DECOUTE VEVIL SANDEEP  |       |         |          | · W     | 1       |          |         |  |          |        |        |
| 19  | GAIXAR JAGRUTI SURESH  |       |         |          |         | 1 20    | 1        | 1       | 1 - 1  |          |        |        |
| 10  | GAONKAR ONKAR VIDAY  | Gart  | N/Ch    | A Circle | Want    | W-right | 4(901)   | W GOL   | Ger  |          |        |        |
| 1   | DAVEL ANDRET SURESH  | 1     | -       |          |         |         |          |         |  |          |        |        |
| 2   | SILBLELAXMEVDAY  |       |         |          |         |         |          | 1       |  |          |        |        |
| -1  | JUPTA PUYAATUS.  |       |         |          |         |         | 1        |         |  | 14       |        |        |
| +   | DUPTA PAJENDRA BASHESHT  | 1 0   |         | 1        |         | - 1     |          | 1 1     | 0  |          |        |        |
| 5 1 | GUPTA REENA SHEVKUMAR  | Fulk  | 1 Gul   | J. Gul   | south   | Gul     | (        | Truple  | Cours  | $\neg$   |        |        |
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| 7 1 | ADAM ASHVARYA MANGESH  | 1     | 1       | a little | TIEN    | 1100    | Tita     | 1       | The state of the s |          |        |        |
| -   | AMERIKAR VILUSHABH MAHESH  | Vary  | il Kan  | Morr     | il Koul | Kar     | Nave     | 1-Kan   | Kan  |          |        |        |
| +   | ANADE SAMBLOIGH SUND.  |       | 1       | 1        | 1.      | 1       |          | 1       |  | $\top$   |        |        |
| +   | HADE TRASHANTP   |       |         |          | 100     |         | 9.9      | 15      |  |          |        |        |
| +   | RANGE VARRIAN PRANCO   |       |         |          | 1       |         | 170      |         |  |          | $\top$ | $\neg$ |
| +   | OLDICAR KUSHAL VILAS   |       |         |          |         |         |          |         |  | _        | +      |        |
| +   | OTITAN OHIRAFIAGDESH   |       |         |          |         |         |          | 2       |  | 1        | _      |        |
| +   | ACHILIPAVAN PRAVIN   |       |         |          |         |         |          |         |  |          | +      |        |
| 1   | ARDOLKAR SACHIN DONKAR   | SUM   | cum     | Stant    | SMA     | SIM     | SDN      | COM     | gam  | +        | +      |        |
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| 1   | MIDICAR SACRIN SHIVRAM   |       |         |          |         |         |          |         |  | -        | +      |        |
| -   | CHAREKAR ASHISHKUMAR A   |       |         |          |         |         |          |         |  | -        |        | -      |
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| -   | IL PLANCIO RAMESH  |       |         |          |         |         |          |         |  |          |        |        |
|     | IL PRATHAMESH KANTI  | -     |         |          |         |         |          |         |  |          |        |        |
| FAU | SIO SIIIAM JAGANNATH   |       |         |          |         |         |          |         |  | 1        | 1      |        |

| 8  | 619                 | Ole San               | 1.716    | 44     | 70     | wo.        | 1 -      | 1        | ON (# 100) | 120    |      |   |
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| 75 | IABWAL AMITKUM      |                       | Dogije   | EMMI   | Julia  | 1111       | 1        |          | ,          | 7      |      |   |
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| 68 | YADAV PANKAJ S      |                       | 00.      | Onti   | CI.R.  | /          | Care     | SPA      | Brow       | Stru   |      | I |
| 67 | WANKHEDE MARIS      | SH PUNDLIK            | avair    | CHATA! | -      | - IFWI     |          |          |            |        |      | I |
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| 45 |                     |                       | Ves      | MA     | MA     | VPJ        | VP3      | 110      | 11         | 11     |      | T |
| 64 | STABHYAY VINAY      | UMESSI                | A.       | 100    | m      | 1/12/      | VIDE     | VPS      | VPS        | VPS    |      | T |
| 63 | TAMORE HIMANSH      | U KERAN               | A Partie |        |        |            |          |          |            |        |      | T |
| 62 | SOLIM HITESH FAI    | MCHAMORA              |          |        |        | 1.0        |          |          |            |        |      | 1 |
| 61 | SOLANKI VIGHNES     | H DOLIP               |          |        |        |            | -        |          |            |        |      |   |
| 60 | SINGH PRIYA SHUL    | SPERANAVAN            |          |        |        |            |          |          |            |        |      | T |
| 59 | SINGN PRADMET 3     | ASSGR                 | 200      |        |        |            |          | -        |            |        | -    | + |
| 58 | SONGILADARSHKUM     | AR ABUN               |          |        |        |            |          |          |            |        |      | 1 |
| 57 | DENDE SURAL DANA    | Threat and the second |          |        |        |            |          | -        |            |        |      | + |
| 56 | SKARH MORAMMET      | YAKUS                 |          |        |        |            |          |          | -          | -      | -    | 1 |
| 55 | STATUENCHARDE       |                       |          |        |        |            |          |          | -          |        | -    | 1 |
| 54 | SIGNIFICATION MORES |                       |          |        | 1      |            |          |          |            |        |      | + |
| 53 | SAFYED MEHAL 184    |                       |          |        |        |            |          |          | -          |        |      | + |
| 52 | SAWANT SANKET D     |                       |          |        |        |            |          |          | -          | -      | -    | + |
| 51 | SAWANT BHAVANA      |                       |          |        |        |            |          |          |            | -      | _    | 1 |
| 50 | SASE PARAG RANS     |                       | 4.7      | 1000   | (3)    | - 1        | - 1      | - 1      |            | V      |      | + |
| 19 | SAMANT AADITYA      | 0.000                 | Ame      | Hind   | dillo  | HAI        | MIT      | WHU      | - 4        | 州门     |      | T |
| 18 | SALUNKHE RIYA BH    |                       |          |        |        | 2          | 1.00     | Lat Cont | -          | Int.   |      |   |
| 17 | SAKPAL TEASBANG     | HANDRA.               | The same |        |        |            |          |          | -          |        |      |   |
| 6  | RATHOD PRASHEEL     | LAJESH                |          |        |        |            |          |          | -          |        |      |   |
| 5  | RAZIE NETRA PRAKA   | SH                    |          |        |        |            |          |          |            |        |      |   |



## VIVA Institute of Technology, Virar T.E. ELECTRICAL (2019-2020)

SUBJECT: SUBJECT INCHARGE: \_\_\_

| N.  | Neme   | 11      | /19   | 9.80     | 60       | 7/19  | 6/1    | /19   | 6 919 | 131   | 7/19 | 379         | /19      | 139   | 19       | P | C       |   |
|-----|--|---------|-------|----------|----------|-------|--------|-------|-------|-------|------|-------------|----------|-------|----------|---|---------|---|
| No. | Tiese  |         |       |          | T        |       |        |       |       | 7     |      |             |          |       |          |   |         | 1 |
| 1   | AGRE SHUHLAM SHANKAL                                   |         |       |          |          |       |        |       |       |       |      |             |          |       |          |   |         | I |
| 2   | AVERESARVESS VINOR                                     |         |       |          |          |       |        |       |       |       |      |             |          |       |          |   |         | I |
| 3   | BRIGHE NINAD PRASAD                                    |         |       |          |          |       |        |       |       | 1     |      |             |          |       |          |   |         | l |
| 4   | BULLICADE PAWAN ACINATE                                |         | 1     | -        | 1        |       |        |       | _     | 1     |      |             | 7        | -     | T        |   |         | l |
| 5   | BHOSE NASTIK GAVESH                                    | av      | 2     | 2 Pure   | 2        | X     | 200    | 19    | dir   | 1948  | ارد  | STICE STICE | 才        | 3115  | 2        |   |         | ľ |
| *   | SHEEDS SERVICED AND AND AND AND AND AND AND AND AND AN |         | -     | 10.1     | 1        | 27    | 0      | 170   | · P   | 1011  | 0    | -           | ay       | -     | -        |   |         | Γ |
| 7   | BORDLE MITALE YADAV                                    |         |       |          |          |       | 74     | -     | -     |       | 1    |             | +        | 7.5%  | 1        | 1 |         |   |
| 8   | BUKALE DHIRAJ RAJU                                     | DE      | 0     | -        | No       | 30    | na     | . 1   | D.    | DB    |      | NA          | 0.0      | DA.   | U        | ヿ | _       | - |
| 9   | CHAURASU SHIVAM RANDET                                 | EN      | ~~    |          | 100      | -     | Die    | CA A  | pu    | 100   | m    | Je          | 7        | A)n   | +        | 1 |         | - |
| 11  | CHAVAN DEEPALI ROJU                                    | 100     |       | 7 110    |          | -     |        |       |       | -     | +    |             | +        | _     | +        | + | -       | - |
| 11  | CRAYAN MAYUR VEAV                                      | Mu      | nt    | -        | nha      | 1     | May    | Al.   | _     | May   | f    |             | -14      | layo  | 1        | + | 1       | - |
| 12  | CHAVAN RUTURA ALAY                                     | 1.10    | 1 740 |          | 1 -100   | W     | LIM    | -     |       | 1100  | 4    |             | 1        | 1/140 | 7        | + | +       | - |
| 13  | DANDEKAR CHENMAY                                       | D       | 0     | _        | Flor     | A     | Da     | dir   | n.l   | Da    | A    | 17          | AI       | h     | 1        | + | +       | - |
| 14  | DARACE POOJA PRAKASH                                   | 10      | 4     |          | 10       | *     | in     | 44    | ME    | w     | ayı  | DYV         | 41       | MAN   | 4-       | + | +       | - |
|     | DAVANE ISKANI IKAJESH                                  |         |       |          |          |       |        | 1     |       |       | +    |             | 1        | - 10  | 1        | + | +       | - |
| -   | DEHERIKAN YASH MARESH                                  | YN      | nt    |          | Mari     | MIS   | TATE   | 111   | MI    | MY    | VV   | K10         |          | AI/   | -        | + | +       | - |
|     | DHANGADA AVENASH GOVIND                                | 17.74   | M     | 4        | YAL      | WA.   | 11410  | 171   | HI    | 1181  | 41   | NI          | 4/       | NÜ    | 1        | + | +       | _ |
| 8   | DHOKTE VIPUL SANDERS                                   |         | +     |          |          | +     |        | +     | -     |       | -    | _           | +        | _     | $\vdash$ | + | +       | - |
| -   | GAIKAA SAGRUTI SURESH                                  |         | +     |          |          | +     |        | 1     | -     | -     | +    | _           | +        | -     |          | + | +       | - |
| +   | GADNKAR DHKAR VIJAY                                    | _       | 7     | _        |          | _     | -      | 4     | 0     | 7.0   | +    | _           | +        |       | $\vdash$ | + | +       |   |
|     |  | 0       | M.    | 30ph     | 2.10     | D     | PICA   | 101   | -M    | 201   | 20   | ID.         | 1        |       |          | - | +       | _ |
| +   | CAVILI ANIKET SURESH                                   | 13/30   | 100   | SIORA    | PA       | 196   | TOP    | US.   | Gend  | 810   | 493  | 101         | 1        |       | _        | + | +       | _ |
| +   | SILBILITANMI VUAT                                      | -       | +     |          |          | +     |        | +     | -     | _     | +    |             | -        |       |          | + | -       | _ |
| +   | GUPTA BRIYA ATUL                                       | -       | +     | -        | _        | +     |        |       | -     |       | +    |             | $\vdash$ |       | _        | - | -       | _ |
| -   | GUFTA RAJENDRA BASHISHT                                |         | +     |          | _        | +     | -      | -     | -     | _     | +    | _           | ⊢        | _     | _        | - | +       | _ |
| +   | SUPTA REEMA SHIVKUMAR                                  | -       | +     | -        |          | +     | _      | -     | -     |       | -    |             | -        | _     |          | _ | -       |   |
| +   | IACAL SIPALI GANPAT                                    | nd.     | +     | Wit to   | M.       | 11    | n. 1   |       | -     | ART.  | 1    | 1           |          | 1     |          |   | $\perp$ |   |
| +   | ADAM AISBRARYA MANGEBI                                 | 11/1/20 | de    | Mkah     | PEDO     | MM    | Fode   | ME    | adr i | FIKOS | 417/ | cdn         | ME       | gh    |          |   |         |   |
| +   | AMERICA VRUSHABH MAHESH                                | 1.      | 1     | 1        |          | 4     | 1      |       | 1     |       | -    | 1           |          |       |          |   |         |   |
| -   | ANADE SAMBUDHHI SUNIL                                  | ppy     | 70    | ms       | phy      | 100   | INS    | ope   | 8 C   | PINE  | 9    | ris         | -        | -     | 10       |   |         |   |
| _   | HATE PLASEANT P  |         | +     | -        | 100      | -     |        |       |       |       |      |             |          | _     |          |   |         |   |
| 1   | RANGE VARIBAY PRANCO                                   |         | 1     |          | 2        |       |        |       | -     |       |      |             | 1        |       | Ш        |   |         |   |
| +   | OLEKAA KUSHAL VILAS                                    | 1.00    | -     |          | -        | -     |        |       |       |       |      | -           |          |       |          |   |         |   |
| ٠   | OTHAN OHIRAJ JAGDISH                                   | MP      | 1 -   | - 1      | all,     | 15    | 66     | KD    | GK    | Ca    | P    | 113         | H        | B     |          |   |         | 1 |
| 1   | ACTURE PAYAN PRAVIN                                    | -       | -     |          |          | -     |        |       | 1     |       | 10   |             |          |       |          |   |         | 1 |
| 165 | ARDOLKAR SACKIN DOWAR                                  | -       |       |          |          |       |        |       |       |       |      |             |          |       |          |   |         | 1 |
| 111 | WHA SANCEEP INDRAMANT                                  |         | 1     |          |          |       |        |       |       |       |      |             |          |       |          |   |         | 1 |
| 100 | PORAR SACHIN SHIYKAM                                   | N. L.   | -     |          |          |       | 10     |       |       |       |      |             |          |       |          | 7 |         | 1 |
| TA) | CHAREXAR ASPESHIOWAR A                                 | PM      | 1     | AH F     | AA       | Ph    | to     | AH    | IP    | AA    | PA   | #           | DA       | P     |          | 1 |         | 1 |
| PA) | TE. ANDRUDOHA VISHWANATH                               | 5 11    | 1     | STATE OF | 3/1-7/1- | 0000  |        |       |       |       | - 19 | 1           | 441      | +     |          |   |         | 1 |
| FAT | TIL ASHUTOSH SANCEEF                                   | 0       |       |          | 201      |       |        |       |       |       |      | 1           |          | +     |          | 1 |         |   |
| PAT | IL PRAMOD KAMESH                                       | bank    | -     | Po       | au Pur   | Photo | uftu / | roule | NB    | ouk   | bo   | per         | On       | Oth   | -        |   | -       |   |
|     | TL PRATHAMESH KANTI                                    |         |       | 1        | -        |       | 1 1    | -     | -114  | - 4   | PULL | 1           | 1000     |       |          |   |         |   |

| ATHOR PRAYHEEL RAJ   |  |  |  |   |  |  |  |  |  |  |  |
|--|--|--|--|---|--|--|--|--|--|--|--|
| ATHOD PRASHEEL BAL   |  |  |  |   |  |  |  |  | -  |  |  |
| - Committee of the last  | 151  | -  |  |   |  |  |  |  | -  |  |  |
| ARPAL TENS RAMON   | ARGA   | -  |  |   |  |  |  |  | -  |  |  |
| ALUNKHE RIYA BHAF  | UAT  |  | _  |   |  |  |  |  | -  |  |  |
| SAMANT ANDITYA GU  | USH  | -  | _  |   |  | 0.5  |  |  | -  | _  |  |
| SASE PARAG RAJESH  |  | -  |  |   |  |  |  |  | 500  | -  |  |
|  |  | 0.0  | CSD  | CSD   | S.8D.  | 5.S.D.   | S.S.D  | SSD  | 2017   | +  |  |
| SAWART SANKET DAT  | TATRAYA  | 5.5.0  | 246  | 30.6  |  | 200  |  |  | -  | +  | +  |
| SAVYED NEVAL DERM  |  | -  | -  |   |  |  |  |  | -  | -  | +  |
| MARTOOIX NUKESH  |  |  | -  |   |  |  |  |  | -  | +  | +  |
| WHITE MOTAMMED   | OUS  | -  | -  |   |  |  |  |  | -  | -  | +  |
| HUURCH MICHANIMED?   | (AKUB  |  | -  |   |  |  |  |  | -  | -  | +  |
| STORDE SURAL LANARD  | 5/04   | 1  | -  |   | _  | 0  | 0  | 0  | 0  | -  | +  |
| SPICIEADARSIRUMA   | L ARUP   | 0  | 1  | 2   | 6131   | Pipi   | 15/31  | PPI  | 50   | -  | +  |
| The state of the s | A STATE OF THE PARTY OF THE PAR | 12131  | 1  | 100   | Piel   | 4-12-  |  |  | 1  | -  | +  |
| The second secon |  |  | -  |   |  |  |  |  | -  | -  | +  |
| SOLANKI VIGHRESH   | DILIP  | -  | -  | 1   | 1  | 1  | 1  | 1  | 1  | +  | +  |
| SOLEM HETESH RAME  | HANDRA   | -  | 1  | ALL A   | cours !  | MATIN  | HILL   | URP C  | HIPHS  | +  | +  |
| TAMORE HIMANSHU  | KURAN  | 5-18-11  | 1  | Citters   | 21.11  |  |  |  | -  | +  | +  |
| UPADRIYAY VINAY D  | AESEL  |  | -  | 1   |  | 0.14   |  | -  |  | +  | +-   |
| VICHARE PRANIT SL  | HAS  | 1 13   | K  | 1   | 1  | 1  | 1  | 1  | 1  | -  | +  |
| VISEIWAKARMA BILLI   | SHRAMESH   | 1  | 1 -11-12   | in curte  | (Don's   | dies   | Stolen !   | savoi  | 541020   | -  | +  |
| WANKHEDE MANISH  | FUNDCIK  | - DVW  | Scale  | 0 4   | 1  |  |  |  | -  | -  | -  |
| VADAV PANKAJ S.  |  | _  | -  | -   |  |  |  |  | -  | -  | +  |
| HAIK SUKANYA B   |  | -  | -  | 1   | 100  |  | 3.5  |  | -  | -  | +  |
| EAST SPLETTS   | SHE COL  |  | -  |   |  |  |  |  | -  | -  | +  |
| SHIVNEKAR VEHNU  | В  | -  | -  | -   |  |  |  |  |  | -  | +  |
| PANCHAL JATIN'S  |  | -  | -  | +   |  |  |  |  |  | +  | +  |
| MUNGEKAR ASHISH  |  | -  | -  | -   | -  |  |  |  |  | -  | +  |
| KANNESE ROHAN J  |  | _  | -  |   |  |  |  |  | -  | -  | +  |
|  |  |  | -  | 1 10  |  | 18.1.  | 1900   |  |  |  |  |
| NO OF STUDEN   | TS PRESENT   |  | _  |   |  | TOPICS   | COVERED  |  |  |  |  |
| Tate !   | Time   |  |  |   |  | 200.043  | 2000   | a. Ja  | and L  |  |  |
| Gla  |  | Pe   | Soon   | of  | mot  | whn  | 6 4  | 97   | A  |  |  |
| -  |  | 1,1  | 2 au   | ene   | 1 no   | HU   | 271  | egha   | rels.  |  |  |
| 619  |  | 4  | -  | 0   | _  | EN 00  | 0  | . 11.  | 2  |  |  |
|  | - 14   | He   | 1300-  | -   | 00   | prier  |  |  |  |  |  |
|  |  | 80   | ach  | , 7   | naor   | reve   |  |  |  |  |  |
|  |  | do   | ron  | 9   |  | 0  | -  | ×  | Lin Ain  | 24. (  | re la  |
|  |  | 1  | lact 1   | cical   | pe   | an   | 6 9  | 1 .  | 720-110  |  | 1  |
| 2014   |  | M  | vzau   | Done  | 190  | roes   | and  | 4 4  | al al  | -  |  |
| 2019   |  | 1  | grip   | mu  | er   | cla  | dest   | COLV   | 2  | 1.   | 1.   |
| The same of the sa | SASE PARAG RAJESH SAWANT BRAVANA JA SAWANT SANKET DAT SAWANT SAWANT SAWAN SINGH PRABJEET JAS SURGH PRABJEET JAS WICHARE PRAMIT SI WANKHEDE MANTSH WANKHEDE WANKHESH WANKHEDE WANKHESH WANKHEDE WANKHESH WANKHEDE WANKHESH WANKHESH WANKHEDE WANKHESH WA | SAWART BRAVARIA JATRAKASH SAWART SARKET DATTATRAYA  SAFTED REPIAL DIVAN  HALL POOLA MIRKESH UNDER MCHAMBRED YAKUB SHINDE SURAL LADARDAN  LYGH ADARSHRUMAR ARUY SINGH PRABSET JASEIR SINGH PRABSET JASEIR SINGH PRIYA SHUBHNARAYAN SOLANKI VIGHRESH OILIP SILIM HETESH RAMCHANDRA TAMORE HIMARKHU KIRAN UTALBIYAY VINAY UMESH VICHARE PRANIT SUHAS VISHVAKARMA BILLISH RAMESH WANKHEDE MANISH PUNDUK VADAY PANKAJS SHAK SUKANYA B RAST STURTIS SHUKEKAR VISHNU B RAST STURTIS SHUKEKAR SHUSH RAST STURTIS SHUKEKAR VISHNU B RAST STURTIS SHUKEKA | SASE PARAGRAJESH  SAWANT BHAVANA JAYPRAKASH  SAWANT SANKET DATTATRAYA  SAYTES NEHAL SKAH  MARE POOLA NICKESH  MURCH MCHANDSED ANAS  MURCH MCHANDSED ANAS  MURCH PRABBEET PASEIR  SINGH PRABBEET PASEIR  SINGH PRABBEET PASEIR  SOLANKS VIGHRESH DILIP  MICHARE PRANIT SUHAS  VISHWAKARMA BELESH RAMESH  WANKHEDE MANISH FUNDOSK  VADAV PANKAJS  SAKS SUKANNA B  BANT SPLERTI S  SHUNKEKAR VISHBU B  PANCHAL JATEN V  MUNGEKAR ASHEB  AND UN STUDENTS PRESENT  DOSE  TIBE  619  1319  1319  CO  1 | ASE PARAG RAJESH  SAWART BHAVANA JAYPRAKASH  SAWART SANKET DATTATRAYA  SAWART SANKET DATTATRAYA  SAVE PRODUCT MERESH  UNUSUS MCHAMMED YAKUB  HUMBE SURAL LAVARDAN  SINGH PRABJEET JASBER  SINGH PRIYA SHUBHNARAYAN  SOLANKI VIGHRESH DILEP  SOLANKI SURANANA BIBEISH RAMESH  WANKHEDE MARISH PUNDUCK  VADAV PANKAJS  SANK SURANANA BIBEISH RAMESH  WANKHEDE MARISH PUNDUCK  VADAV PANKAJS  SINK SURANANA BIBEISH RAMESH  WANKHEDE MARISH PUNDUCK  VADAV PANKAJS  SINK SURANANA BIBEISH RAMESH  WANKHEDE MARISH PUNDUCK  VADAV PANKAJS  SINK SURANANA BIBEISH RAMESH  WEINGEKAR VISHMU BI  PANCHAL JATEN V  WEINGEKAR ASHISH  AANGSE ROMAN J  TAISWAL AMERIKEBAR  NO ON STUDENTS PRESENT  DIBE  TIME  619  1319  1319  FOROMA  1319  LAVARA  BARCH  ANGOL  SOLANA  LAVARA  BARCH  LAVARA  LAVARA  LAVARA  BARCH  LAVARA  BARCH  LAVARA  LAVARA | SASE DARLAG RATESH  SOWANT BRAVANA JAYPRAKASH  SOWANT BRAVANA  SOWANT BRAVANA  SOWANT BRAVANA  SOWANT BRAVANA  SOWANT BRAVANA  SOWANT JAYPRA SUBANAS  SOWANT JAYPRA SUBANASH  SOWANT JAYPRA SUBANASH  SOWANT VIGHRESH OILEP  SOWANT VIGHRESH RAMESH  WICHARE PRANIT SUPAS  WASHARE PRANIT SUPAS  WASHARARMA BREESH RAMESH  WASHARAR PRANIT SUPAS  WASHARAR ASHISH  WASHARAR ASHISH  AND UP STUDENTS PRESENT  Date  Time  619  PERSONNAL  1319  FOR DATA  WASHARAR  POPONA  1319  WASHARARAR  WASHARARAR  WASHARARAR  WASHARARAR  WASHARARAR  WASHARARARAR  WASHARARARARARAR  WASHARARARARARARARARARARAR  WASHARARARARARARARARARARARARARARARARARARA | ASE PARLAG AJESH  SAWANT BIANANA JAYRAKASH  SAWANT BIANANA JAYRAKASH  SAWANT SANGET CATTATRANA  SANGET MEHAL JARH  MALE POOLA MURCHSH  MURLIC MEHAL JARH  MALE POOLA MURCHSH  MURLIC SURAL LANDEDAN  SINGH PARADJEET PASISH  SINGH PRABDJEET PASISH  WANGE HIMARKHU KURAN  UPALKIVAY VINAY EMESH  VICHARE PRABIT SUHAS  VISCIWAKARMA BIEESH RAMESH  WANKHEDE MANISH PUNDCIK  VADAV PANKAJS  HANK SURAKNA B  EAUT SPURETS  HEVNEKAR VISHNU D  DONCHAL JATEN'  MINGEKAR ASHISH  LANDESE ROBIANI  TAISWAL AMETICIBAR  NO ON STUDENTS PRESENT  DISSE  TIME  619  FIRST  PESSONNAI  1319  FIRST  SPAUL FLAGO  POOLA  1319  TAISU JAROU JANG  POOLA  1319  TAISU JAROU JANG  POOLA  POO | SARE PARLAG AZIESH  SAWART SARVET DATTATRAYA  SAWART SARVET DATTATRAYA  SAWART SARVET DATTATRAYA  SAVELIN REHAL HAM  WHATE PROUD A REBUSH  WHATELY REHAL HAM  WHATE SURAL JANUAR ARDY  SINGH PRABUSET PASUR  WARRAGA PRABUSH RAMESH  WARRAGA PRABUSH PANUCIK  WARRAGA PRABUSH PANUCIK  WARRAGA BERSH PANUCIK  WARRAGA BARISH PANUCIK  WARRAGA BARISH PANUCIK  WARRAGA PANUAL  BARISH PRABUSET  BUSH PRABUSET  BUSH PRABUSET  DAGE  TIME  TOPICS  SPALL  FLAGOR SINGH  FLAGOR SINGH | ASE BARIAG AZIESH  SAWART BIANVINA JATRAKASH  SAWART SAWERT DATTATRAVA  SAWART SAWART DATTATRAVA  SAWART SAWART DATTATRAVA  SAWART SAWART DATTATRAVA  SAWART SAWART DATTATRAVA  SOCIAL SAWART DATTATRAVA | SARRE BARRES PARAGE PARAGEMENTS  SANNART SARREST DATTATRAVA  SARVED REPARAL BURNE  SARVART SARREST DATTATRAVA  SARVED REPARAL BURNE  WHATE FOCUS AND SECSES  WHATE FOCUS AND S | SARE BARRAG RALESPI SANCAT DISANCATOR DATTATRAKA SANCAT DATATATRAKA SANCAT DATATATRAKAT SANCAT DATATATRAKATATRAKAT SANCAT DATATATRAKATATRAKAT SANCAT DATATATRAKATATRAKATR | ASSE BARRAG RALESH  SANATA TENANNA JAMBARAASH  SANATA TENANG CATTATRAYA  S.S.D. SS.D. SS.D |



## VIVA Institute of Technology, Virar T.E. ELECTRICAL (2019-2020)

SUBJECT: SUBJECT INCHARGE:

| R.  | Neme   | 14/9/19 | 10/9/19 | 30/9/19    | 201919  | 19/19      | P. 5-7/19 | 7/10/19 | M / M9  | 1             | C      | - |
|-----|--|---------|---------|------------|---------|------------|-----------|---------|---------|---------------|--------|---|
| Ng. | Tier   |         |         |            |         |            |           |         |         | -             | -      | H |
| 1   | AGRE SHUBHAM SHANLAR   |         |         | Thomas and | SH ON W | 20.0000000 |           | 1       | - NO. 7 | -             | _      | H |
| 2   | AVERE SALVESH V9K00  | SAY     | -       | SAV        | SAV     | SAV        | 911       | SHV     | SAV     |               | _      | H |
| 1   | DAGWE NINAD FRASAD   | 1       |         | -          |         | 100        | 1000      | 303     | 100     | _             |        | _ |
| 4   | HIQLUSIADH PAWAN ADDIATH   | 10      |         | 10         |         |            | 0.        | 10      | 10      |               |        |   |
| £   | SHOIR NAITIK GAKESH  | Sing    |         | 91170      | 9112    | 2112       | 34134     | JARK    | अहि     |               |        |   |
| 6   | DICIRAWALLA DEVANCIE SLIDESII  | 10.11   |         | 0.00       | 1       |            |           |         |         |               |        |   |
| 1   | BOROLE METALI YADAY  |         |         |            |         |            |           |         |         |               |        |   |
| ×   | BUKALE DHIRAZBANI  | 350     |         |            |         |            | -         |         | 0       |               |        |   |
| 9   | CHACKASIA SIEVAM RANGET  | 240     |         | PIN        | -       | SHIP       | BIN       | -       | 241     |               |        |   |
| 10  | CHAVAN DETENDERATE   | 100     |         | 1214       |         | 1          | 1         |         | . 11    |               |        |   |
| 11  | CHAVAN MAYLE YEAY  |         |         |            |         | 100        |           |         |         |               |        |   |
| 12  | CHAVAN RUTUM AJAY  |         |         |            |         |            |           |         |         |               |        |   |
| -   | DANDEKAR OHINNAY   |         | 111     | 116        |         | (3)        | 741       |         |         |               |        |   |
| 14  |  | -       |         |            |         |            |           |         |         |               |        |   |
| 15  |  | Oarne   | Floud   | Done       | Dest    | Daver      | Dan       | Dane    | Danne   |               |        |   |
| 31  |  | Dank    | pane    | Dams       | Jone    | Dank       | - Day     | 1000    | LATIN   |               |        |   |
| 16  |  | -       |         |            |         | -          |           |         |         |               |        |   |
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| 25  | GUPTA REEMA SHEVKUMAR  |         | 400     |            |         |            |           | -       | -       | -             | +      | - |
| 26  | HADAL DIPALI GANPAT  |         |         |            |         |            |           |         | _       | $\rightarrow$ | +      | - |
| 27  | CADAM AISHVARYA MANGESH  |         |         |            |         |            | _         |         |         | -             | +      | - |
| 28  | KAMERIKAR VRUSHABH MAHESH  |         |         |            |         |            |           |         | -       | $\rightarrow$ | +      | _ |
| 77  | EARLOE SAMKUURUR SUNII.  |         |         |            |         |            | 1         |         | -       | -             | -      | _ |
| 30  | CHADE PRASHOVEP  |         |         |            | 10      |            | - /       | 1.0     | 1.0     | -             | -      | Ц |
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| 13  | FOTEVAN DHIRAL IAGDISH   |         |         |            |         |            |           |         |         |               |        |   |
| 34  | DUCHHI PAVAN PRAVIN  | P.Pm    | 1 -     | P.P.May    | _       | P.P.Mc.    | -         | PPM     | P.P.M.  |               |        |   |
| 35  | HARDOLKAR SACHEN DENKAR  |         | 4       | 10.5       |         | 100        | 100       | 22.     | 1.4.    |               |        |   |
| 36  | MISHINA SANDHEP INDIGMANI  |         |         |            |         |            |           |         |         |               |        |   |
| 37  | MONDIEAR SACHENSIGVRAM:  |         |         |            |         |            | 100       |         |         |               |        |   |
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| 39  | PATEL ANIRUDOHA VESHWANATH   |         |         |            |         |            | 4         |         |         |               |        |   |
| 40  | PATIL ASHUTOSH SANDEEP   |         |         |            |         |            |           |         |         | +             | _      | 7 |
| 61  | PATIL PRAMOD RAMESII   |         |         |            |         | 1          |           |         |         |               | +      | 1 |
| 42  | PATIL PRATHAMESH KANTI   |         |         |            |         |            |           |         |         | +             | +      | 1 |
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| 44 | PIENEKAR ONKAI    | ANANDA       | Nest   | -       | 173/14    | 1334   | USUK     | usa    | & UKG  | Lyser  | F        | -             | - |
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| 48 | SALUNKHE RIYA     | НАПАТ        |  |         |           |        | _        | -      | -      | -      | +        | $\neg$        |   |
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| 59 | SASE PARAGRAI     | ESH          |  |         |           |        |          | -      | -      | -      |          |               |   |
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| 52 | SAWANT SANKET     | DATTATRATA   |  |         |           |        |          |        | -      | -      | $\vdash$ | $\neg$        | 1 |
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| 56 | STUDEN NO DESM    | ELF YAKUB    |  |         |           |        |          |        | -      | -      |          | $\pm$         | - |
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| 59 | SINGH PRABLEET    | JA581R       | (SUS)  | tona    | Bia       | 2421   | Ha       | (2)    | 1201   | 1001   | 1        | $\rightarrow$ | - |
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| 63 | TAMORE HIMARS     | IU KIRAN     | -  |         |           |        |          |        |        |        | -        | +             | - |
| 64 | UPADEYAY VINAY    | UMESH        |  |         | 1 /61     |        | . 702    | 104    | m      | 1/21   | +        | -             | - |
| 65 | VICHARE PRANIT    | SUHAS        | MAS  | NA      | ND        | 1      | NA       | VI     | VFJ    | 12     | -        |               | - |
| 66 | VISHWAKARNA III   | JESH RAMESH  | 1  | 1       | 1         | 1      | 1        |        | 25.0   |        |          | _             | - |
| 67 | WANKHEDE MANI     | SH PUNDLIK   | PAVOLY   | pannun  | वानयो     | -ap-sh | CAPAN    |        |        | -      | _        | $\neg$        | _ |
| 68 | YADAN PANKAI S    |              |  |         |           |        | -        |        |        |        | -        | _             | - |
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| 71 | SHIVNEKAR VISHN   | d D          |  |         |           | -      |          | 9 ( 5) |        |        |          |               | _ |
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| 74 | HANPISE ROHAN Z   |              | 144  | KK!     | RA        | MA     | MA       | NO     | M      | N      |          |               | - |
| 15 | JAISWAL AMETRUN   |              | 1000   |         | - 657     |        |          |        |        |        |          | $\neg$        | _ |
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SUBJECT INCHARGE

## VIVA INSTITUTE OF TECHNOLOGY

(Affiliated to University of Mumbai; Approved by AICTE & DTE)

Veer Savarkar Marg, Shirgaon, Virar 401303

Department of Electrical Engineering

## CERTIFICATE

This is to certify that,

Mr./Ms. Hadal Dipali Ganpat

of TE Electrical

has successfully completed value added course on

"ELECTRICAL SAFETY PRACTICES"

organized by

Department of Electrical Engineering

for A.Y. 2019-20 from 5th Jul 2018 to 4th Oct 2018.

France

Prof. Pratik Mahale

Course Coordinator

Been S

Prof. Bhushan Save

Head of Department



## VALUE ADDED COURSE (Online)

| Name of Course:          | ELECTRICAL INSTALLATION | Branch:             | Electrical Engineering |
|--------------------------|-------------------------|---------------------|------------------------|
| Duration:                | 30 Hours                | Instructors:        | Sushant Bansal         |
| Date of<br>Commencement: | 8 Feb 2020              | Date of conclusion: | 24 April 2020          |

|           | Course Outcomes  |  |  |  |  |  |  |  |
|-----------|--|--|--|--|--|--|--|--|
| Upon succ | essful completion of the course, the student must be able to                                   |  |  |  |  |  |  |  |
| CO1       | To understand practices followed in industries for safety of equipment and personnel.          |  |  |  |  |  |  |  |
| CO2       | To understand basic electrical and electronics concepts, devices and their electrical ratings. |  |  |  |  |  |  |  |
| CO3       | To understand power transfer systems and their installation practices in industry              |  |  |  |  |  |  |  |
| CO4       | To understand documentation required for installation.   |  |  |  |  |  |  |  |

### **Course Objectives**

The objective of this vocational course is to make students understand various installation practices followed in industries for electrical equipment. This course is designed to make students job-ready for the industry by instilling multiple skills in them like electrical drawing and reading, IEEE and IS standards followed in industries, documentation for industries, etc.

| Syllabus |  |       |  |
|----------|--|-------|--|
| Unit No. | Contents   | Hours |  |
| 1        | Health and safety industry practices The regulations, laws and guidance documents associated with the electrical industry, Use equipment on a construction site, Follow safety procedures, practices and policies on construction sites, Carry out electrical safety procedures and practices, Understand environmental protection, structure and roles of individuals and organizations | 6     |  |

| 2 | Electrical science Understand direct current principles, Understand electromagnetic properties associated with devices under installation, Understand electronic components required for installation with data sheets and drawings.  | 6 |
|---|---|---|
| 3 | Electrical installation Tools commonly used in electrical installation practices, Erect cable containment/management systems used in electrical installation, Install wiring systems and supports used in electrical installation activities, Install accessories and terminate using a range of connections. | 6 |
| 4 | Power transfer technology Understand how electricity is supplied and the characteristics of consumer's equipment, Understand isolation and protection, Understand automatic disconnection of supply, Understand the principles of final circuits  | 6 |
| 5 | Technical documentation with clients Understand technical information with help of IEEE standards, manufacturerguidelines, Drawings used to plan electrical activities, Types of financial information, Types of handover information   | 6 |

| Learning Resources |  |  |  |
|--------------------|--|--|--|
| Text Books:        |  |  |  |
|                    | <ol> <li>Trevor Linsley, "Basic electrical installation work", 1989</li> <li>J. B. Gupta, "A Course in Electrical Installation Estimating and Costing", 2013.</li> </ol> |  |  |
| Refe               | Reference Books:   |  |  |
|                    | 1. Tarlok Singh, "Installation Commissioning & Maintenance Of Electrical Equipments", 2013 2. Brian Scaddan, "Electrical Installation Work", 2015                        |  |  |



## VIVA Institute of Technology, Virar

B.E. ELECTRICAL (2019-2020) SUBJECT: |Electrical\_ SUBJECT INCHARGE: |Sushant Name Time AMDRE MITCHI ADITYA Don Bon Bor Gor Bon On BUHILL DHIILAI RAMESH BHATKAR VINIT VINID BOSITE AKASS KAVINOKA CHAUCHARISISHANT CHALIDRAR PRASAD WADIP an an 000 Bood 600 Dm mi DARRELKAR MAYOR KRISHINA DRANGAR BOHIN KAJENDRA CHANGEARDIK NANDKENHE CHEURI AMBETA SENE, GADGEL GAVATRESCHE 12 UNEWAD ARASH 1) GALEWAY SANTOSH GORAKH 14 GAWAND ANKET EURONATH 15 GEL VINAY IN CHIEFWANIA RATE IT CUPTA GOW WORLAS III GUITA NANDEAL 27 VACHAY CHRAC SEEDMANATH 20 FADRAV SIDIDBABATH KUHOR DADING DANNEY BUENINA ZZ KANDEFSON E BASAN 23 KHAN SHEEDAFATRIA ALI ARMED 24 CHARDON IN Br Br 80 00 Br Br Om 50 On 25 PATENT RAVEITE AMESIE MANDATCH ABRESTS VALUE 27 NAZR ASSET BARNORAN 28 SAVET BUSINESS ELECTRONICS Par Par 90 800 800 PA 800 Par 29 PALASE ASSESS AREN 30 PARAMINES. 31 PRESIDENT STREET, S IZ PASSED NODEA BEAK 23 PATECHBANAS NAMES A PATERRAMENTAL Bligo Str. Ten Day Ring Fire MELETYNKAHDERA ORDER ASSESSED DANSAY NAVABILITYS SAMEGAS SENSE STANFORMS Ou Con Con Con Con Con Con Con MALE CO-SCIENCES EXCEPTANCE SUCRETAIN AT PARAMETERS AND A PARAMETERS. At Shiftgada Samuracia

Post: Virar, Tel.; Vasal, Dist. Palghar

| 8   | DARHAVE SALDNEE SANDESH      |    |      |     |       |              |     |          |      | $\vdash$ | - |
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| 17  | DHAROD KUNAL                 |    |      |     |       | and a series |     | 25umres  |      |          | - |
| a   | GOHIL RONAK NITINEHAL .      | B  | 243  | 3   | 135   | 君            | B   | (B)      | 3    | 0        | - |
| 49  | GOUNDAE SHASHIDHARAN         | 1  |      | -60 |       |              |     |          | - Ni |          | _ |
| 50  | GUPTA PICESH MUSAFIR         |    | - 0  |     |       |              |     |          |      |          | _ |
| 5)  | IATRIAV SALASB               |    |      |     |       |              |     |          |      |          |   |
| 51  | CESUR JAY JITENDRA           | 15 | 89   | 205 | KA    | di           | OF  | FP       | 45   | 6        | _ |
| 55  | KORE DEWANG MAHENDRA         |    |      | 1   | -     | -0           |     |          |      |          | _ |
| 54  | LUNAGAZIYA NIKHE CHIMANBHAI  |    |      |     |       |              |     |          |      |          | - |
| 55  | NAIK NEEDAJARVIND            |    |      |     |       |              |     |          |      |          | _ |
| 56  | NIKAM ASHER RANGANATH        | w  | na   | VA  | M     | 222          | m   | m        | m    | 8        | _ |
| 57  | PATEL VISHALKUMAR DINESHBRAI | 1  |      |     |       |              | -   |          |      |          |   |
| 58  | PATIL NIKYUR ANKUSH          |    |      |     |       |              |     |          |      |          | _ |
| 19  | PATIL PANKAI BHAGWAN         |    | -    |     |       | -            | 200 |          |      |          |   |
| 60  | PATE SWAPNE ANE.             | 8  | 3    | \$  | \$    | 9            | 9   | <b>S</b> | 9    | 8        | _ |
| 61  | PRAJAPATI AKAND SHRIRAM      |    |      |     |       | -            |     |          |      |          | - |
| 62  | RANE PRATHMESH C.            |    |      |     |       |              |     |          |      |          | - |
| 63  | RAUT ISHAN AMOL              |    |      |     |       |              |     |          |      |          | _ |
| 64  | SAINDAME RASHTRAPAL R.       |    |      |     |       |              |     |          |      | -        | 1 |
| 65  | SHAH KRUTI RAJEEV            |    |      | 200 |       |              | _   |          |      |          | - |
| 66  | SHAH VIHIT BHARATKUMAR       | In | Sm   | dn  | Sw    | Sm           | on  | du       | dr   | 2        | - |
| 67  | SINGH HIMANSHU PRASHANT      |    |      |     | -     |              |     |          |      |          | - |
| 68  | SINGH PRINCE PINTU           |    |      |     |       |              |     | - 2      |      |          | _ |
| 69  | SOJITRA DHAVAL DINESH        |    |      |     |       |              |     |          |      |          | - |
| 70  | SOLANKI DIPESH VASANT        |    |      |     |       |              |     |          |      |          | - |
| 71  | TAMORE SUMIT SANDEEP         |    |      |     |       |              |     |          |      |          | - |
| 73  | TODANIKAR AMINET DILIP       |    |      |     |       |              |     |          |      | - 0      | - |
| 73  | VADHVANA DAYESH HARESH       | D  | 10   | 10  | P     | 10           | 10  | 10       | D    | 8        | - |
| 74  | YADWY SHAILENDRA BAJRANGI    |    | 1000 | 300 | 100 E | 1000         |     |          |      |          | - |
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|     | NO OF STUDENTS PRESENT       | 15 | 18   | 15  | 15    | 15           | 18  | 15       | 18   |          |   |

| Sr<br>no | Date | Time | TOPICS COVERED |
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SUBJECT INGLANGE

## VIVA INSTITUTE OF TECHNOLOGY

(Affiliated to University of Mumbai; Approved by AICTE & DTE) Veer Savarkar Marg, Shirgaon, Virar 401303

Department of Electrical Engineering

# CERTIFICATE

This is to certify that,
Mr./Ms. Kubal Rajesh Ramesh
of BE Electrical
has successfully completed value added course on
"ELECTRICAL INSTALLATION"
organized by

Department of Electrical Engineering for A.Y. 2019-20 from 08 FEB 2020 to 24 April 2020.

Surly

Course Coordinator

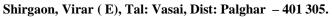
Bee

Head of Department





### VIVA INSTITUTE OF TECHNOLOGY



### CIVIL ENGG. DEPARTMENT



Academic Year: 19 - 20

Resource person: Mrs. Lissy Jose

### Conducted as per time table for the respective subject

Hours: 30 Objectives:

- 1. Plan for a project in detail
- 2. To use templates which creates projects in project 2017
- 3. To create, manage, schedule and track all the imputed resources
- 4. To create, manage, assign and track tasks of all inputted resources
- 5. To work with deadline and constraints
- 6. To use dependencies to help schedule tasks
- 7. To run reports

### **Course Outcomes**

At the end of the course, learners will be able to understand:

- 1. The functions involved in software related to civil engineering projects.
- 2. How to prioritize tasks, define expectations and prepare schedule.
- 3. Will know tracking and managing resources throughout the project.
- 4. To create and tracking budgets and sharing calendars with the team.
- 5. Learn about risk management involved in project management.





### VIVA INSTITUTE OF TECHNOLOGY



Shirgaon, Virar (E), Tal: Vasai, Dist: Palghar - 401 305.

### CIVIL ENGG. DEPARTMENT

### Chapter 1: An Introduction to Project Management............. 03hours

Recognize when to use project management, role as a project manager is to deliver a project, communications, influence, and careful use of authority all play a major factor in the support you receive to complete the project, Project managers frequently find themselves with the challenge of adding new scope to a project with an already tight timeline. Typically, the job of the project manager is to work with their team to determine what this new scope will mean and how it will affect the project, building and tracking project schedules.

### Chapter 2: The Microsoft Project User Interface................. 05 hours

To recognize best practices when running ms project for the first time, microsoft project user interface, the ribbon area icons, tabs, and access to the backstage, microsoft project scheduling engine, preparing a new project, estimating the project, ribbon actions (icons) you may need to perform within microsoft project, backstage is a full-screen area that allows you to open, save, share, and print your project, using views and tables

### **Chapter 3: The Microsoft Project Scheduling Engine ......06 hours**

constraint based scheduling, calculates dates for you based on constraints you place on tasks and resources, critical path and user-controlled scheduling, user-controlled scheduling can effectively break the ability to identify the critical path because durations, start dates, and finish dates are not required when using this feature, configure project options, microsoft project offers many options for you to configure the user interface, scheduling engine, and task tracking for your project most of these options are located in the backstage using the options menu item.

## Chapter 4: Preparing a New Project......6 hours

Create a new project before you create a new project, make sure you have all the



### VIVA INSTITUTE OF TECHNOLOGY





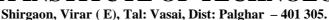


project options configured as you want them unless you have a unique reason to do otherwise, it is a good practice to start with a blank project configure a project calendar learn the differences between the Microsoft project calendars and when to use them.





### VIVA INSTITUTE OF TECHNOLOGY



### CIVIL ENGG. DEPARTMENT



Late Shel, Vishnu Warran Thakur (Charitable Trust's VIVA Institute of Technology SHIRGAON, VIRAR (E) E(CIVIL) SEM-VII COURSE: MSP & PREMAVERA ATTENDANCE SHEET 2019-20

ATTENDANCE SHEET 2019-20

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### VIVA INSTITUTE OF TECHNOLOGY



### CIVIL ENGG. DEPARTMENT





Late Shri Vishun Waman Thokor Charitable Trust's

### VIVA INSTITUTE OF TECHNOLOGY

Approved by AJCTE New Dethi, Affiliated to University of Mumbai Shirgson, Virar (East), Dist: Palghar - 401 303, Maharashtra



## Certificate of Participation

This is to certify that Dr. / Mr. / Ms. JOSHI MITHUN has attended software course on "MSP & PRIMAVERA" organized by Civil Engineering Department from 20th July 2019 to 30th September 2019 at VIVA Institute of Technology, Shirgson,

Mumbai.

(Prof. Ramya Raju)

Co-ordinator

(Prof. Lissy Jose)

Head of Civil Engg Department

(Dr. Arun Kumar)

Principal





## VIVA INSTITUTE OF TECHNOLOGY

Shirgaon, Virar (E), Tal: Vasai, Dist: Palghar - 401 305.

## CIVIL ENGG. DEPARTMENT



Name of the Course: Emerging techniques in Civil Engineering

AY: 2019-20

**Course Duration: 30 hr** 

## **STTP Programme Schedule**

|       | Date                          | Time              | Name of Speakers                  | Topics                                       |
|-------|-------------------------------|-------------------|-----------------------------------|--|
|       |                               | 9:00 am-12.00pm   | Session 1: Prof. Yadnesh Patil    | Road Safety and Role of Public Transport     |
| Day 1 | 01/07/2019                    | 1.00 -4.00 pm     | Session 2: Mr.Paresh<br>Unnarkar  | Durability-Performance  Based Approach       |
| Day 2 | 02/07/2019                    | 9.00am-12pm       | Session 1: Prof. Prashant Gondane | Design Aspects of Sewerage system            |
| Day 2 | 02/07/2019                    | 1.00 pm – 4.00 pm | Session 2: Prof. Prashant Gondane | Seepage Management                           |
| Day 3 | 03/07/2019                    | 9.00am-12pm       | Session 1: Prof.Vivek  Mandapur   | Environmental<br>Management                  |
| Zuje  |                               | 1.00 pm – 4.00 pm | Session 2: Monica More            | Construction Law                             |
| Day 4 | 04/07/2019                    | 9.00am-12pm       | Session 1: Prof. Lissy Jose       | Real Time data acquisition                   |
| Duy 4 | 1.00 pm -                     |                   | Session 2: Prof. Mayur Patel      | Smart Structure and Materials for the future |
| Day 5 | <b>05/07/2019</b> 9.00am-12pm |                   | Session 1: Prof. Prashant Gondane | Water Quality<br>Management                  |
|       | 1.00                          | 1.00 pm-4 pm      |                                   |  |



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## **Day 01:**

Session 01: Road Safety and Role of Public Transport

Reduce exposures to crashes

Types of vehicles used for various roads

Session 02: Durability-Performance Based Approach

Mix design calculations and assumptions

Exposure conditions and material parameters

### **Day 02:**

Session 01: Design Aspects of Sewerage system

Pumping stations and water reclamation centres

Session 02: Seepage Management

Stability analysis

Design methods for various zones

### Day 03:

Session 01: Environmental Management

Processes and practices to improve environmental impacts

Various monitoring aspects

Session 02: Construction Law

Contract law in details with clauses

## Day 04:

Session 01: Real Time data acquisition

Session 02: Smart Structure and Materials for the future

**Day 05: Water Quality Management** 





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## **Course Objectives:**

- 1. To understand the knowledge of road safety
- 2. To learn about various methods & design aspects of sewerage system
- 3. To learn how various contract law
- 4. To learn how smart material can be used
- 5. To understand water quality management

### **Course outcomes:**

- 1. Students will be able to understand how road safety and rules are important
- 2. Students will be able to understand various design aspects of sewerage system
- 3. Students will be able to understand where contract law can be applied
- 4. Students will be able to operate various smart material are used
- 5. Students will be able to analyze various water quality management





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## **CO PO MAPPING**

|     |     |     |     |     | Pro | ogram | Outc | omes |     |      |      |      |              |
|-----|-----|-----|-----|-----|-----|-------|------|------|-----|------|------|------|--------------|
| СО  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6   | PO7  | PO8  | PO9 | PO10 | PO11 | PO12 | CO<br>target |
| C01 | 2   |     |     |     |     |       |      |      |     |      |      |      | 2            |
| CO2 |     | 2   |     |     | 2   |       |      |      |     |      |      |      | 2            |
| CO3 |     | 2   |     |     |     |       |      |      |     |      |      |      | 2            |
| C04 |     | 2   |     | 1   |     |       |      |      |     |      |      |      | 2            |
| CO5 |     | 2   |     | 2   |     |       |      |      |     |      |      |      | 2            |
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### ATTENDANCE SHEET

|             | 6/01/2020<br>FOR THE FACULTY: |            | 800     | INGAON, V | IRAR (E)  |            |                    | SHE        | Date 1301<br>ET NO1 | 1/2019 |      | 1     |
|-------------|-------------------------------|------------|---------|-----------|-----------|------------|--------------------|------------|---------------------|--------|------|-------|
| ROLL<br>NO. | NAME OF THE STUDENTS BAT      | 117        | 27      | 8)7       | 417       | 517        |                    | 7          | -                   | PR     |      | Gr    |
| 1           | AHIRE AMOL ANII.              | Arnol      | Post    | A         | Anol      | Anol       |                    | -          | +                   | Total  | Ch   | Total |
| 1           | AHIRE VARSHA RATAN            | A          | 34.5    | Push      | Charles . | -          |                    | 1          |                     | -      | -    | 1     |
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|             | ALAY MAYUR MADRUKAR           | 1          | A       | Mayax     | A         | Mayor      | 9                  |            |                     |        | 1    | 1     |
| 5           | AMBEKAR AJAY PRAKASII         | A          | A       | 1         | P)-       | a          |                    | 1          |                     |        | 1    | 1     |
| 6           | ANJARLEKAR SNEHAL             | Gay.       | C38     | Sylve     | A         | CEEUE      |                    | 190        |                     |        | 1    | 1     |
| 7 1         | ARORA MITESH RAJESH           | A          | Miles   | A         | A         | A          |                    | V.         |                     |        |      |       |
| SA          | AVHAD SAURAV DINESH           | A          | A       | (0)       | 08        | (0)        |                    |            |                     |        | 1    |       |
| 9 A         | WAGHANE TEJAS VILAS           | A          | A       | A         | A         | A          |                    |            |                     |        | 1    | 1     |
| 10 B        | AGAVE SAHIL SURESH            | South      | David   | Jawil     | A         | A          |                    |            |                     |        |      |       |
| 11 B.       | ARI VAISHNAVI                 | A          | Value.  | A         | Jastes    | A          |                    |            |                     |        | +    |       |
| 12 81       | HAGWAT SOHAM                  | A          | A       | A         | A         | A          |                    |            | 1                   | 1      | +    | -     |
| 3 BI        | HOSALE ABHISHEK               | P. Charles | Reves   | A         | A         | PENER      | *                  | -          | +                   | -      | 1    | -     |
| 4 BI        | HOSALE YASHRAJ SURESH         | A          | A       | 3300      | ( Note    | A          |                    |            | 1                   | +      | -    | 1     |
| 5 BI.       | JWE RAHUL SANJAY              | Garjay     | Surjey  | A         | Garjes    | Sailer     | 3                  |            |                     |        |      |       |
| 6 BC        | ORKAR TEJAL SUNIL             | Q (e)      | A       | A         | A         | Her        | >                  |            |                     |        | -    |       |
| СН          | AUGHULE SHEETAL               | A          | A       | A         | A         | A          |                    |            |                     | 1      |      |       |
| СН          | AUGULE ADITI ANANT            | A          | Aditi   | A. Six    | A         | A          |                    |            | 1                   |        |      |       |
| СН          | AURASIA PRATIK DINESH         | ALTER      | A       | TIMA      |           | A P        |                    |            |                     |        |      |       |
| CH          | AVAN ANIKET RAMESH            | A          | Kody    | A         | Asia      | A          |                    |            |                     |        |      |       |
| CH          | AVAN VRUSHALI ARUN            | gra.       | Jean    |           | Jen.      | 200        | 2                  |            |                     |        |      | 1     |
| СН          | URI RUSHIT RAMESH             | A          | A       | A         | A         | A          | 1                  |            |                     |        |      | 1     |
| DAF         | RPE PRAFUL PANDURANG          | A          | Popul   | Prox      | A         | A          | 10                 |            |                     |        |      |       |
| DHA         | AMAPURKAR RAHUL               | Dir.       | 80%     | A         | Carr      | · A        |                    |            |                     |        |      |       |
| DHC         | OBLE AKASH VINAYAK            | A          | A       | A         | A         | A          |                    |            |                     |        |      | 1     |
| GAJ         | ARE AJINKYA DAULAT            | A          | A.      | A         | A         | A          |                    |            |                     |        |      | 1     |
| GAU         | TAM RAHUL                     | A          | Count   | (SEW      | M         | Car        | 0.3                |            |                     |        |      | 1     |
| GAV         | VAD ABHISHEK KIRAN            | A          | A       | A         | 1         | A          |                    |            |                     |        |      |       |
| GHA         | AG DIPTI RAVINDRA             | A          | (CX)    | (De       | A         | (2         |                    |            |                     |        |      |       |
| GITI        | E VAIBHAV VINAYAK             | Valle      | A       | A         |           | Star A     |                    | -          | 2000                | 6050   |      |       |
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| GO          | DHALEKAR SAUKABH              | <b>A</b>   | (7)     | 1         | 1         |            | THE REAL PROPERTY. | 2000       | OF THE              | 100000 | 1000 |       |





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| 34   | GOWDA DIWAKAR RAM                     | Gowa   | GENE     | A  | bearen  | -15     |      |         |             |     | -           |
| 35   | GUPTA SHWETA SHATRUGHAN               | A  | smele    | Shuch  | Short   | Shreese |      |         |             |     |             |
| 36   | HADBAL SAGAR BAJKUMAR                 | Sugar  | Lugar    | D  | Seed    | A       |      |         |             |     |             |
| 37   | JADRAY ABHIJEET NARESH                | A  | n        | A  | 4       | A       |      |         |             |     |             |
| 38   | JADHAY ASHWIN RAGBUNATH               | A  | Pshun    | A  | Ashin   | A       |      |         |             |     |             |
| 39   | JADHAY MAYUR SURESH                   | · A  | A        | A  | A       | M       |      |         |             |     |             |
| 40   | JADHAV NIKHIL SURESH                  | Nixbuil  | A        | Nikkil   | Nikkin  | nikhil  |      | 9       |             |     | 1           |
| +1   | JADHAV TRUPTI VILAS                   | TrupTi   | trushi   | A  | thuni   | A       |      |         |             |     |             |
| 42   | JONDHALEKAR SIDDHANT                  | 4  | 1        | A  | A       | SIDDIA  |      |         |             | 1   | 1           |
| 43   | JOSHI MITHUN MANOHAR                  | A  | milhun   | A  | A       | milha   |      |         | 100         |     |             |
| 14   | JOSHI SAMIR SUBBASH                   | Samit  | Sumir    | Scamit   | A       | A       | - 2  |         |             |     | 1           |
| 15   | KADAM SHRADDHA SANJAY                 | A  | 511)24   | 2000   | A       | P       |      |         |             | 1   |             |
| 6    | KAMBLE NIKBIL GANPAT                  | MIKAIT   | MYNI     | A  | A       | Nikki I |      |         |             | 1   |             |
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|      | KAMBLE RENUKA ASHOK                   | A  | MALK     | A  | A       | A       | Ü I  |         |             | 1   | 1           |
| 27   | KAMBLE VAIBHAV                        | A  | A        | Yeilbhor   | 100.00  | vuibles |      | 1       | 1           | +   | +           |
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| - 1  | KELKAR VIRAJ                          | 123 152  | حراجزالا | P  | vinus   | A       |      |         |             | 1   | +           |
| 1    | KHAN MUSTAFA NISAR                    | 6  | ME       | 127  | nest    | 6       |      | +       | -           | +   | -           |
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| - 1  | KORE RAJAT RAJESH                     | RUST   | 874      | A  | 1234    | A       |      | 1       |             |     |             |
| )    | KOTHARI ANJALI                        | 9  | Mayi     | A  | project | A       |      |         |             | 1   |             |
| 3    | KUVALEKAR RAHUL VIJAY                 | Rhul   | A        | 12/21  | A       | Bhul    | 10   |         |             |     |             |
| 1    | MACHEWAD SHWETA                       | Sthrete  | P        | Shaode   | 1       | B       |      | 5 550   | -           | 40  |             |
| 3    | MANE YOGESH BALU                      | any  | 9        | 4015   | 6       | B       |      | J. Carl |             | 3   |             |
| N    | MANGAL RISHABH DEEPAK                 | A  | Aisis    | 77.807-36  | P.      | A       |      | L Hotel |             | 2   |             |
| 3    | MESTRY OMKAR VILAS                    | onun   | CHINES   | A  | amss    | A       |      |         |             | -   | -           |
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| -    | IONDKAR KALPESH                       | PHORES   | HIRY     |  | A       | P       | - 17 |         |             | (1) | -           |





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| 10  | 37 SAPLE SWAPNIL RAJKUMAR  | Purp   | +     | A     |      | 200  | 7 |   |         |            |        | 1   |
| 1   | SANPAI SHRADDHA  | 1      |       |       | 1    | 1    |   |   |         | 1          |        | 1   |
| 2   | SANAF RAHUL JAGANNATH  | Val    |       |       | Lak  |      |   |   |         |            |        |     |
| 3   | SANGHVI YASH BILARAT   |        | 1     | A     | 1    |      |   |   |         | 1          |        |     |
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| 41  | SAWANT SHUBHAM VISHWANATH  | C      | A     | (Se   | 0    | 1    |   | + | 1       |            |        |     |
| 42  | SAWANT SIDDHESH TULSHIDAS  | Six    | 1     | 1     | M    | -    | - | + | -       | - 15       | 1      | 100 |
| 43  | SHARMA ARUN  | A.     | 1     | A     | 12   | 1    | - | - | -       |            | 1      | 1   |
| 44  | SHARMA TARUN VIPINPRAKASH  | 1      | offin | A     | 100  | 44   | 2 | - | +       | +          | +      | +   |
| 45  | SHIGVAN NIMISHA  | 041    | A     | nA.   | A    | 1/   | 1 | - | -       | -          | -      | +   |
| 46  | SHINDE RAHUL RAMESH  | par    | A     | kaw   | -    |      |   |   | -       | -          | -      | +   |
| 67  | SHINDE RAJAN SUNDAR  | A      | A     | 16.3% | A of | +    |   |   | _       |            | -1-    | 1   |
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| _   | SINGH YOGESH DHANANJAY   | 0      | 101   | 12    | - Ch | 115  | 1 |   |         |            |        | -70 |
| 1   | SUTAR SWAPNALI SAMBHAJI  | 0/     | 100 V | 0     | 12.  | X C  | ) |   | -       |            | _      |     |
| 2   | TANDEL JYOTI PRAKASH   | P      | 240   | A     | 12   | 4.   | 1 |   |         |            | -      |     |
| 3   | TIVAREKAR DARSHAN DATTARAM   | 100    | A     | 17    | to 1 | +    | A |   |         |            |        |     |
| •   | USARE VISHAL GANESH  | Visl   | 9     | Vi    | lat  |      |   |   |         |            |        |     |
| ,   | VISHWAKARMA VIKAS SANTOSH  | ,A     |       | 1     | 1    |      |   |   |         |            |        |     |
|     | VORA DHARA RAMESH  | pro    | A     | 1     |      | 4    | 1 |   |         |            |        |     |
|     | WADEKAR VAIBHAV GANPAT   | A      | 4.    | 1     | + 1  |      | A | 1 |         | 33         |        |     |
|     | YADAV KAJAL ARVIND   | Oray   | 14    | (A)   | o)   |      | 1 |   | N<br>   |            |        |     |
| 8 0 | YADAV SIDDHESH SHIVAJI   | A      | A     | F     | 1    |      |   |   |         |            |        |     |
| 1   | TANK KETAN   | A      | della | A     | +    |      |   |   |         |            |        |     |
| 8 1 | TELURE VILAS   | IA     | A     | (1)   | 1.   | A    | A |   |         |            |        | J.L |
|     | YADAV ARJUN KUMAR  | Japan  | A M   | 1     | 1    | DELL | 1 |   | Y .     |            |        |     |
| 18  |  | CA     | 1     | 1     |      | 4    |   |   |         |            |        |     |



### VIVA INSTITUTE OF TECHNOLOGY





## Certificate of Participation

This is to certify that Dr. / Mr. / Ms. Singh Yogesh has attended one week course on "Emerging techniques in Civil Engineering" organized by Civil Engineering Department from 1st July 2019 to 5th July 2019 at VIVA Institute of Technology, Shirgaon, Mumbai.

(Prof. Ramya Raju)

Co-ordinator

(Prof. Lissy Jose)

Head of Civil Engg Department

(Dr. Arun Kumar)

Principal



### **VIVA Institute of Technology**

Approved By AICTE, New Delhi, DTE, Govt. of Maharashtra
Affiliated to the University of Mumbai
Shirgaon, Virar(E.), Dist: Palghar- 401305, Maharashtra

### **DEPARTMENT OF FIRST YEAR ENGINEERING**

### **ACADEMIC YEAR-2019-20**

### **VALUE ADDED COURSE**

| NAME            | SOFT SKILLS  |
|-----------------|--|
| DURATION        | (1 WEEK) 30 HRS  |
| DATE & TIME     | 31st Dec 2019 to 4th Jan 2020/9.30am -12.30p.m and 1.30p.m -4.30pm |
| RESOURSE PERSON | Mr. Prashant Pawar & Mrs.Trupti Patil                              |

### **COURSE OBJECTIVE:**

To help the future engineers to understand and implement soft skills in the work environment.

**Aim:** The course can help future engineers to improve their communication, problem-solving and presentation skills with an aim to land a better job.

### SESSIONS ON SOFT SKILLS FOR FIRST YEAR ENGINEERING STUDENTS

Session 1. Soft Skills and You

**Session 2.** Interpersonal Communications

Session 3. Leadership Management

**Session 4.** Preparing for Employment

**Session 5.** Group Discussion

Session 6. Resume Building

Session 7. Mock Interview

Session 8. Presentation Skills

**Session 9.** Communication at Workplace

Session 10. Workplace Etiquette



CO-ORDINATOR

PROF. Jayesh Jain



H.O.D DR. Ajazul Haque

VIVA Institute of Technology Academic Year: 2019- 2020 First Year Engineering

|        |                                      | V  | Attendance f      |  |                |                            |           |                   |   | 1 1 /.                          | 12020           |
|--------|--------------------------------------|--|-------------------|--|----------------|----------------------------|-----------|-------------------|---|---------------------------------|-----------------|
|        | Date                                 | 31/12/   | 2019              | The second second                                      | 020            | 2/1/2                      | 202       |                   | 2020  | 7/1,                            | 1.30-           |
|        | Toph Time                            | 330-   | 4.90              | 930-   | 4.30           | 9.30-                      | 1,30      | 1200              | 4.30  | 330                             | 4.30            |
| SR.NO. | Name Of Participant                  | Session 1  | Session 2         | Session 3  | Session 4      | Session 5                  | Session 6 | Session 7         | Session 8                                     | Session 9                       | Session 10      |
| 1      | BAS KAMLAKANT VISHWAMITRA            | HVRN   | Kyte              | Kylin  | Kint           | Kise                       | Kulm      | Kyon              | Here  | Ky                              | Kyer            |
| 1      | BIYABANI MOHAMMED FARAAZ MOAHMMED    | Too  | Ear               | Freek  | Fore           | Feerland                   | Fender    | Feret             | Foote   | Heep                            | 1-12-7          |
| 3      | CHAVAN BHUSHAN SANTOSH               | Destru   | Kook              | GARLEN   | Busto          | Pleaser                    | Bush      | Buste             | Buller  | Bloom                           | Blust           |
| 4      | DAS PAYAL HEMANTA                    | felic(H  | Payel             | Paural   | Movet          | Paval                      | perferent | Paval)            | pholi   | Vavally                         | Novoe/H         |
| 5      | DATT KARISHMA RAMCHANDRA             | KROUNT   |                   | 12/14  | VEDENT         | LARCHT                     | VALO+     | KINDE             | Killan  |                                 | TRINGH          |
| 6      | GASTI MANASHRI GAJANAN               | MASH   | Model             | Morelo   |                | Month                      | Maker     | MEXICA            | The second second                             | 1999                            | MON             |
| 7      | HARAYAN GOVINO MADHUSUDAN            | GENERA   | Good              | Gow  | Good           | Com                        | COVIN     | (SOUN)            |   | Garn                            | GOVIL           |
| 8      | JADEJA HARSH KISHOR                  | Bulger   | Halota            | Hadedo   | Plotherre      | Hadera                     | Haker     | Hollerd           |   | House                           | Hayana          |
| 9      | KAMBLE MANSI RAJAN                   | Wester   | Maken             | FRANK  | FRATE          | MACEN                      | Toplogad  | FRago             | Mestan  | Figure                          | Maja            |
| 10     | KAPRI NILESH BIHARILAL               | Nec  | 1.90              | NK   | 18             | MO                         | NE        | 182               | 1860  | 1869                            | NEX             |
| 11     | RAUT AKSHITA                         | 1/9-   | 10                | 122  | Va             | Na                         | for       | 1                 | la  | Pi                              | 1-              |
| 12     | SAHU AVINASH SHEKHAR                 | Sas  | C                 | 500  | SZA            | 8                          | 500       | 5-                | Sen   | Sera                            | 53-             |
| 13     | SHINDE SAKSHI SUNIL                  | Sis  | 1                 | Sa   | 2.             | M-                         | 2a        | 125               | 120   | 124                             | -38             |
| 14     | SHIRSATH KOMAL VINOD                 | 1898   | (Ale              | (HB-   | 188            | 838                        | (QP       | (De               | Ble   | (K)F                            | (VIS            |
| 15     | SHUKLA SHIVANI SANJIV                | Shuan  | Shuten            | Shilani  | Shuirea        | Shhani                     | Sheard    | Shiren            | Shimi   | Shand                           | Shired.         |
| 16     | SINGH ROOPESH SHAILENDRA             | RESN   |                   | RSSIN  | RSSand         | RSSING                     | RSOLD     | PSSTAY            | AST MY  | PATH                            | RSIM            |
| 17     | SONI VIKAS OMKAR                     | VSoni /  | V.Seni            | Vsoni  | Viseni         | VISeni /                   | Vsoni     | ا تمعدلا          | VSONL.  | YSooi.                          | Vsani           |
| 18     | TELANGADE PRANAV SUNIL               | Prone/   | Firms             | Pages  | Phones.        | Promay_                    | Printer.  | Protest.          | France  | Frances                         | Thems.          |
| 19     | VISHWAKRMA HRITIK RAJNARAYAN         | Hikit  | Write.            | Hitik  | Hn#E-          | HONE                       | Hnitk-    | HINK              | Holek   | Hnik                            | HOWK            |
| 20     | WAGLE ADNAN MIRZA                    | Adman  | Adnon             | Adren  | Almin          | Adran                      | Alran     | Adman             | Adman   | Achien                          | Actorn          |
| 21     | YADAV ANKITA NEHRU                   | Any4la   | Artika            | Arrista  | Ankila-        | Ankida                     | Ankin     | Arkibe            | Ankibe.                                       | Ankibe                          | Ankin           |
| 22     | YADAY SHUBHAM ABHAYJEET              | Shukure  | Shippan           | stubben  | should-1       | Sexhaul                    | shubba    | Schalder          | shabbar                                       | Shahr                           | Sherblen        |
| 23     | KINI MANGESH VISHWANATH              | #Kithi   | *Kinl             | #YAN   | <b>**</b> Keni | ##AMI                      | 45/4ni    | RYUN              | +Skinsl                                       | <b>HYUNI</b>                    | - toru          |
| 24     | KOLI MANDAR HANUMANTA                | (MA)   | (HVdi             | Moli   | Prdi           | (M/dl                      | Mali      | (P)46             | (N/all  | (PYdi                           | (Mydi           |
| 25     | MAURYA LAV LALLAN                    | Loulatten  | Lavkellan         | Loutallan  | Lavhller       | Larylellan                 | Laybulan  | Luvialla          | Livelle                                       | Laylale                         | Lordallas       |
| 26     | SOLANKI JALPESH KUMAR JITENDRA KUMAR | Julgen   | Jalpen            | Jelpen   | Jaken          | Tallen                     | Men       | Moen              | Idpen   | Jaken                           | Jalpen          |
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## VIVA Institute of Technology

Approved By AICTE, New Delhi, DTE, Govt. of Maharashtra Affiliated to the University of Mumbai Shirgaon, Virar(E.), Dist: Palghar- 401305, Maharashtra

### CERTIFICATE OF PARTICIPATION

This is to certify that Mr. KAMLAKANT VISHWAMITRA BAG

attended one-week Program on "Soft Skills" organized by Firsf Year Engineering Department Of VIVA Institute of Technology from 31st 2019 Jan to 4th Jan 2020.



Co-ordinator Prof. Jayesh Jain



H.O.D Dr. Ajazul Haque





# Vishnu Waman Thakur Charitable Trust's VIVA Institute of Technology

Approved By AICTE, New Delhi, DTE, Govt. of Maharashtra Affiliated to the University of Mumbai Shirgaon, Virar(E.), Dist: Palghar- 401305, Maharashtra

# A.Y. 2018-2019





### Academic Year 2018 - 19

Course name: - Programming with JAVA Duration: - 25th Jun 2018 to 29th Jun 2018

Venue: - VIVA Institute of Technology Co-ordinator: - Prof. Janhavi Thakur

Enrolled students: - 17 Course Objective:-

 To understand the basic concepts and fundamentals of platform independent object oriented language.

 To demonstrate skills in writing programs using exception handling techniques and multithreading.

To understand streams and efficient user interface design techniques.

 To write programs for solving real world problems using java collection framework.

To impart hands-on experience with java programming.

### Course Outcomes: -

After successful completion of the course, the students are able to

 Use the syntax and semantics of java programming language and basic concepts of OOP.

Develop reusable programs using the concepts of inheritance, polymorphism, interfaces and packages.

 Apply the concepts of Multithreading and Exception handling to develop efficient and error free codes.

 Able to write programs for solving real world problems using java collection frame work.

### Course Schedule: -

| Days | Morning Session<br>(9 am to 12 pm)                             | Afternoon Session<br>(1 pm to 4 pm)             |
|------|--|---|
| 1    | Introduction to Java, Java<br>buzzword, scope, and<br>lifetime | Classes and Objects,<br>Inheritance<br>Exercise |
| 2    | Interference, Packages   | Exception Handling<br>Exercise                  |
| 3    | Strings, and Library   | Multithreading<br>Exercise                      |
| 4    | Applets  | Event Handling<br>Exercise                      |
| 5    | Layout Manager   | Quiz  |





# VIA INSTITUTE OF TECHNOLOGY A INSTITUTE OF TECHNOLOGY A COMPUTER ENGINEERING DEPARTMENT

### Report:-

Computer engg. department of VIVA Institute of Technology conducted a course on "Programming with JAVA" for second and third year students. Total 17 students had been enrolled for this course.

This course was conducted by Prof. Janhavi Thakur in order to provide basic knowledge of JAVA programming. This was 30 hrs certificate course.

During the course students learned basic programming of JAVA. Also students learned all concepts of JAVA like interference, packages, and applets and so on. Students practiced of all things concepts in the exercise session, All doubts and errors during programming were solved by the coordinator.

Students enjoyed the course and completed it successfully.

CO-PO Mapping: -

| Course      | Program Outcome |         |         |         |         |         |         |         |         |          |          |          |  |
|-------------|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|--|
| Outcom<br>e | PO<br>1         | PO<br>2 | PO<br>3 | PO<br>4 | PO<br>5 | PO<br>6 | PO<br>7 | PO<br>B | PO<br>9 | PO<br>10 | PO<br>11 | PO<br>12 |  |
| CO 1        | 3               | -       | -       | -       | -       |         | -       | -       | -       | -        | -        |          |  |
| CO2         | -               | 2       | -       | -       | -       | -       | -       | -       | -       | -        | -        |          |  |
| CO3         | -               | -       | 3       | 1       | -       | -       | -       | -       | -       | -        | 2        | -        |  |
| CO4         | -               | -       | 3       | -       | -       | -       | -       | -       | -       | -        | -        | -        |  |
|             | 3               | 2       | 3       | 3       | -       | *       | -       | -       | -       | -        | -        | -        |  |

CO PO Justification: -

| COs | POs | Justification   |
|-----|-----|---|
| CO1 | PO1 | Strongly mapped as the students will be able to analyse the problem to be implemented using basics of Python. |
| CO2 | PO2 | Moderately mapped as the students will be able to identify the technique required to implement the problem.   |
| CO3 | PO3 | Strongly mapped as the students will be able to find a solution for the problem identified.                   |
|     | PO4 | Slightly mapped as the students will be able to depict the project outcome and future scope.                  |
| CO4 | РОЗ | Strongly mapped as the students will be able to develop design methodologies for the system to be developed.  |

Ashwini Save

HOD, Computer Engg.





## VIVA INSTITUTE OF TECHNOLOGY

Computer Engineering Department

Course Name:- Programming with JAVA

Academic Year 2018 - 19

Course Name:- Programming with JAVA Course Duration:- 25th Jun to 29th Jun 2018

|         |   | 2506                            | rista a             | Attenda               |                     |                       |  |                                 |                                  |                                 |                                  |
|---------|---|---------------------------------|---------------------|-----------------------|---------------------|-----------------------|--|---------------------------------|----------------------------------|---------------------------------|----------------------------------|
| Sr. No. | Name of Student                         | 25/06/2018<br>Morning Atternoon |                     | 26/05/2018            |                     | 27/08/2018            |  | 28/05/2018                      |                                  | 29/06/2018                      |                                  |
|         | 0.0000000000000000000000000000000000000 | Session<br>(9 to 12)            | Session<br>(1 to 4) | Session<br>(9 to 12 ) | Session<br>(1 to 4) | Session<br>(9 to 12 ) | Afternoon<br>Session<br>(1 to 4)   | Motning<br>Sension<br>(9 to 12) | Afternoon<br>Session<br>(1 to 4) | Morning<br>Session<br>(9 to 12) | Afternoon<br>Session<br>(1 to 4) |
| 1       | GAIKAND RITIK SANTOSH                   | RATE                            | RAIK-               | RNIL                  | KHU-                | RINK                  | RHIL   | RIFILE                          | R.WK                             | 8 AK                            | 21415                            |
| 2       | GURAN ANNET SHANKAR                     | Guran                           | Guras               | turne                 | Guerral             | The second second     | Gurese   | Gwest                           | 1                                | 2                               | Corre                            |
| 3       | GOWNELY YOGESH ARUNN                    | A. Comon                        | Jam                 | -0-                   | -0-                 | J. Cours              | 4-600000   | 4-Gowan                         | Gura                             | 46000                           |                                  |
| 4       | JIVA VISHNU JITENDRA                    | V-Jha                           | Viha                | YJha                  | Vota                | Yaka                  | Vaha   | Wha                             | Vihay                            | 13hg                            | Viha                             |
| 5       | HADAM JATIN SANJAY                      | JK.                             | Jr_                 | JK                    | JK-                 | 1K                    | JA   | 31-                             | 34                               | 35                              | 2K                               |
| 6       | MHASKAR SUNETRA RAGHUNATH               | 5.m.                            | Sm.                 | Sim                   | Sim                 | Sm                    | Sm -   | Sm                              |                                  | Sim                             | SA                               |
| 7       | KHAN ATIFASAD SHAKRALI                  | (AH)                            | AD-                 | OFF.                  | AD.                 | (AR)                  | an_  | (AP)                            | CAR                              | (AP)                            | and the same of                  |
| 8       | YADAV DILIP MAHENDRA                    | Dilip                           | Dilip               | pilte                 | pilip               | Dillo                 | tilip  | Dilip                           | p'dip.                           | pilip                           | Dilip                            |
| 9       | WIGHISHYA TUBHARI WANSUKH               | 7V                              | T.V                 | JY                    | 5.0                 | -Tv                   | יעיד   | 7.                              | ブ·V*                             | TV.                             | TV                               |
| 10      | RICHNICATE SELAL PRATEEP                | Sign                            | Sid                 | Sijal                 | Sign                | A-                    | -A-  | Sign                            | Sgot                             | Sial                            | Syal                             |
| 11      | GUPTA MONTHUMAR JAYPRAKASH              | Meyes                           | Melas               | (Must 4               | ander               | Muse                  | and the same of th | (Musta                          | Mupes                            | Munto                           | Muya                             |
| 12      | GUPTA PRAKASH VEAYSHANKAR               | B                               | 29-                 | 39                    | 玛                   | 29                    | 39   | 39-                             | 24                               | Pa                              | P9 -                             |
| 13      | HAZRA SOHAN SUMIL                       | HS.                             | H-S                 | tes .                 | H-5 -               | 12.H                  | hes.   | H.C.                            | -4-                              | HS.                             | MS.                              |
| 14      | JADHAW PRADNESH SANJAY                  | RUSS                            | TIME                | VI-1022               | TEND                | THE                   | -VS100   | TEAD                            | -VEED                            | T. SRU                          | THEN                             |
| 15      | LAD KRUNAL KISHOR                       | KRUMA                           | HEONAL              | -                     | -                   | KRYMAL                | REUGIAL  | P. BuriAL                       | KRUMAL                           | Leunin                          | KKUNA                            |
| 16      | LADUMOR SHIVAM KETAN                    | Salur                           | Sulaum              | -1-                   | -A-                 | Salano                | dela   | Spiles                          | Stade                            | Salue                           |                                  |
| 17      | PATIL PARESH YASEMVANT                  | PROM                            | PPMI                | P-PaHI                | PPAN                | P- fahi               | P-Pal-il   | PPahl                           | Prom                             | PAMI                            | Frahi                            |



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## VIVA Institute of Technology

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## CERTIFICATE

OF PARTICIPATION

This is to certify that \_\_ANIKET SHANKAR GURAV

attended a one-week Program on "Programming with JAVA" organized by the Computer Engineering Department Of VIVA Institute of Technology from 25th June to 29th June 2018.



Prof. Ashwini Save H.O.D

Denen

Dr. Arun Kumar Principal





# VIVA INSTITUTE OF TECHNOLOGY (ACCURATE ACT), New York Control of the Control of

## Academic Year 2018 - 19

Course name: - Learning with Python Duration: - Throughout the semester Venue: - VIVA Institute of Technology

Co-ordinator: - Prof. Vinit Raut

Enrolled students: - 20

### Course Objective:-

To create fully functional Python programs

2. To understand user input

3. To learn about loop structures and conditionals

4. To work with Python file handling

### Course Outcomes: -

After successful completion of the course, the students are able to

- Describe the basics of the Python programming language
- Install Python and write first program
- Use variables to store, retrieve and calculate information
- Utilize core programming tools such as functions and loops
- Explain the basic principles of Python programming language

### Course Schedule: -

| Days | Morning Session<br>(9 am to 12 pm)   | Afternoon Session<br>(1 pm to 4 pm)                 |
|------|--------------------------------------|---|
| 1    | Introduction                         | Install Python and basic<br>python program          |
| 2    | Basic syntax , variables and strings | Lists, Tuples and Dictionaries.<br>Exercise         |
| 3    | If-else statements, For loop         | While loop,<br>Pass, break and continue<br>Exercise |
| 4    | Understanding<br>Functions           | File handling – opening and reading                 |
| 5    | Classes and Objects                  | Exercise<br>Quiz                                    |



## VIVA INSTITUTE OF TECHNOLOGY

Topic consisting Acres, the condition of the condition and Affiliated to the techniques of manufact)

COMPUTER ENGINEERING DEPARTMENT

## Report:-

Computer engg. Department of VIVA Institute of Technology conducted a course on "Learning with Python" for second and third year students. Total 20 students had been enrolled for this course.

This course was conducted by Prof. Vinit Raut in order to provide basic knowledge of Python programming. This was 30 hrs. Certificate course.

During the course students learned how to install Python. They learned all the basic of python like variables, lists, strings. Also students study conditional statements and loops. This course also cover functions and file handling.

Students enjoyed the course and completed it successfully.

CO-PO Mapping: -

| Course<br>Outcome |     | Program Outcome |     |     |     |     |   |     |         |     |     |     |  |  |  |
|-------------------|-----|-----------------|-----|-----|-----|-----|---|-----|---------|-----|-----|-----|--|--|--|
|                   | PO1 | P02             | PO3 | PO4 | P05 | PO6 |   | P08 | PO<br>9 | PO1 | P01 | P01 |  |  |  |
| CO 1              | 3   | -               | *   |     |     |     |   |     | ,       |     | 1   | 2   |  |  |  |
| CO2               | 3   | -               | -   |     |     |     |   | -   | -       | -   | *   | -   |  |  |  |
| CO3               | -   |                 | 3   |     |     |     |   | -   | -       | 7   |     | -   |  |  |  |
| CO4               |     |                 | 3   | 2   | -   | -   |   |     |         | •   | -   | -   |  |  |  |
| CO5               |     | 3               | -   |     | -   |     |   | -   |         | -   | -   | -   |  |  |  |
|                   | 3   | 3               | 3   | 2   |     |     |   | -   | -       | -   | 1   | 1   |  |  |  |
|                   | -   | 9               | 3   | 2   | -   | *   | - |     | -       | -   | 1   | 1   |  |  |  |

### CO PO Justification: -

| COs | POs | Justification   |
|-----|-----|---|
| CO1 | PO1 | Strongly mapped as the students will be able to analyse the problem to be implemented using basics of Python. |
| CO2 | PO1 | Strongly mapped as the students will be able to identify the technique required to implement the problem.     |
| соз | PO3 | Slightly mapped as the students will be able to find a solution for the problem identified.                   |
| CO4 | PO3 | Strongly mapped as the students will be able to find the relevant tools to implement the problem stated.      |
|     | PO4 | Moderately mapped as the students will be able to find a feasible solution for the problem designed.          |
| :05 | PO2 | Strongly mapped as the students will be able to develop design methodologies for the system to be developed.  |



Ashwini Save HOD, Computer Engg.



Academic Year 2018 - 19

Course Name:- Learning With Python

Course Duration:- 2nd Jan to 5th Jan, 11th and 18th Jan 2019

#### Attendance Sheet

|         |                           | 02/0                            | 1/2019                           | 03/0  | 1/2019                           | 04/01/2019                       |                                      | 05/01/2019                       |                                  | 11/01/2019                                | 18/01/2019                                |
|---------|---------------------------|---------------------------------|----------------------------------|---|----------------------------------|----------------------------------|--------------------------------------|----------------------------------|----------------------------------|---|---|
| Sr. No. | Name of Student           | Morning<br>Session<br>(9 to 12) | Atternoon<br>Session<br>(1 to 4) | Morning<br>Session<br>(9 to 12 )              | Afternoon<br>Session<br>(1 to 4) | Morning<br>Session<br>(9 to 12 ) | Afternoo<br>n<br>Session<br>(1 to 4) | Marning<br>Session<br>(9 to 12 ) | Afternoon<br>Session<br>(1 to 4) | Afternoon<br>Session<br>(1,30 to<br>4,30) | Afternoon<br>Session<br>(1.30 to<br>4.30) |
| 1       | Disha Sakre               | Disha                           | Photo                            | Leahe   | Diene                            | anth.                            | -Diche                               | 200                              | Pipha                            | D'ske                                     | Disks                                     |
| 2       | Oheeraj Purohit           | (CP                             | (DP                              | OP  | OP                               | 0                                | (IP                                  | 60                               | QP.                              | 6P  | OP  |
| 3       | Rutika Ganesh Naik        |                                 | Rutian                           |   | Rute                             | Purtire                          | Petito                               | Putito                           | Pettir                           | -   | Patro                                     |
| 4       | Sneha Gorakhnath Pawar    | Spino                           | Some                             | Sprum   |                                  | Chuan                            | Country                              | Questo                           | Spurer                           | -   | -   |
| 5       | Shubham Subhash Warang    | 55.                             | SS                               | 55  | 95                               | SS                               | 95                                   | SE                               | 55                               | 55  | 3   |
| 6       | latin Sanjay Kadam        | 1)                              | -0-                              | Julin   |                                  | dela                             | Juin                                 | Thin                             | Tin                              | Takin                                     | Calin                                     |
| 7       | Geetanjali Dilip Jadhav   | C                               | 6                                | er  | er                               | OF                               | Ca                                   | 65                               | a-                               | 9   | Gt  |
| 8       | Daksh Paresh Ashar        | deper                           | dates                            | -   | dalah                            |                                  | depo                                 | derde                            | datala                           | dalus                                     | dalab                                     |
| 9       | Vandan Raval              | MAR                             | ande                             | J. DIR  | well                             | Suak                             | 6.0                                  | wall                             | Vade                             | Mary                                      | 30CM-                                     |
| 10      | Faiz Harun Shaikh         | Cale                            | Date                             | Jak   | Care                             | alz                              |                                      | Rose                             | laz                              | gatz                                      | fall                                      |
| 11      | Sanket Memana             | 8m                              | 800                              | 800   | gm                               | 8m                               | gr                                   | 8m                               | Br                               | en  | 8m  |
| 12      | Sunetra Raghunath Mhaskar | 200                             | 53                               | 8   | 53                               | 8                                | 88                                   | 8                                | 88                               | 8   | Sho                                       |
| 13      | Patil Shraddha Dilip      | Settle                          | Spell                            | SHILL   | Statu                            | Sabu                             | Satu                                 | Shill                            | Satu                             | Sou                                       | Spitt                                     |
| 14      | Raut Meet litendra        | Meet                            | -                                | THE RESERVE AND ADDRESS OF THE PARTY NAMED IN | Meet                             | Mee                              | Meet                                 | Meet                             | and the same of the same of      | Meet                                      | Meet                                      |
| 15      | Gupta Shyam               | Sec                             | Se                               | 80  | SE                               | -4-                              | -A-                                  | Ste                              | Ste                              | St  | sec                                       |
| 15      | Kansara Manthan Sanjay    | EM                              | EM                               | EM  | EM                               | CM                               | (KM                                  | M                                | (KW)                             | (KM                                       | CKM                                       |
| 17      | Patil Devesh Anil         |                                 | Tedu                             | PAUD  | DATAD                            | TAND                             |                                      | Pape                             | TAKUT                            | P.600                                     | Jaio                                      |
| 18      | Patil Paresh Yashwant     | Pares                           | Pared                            | Parest  | Paret                            |                                  | Parret                               | -                                | -                                |   | Parest                                    |
| 19      | Tare Aditi Deepak         | AT                              | MT                               | AST   | AIT                              | AT                               | AT                                   | AT                               | A.T                              | -4-                                       | A-  |
| 20      | Survawanshi Gaurav Vijav  | Garret                          | Genter                           | gury  | GOMMAN.                          | genery.                          | garring                              | gaunn                            | quire.                           | gunar                                     | query                                     |



Late Shri, Vishnu Waman Thakur Charitable Trust's

## VIVA Institute of Technology

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## CERTIFICATE

OF PARTICIPATION

This is to certify that \_\_ADITI DEEPAK TARE

attended a one-week Program on "Learning with Python" organized by the Computer Engineering Department Of VIVA Institute of Technology from 2nd Jan to 5th Jan, 11th and 18th Jan 2019.





Prof. Ashwini Save H.O.D



Principal



### Academic Year 2018 - 19

Course name: - NETWORK SECURITY AND CRYPTOGRAPHY

**Duration:** - Throughout the semester **Venue:** - VIVA Institute of Technology **Co-ordinator:** - Prof. Vinit Raut

Enrolled students: - 57

### Course Objective:-

- 1. To understand the foundations of cryptographic attacks.
- 2. To gain knowledge of encrypting data, and to choose between different algorithms.
- Prepare students for research in the area of cryptography and enhance students communication and problem solving skills
- To differentiate between the encryption techniques and know their suitability to an application.
- 5. To effectively apply their knowledge to the construction of secure cryptosystems.

### Course Outcomes: -

After successful completion of the course, the students are able to

- Understand the various types of cryptographic attacks and the mathematics behind cryptography.
- 2. Describe the various types of ciphers and hash functions.
- 3. Apply the different cryptographic techniques to solve real life problems.
- 4. Evaluate different techniques as to their suitability to various applications.
- 5. Develop a cryptosystem keeping in view social issues and societal impacts.

#### Course Schedule: -

### Day 1: - Introduction to Cryptography and Block Ciphers

Session 1: Introduction to security attacks

introduction to cryptography

classical encryption techniques

Session 2: Modern Block Ciphers

Block ciphers principals

block cipher modes of operations

### Day 2: - Confidentiality and Modular Arithmetic

Session 1: Confidentiality using conventional encryption

Introduction to graph

Session 2: Fermat's and Euler's theorem

Primality testing

### Day 3: - Public key cryptography and Authentication requirements

Session 1: Principles of public key crypto systems

Introductory idea of Elliptic curve cryptography



Elgamel encryption

Session 2: Message Authentication and Hash Function

Authentication requirements

Security of hash functions and MACS

### Day 4: - Integrity checks and Authentication algorithms

Session 1: Secure hash algorithm

Digital Signatures

Digital signature standards

Session 2: Authentication Applications

Directory authentication service

### Day 5: - IP Security and System Security

Session 1: IP Security: Architecture

Encapsulating security payloads

key management

Session 2: Secure socket layer and transport layer security

firewall design principals

#### Report: -

Computer engg, department of VIVA Institute of Technology conducted a course on "NETWORK SECURITY AND CRYPTOGRAPHY" for Last year students. Total 57 students had been enrolled for this course.

This course was conducted by Prof. Vinit Raut in order to provide knowledge of Cryptography and Network Security. The course covers fundamental aspects of security in a modern networked environment with the focus on system design aspects and cryptography in the specific context of network / internetwork security

It also dwells into basics of cryptographic techniques, algorithms and protocols required to achieve these properties; computational issues in implementing cryptographic protocols and algorithms; and system/application design issues in building secure networked systems. Students enjoyed the course and completed it successfully.

### CO-PO Mapping: -

| Course  | Program Outcome |     |     |     |     |     |     |     |   |     |     |     |
|---------|-----------------|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|
| Outcome | PO1             | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 |   | PO1 | PO1 | PO1 |
|         |                 |     |     |     |     |     |     |     | 9 | 0   | 1   | 2   |
| CO 1    | -               | 3   | -   | -   | -   | -   | -   | -   | - | -   | -   | -   |
| CO2     | 3               | -   | -   | -   | -   | -   | -   | -   | - | -   | -   | -   |
| CO3     | -               | -   | 3   | -   | -   | -   | -   | -   | - | -   | -   | -   |
| CO4     | -               | -   | -   | 2   | -   | -   | 2   | -   | - | -   | -   | -   |
| CO 5    | -               | -   | -   | -   | -   | 3   | -   | -   | - | -   | -   | -   |

Ashwini Save HOD, Computer Engg.



# Bridge Course attendance



# VIVA INSTITUTE OF TECHNOLOGY



### Computer Engineering Department

BE Attendance Sheet [ 2018 - 19 ]

semester: Metwork Security of Coffetagoaphy

Week/ Month: Subject:

| Roll<br>No     | Name   | 02/01                  | 08/01      | 04 01  | 05 01           | 1001     | C/8 mg                   | Tota |
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| 1              | ANGWALKAR SAHIL VIJAY  | Selvil                 | Balvil     | A  | Latul           | gahi"1   | Boldi                    |      |
| 2              | AREKAR VRISHESH JAYVANT  | (A)                    | R          | (0)  | @               | 600      | 0                        |      |
| 3              | AVRIRKAR GAURAV GANESH   | Gura                   | Carre      | Course   | Δ               | Carre    | Course                   |      |
| 4              | BANERIEE VIJAY   | Vijers                 |            | VIJOHB   | VIJOHE          | Vileys   | Virgo                    |      |
| 5              | BARSWADE LINESH LAXMIKANT  | Line                   | المعلمانيا | A  | Linash          | Lipsen   | عصيدا                    |      |
| 6              | BHALERAG ROHIT YASHWANT  | 1                      | @.         | (1)  | (D)             | (R)      | <b>(P</b> )              |      |
| 7              | BHANDARI AMRUTA BABAN  | A                      | A.         | #1 .   | A               | P.       | 1,                       |      |
| 8              | BHOITE PRANALI SHIVAJI   | Beel                   | Flore      | Tame   | المبيع          | Thouse   | Breeze                   |      |
| 9              | BODAR MAYUR BHARATBHAI   | Wooden                 | Maden      | (Most on   | Contes          | Made     | A                        |      |
| 10             | CHAUBEY SUHAS SATYAPRAKASH   | A                      | A          | A  | Δ               | A        | A                        |      |
| 11             | CHAUHAN ARJUN MUNIB  | 100                    | (AC)       | (10)   | (AC)            | (AC)     | (F)                      |      |
| 12             | CHAVAN KETAN PRAVINGHAI  | katon                  |            | Ketan  | Keton           | A        | keton                    |      |
| 13             | CHAWDA SARJAK DINESH   | Deserte                | Shaid      | Que  | Same?           | Allendo  | Show                     |      |
| 14             | DALVI RAHUL MURLIDHAR  | A                      | 4          | 14   | A               | Д        | A                        |      |
|                | DEHERKAR JAY KIRAN   | 姆                      | 34         | you.   | yes-            | 404-     | #4-                      |      |
| 16             | DIWALE KRUTIKA PRABHAKAR   | reduck                 |            | Diede  | Klaude          | Hellerie | Jacob Made               |      |
| 77.70          | GAIKWAD POGJA DILIP  | 4.5                    | Peola.     | Toola  | Poola           | Peoja    | Pooja                    |      |
|                | GAITONDE RACHANA KRISHNANAND   | Control of the Control | Parkers    | Culiare  | Pachano         | Poulsons | Duchamo                  |      |
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| 1770           | GORAD RAHUL MOHAN  | A                      | Δ          | Δ  | A               | A        | A                        |      |
| 20             | GUPTA AKASH  | 00                     | 60         | (AC)   | (A9)            | 600      | (FSO)                    |      |
| 21             | GURAV NISHA UDAY   | Hishe                  | Nishe      | Niche  | Niska           | Nisha    | Micha                    |      |
| 22             | HANKARE NIKHIL DNYANESHWAR   | A                      | ٨          | A  | A               | A-       | A                        |      |
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|                | HATE SANKITA SHARAD  | Phil                   | Abil       | Hod  | I Lluis         | this     | Hart                     |      |
|                | HIRVE VISHAKHA ANIL  | A                      | A          | A  | A               | A        | A                        |      |
| -              | JAIN ANKIT BHARATBHAI  | Arkik                  | Anta       | Her  | baker           | Antat    | Antal                    |      |
| -2.2           | JAISWAL BRIJESHKUMAR RAMKUMAR  |                        | -          | lan  | Jan             | Tain     | Jean                     |      |
| 28             | IANI HARSH PARESHKUMAR   | laun                   | Japan      | Swele  | Somele          | 1        | The second second second |      |
| -              | JAWALE KHUSHABOO SANDIP  | 000                    | A.         | A  | A               | . A-     | <b>A</b>                 |      |
| -              | KAMBLE PRIYANKA ULHAS  | Kom                    | oksenil    | Kami   | Kemi            | tamile   | The second second        |      |
| 31             | KARNIK ATHARVA TUSHAR  | collect                | lador-     | John   | Lee             | rado     | lada                     |      |
| -              | LAGAD GEETA SUKESH   | R.L.                   | R.L.       | R.L  | RL              | P.L.     | PL                       |      |
| -              | LOKHANDE RUSHIKESH RAJU  | A                      | 15121      | A  | A               | Δ        | A                        |      |
| 7.7            | MALI ASHVINI BRATU   | m.A                    | m·A        | m-A  | m-A             | m-A      | mA.                      |      |
| 75             | MAURYA ANKIT JAINATH   | A                      | Δ          | A  | A               | A-       | Δ_                       |      |
|                | MAURYA SUNNY   | -                      |            | 2m   | Rm              | Pm       | Qm                       |      |
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| 36<br>37       | MEHTA RAJ BHADRESH   | 2h                     | fun        | The state of the s | Local           | Lund     | wared                    |      |
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# VIVA INSTITUTE OF TECHNOLOGY



### Computer Engineering Department BE Attendance Sheet | 2018 - 19 |

Somester : Subject incharge : Week/ Month: Subject:

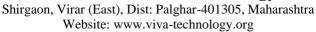
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| 42         | NIIAVI AAKASII KOMAL        | 1                     | 1        | 1        | 10        | A          | A                   |      |
| 43         | PANCHAL MIHIR HIBMANT       | 1                     | 14       | 14       | 1         | 1          | 1                   |      |
| 44         | PARMAR AJAY PRAKASHIHIAI    | 100                   | 4        | कंप      | 00-1      | njeg       | ajer                |      |
| 45         | PATIL ADITI NITIN           | Adidi                 | Adidi    | Adili    | Alin      | Adil       | Adill               |      |
| 46         | PATTE AMEYA PRAKASTI        | 9.11                  | 1.0.9    | Nobel    | 15000     | 1.de       | Proke               |      |
| 47         | PATIL HARSHAL RAJUNDRA      | Λ                     | A        | 1        | 1         | n          | Α                   |      |
| 48         | PATIL JAGRUTI SHIVAJI       | Pont                  | Palit    | 64.6     | mill.     | MIL        | Patel               |      |
| 49         | PATTL PRAVIN STRUISH        | Pour                  | -        | Paner    | born      | parent     | burn                |      |
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| 53         | PUJARI ADITYA MUKESH        | Calify                | letis.   | delity   | Colly     | tales      | delity              |      |
| 54         | RAUT APIRVA SATISH          | Del                   | 700      | CP (A)   |           | DZA"       | Dali                |      |
| 55         | RAUT JUILLEY SANGRAM        | ٨                     | 1        | A        | A         | A          | A                   |      |
| 56         | RAUT NIBIA MARIESTE         | A                     | Λ        | A        | A         | A          | A                   |      |
| 57         | SANKHE MANDAR RAJENOKA      | Coll                  | South    | Chul     | -         | -          | soluter present the |      |
| 58         | SHARRI MERAJ AJIJ           | 1100                  | metro    | merer    | Blekel    | meren      | meral               |      |
| 59         | SHARMA AMAN                 | diam                  | Acion    | Alray    | Askin     | Man        | diver               |      |
| 60         | SHETKAR SHUBHAM             | Shull.                | Shubber  | Shuka    | Shunka    | Shake      | 334                 |      |
| 61         | SINGH AUHISHEK MANISH       | A                     | A        | A        | A         | A          | A                   |      |
| 62         | SINGIE VISHAL THUUHUVAN     | A                     | A        | A        | A         | A          | A                   |      |
| 63         | SOLANKI VARUN               | Venun                 | Varen    | Varian   | Vason     | Venen      | Vomen               |      |
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| 66         | TELAVANE JULSUNIL           | - Total               | -TECHNIA | water.   | Laterant  | -letatus   |                     |      |
| 67         | THAKUR DEEPAL SANTOSH       | A.                    | F        | A        | 1)        | A          | Λ                   |      |
| 68         | THAKUR SIDDHESH SACHIN      | whoken                |          | stoke    | dake      | mheken     | zehaka-             |      |
| 69         | UGALE SHRADDRA VIJAY        | Youle                 | Ugale    | Voole    | Ugale     | Vole       | Use                 |      |
| 70         | VASKAR AKSHAY ASHISH        | daker                 | Λ        | Arskin   | Varker    | Voter      | Value               |      |
| 71         | YADAY KULDEEP KAMKEWAL      | Kulur                 | Anthri   | Anyther  | Kullay    | Kritiset   | Kather              |      |
| 72         | YADAY NAVEEN RAMASHANKAR    | Δ                     | A        | Λ        | ^         | A          | Α.                  |      |
| 73         | YADAY RAJNATH RAMSAJIVAN    | A                     | A        | A        | A         | A          | A                   |      |
| 74         | YADAY RAKESH RAMAVAENI      | A                     | A-       | A-       | Α-        | A          | Δ                   |      |
| 75         | BHONSALE VISHAL SUNIL       | Bedriek               | Burball  | garante  | sunde     | - Ohe mile | Chearne             | e.   |
| 76         | DEVDHEKAR CHINMAY SURYAKANT | chimny                | cham     | A        | chiony    | ahimm of   | ekinney             |      |
| 77         | LOKHANDE RAJ MANOJ          | 7.4)                  | RM       | Roy      | Pro       | Rej        | Fee                 |      |
| 78         | MUKADAM DIPESEI KIRAN       | ٨                     | A        | Δ        | Α         | A          | ٨                   |      |
| 72         | SAPKAL PRIYA SHASHIKANT     | ٨                     | A        | A-       | A         | *          | - 71 -91 -13        |      |
| 80         | OUVARNA RAHUL KAMLAKAR      | Pokul                 | Ruhad    | Robert   | Parl      | Rate 1     | FALT                | _    |
| M.         | SHI VARRIAV VIJAY           | Α                     | Λ        | Λ        | ٨         | ٨          | ٨                   | -    |
| 12         | AMIN ANUSH KARUNAKAR        | A-                    | 1        | ٨        | 1         | V          | A                   | _    |







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### Department of Electronics and Telecommunication Engineering

# Name of Course: Nirman-Arduino Workshop Duration: 30 hours/ 1 week

### Day 1- Embedded System Basic (Working, Input devices & Programming Code):

### Session 1: Introduction, Hardware & Basic Programming

- ✓ Introduction to basic of embedded system
- ✓ Introduction & explanation of microcontrollers
- ✓ Explanation of AVR ATMega 328 microcontroller
- ✓ Explanation of Arduino board & programming
- ✓ Basic Arduino based programs for interfacing i/o devices

### Session 2:

- ✓ Introduction to output devices interfacing
  - Project 1 : LED blinking
- ✓ Introduction to input devices interfacing
  - Project 2: Push button interfacing
- ✓ Rotary encoder interfacing
  - Project 3 & 4:
    - More LEDS switching sequentially based on encoder input
    - ii. Bar graph sort of LED switching based on encoder input

### Quiz

### Day 2 - Digital & Analog Input Ouput Devices Interfacing

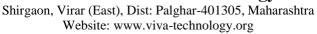
Session 3:

- ✓ Explanation for digital input devices
- ✓ Explanation for analog input devices





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- ✓ Introduction to temperature sensor and its working
- ✓ Basic programming for interfacing temperature sensor
  - **Project 5 :** Temperature sensor using LM35
- ✓ Introduction to relay
- ✓ Basic programming for interfacing relay
  - Project 6: Automatic temperature controller system (soldering iron temperature control\_simple on/off)
- Session 4:
- ✓ Introduction to LDR sensor and its working
- ✓ Basic programming for interfacing LDR sensor
  - **Project 7 :** Light controlled switch
- ✓ Introduction to IR sensor and its working
- ✓ Basic programming for interfacing IR sensor
  - Project 8: Detect presence of object and blink LED accordingly

### Quiz

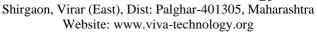
### Day 3 - Advance Sensor (Ultrasonic, Hall Effect) and Serial Communication

- Session 5:
- ✓ Introduction to ultrasonic sensor and its working
- ✓ Basic programming for interfacing of ultrasonic sensor
- ✓ Programming and conversion concept for the measurement
- ✓ Formulas for speed, distance & time for distance measurement using ultrasonic sensor
  - Project 9: Distance Finder / Range Finder using
     Ultrasonic
- ✓ Explanation of working of stepper motor & motor driver
- ✓ Interfacing of stepper motor with motor driver & basic motor control program
  - Project 10 : Stepper Motor Rotation
- ✓ Introduction to Hall Effect sensor and its working
- ✓ Basic programming for interfacing Hall Effect sensor





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- **Project 11:** Stepper Motor Speed Detection
- Session 6: ✓ Introduction to serial communication & its significance in embedded system
  - ✓ Explanation of program for establishing serial communication for data transfer between computer & Arduino
    - Project 12 : Send temperature data and distance measured by ultrasonic to serial port

### Quiz

### Day 4 - Visible Output, Keypad

- Session 7: ✓ Introduction to a 7-Segment LED display
  - ✓ 7-segment LED display interfacing & basic data display program
    - **Project 13 :** Temperature indicator on 7 segment
  - ✓ Introduction to LCD (16 X 2) & its working
  - ✓ LCD Interfacing & Basic data display program
    - Project 14 : Display temperature on LCD
- Session 8: ✓ Introduction to matrix keypad & its working
  - ✓ Concept of data line reduction & matrix concept
  - ✓ Interfacing LCD & matrix keypad with Arduino
    - Project 15: LCD based GUI for user password registration and monitor

### **Project 16** Smart Door System

### / Product

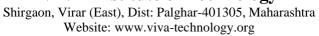
### Day 5 - Industry 4.0 and Project Guidance

- Session 9: ✓ Tips for Project making
  - ✓ Steps for designing a project
  - ✓ Schematic designing tips
  - ✓ Project development phase





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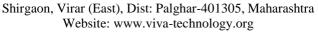
- ✓ Project functional block programming & output
- ✓ Doubt discussion
- Session 10:
- ✓ Industry 4.0: The Fourth Industrial Revolution
- ✓ Certificates & Project Letters distribution for competition

### **Feedback**





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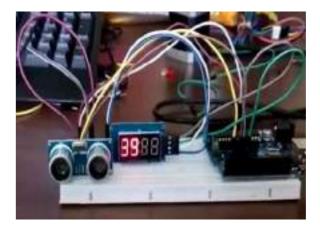
### Department of Electronics and Telecommunication Engineering

## Report

This 5 days Bridge course was conducted by Prof. Nutan Malekar in order to provide basic knowledge to second year and third year students about an **Arduino** and how it works. It helped students to learn programming concepts using **C** and **C**++ along with Arduino specific programming. The students understood how to use a **wide variety of hardware** and components and prototype projects using a breadboard.

26 students of second year and third year EXTC engineering participated in this course After this bridge course **project exhibition was organized** where every students showcase their knowledge by doing various innovative projects.

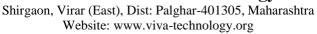








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### Department of Electronics and Telecommunication Engineering

## Course Objectives

### **Course Objectives**

- **♣** To understand what an Arduino is and how it works
- ♣ To learn how to use an Arduino safely
- → To program Arduino using code that have written in the Arduino IDE (Integrated Development Environment)
- ♣ To learn programming concepts using C and C++ along with Arduino specific programming
- ♣ To understand best practice concepts for programming and prototyping
- ♣ To use a wide variety of hardware and components and prototype your projects using a breadboard
- **♣** To build innovative project with Arduino

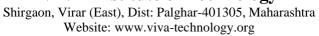
## **Course Outcomes:**

- > Students will be able to get new product or service ideas by hearing about needs in industry.
- > Students will be able to receive large volumes of usable content within a compressed amount of time.
- > Students will be able to get intensive exposure to a topic through presentations and discussions.
- > Students will be able to achieve confidence and motivation for organising different events that improves the personality of a student.
- > Students will be able to achieve confidence and motivation for participating in different events that improves the personality of a student.
- > Students will be able to develop a connection that might help with future employment.





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## Department of Electronics and Telecommunication Engineering

## **CO-PO MAPPING**

| Course  |         |         |         |         |         | F       | Program | o Outcoi | me      |          |          |                    |
|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|----------|----------|--------------------|
| Outcome | PO<br>1 | PO<br>2 | PO<br>3 | PO<br>4 | P0<br>5 | PO<br>6 | PO<br>7 | PO<br>8  | PO<br>9 | PO<br>10 | PO<br>11 | CO<br>Target level |
| CO1     | 2       | -       | -       | -       | -       | -       | -       | -        | -       | -        | -        | 2                  |
| CO2     | -       | 2       | -       | -       | -       | -       | -       | -        | -       | -        | -        | 2                  |
| CO3     | 2       | -       | -       | -       | -       | 2       | -       | -        | -       | -        | -        | 2                  |
| CO4     | 2       | ı       | -       | -       | -       | -       | -       | ı        | ı       | -        | -        | 2                  |
| CO5     | -       | 2       | -       | -       | -       | -       | -       | -        | -       | -        | -        | 2                  |
| CO6     | -       | -       | -       | -       | 2       | -       | -       | -        | -       | -        | 1        | 1.5                |
|         | 2       | 2       | -       | -       | 2       | 2       | -       | -        | -       | -        | 1        |                    |





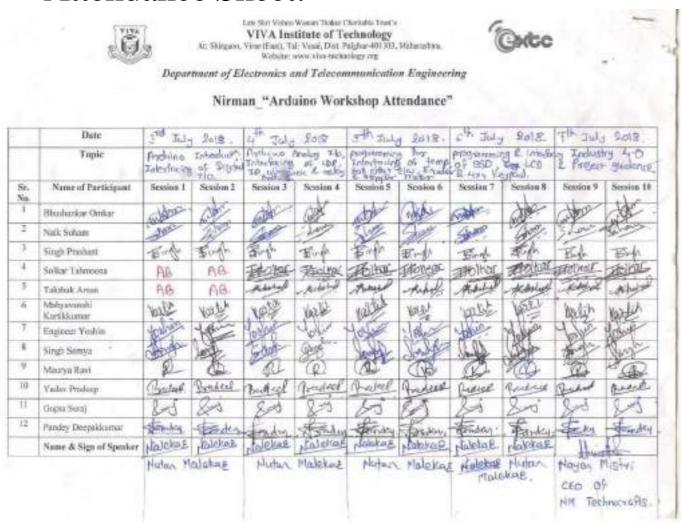
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Shirgaon, Virar (East), Dist: Palghar-401305, Maharashtra Website: www.viva-technology.org

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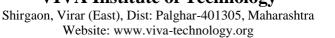
## **Attendance Sheet:**





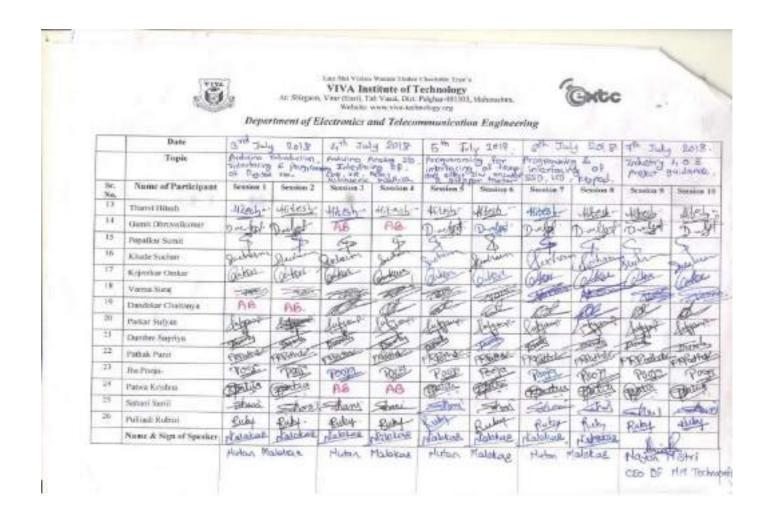


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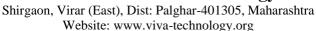
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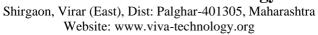
## **Model Certificate**







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## Department of Electronics and Telecommunication Engineering

## Name of Course:

## PCB Design Workshop

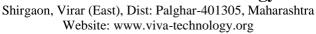
## Duration: 30 hours

| Module | Content  | Hours |
|--------|--|-------|
| 1      | Printed circuit Board Design:                    | 10    |
|        | Study of Packages of Electronic Components.      |       |
|        | History of Printed Circuit Boards.               |       |
|        | Various types of Printed Circuit Boards-Single   |       |
|        | Sided Boards, Double Sided Plated through Hole   |       |
|        | Boards, multilayer Boards.                       |       |
| 2      | Printed Circuit Board Design Methods:            | 12    |
|        | Rules for single and Double Sided Board.         |       |
|        | Schematic diagram Entry in PCB Design tool /S/W. |       |
|        | Layout Design, Routing methods .Guideline for    |       |
|        | Artwork Generation.                              |       |
|        | Generation of various Manufacturing Documents/   |       |
|        | Output file generation.                          |       |
|        | Component Library management in PCB Design       |       |
|        | tool.  |       |
| 3      | Study of-Fault Finding methods of PCBs,          | 8     |
|        | Repairing Techniques. De-soldering techniques,   |       |
|        | replacement of Component /Solder Pad /Track      |       |
|        | repairing methods.                               |       |





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## Department of Electronics and Telecommunication Engineering

## Report

Duration: 11th Jan 2019 to 8th Apr 2019.

Venue: VIVA Institute Of Technology, Shirgaon.

Electronics & Telecommunication Engineering Department of VIVA Institute of Technology organized a 30 hours' certificate course on "PCB Design Workshop" during 11<sup>th</sup> Jan 2019 to 8<sup>th</sup> Apr 2019.

The expanding electronics and industrial sectors place high demands on an individual's skill set. It is alwa ys advisable to learn new things and have a certain skill set up to work in industry because of the competit ive market, industrial necessities, and declining demand for labor force. The workshop was basically aime d to provide basic knowledge to second year of semester 4– EXTC students of design, draught, and fabric ation of printed circuit boards which was conducted by **Mr. Kushal Suvarna sir** as the speaker who guid ed the participants.

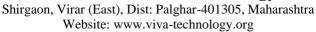
The event was a success with very positive feedback from the participants. The speech was an inspiring o ne that covered the broad future scopes of the field. The Principal being an encouraging one who said that for such events where in student development is involved, he will always be supportive. In the speech give n by **Mrs. Archana Ingle**, H.O.D of EXTC, students gained an idea of how this workshop can be utilized to take creative projects in this field.

**Mr. Kushal Suvarna** sir introduced themselves to the participants and enlightened them about the fantastic and intriguing field and narrated their various achievements and their future plans.





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## Department of Electronics and Telecommunication Engineering

## Course Objectives

- 1 Understand basics of PCB designing.
- 2 Apply advance techniques, skills and modern tools for designing and fabrication of PCBs.
- 3 Apply the knowledge and techniques to fabricate Multilayer, SMT and HDI PCB.
- 4 Understand concepts of Packaging.

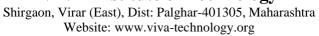
## **Course Outcomes:**

- 1. Students will be able to explore different aspect of Printed Circuit Board Design and fabrication.
- 2. Students will be able to learn various types of PCBs, Schematic Design, Entry Rules for Schematic Entry, Component Layout methods,
- 3. Students will be able to learn Placement Rules, Routing Techniques for Single Sided Board,
- 4. Students will be able to learn Post Processing of design and Fabrication documents.
- 5. After completing this course students can design and fabricate their own PCB for their Project and can also work in PCB Designing and Fabrication area.





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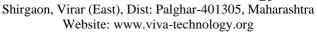
## **CO-PO MAPPING**

| Course  |         |         |         |         |         | ]       | Program | Outco:  | me      |          |          |                    |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|--------------------|
| Outcome | PO<br>1 | PO<br>2 | PO<br>3 | PO<br>4 | P0<br>5 | PO<br>6 | PO 7    | PO<br>8 | PO<br>9 | PO<br>10 | PO<br>11 | CO<br>Target level |
| CO1     | 2       | -       | -       | -       | -       | -       | -       | -       | -       | -        | -        | 2                  |
| CO2     | -       | 2       | -       | -       | -       | -       | -       | -       | -       | -        | -        | 2                  |
| CO3     | 2       | -       | -       | -       | -       | 2       | -       | -       | -       | -        | -        | 2                  |
| CO4     | 2       | -       | -       | -       | -       | -       | -       | -       | -       | -        | 1        | 2                  |
| CO5     | ı       | 2       | -       | -       | -       | -       | -       | -       | -       | -        | ı        | 2                  |
|         |         |         |         |         |         |         |         |         |         |          |          |                    |
|         | 2       | 2       | _       | -       | 2       | 2       | _       | -       | -       | -        | -        | 2                  |





### **VIVA Institute of Technology**





# Department of Electronics and Telecommunication Engineering Model Certificate



## Student Certificate:





### **VIVA Institute of Technology**



Shirgaon, Virar (East), Dist: Palghar-401305, Maharashtra Website: www.viva-technology.org

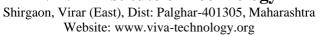
## Department of Electronics and Telecommunication Engineering

Attendance Sheet: 2018-19 FORE COVERED mak 29474



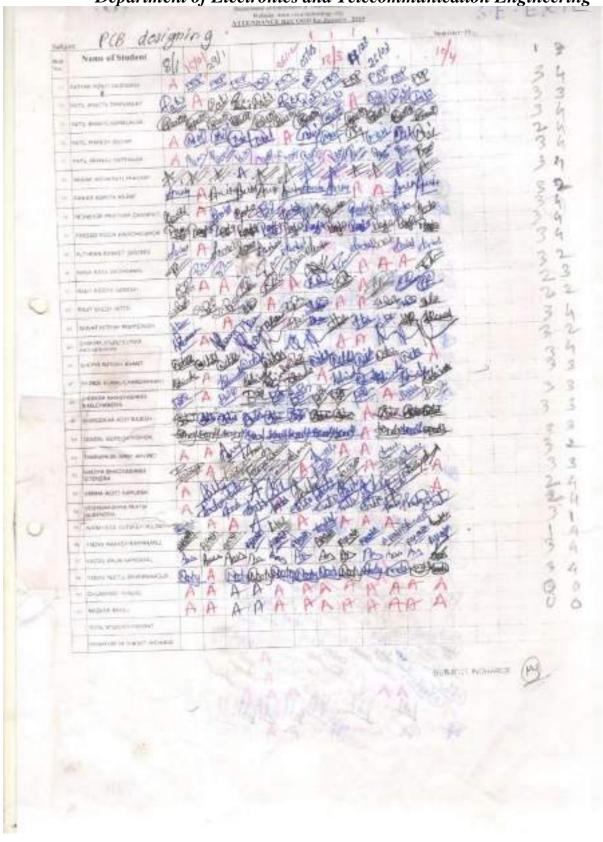


## **VIVA Institute of Technology**





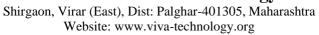
Department of Electronics and Telecommunication Engineering







## **VIVA Institute of Technology**





## Department of Electronics and Telecommunication Engineering

## Name of Course:

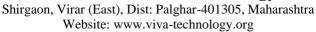
## Research Methodology Tools

Duration: 30 hours

| Date and Day                                 | Time          | Contents   |  |  |  |  |
|--|---------------|--|--|--|--|--|
|  | 8.30 to 9.30  | Breakfast, Registration and Inauguration                   |  |  |  |  |
|  | 9.30 - 11.30  | Introduction to Research                                   |  |  |  |  |
| 2 <sup>nd</sup> Jan 2019                     | 11.30 – 11.45 | Tea Break  |  |  |  |  |
| 2 3411 2019                                  | 11.45 - 12.45 | Online research tools                                      |  |  |  |  |
|  | 12.45-1.30    | Lunch Break  |  |  |  |  |
|  | 1.30 -4.30    | How to select Research Topic                               |  |  |  |  |
|  | 9.00-11.00    | Research Ethics  |  |  |  |  |
|  | 11.00-11.15   | Tea Break  |  |  |  |  |
| 3 <sup>rd</sup> Jan 2019                     | 11.15-12.45   | Scholarly Publications                                     |  |  |  |  |
|  | 12.45 – 1.30  | Lunch Break  |  |  |  |  |
|  | 1.30 - 4.00   | A journey from Research to publication                     |  |  |  |  |
|  | 9.00-11.00    | How to do Literature Review                                |  |  |  |  |
|  | 11.00-11.15   | Tea Break  |  |  |  |  |
| 4 <sup>th</sup> Jan 2019                     | 11.15-12.45   | How to maintain cordial relation between student and guide |  |  |  |  |
|  | 12.45 – 1.30  | Lunch Break  |  |  |  |  |
|  | 1.30 - 4.00   | Data Collection  |  |  |  |  |
|  | 9.00-11.00    | Basics of Embedded systems & recent trend                  |  |  |  |  |
|  | 11.00-11.15   | Tea Break  |  |  |  |  |
| 5 <sup>th</sup> Jan 2019                     | 11.15-12.45   | Technical Paper writing skills                             |  |  |  |  |
|  | 12.45 – 1.30  | Lunch Break  |  |  |  |  |
|  |               | Industry and Institute Interaction & Industry              |  |  |  |  |
|  | 1.30 – 4.00   | Collaborative research                                     |  |  |  |  |
|  | 9-12.45       | Optimization in research Methodology                       |  |  |  |  |
| 6 <sup>th</sup> Jan 2019                     | 12.45-1.30    | Tea Break  |  |  |  |  |
| Post: Virar,<br>Tal.: Vasal,<br>Nst. Polghar | 1.30 - 4.00   | Valedictory Session  |  |  |  |  |



### **VIVA Institute of Technology**





## Department of Electronics and Telecommunication Engineering

## Report

Duration: 2nd January to 7th January 2019.

Venue: VIVA Institute Of Technology, Shirgaon.

Electronics & Telecommunication Engineering Department of VIVA Institute of Technology organized a 30 hours' certificate course on "Research Methodology Tools" from 2nd January to 7th January 20 19 conducted by Mrs. Devshree Ugvekar.

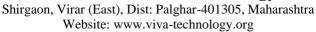
The objective of the "Research methodology" training program is to teach the techniques and technical paper writing and ethics in research. This STTP provides relation building of the institute with industry for collaboration. The purpose of this STTP is to bring together researchers & students from academia to have discussions on the recent methods in research techniques. This program also deals with the various ways to read and write the technical research papers which will help them to improve their paper writing skills. The STTP aims at equipping teachers with skills and knowledge in order to create a better society by guiding, training and motivating the students to take up research projects.

| Topics Covered in STTP on "Research methodology"  |
|---|
| ☐ Online research tools   |
| □ Optimization in research Methodology  |
| ☐ Industry and Institute Interaction & Industry Collaborative research                                  |
| ☐ Revenue generation through institute  |
| ☐ Technical Paper writing skills  |
| ☐ Research Data Analysis.   |
| As new developments are introducing in industry day by day demanding expertise in the field of Research |
| Methodology, it was felt necessary that the student also become competent in the said field.            |





### **VIVA Institute of Technology**





## Department of Electronics and Telecommunication Engineering

## Course Objectives

- 1. To learn the skills of technical paper writing.
- 2. To learn optimization in research methods.
- 3. To understand knowledge of collaborative research.
- 4. To learn the Multivariate Data Analysis techniques in research.

.

## **Course Outcomes:**

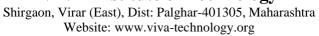
After successful completion of the course, the students are able to

- The participants will learn the skills of technical paper writing.
- ➤ Gain the knowledge of collaborative research.
- ➤ Learn different online strategies and methods using different software and tools.
- ➤ Learn optimization in research methods.
- Learn the Multivariate Data Analysis techniques in research.





## **VIVA Institute of Technology**





## Department of Electronics and Telecommunication Engineering

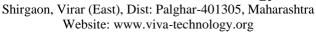
## CO-PO MAPPING

| Course  |         |         | Program Outcome |         |         |         |      |         |         |          |          |                    |
|---------|---------|---------|-----------------|---------|---------|---------|------|---------|---------|----------|----------|--------------------|
| Outcome | PO<br>1 | PO<br>2 | PO<br>3         | PO<br>4 | P0<br>5 | PO<br>6 | PO 7 | PO<br>8 | PO<br>9 | PO<br>10 | PO<br>11 | CO<br>Target level |
| CO1     | 2       | -       | -               | -       | -       | _       | -    | -       | -       | -        | _        | 2                  |
| CO2     | -       | 2       | -               | -       | -       | -       | -    | -       | -       | -        | -        | 2                  |
| CO3     | 2       | -       | -               | -       | -       | 2       | -    | -       | -       | -        | -        | 2                  |
| CO4     | 2       | ı       | -               | -       | -       | -       | -    | -       | -       | -        | -        | 2                  |
|         |         |         |                 |         |         |         |      |         |         |          |          |                    |
|         | 2       | 2       | _               | -       | 2       | 2       | -    | _       | -       | -        | -        |                    |





### **VIVA Institute of Technology**





# Department of Electronics and Telecommunication Engineering Model Certificate

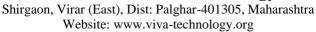


## Student Certificate





## **VIVA Institute of Technology**





## Department of Electronics and Telecommunication Engineering

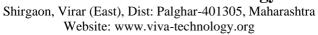
## **Attendance Sheet:**







## **VIVA Institute of Technology**





Department of Electronics and Telecommunication Engineering





## **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

## **DEPARTMENT OF MECHANICAL ENGINEERING**

Late Shree Vishnu Waman Thakur Charitable Trust's

## VIVA Institute of Technology

Shirgaon, Virar (E)

Department of Mechanical Engineering

VIVA/VIT/MECH/STUDENT/2018-19

## A MARKET CO.

Date: 22/06/2018

## NOTICE

All the shortlisted students of Mechanical Engineering are hereby informed to attend the Value Added Course organized by Department of Mechanical Engineering on the topic of "Advance Solid Works" from 25th June to 29th June 2018.

Timing:-

1st Session:- 9.00 am - 12. pm

2<sup>nd</sup> session:- 1.00 pm - 4.00 pm

Venue:- CAD CAM Lab

Prof. Tejas Chaudhari

Faculty Co-ordinator

Prof. Nivati Raut

HOD Mechanical



## **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

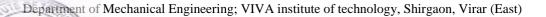
# DEPARTMENT OF MECHANICAL ENGINEERING Syllabus & Course Outcomes

Course Name: Advance Solid Works

Academic Term: July 2018 to Dec 2018

### Syllabus:

| Module | Details  | Hours |
|--------|--|-------|
|        | Sketching with SolidWorks: 2D Sketching, sketching entities and        |       |
|        | relations, 3D Sketching, Editing & its features, Dimensions, Sketch    |       |
|        | tool, Mirror, Convert entity, Move & Copy                              |       |
| 1      | Part Modeling: Extrude and Cut extrude, Revolve and Sweep, View        | 6     |
|        | toolbar, Creating Reference geometries, Fillet and Chamfer, Hole       |       |
|        | wizard, Calculating weight/mass & other geometric properties, Export   |       |
|        | / Import of CAD files.   |       |
|        | Advanced Part Modeling: Adding ribs and draft, Circular and            |       |
| 2      | rectangular pattern, Shell and Boss feature, Configuration and Design  | 6     |
| 2      | Tables, Material Library & Assigning Material, Library Features &      | U     |
|        | Smart Fasteners, Boolean operations.                                   |       |
|        | Assembly Mode: Getting started with Assembly, Inserting                |       |
|        | components in assembly, Top-Down Assembly, Feature Manager             |       |
|        | Design tree & Symbols, Hiding components & controlling                 |       |
| 3      | transparency, Sub-Assemblies, Using mates in assembly, Use of Smart    | 6     |
|        | Fasteners, Bottom -Up Assembly, Interference detection and             |       |
|        | misalignment of holes, Exploding assemblies and adding explode         |       |
|        | lines.   |       |
|        | Generating detail drawings from Model: Drafting overview,              |       |
|        | Drawing sheets and views, Adding drawing views, View settings and      |       |
| 4      | drawing properties, Smart Dimensioning, Annotations and Symbols,       | 6     |
|        | Sheet Formats and Templates, Ballooning for nomenclature, Adding       |       |
|        | Bill of Material and tables.   |       |
|        | Surface Modeling / Sheet Metal: Introduction to surfacing tools,       |       |
| 5      | Sweep, Loft, Revolve, Offset etc., Filleting and trimming, Utilization | 6     |
|        | of Sheet Metal & forming tools.  |       |
|        |  |       |



## **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

## **DEPARTMENT OF MECHANICAL ENGINEERING**

#### **Course Outcomes**

| Sr. No. | CO Code | Course Outcomes  |
|---------|---------|--|
| 1       | CO_1    | Visualize and prepare 2D & 3D modeling of a given object using solid works software. |
| 2       | CO_2    | Build solid model of a given object using solid works software.                      |
| 3       | CO_3    | Generate assembly models of given objects using assembly tools.                      |
| 4       | CO_4    | Perform product data exchange among CAD systems.                                     |
| 5       | CO_5    | Build solid model of a given object using surface modeling.                          |

### Late Since Vishna Vishna Warner Chernable Troofs

### VIVA Institute of Technology

At Shingson, Virar (East), Takka-Vasil, Palghar District – 401305, Maharashm. Department of Mechanical Engineering

## YALUE ADDED COURSE - ADVANCE SOLID WORKS

Academic Year : 3018-19

Course Duration: 25th June to 29th June 2018

Time; 9.00 am to 12.00 pm

| 3000    |                                  | 200   | Date       |            |            |            |           |  |  |
|---------|----------------------------------|-------|------------|------------|------------|------------|-----------|--|--|
| Sr. No. | Name of Students                 | Cinss | 25/06/2018 | 26/06/2018 | 27/06/2018 | 28/96/2018 | 25/06/201 |  |  |
| 1       | CHAUDHARI RUPESH BENIRAM         | SE    | 182        | OB.        | R          | R          | R         |  |  |
| 2       | DUBEY MANAS SANTOSH              | SE    | Many       | Mauri      | Man        | MALL       | w         |  |  |
| 1       | NIMBARE TUSHAR TUKARAM           | SE    | tusty      | Tuely      | tuely      | tusty      | tust      |  |  |
| 4       | PRAJAPATI KHUSHAL CHHITERMAL     | SE    | Kuda       | Buto       | Ede        | Derica     | Rush      |  |  |
| 5       | BIRWATKAR ANIKET ANANT AKSHATA   | TE    | Arita      | Avieka     | Avulea     | Anulea     | Ank       |  |  |
| 6       | JHA BALRAM CHANDRAKANT NAGINA    | TE    | Belin      | .83        | Baler      | Balu       | Ball      |  |  |
| 7       | GULHANE AMAN ASHOK MAMTA         | TE    | Aman       | Amon       | Amoun      | Amou       | Amo       |  |  |
| 8       | JANGLE SHUBHAM SUNIL SMITA       | TE    | Shuku      | Shyllen    | Shuber     | Shuhr      | Shul      |  |  |
| 9       | KADAM SIDDHIKA SUDHAKAR NISHITA  | TE    | 19=        | -Booms     | 8          | -6-        | 8-        |  |  |
| 10      | RAUT KEDAR MANOHAR MEENA         | TE    | Bratto     | Brath      | Evath      | Barto      | ATS       |  |  |
| - 11    | BHATT DARSH PRANAV PURVI         | 8E    | Dores      | Darres     | Thrus      | Downs      | Barre     |  |  |
| 12      | JOSHI KHUSHAL ANANT ANKITA       | BE    | Posts      | Postu      | Walin      | Rosli      | Bas       |  |  |
| 13      | KAWALE HEMANT SURESH VIJAYALAXMI | 3E    | ueine      | Hans       | Henry      | Herry      | Hany      |  |  |
| 14      | NIJAI PRACHI RAJENDRA MEENAKSHI  | BE    | Ment       | MAG        | MP         | Ne         | MORE      |  |  |
| 13      | SHALKAR DIPAK DHARMA RAJI        | 9.5   | Dieur      | Down       | apun       | DHPK       | Dypa      |  |  |
| 16      | PANDIT PRITI LAU SHWETA          | 9E    | St. Hi     | TRAT       | PH         | PiM.       | PAIN      |  |  |
| 17:     | VENGURLEKAR RITESH VIJAY VIJAYA  | BE    | Riter      | Rota       | ma         | Mina       | Am        |  |  |

Prof. Tejas Chauchari Faculty Co-ordinator (Mechanical Engineering Dept.)

Prof. Fiyati Rauc HOD (Mechanical Engineering Dept.)



#### Late Stree Vishna Vishna Warran Chamable Trus's

#### VIVA Institute of Technology

At. Shepton, Virus (East), Taluka-Vesar, Paligher District - 401 305, Mohamshira. Department of Mechanical Engineering

#### VALUE ADDED COURSE - ADVANCE SOLID WORKS

Academic Yase : 2018-19

Course Duration: 25th June to 29th June 2018

Time: 1.08 pm to 4.00 pm

| Sr. No. | N                               |       | Date       |            |            |            |             |  |  |
|---------|---------------------------------|-------|------------|------------|------------|------------|-------------|--|--|
| M. 180. | Name of Students                | Class | 25/06/2018 | 26/06/2018 | 17/06/2018 | 28/06/2018 | 29/06/201   |  |  |
| 1       | CHAUDHARI RUPESH BENIRAM        | SE    | Duna       | Rupa       | Russa      | Rupa       | RUD         |  |  |
| 2       | DUBEY MANAS SANTOSH             | SE    | Hous       | juds       | short      | Hols       | 14004       |  |  |
| 3       | NIMBARE TUSHAR TUKARAM          | SE    | 10000000   | teros.     | te-        | 100        | 00          |  |  |
| 4       | PRAJAPATI KHUSHAL CHHITERMAL    | SE    | Dabit      | AK         | Pomlar     | Provot     | Product     |  |  |
| 5       | BIRWATKAR ANIKET ANANT AKSHATA  | TE    | Men        | NA         | NOV        | NAS        | Nach        |  |  |
| 6       | JHA BALRAM CHANDRAKANT NAGINA   | TE    | SHAD       | HAB-       | HOB        | ESB        | HAD.        |  |  |
| 7       | GULHANE AMAN ASHOK MAMTA        | TE    | may .      | MUN!       | Mark       | 100m       | MAGIN       |  |  |
| 8       | JANGLE SHUBHAM SUNIL SMITA      | TE    | 250        | JAHA .     | JAHH"      | ars        | MAH         |  |  |
| 0       | KADAM SIDDHIKA SUDHAKAR NISHITA | TE    | Haden      | shada      | Shak       | Skod       | SKA         |  |  |
| 10      | RAUT KEDAR MANCHAR MEENA        | TE    | Prath      | Bhoth      | Quatt      | anath      | Quel        |  |  |
| 11      | SHATT DARSH PRANAV PURVI        | BE    | Blot       | 1340       | Bhat       | Bhat       | <b>BAad</b> |  |  |
| 12      | JOSHI KHUSHAL ANANT ANKITA      | BE    | Khukhi     | khushi     | Klush      | Khuk       | Khud        |  |  |
| 13      | KAWALE HEMANT SURESH VUAYALAXMI | BE    | Heran      | AR         | of form    | Store      | How         |  |  |
| 14      | NUAI PRACHI RAJENDRA MEENAKSHI  | BE    | Proche     | Quali      | Prachi     | Pondi      | Prach       |  |  |
| 15      | SHALKAR DIPAK DHARMA RAJI       | BE    | Quipyr.    | Dinun      | Divers     | Dian       | Dipu        |  |  |
| 16      | PANDIT PRITI LAU SHWETA         | BE    | Buti       | Biti       | Buti       | Omili      | BA          |  |  |
| 17      | VENGURLEKAR RITESH VIJAY VIJAYA | DE    | Reces      | Born       | Dec        | Que        | Ram         |  |  |

Prof. Tejas Clibudhari Faculty Co-ordinator (Machanical Engineering Dept.) Prof. Myati Raut H O D (Mechanical Engineering Dept.)





## VIVA Institute of Technology

Approved by AICTE New Delhi, DTE, Govt, of Maharashtra and Affiliated to University of Mumbai Shirgaon, Virar(E.), Dist: Palghar-401305, Maharashtra

## CERTIFICATE

This to certify that Dr. / Mr. / Ms. KADAM SIDDHIKA SUDHAKAR NISHITA

has attended a Short Term Training Program on "ADVANCE SOLID WORKS" during the
period 25th June - 29th June, 2018 at Department of Mechanical Engineering, VIVA Institute of
Technology, Shirgaon, Virar.

ØŽ

Mr. Tejas Chaudhari (CO-ORDINATOR) MAGUE

Mrs. Niyati Raut (HEAD OF THE DEPARTMENT) Gum

Dr. Arun Kumar (PRINCIPAL)



## **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

### **DEPARTMENT OF MECHANICAL ENGINEERING**

Late Shree Vishnu Waman Thakur Charitable Trust's

## VIVA Institute of Technology

Shirgaon, Virar (E)

Department of Mechanical Engineering

VIVA/VIT/MECH/STUDENT/2018-19

Date: 28/12/2018

## NOTICE

All the shortlisted students of Mechanical Engineering are hereby informed to attend the Value Added Course organized by Department of Mechanical Engineering on the topic of "ANSYS (Engineering Simulation)" from 1st January to 5th January 2019.

Timing:-

1st Session:- 9.00 am - 12. pm

2<sup>rd</sup> session:- 1.00 pm - 4.00 pm

Venue:- CAD CAM Lab

Prof. Tejas Chaudhari

Faculty Co-ordinator

Prof. Niyati Raut

HOD Mechanical



## **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

# DEPARTMENT OF MECHANICAL ENGINEERING Syllabus & Course Outcomes

Course Name: ANSYS (Engineering Simulation)

Academic Term: Jan 2019 to May 2019

### Syllabus:

| Module | Details   | Hours |
|--------|---|-------|
| 1      | <b>Solid Modeling:</b> An Overview of Solid Modeling Operations, Working with Boolean operations, Working Plane, Importing of 3D models.  | 4     |
| 2      | Meshing: Free meshing or Mapped meshing, Setting Element Attributes, Selecting Element Type, Shape Function, DefiningElement Types, Defining Section Properties, Assigning Element Attributes before meshing, Mesh Controls, The ANSYS Mesh Tool, Smart sizing, Meshing, Free Meshing, Mapped Meshing, Hybrid meshing, Mesh Extrusion, Volume Sweeping. | 8     |
| 3      | Boundary Conditions: Types of Loads, Applying loads.  Solvers: Types of Solvers, Solver Setup, Load Step Options, Solving Multiple Load Steps.  | 6     |
| 4      | <b>Tips &amp; Tricks:</b> Using the Toolbar & Creating Abbreviations, Introduction to APDL, Using Parameters, Using the Start File, Using the Session Editor, Using Input Files.  | 4     |
| 5      | ANSYS Workbench: Introduction to ANSYS Workbench, Graphical User Interface, Static Structural Analysis, Modal Analysis, Thermal Analysis, Contact Recognition.  | 8     |

## **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

## **DEPARTMENT OF MECHANICAL ENGINEERING**

#### **Course Outcomes**

| Sr. No. | CO Code | Course Outcomes  |
|---------|---------|--|
| 1       | CO_1    | Apply basic aspects of Analysis to solve engineering problems. |
| 2       | CO_2    | Select suitable meshing and perform convergence test.          |
| 3       | CO_3    | Apply basic aspects to solve engineering problems.             |
| 4       | CO_4    | Perform basics tricks and tips to solve engineering problems.  |
| 5       | CO_5    | Interpret the result.  |

#### Late Stree Vislam Violani Warnen Charlottle Trusts

VIVA Institute of Technology

At Shirgaon, Viror (East), Takka-Vasar, Pelgher Dannet – 401305, Maltarashina
Department of Mechanical Engineering

## VALUE ADDED COURSE - ANSYS (Engineering Simulation)

Academic Year: 2018-19

Course Dyration : 1st Jan to 5th Jan 2015

Time: 9.00 am to 12.00 pm

| 2028    | Name of Students                    | Class | Date       |            |            |            |            |  |
|---------|-------------------------------------|-------|------------|------------|------------|------------|------------|--|
| Sr. No. |                                     |       | 01/01/2019 | 02/01/2019 | 83/01/2019 | 04/01/2019 | 05/01/2015 |  |
| 1       | GHANEKAR NINAD SURESH               | šE    | Potos      | · Goldon   | Maldy      | +Glokes    | coke       |  |
| 2       | GUPTA AAKASH RATAN                  | SE    | Paret      | PHS        | paper.     | YEL        | AGUEL      |  |
| 3       | NIMBARE TUSHAR TUKARAM              | SE    | 100        | - tues     | 1460       | Atur       | Attain     |  |
| 4       | SAWANT YASH CHANDRASHEKHAR          | SE    | Knoch      | Lecont     | Kent       | Jourst     | Ken        |  |
| 5       | VARTAK ABHIDNYA MANOJKUMAR          | SE    | Vandak     | vardak     | Variab     | Vastas     | m          |  |
| 6       | BHAMARE MAYURI ROHIDAS SHAILAJA     | TE    | my.        | 1          | 1          | my         | مسار       |  |
| 7       | JHA BALRAM CHANDRAKANT NAGINA       | TE    | HAB        | SF103      | 1145       | - 043      | 1+10+      |  |
| 8       | KHAN SHAHNAWAZ IDRIS SHAMIMUNNISHA  | 1.E   | our        | que        | 1000       | 5-         | Sm         |  |
| 9       | PATEL PANKAJ SURENDRA SANGEETA      | TE    | phalet     | Protei     | P.Patel    | p.Patel    | P. Pate    |  |
| 10      | GHARAT GIRISH NARESH NAMRATA        | BE    | ( hand:    | chint.     | J-MA       | 10-10-     | ame        |  |
| - 11    | CHARAT SANIL SACHIN SANGEETA        | 86    | gent       | apolo      | Mart       | Church     | These      |  |
| 12      | KHAN ABDUL KARIM                    | BE    | Akten      | Akhan      | Atten      | Akhar      | Akho       |  |
| 13      | NANGLE DIPESH MARUTI MAMTA          | BE    | Digen      | Dipost     | Dorch      | RIPOH      | Dipost     |  |
| 14      | WAYANGANKAR GANESH YILAS VINITA     | BE    | Gere       | Vage       | ace        | 100        | PM         |  |
| 15      | YADAY ABHISHEK RAJNARAYAN DURGAVATI | BE    | Pris       | Aleba      | Hypolu     | Hyach      | 4PCYCOO    |  |

Prof. Tejas Chaudhari Facsiny Co-ordinator (Medianical Engineering Dept.)

(Mechanical Engineering Dept.)



#### Late Store Victory Videou Warren Chandelle Front's

#### VIVA Institute of Technology

## At Shingson, Vita: (Cast), Takka-Vinat, Palghar District - 401305, Mikarishma

### Department of Mechanical Engineering

## VALUE ADDED COURSE - ANSYS (Engineering Simulation) Academic Year (2018-19)

Course Duration : 1st Jan to 5th Jun 2019

Time: 1.00 pm to 4.00 pm

|         | Name of Students                    | Class | Date       |            |             |            |           |  |
|---------|-------------------------------------|-------|------------|------------|-------------|------------|-----------|--|
| Sr. No. |                                     |       | 01/01/2019 | 02/01/2019 | 03/01/2019  | 04/01/2019 | 05/11/201 |  |
| -       | GHANEKAR NINAD SURESH               | SE    | Nonba      | - Glause   | NG total    | Notak      | - Att     |  |
| 2       | GUPTA AAKASH RATAN                  | SE    | ng ale     | PR.        | vera.       | Wayet.     | Ans       |  |
| 1       | NIMBARE TUSHAR TUKARAM              | SE    | Musher     | na ab      | - Dodewie   | Marie      | NAME      |  |
| A.      | SAWANT YASH CHANDRASHEKHAR          | 56    | Mars       | tract      | Yearyt.     | Lay.       | Kaun      |  |
| •       | VARTAK ABBIDNYA MANOJKUMAR          | 56    | Charles    | ALL        | The same of | ALLE       | 1,7       |  |
| 6       | BHAMARE MAYURI ROHDAS SHAILAJA      | TE    | Jan A      | mose       | my.         | O. hand    | 22        |  |
| 7       | JIIA BALRAM CHANDRAKANT NAGINA      | Ti.   | Talas      | Bur        | Char        | De         | as        |  |
|         | KHAN SHAHNAWAZ IDRIS SHAMIMUNNISHA  | Th    | (lote      | OF         | am          | Denter     | CON       |  |
| 9       | PATEL PANKAJ SURENDRA SANGEETA      | TE    | RPMCI      | ppatel     | Cita        | 6.88       | (auga     |  |
| 10      | CHARAT GIRISH NAKESH NAMBATA        | DE    | 686        | 1          | 71-1        | Trah       | Cloud     |  |
| - 11    | GHARAT SANIL SACIUN SANGEETA        | DE    | now        | Characte   | nich        | Han        | Mino      |  |
| 12      | KHAN ABDUL KARIM                    | 86    | Prince     | nav.       | Direch      | DIONA      | Digas     |  |
| 13      | NANGLE DIPESH MAKUTI MAMTA          | BE    | Diposh     | DIPOR      | 200         | Gue        | 20        |  |
| 14      | WAYANGANKAR GANESH VILAS VINITA     | BE    | Market     | polive     | Allew       | ABOU       | Alda      |  |
| 15      | TADAY ABRISHEK RAINARAYAN DURGAYATI | - 100 | 1. 1.      |            |             | ADDAMS -   | 2.5       |  |

Prof. Tejas Glaudhari Facally Co-ordinator (Medianical Engineering Dapi ) Prof. Nigeri Raut

(Medianical Engineering Dept.)





## VIVA Institute of Technology

Approved by AICTE New Delhi, DTE, Govt. of Maharashtra and Affiliated to University of Mumbai Shirgaon, Virar(E.), Dist: Palghar-401305, Maharashtra

## CERTIFICATE

This to certify that Dr. / Mr. / Ms. NIMBARE TUSHAR TUKARAM

has attended a Short Term Training Program on "ANSYS (Engineering Simulation)" during the period 1<sup>st</sup> Jan - 5<sup>th</sup> Jan, 2019 at Department of Mechanical Engineering, VIVA Institute of Technology, Shirgaon, Virar.

Dist

Mr. Tejas Chaudhari (CO-ORDINATOR) MAGALE

Mrs. Niyati Raut (HEAD OF THE DEPARTMENT) Otima

Dr. Arun Kumar (PRINCIPAL)



## **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

Late Shree Vishna Waman Thakur Charitable Trust's

## VIVA Institute of Technology

Shirgaon, Virar (E)

Department of Mechanical Engineering

VIVA/VIT/MECH/STUDENT/2018-19

Date: 28/12/2018

## NOTICE

All the shortlisted students of B.E. Mechanical Engineering are hereby informed to attend the Value Added Course organized by Department of Mechanical Engineering on the topic of "Introduction to Radiography Non Destructive Testing (RT) Method" from 01<sup>st</sup> January to 05<sup>th</sup> January 2019.

Timing:-

1st Session:- 9.00 am - 12.00 pm

2<sup>nd</sup> session:- 1.00 pm - 4.00 pm

Venue:- CAD CAM Lab

Prof. Tejas-Chaudhari

Faculty Co-ordinator

Prof. Niyati Raut

HOD Mechanical

## **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

## **DEPARTMENT OF MECHANICAL ENGINEERING**

## **Syllabus & Course Outcomes**

Course Name: Introduction to Radiography Non Destructive Testing (RT) Method

Academic Year: 2018-19

#### **Syllabus:**

| MODULE | DETAILS   | HOURS |
|--------|---|-------|
|        | Module 1: Basic Principles of Non-Destructive Testing   |       |
|        | Definition and importance of NDT                        |       |
|        | Types of NDT methods                                    |       |
|        | Visual testing (VT)                                     |       |
| 1      | Liquid penetrant testing (PT)                           | 5     |
| 1      | Magnetic particle testing (MT)                          | 3     |
|        | Eddy current testing (ET)                               |       |
|        | Radiographic testing method (RT)                        |       |
|        | Ultrasonic testing (UT)                                 |       |
|        | Comparison of different NDT methods                     |       |
|        | Module 2: Film Exposure                                 |       |
|        | Making a Radiograph                                     |       |
|        | Factors Governing Exposure                              |       |
|        | Geometric Principles Relations of Mill amperage (Source |       |
|        | Strength), Distance and Time                            |       |
| 2      | The Reciprocity Law                                     | 7     |
|        | Exposure Factor   |       |
|        | Determination of Exposure Factors                       |       |
|        | Contrast  |       |
|        | Choice of Film  |       |
|        | Radiographic Sensitivity                                |       |
|        | Module 3: Absorption and Scattering                     |       |
| ,      | Radiation Absorption in the Specimen                    | (     |
| 3      | Scattered Radiation                                     | 6     |
|        | Reduction of Scatter                                    |       |

## **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

## **DEPARTMENT OF MECHANICAL ENGINEERING**

|   | Mottling Caused by X-ray Diffraction          |   |
|---|---|---|
|   | Scattering in High Voltage Megavolt           |   |
|   | Module 4: Radiographic Screens                |   |
| 4 | Functions of Screens                          | 4 |
| 4 | Lead Foil Screens                             | 4 |
|   | Fluorescent Screens                           |   |
|   | Module 5: Industrial Radiographic Films       |   |
|   | Selection of Films for Industrial Radiography |   |
|   | Photographic Density                          |   |
| 5 | Densitometers                                 | 8 |
|   | X-Ray Exposure Charts                         |   |
|   | Gamma Ray Exposure Charts                     |   |
|   | The Characteristic Curve                      |   |

## **Course Outcomes:**

| SR.<br>NO. | CO CODE | COURSE OUTCOMES  |
|------------|---------|--|
| 1          | CO_1    | Apply basic aspects of Inspection to solve engineering problems. |
| 2          | CO_2    | Understand the concept of Film Exposure.                         |
| 3          | CO_3    | Understand the concept of Absorption and Scattering.             |
| 4          | CO_4    | Select appropriate Radiographic Screens.                         |
| 5          | CO_5    | Select suitable Industrial Radiographic Films.                   |

### Late Shree Visites Vistes Warras Charitable Treat's

#### VIVA Institute of Technology

At. Shirgson, Vine (lest), Teluka-Vessi, Palglor District - 401105, Maharashera

## Department of Mechanical Engineering

## VALUE ADDED COURSE - Introduction to Radiography Non Destructive Testing (RT) Method

Academic Year : 2018-19

Course Duration : 1st Jan to 5th Jan 2019

Time: 9.00 am to 12.00 pm

| Sr. No. | Name of Students                     | Class | Date       |            |            |            |            |  |
|---------|--------------------------------------|-------|------------|------------|------------|------------|------------|--|
| St. No. |                                      |       | 01/01/2019 | 02/01/2019 | 03/01/2019 | 04/01/2019 | 05/01/2019 |  |
| 1       | BHOR NIRAJ PRADIP MADHURI            | BE    | Bloom      | TO SE      | Homo.      | BLesv.     | B-R        |  |
| 2       | DHOSALE PRATIK NANDKUMAR CHEAYA      | BE    | P.Bluste   | DBhow      | Popul      | PBh        | PR         |  |
| 3.      | CHIPKAR VINAY SURESH SHUBHANGI       | BE    | AB         | Dinter     | Taphy      | Dire       | April      |  |
| 4       | DADAS RAHUL RAMCHANDRA SHEELA        | BE    | D. Par     | D. Rotel   | DRONG      | D. Ford    | D.Rol      |  |
| 5       | GADA DIPAM BIPIN REKHA               | BE    | Bipun      | -Aipon     | Gipin      | Dipom      | (Dipor     |  |
| 6       | GHADI SHUBHAM DEEPAK PRIYA           | BE    | 203        | \$         | <b>Q</b>   | 28         | 3          |  |
| 7       | JADHAV TEJAS ROHIDAS ROHINI          | BE    | Figs       | Feas       | AB         | Ferra      | Fersy.     |  |
| 8       | JADHAV VINIT SADANAND DHANU          | BE    | Mind also  | Vinit      | white      | ~ Joshed   | year.      |  |
| 9       | JAISWAL SHAILESH RAM PRAVESH BINDU   | BE.   | 35         | .0.5       | 5.1.       | 8-5        | 5-5        |  |
| 10      | NADAM GANESH BALASAHEB SEEMA         | 86    | KD         | U.D        | K.D        | K.D        | K.D        |  |
| 11      | KAKAD RISHIKESH SHIVAJI SUNANDA      | BE    | Aprile     | D. Kuto    | 2. L. 10   | R. koto    | Delups     |  |
| 12      | MENGU ABHISHEK BHEEMRAJU             | BE    | AB         | AMOUNT     | A. man     | ArMoya     | A men      |  |
| 13      | MHATRE AMOGH ARVIND ANAGHA           | BE    | Armah      | Donath     | 0 1        | 0.         | Ames       |  |
| 14      | MHATRE DURGESH DAY AN AND ALKA       | BE    | Dimbor     | D forty    | D. Why     | Donne      | ni         |  |
| 15      | MHATRE RUGVED DIVVANATH ANJALI       | 86    | RIETO .    | AB         | PASIN      | RASTE      | K-9611     |  |
| 10      | MHATRE YASH NITIN NITUA              | BE    | Hompibe    | AB         | y.plato    | Viprodute  | Ymhon      |  |
| 17      | KAMBLE AMIT ANANT                    | BE    | Horok      | North      | Alambk     | ALL        | Mak        |  |
| 18      | PAWAR OMKAR BABAN SANGEETA           | BE    | Omto       | Onto       | Jones      | Orner.     | Ornhan     |  |
| 19      | PHUTANE CHAANDAN NARESH VAISHALI     | BE    | Burn       | Que        | Pour       | Cola       | 000        |  |
| 29      | POL PRADUNYA HANUMANT ANITA          | BE    | AB         | ह्येन      | 5121       | 201        | Dal        |  |
| 21      | SANKHE VINAY KAMALAKAR KAMINI        | BE    | Doph       | Frinte     | Morre      | AB         | How        |  |
| 22      | SANKHE VINEET KAMALAKAR KAMINI       | BE    | d'Shulere  | Charles    | Runday     | CP July    | Vende      |  |
| 23      | SINGH SAURAV VISHNU URMILA           | BE .  | SAUTA      | 5. Saum    | -          | Course     | 1          |  |
| 24      | SINGH SONU PRAMOD RENU               | BE    | Down.      | Same       | Saura.     | Sisanon    | Seam       |  |
| 25      | VALA DHARMIT PRASHANT SONAL          | BE    | water      | 201        | MB         | 2          | AB         |  |
| 26      | VARTAK BHAVIN KEVAL GEETA            | BE    | There's    | VBhon      | -1         | Alluny (   | MBhu       |  |
| 27      | VHATKAR SNEHAL RAMAKANT CHHAYA       | BE    | VS         | 1.2        | 123 min    | 130        | Appear     |  |
| 28      | VISHWAKARMA VIPIN RAMBHARAT GYANDEVI | BE    | AB         | Vipin      | VIPIZ      | NA         | NO         |  |
| 29      | YADAV NAVNEET KAMLESH BHANMATI       | BE    | orunit.    | Nove       | March      | Vipin      | Nibi       |  |
| 30      | YADAV VUAY DAYASHANKAR GULABIDEVI    | BE    | WJO        | Vietay     | AB         | Vijay      | Norm       |  |

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Prof. Tajas Chaudhari Facalty Co-ardinator (Mechanical Engineering Dept.) Prof. Wyati Raut

(Mechanical Engineering Dept.)

### VIVA Institute of Technology

At. Shirgnor, Viter (East), Talaka-Vassi, Palgher District - 401305, Mahareshtra.

#### Department of Mechanical Engineering

### VALUE ADDED COURSE - Introduction to Radiography Non Destructive Testing (RT) Method

Academic Year : 2018-19

Course Duration : 1st Jan to 5th Jan 2019

Time: 1.00 pm to 4.00 pm

| 0       | Name of Students                     | Class | Date       |            |                |            |           |  |
|---------|--------------------------------------|-------|------------|------------|----------------|------------|-----------|--|
| Sr. No. |                                      |       | 01/01/2019 | 02/01/2019 | 03/01/2019     | 04/01/2019 | 05/01/201 |  |
| 1       | BHOIR NIRAJ PRADIP MADHURI           | BE    | Blum       | BIT        | MA             | AB         | Bio       |  |
| 2       | BHOSALE PRATIK NANDKUMAR CHHAYA      | BE    | PBher      | PBhoro     | PBlog          | PRhy       | PBluse    |  |
| 3       | CHIPKAR VINAY SURESH SHUBHANGI       | DE    | AB (       | Viligher   | Diphon         | Lida       | Chiple    |  |
| 4       | DADAS RAHUL RAMCHANDRA SHEELA        | BE    | D. Poly    | D. Pohul   | DPotal         | D. Poh     | Direct    |  |
| 5       | GADA DIPAM BIPIN REKHA               | BE    | Dipen      | Dipont     | Chipm          | Gipum      | AB        |  |
| 6       | GHADI SHUBHAM DEEPAK PRIYA           | BE    | 0          | ·S         | B              | B          | B         |  |
| 7       | JADHAV TEJAS ROHIDAS ROHINI          | BE    | Ferra      | Jestes     | AB             | Tess       | Jesa      |  |
| 8       | JADHAV VINIT SADANAND DHANU          | BE    | renit      | with       | Minst<br>Tehar | Junet .    | 400       |  |
| 9       | JAISWAL SHAILESH RAM PRAYESH BINDU   | DE    | 5-7        | 5-5        | 85             | AB         | 5-5       |  |
| 10      | KADAN GANESH BALASAHEB SEEMA         | BE    | K.D        | · KD       | K.D            | kD         | K.D       |  |
| 11      | KAKAD RISHIKESH SHIVAJI SUNANDA      | BE.   | P. Kopen   | P kolon    | Proton         | Pokodow    | P-Forter  |  |
| 12      | MENGU ABHISHEK BHEEMRAJU             | BE    | AB         | A.Morou    | A-monte        | A. mong    | A.prew    |  |
| 13      | MHATRE AMOGH ARVIND ANAGHA           | 36    | Amosh      | Amos       | Amost          | Donash     | Amay      |  |
| 14      | MHATRE DURGESH DAYANAND ALKA         | BE    | D. Madre   |            | Donetre        | D-mh       | Directo   |  |
| 15      | MHATRE RUGVED DIVVANATH ANJALI       | 96    | P. PETH    | AB         | P. METH .      | PJETA.     | P. KETH   |  |
| 16      | MHATRE YASH NITIN NITUA              | BE    | y.mhoto    | AB         | X-mhoto        | Y. mheta   | y.mlet    |  |
| 17      | KAMBLE AMIT ANANT                    | 96    | Norble     | Homble     | Komb           | Homble     | Hombk     |  |
| 18      | PAWAR OMKAR BABAN SANGEETA           | BE    | Queken     | Souther    | Contra         | Contro     | mkon      |  |
| 19      | PHUTANE CHAANDAN NARESH VAISHALI     | BE    | Pont       | Roula      | Dula           | Dorder     | Bonds     |  |
| 20      | POL PRADUNYA HANUMANT ANITA          | BE    | AB         | POL        | Pol            | Pol        | Pol       |  |
| 21      | SANKHE VINAY KAMALAKAR KAMINI        | BE    | Double     | Soule      | Control        | - AB       | Toute     |  |
| 22      | SANKHE VINEET KAMALAKAR KAMINI       | BE    | Donate     | Tamely     | Church         | Contre     | Renke     |  |
| 23      | SINGH SAURAV VISHNU URMILA           | BE    | S. Sound   | S: Sour    | S. Perun       | J. P. Som  | Saura     |  |
| 24      | SINGH SONU PRAMOD RENU               | BE    | Some       | Some       | Come           | Soma       | AB        |  |
| 25      | VALA DHARMIT PRASHANT SONAL          | BE    | Dhum       | Albam)     | AB -           | Dhord.     | April m   |  |
| 26      | VARTAK BHAVIN KEVAL GEETA            | BE (  | Blain      | John .     | Bours          | To house   | There     |  |
| 27      | VHATKAR SNEHAL RAMAKANT CHHAYA       | BE    | 14         | 2.5        | 25             | 43         | V.S       |  |
| 28      | VISHWAKARMA VIPIN RAMBHARAT GYANDEVI | BE    | AB         | vipin      | vipin          | WIPIN      | vipin     |  |
| 29      | YADAV NAVNEET KAMLESH BHANMATI       | BE    | Nounit     | Hount      | down           | House      | Hamely    |  |
| 30      | YADAY YUAY DAYASHANKAR GULABIDEYI    | 96    | JM         | HOTH       | AB             | MJoy       | Vij.      |  |

At: Shirgaon Post: Virar, Tal.: Vasai, Dist. Palghar

Prof Tojas Chaudhiri

Prot Night Raut



## VIVA Institute of Technology

Approved by AICTE New Delhi, DTE, Govt. of Maharashtra and Affiliated to University of Mumbai Shirgaon, Virar(E.), Dist: Palghar-401305, Maharashtra

## CERTIFICATE

This to certify that Dr. / Mr. / Ms. VARTAK BHAVIN KEVAL GEETA

has attended a Short Term Training Program on "Introduction to Radiography Non Destructive

Testing (RT) Method" during the period 01st Jan to 05th Jan, 2019 at Department of Mechanical Engineering, VIVA Institute of Technology, Shirgaon, Virar.

(Haudhorn

Mr. Tejas Chaudhari (CO-ORDINATOR) Mrs. Nivati Ra

Mrs. Nivati Raut
(HEAD OF THE DEPARTMENT)

Dr. Arun Kumar (PRINCIPAL)



# **VALUE ADDED COURSE**

| Name of Course:              | Printed Circuit Board<br>(PCB) Designing | Branch:             | Electrical Engineering |
|------------------------------|--|---------------------|------------------------|
| Duration:                    | 30 Hours                                 | Instructors:        | Bhavita Patil          |
| <b>Date of Commencement:</b> | 06 July 2018                             | Date of conclusion: | 26 Oct 2018            |

|          | Course Outcomes  |
|----------|--|
| Upon suc | ccessful completion of the course, the student must be able to                         |
| CO1      | To understand the requirements of designing a PCB using software.                      |
| CO2      | To understand various components required for PCB design and their electrical ratings. |
| CO3      | To use development tools for PCB designing   |
| CO4      | To understand design standards and flow charts   |

|          | Syllabus   |       |
|----------|--|-------|
| Unit No. | Contents   | Hours |
| 1        | Introduction to PCB designing concepts: Introduction & Brief History: What is PCB, Difference between PWB and PCB, Types of PCBs: Single Sided (Single Layer), Multi-Layer (Double Layer), PCB Materials. Prototyping, eCAD and PCBs, Purpose and Intent, Equipment Computer Circuit Programming and Testing Hardware, PCB Component Hardware, Software, MPLAB X IDE and XC8 Compiler, Understanding the Walkthrough   | 6     |
| 2        | Component introduction and their categories: Types of Components: Active Components, Passive Components Component Package Types: Axial lead, Radial Lead, Single Inline Package(SIP), Dual Inline Package(DIP), Transistor Outline(TO), Pin Grid Array(PGA), MetalElectrode Face(MELF), Leadless Chip Carrier (LCC), Small Outline Integrated Circuit(SOIC), Quad Flat Pack(QPF) and Thin QFP (TQFP), Ball Grid Array (BGA), Plastic Leaded Chip Carrier(PLCC) | 6     |
| 3        | Introduction to Development Tools: Introduction to PCB Design using OrCAD tool, Introduction to PCB Design using PROTEUS tool  | 6     |
| 4        | Detailed description and practical of PCB designing  | 6     |

| PCB Designing Flow Chart, Description of PCB Layers, Keywords & Their Description, PCB Materials, Rules for Track, Study of IPC Standards  |   |
|--|---|
| Lab practice and designing concepts:  Starting the PCB designing, Auto routing, PCB Designing Practice, Post Designing& PCB Fabrication Process, Testing and Troubleshooting Methods | 6 |

|      | Learning Resources  |
|------|---|
| Tex  | t Books:  |
|      | 1. Kraig Mitzner, "Complete PCB Design Using OrCad Capture and Layout", 2011  |
| Refe | erence Books:   |
|      | <ol> <li>"PCB Design for Real-World EMI Control (The Springer International Series in Engineering and Computer Science)" by James Drewniak and Bruce R Archambeault.</li> <li>"PCB Design: Printed Circuit Board" by Michael Dsouza and Dsouza Michael</li> </ol> |



SUBJECT: Printed CB design Subject incharge: Bhavita Patil S.E. ELECTRICAL (2018-2019) 6/Ans 6/Ans 13 Ans 3 Ans Prans Pans 82/Ans 3/8/18 No. Yins BAGWE NINAD PRASAD BHOIR NAITH GAVESH 1 4 BUKALE CHIRAJ RAJU 5 CHAVAN RUTUJA AJAY DANDEKAR CHINHAY DARADE POCIA PRAKASH CEVIT KITWISHU STEARA GACHKAR ONKAR VIJAY 9 GWAR Crupt Cupt Crupt 11 GUPTA RAJENDRA BASHISHT GUPTA REEMA SHIVKUMAR SKIM GONGOV GONGOR GONGO JAGRUTI SURESH GAIKAR IOSHI ADWALT NEH XALT KAMERKAR VRUSHABH MAHESH \$48 DSMIDSMILMSD SMIDSMID SMID KOTTYAN DHIRAJ JAGOESH 16 MARDOLKAR SACHIN DUNKAR HHATSE VIRAL BRAVING HISHRA AHIT RATTIPEASATI PACHAREKAR ASHSSHKUMAR ASHOK PATIL ANIBUDCHA VISHWANATH PATIL ASHUTOSH SANDEEP 23 PATIL PRATHAMESH KANTI Sv Roisirkai Sukai Suli Simi Sukai Sukai Sukai Susai 24 RAI SHUBHAM UTTAM RANE METRA PRAKASH SAKPAL TEXAS RANCHARDRA SALUNKHE RIYA BHARAT SAMANT AADITYA GIRISH 28 PRSON PRIOR PESON PRIOR PESON PESON PESON PESON SASE PARAS RAJESH SAWANT BHAVANA JAYPRAKASH SAWANT SANKET DATTATRAYA 33 SINGH ADARSHKUMAR ARUN क्ष किंग मित्र विका मित्र विका SINGH PRABJEET JASBUR SINGH PRIYA SHUBHNARAYAN 35 SCIANKI VIGHNESH DILIP SOLIM HITESH RAMCHANDRA UPADHYAY VINAY UMESH 38 VER YER VER VER YER YER VER VER VISHWAKARMA BRIJESH RAMESH ATMV ATHISH TAYPRAKASH YADAY PANKA) SURESHCHANDRA YACAY TAWAN SACISSIA ED KOLDKAR KUSHAL VILAS

At: Shireson

Dist. Palghar,

| H  | attraction and and the      | III III    | 100   | 1000        | diam'r. | 15 51  | 10 - 1  | - N -   | 110    | -      | 17         |
|----|-----------------------------|------------|-------|-------------|---------|--------|---------|---------|--------|--------|------------|
| 45 | DEHIREKAR YASH NARESH       |            |       | 1           | 1       |        |         |         | -      |        |            |
| 46 | AGRE SHUBRAM SHANKAR        |            |       |             | 1       |        |         |         |        |        |            |
| 47 | ASALE NAVIN TULAJI          |            |       |             |         |        |         |         |        |        |            |
| 48 | AVERE SAKYESH VINOD         |            |       |             | 1       |        |         |         |        |        | 100        |
| 49 | RALUGADE PAWAN ADINATIE     | Roll       | 4 4   | Rain        | Balger  | Kalons | L Balgy | Rolp    | Balge  | + 1    |            |
| 50 | DETRAWALLA DEVANGEE SURESH  | Cont       |       | The same    | 1       |        | 0       | 1       | 1      |        |            |
| 51 | BORQUEMITALI YADAY          |            |       |             |         |        |         |         |        |        |            |
| 52 | CHAUBEY KRISHNA BALGOVIND   |            |       | 116         | 77      |        |         |         |        |        |            |
| 53 | CHAURASIA SHEVAM RANIBET    |            |       |             |         |        |         |         |        | П      |            |
| 54 | CHAVAN DEEPALI RAJU         |            |       |             |         |        |         |         |        | П      | - 2        |
| 55 | CHAVAN MAYUR VIJAY          | - 1        |       |             |         |        | la mi   |         | diam's | П      |            |
| 56 | DAVANE ISHANI RAJESH        | Testa      | A     | Tel         | Jala    | Ten    | Tell    | Testo   | Ish    |        |            |
| 57 | DITANGADA AVENASH GOVEND    | 2014       |       | - ara       |         | -      | 1       |         | 1      |        |            |
| 58 | DHOKTE VIPUL SANDEEP        |            |       |             |         |        |         |         |        |        |            |
| 59 | GAVLI ANIKET SUILENE        | - 7        | -     | 100         | 4       |        |         |         |        |        | 7          |
| 60 | GILBILE LAXMI YUAY          | Caxim      | 4     | Laxini      | Laxin   | Lasmi  | Lochel  | Journ   | Lasem  |        | 7          |
| 61 | GUPTA PRIYA ATUL            |            |       | -           |         |        |         |         | -      |        | 7          |
| 62 | HADAL EIPALI GANPAT         |            |       |             |         |        |         |         |        |        | 7          |
| 63 | CADAM AISHWARYA MANGESIE    |            |       |             |         |        |         |         |        |        | $\forall$  |
| 64 | KHADE PRASHANT PURUSPOTTAM  | Utin       | A     | <b>URIH</b> | Uzin    | Unit   | Usin    | URAM    | Spira  |        | 7          |
| 65 | KIRANGE VABHAY PILANOD      |            |       | 1           | 1       | '      |         | ,       |        | $\neg$ | 1          |
| 66 | MACHHI PAVAN PRAVIN         |            |       |             |         |        |         |         |        |        | $\top$     |
| 67 | MANISH PUNDLIK WANKHEDE     |            |       |             |         |        | 9       |         |        | $\top$ | $\dagger$  |
| 68 | MISHRA SANDEEP INDRAMANI    |            |       | - 1         | 35      |        |         |         |        |        | T          |
| 69 | MONDKAR SACHIN SHIVRAM      |            |       |             |         |        |         |         |        |        | $\uparrow$ |
| 76 | PATO, FRANCO RAMESH         |            |       |             |         |        |         |         |        |        | T          |
| 71 | FATTL SHUBHAM JAGANNATH     |            |       |             |         |        |         |         | 200    |        | 1          |
| 72 | FEDNEKAR ONKAR ANANDA       | DPA.       | OPA   | A           | A       | OPA-   | OVA     | OFF     | OFF    |        | †          |
| 13 | RATHOD KARTIK MANILAL       | 1          | 1     |             |         | 1      | 1       | 7       | ,      |        | 1          |
| 14 | SIATHOD PRASHEEL RAJESH     |            |       |             |         |        |         |         |        |        | 1          |
| 75 | SAMKUDIORI SUNIL KANADE     |            |       |             |         |        |         |         |        |        | T          |
| 76 | SHASI POOJA MUKESH          |            |       | 200         | -       |        |         |         |        |        | T          |
| 17 | SHAIKH MOHAMMED ANAS AKHTAR | III Umana  |       |             |         |        | 1000    | ( -se 1 |        |        | 1          |
| 78 | SHINDE SURAL JANARDAN       | SISh       | 1     | Sish        | . A     | Sigh   | 1       | Sish    | Slan   |        |            |
| 79 | TAMORE HIMANSHU KIRAN       | 25-37-35-1 | - 1.0 | ,           |         | CATTO  |         | 0       |        |        | T          |
| 50 | VICHARE PRANT SURAS         | 1          | 1     |             | A       | 1      |         | \       | V .    |        | T          |
| u  | SHAIRH MOHAMMED YAKUB       | 9/31/      | 2/18  | A           | QUID    | श्रीय  | A       | 7/2/    | 2120   |        | 1          |
| 2  | SAYYED NEHAL IMAM           |            | 1     |             | - 1     | ,      |         | ,       |        |        | †          |
| ij |                             |            | )     |             | 1       |        |         |         |        |        | +          |
| 4  |                             | V          |       |             |         |        |         |         |        | $\neg$ | +          |

BOUN /.
SUBJECT INCHARGE



VIVA Institute of Technology, Virar

|     | UBJECT: PCB Jeso-<br>UBJECT INCHARGE:  |                   | 8 10/5/1             | . 14.4.            | 19.6.                  | . hi a             | e hs An         | · 1459      | 18 14/1/18                              | P        | C             |
|-----|--|-------------------|----------------------|--------------------|------------------------|--------------------|-----------------|-------------|---|----------|---------------|
| H.  |  | 10/8/1            | 8 19/5/1             | 8 777/1            | 8 -179/1               | 8 14/19/1          | 8 1-17 171      | 0 17        | - 1.0                                   |          |               |
| 8   | Time<br>DMMHATELEPPSAGSHATERIAN  | and the same      | Name of Street       | COLUMN TWO IS NOT  | -                      | Name of            | Princes.        | OR SHOW     | 3 (S) (S)                               | 100      |               |
| 2   | The second secon | CONTRACT CONTRACT |                      | DI PERMIT          | SE SE                  | Name of            | -               |             |   |          |               |
| 3   |  | 34.0              | 1                    | 200                | 94){                   | 2114               | 2 3/15          | 1 4         | 3,132                                   |          |               |
| 4   | The second secon | 31/4              | 1 14                 | 2111               | 3/1                    | And                | 17/3            | 1           | Surec                                   | 4        |               |
| 5   |  | _                 | -                    | +                  | +                      | -                  | -               | -           | -                                       |          |               |
|     |  | _                 | -                    | +                  | +                      | +                  | +               | -           | -                                       |          |               |
| 6   |  | _                 | +                    | +                  |                        | -                  | +               | +           | _                                       |          |               |
| 7   |  | and distance      | -                    | THE REAL PROPERTY. | NAME OF TAXABLE PARTY. | THE REAL PROPERTY. | -               | -           | P S S S S S S S S S S S S S S S S S S S | 100      | -             |
| 0   |  |                   |                      | S SECTION          | 100                    | E STORE OF         |                 | 10000       |   | 1000     |               |
| 9   |  | and American      | Contract of the last | -                  |                        | Contract of        | N. Charles      | -           | NUMBER OF                               | 100      |               |
| 18  | SID CONTRACTOR -   | 70                |                      |                    |                        | ROLL .             | 7               |             | 172 M                                   | 200      | -             |
| 11  |  | Take              | mest                 | P(-eu              | A                      | Coup               | A               | 1-149       | Cinf                                    | 1        |               |
| 12  |  | 17                | T A                  | 0                  | H A                    | 1                  | 1               | 120         | Vau                                     | $\dashv$ |               |
| 13  | JAGRUTI SURESH GAJKAR  | sequ              | N                    | Gai                | A                      | 1000               | Gau             | Ga          | -cus                                    |          |               |
| M   | DET WATER STATE OF   | 100               | 100                  |                    | THE REAL PROPERTY.     |                    | The same of     | A STREET    | -                                       | -        |               |
| 15  |  |                   |                      | -                  | -                      |                    | -               | -           | + +                                     | -        | $\dashv$      |
| 16  |  | -004              | NA P                 | N Ow               | thet                   | anti               | ac most         | Smh         | 51/81)                                  | +        | -             |
| 17  |  | 2100              | 15/11/0              | U STIG             | 12 10 184              | 10114              | TOLIST          | Siring      | עופריםי                                 |          |               |
| 18  | KHANDENISAR INWITE   | *                 |                      |                    | Y                      |                    |                 |             |   |          |               |
| 120 | OSUBA ALIDRASE VSASAS ET III   |                   |                      |                    |                        |                    | NAME OF TAXABLE | A PROPERTY. | STATE OF                                |          | -             |
| 20  |  |                   | -                    | -                  |                        |                    | -               |             | -                                       | +        | $\rightarrow$ |
| 21  | PATIL ARBRUDOHA VISHWANATH   | -                 | -                    | -                  | -                      |                    | -               | -           | -                                       | +        | +             |
| 12  | PATIL ASHUDOSH SANDEEP   | +                 |                      |                    |                        |                    |                 | +           | -                                       | +        | +             |
| 13  | FATIL PEATHAMESH KANTI   | 20                | V -A                 | O.                 | 00                     | 730                | -               | 0.0         | C. D                                    | +        | +             |
| 14  | AAZ SHUBHAM UTTAH  | Sorker            | 41                   | DAKA               | Suffer                 | SIKIN              | A               | DOKA        | Sufor                                   | +        |               |
| 5   | RANE NETRA FRAKASH   |                   |                      |                    |                        |                    |                 |             |   | +        | +             |
| 6   | SAKFAL TEIAS RAMCHANORA  | 1                 | 9                    |                    |                        |                    |                 |             |   | +        | +             |
| 17  | SALUNKHE RIYA BHARAT   | 1000              | Title                | Lilein             | 110                    | 40                 | Janier          | 1.1         | 1000                                    | +        | +             |
|     | SAMANT AADITYA GIRISH  | Mind              | COL                  | Hypr               | Xuj 1                  | A DOL              | 1007            | KANACI      | Pull                                    | +        | +             |
| -   | SASE PARAG RAJESH  | PKSoni            | FRIEN                | Trave              | Pelare                 | troca              | KJave           | PRIOR       | PLEV                                    | +        | +             |
| -   | SAWANT BHAVANA JAYFRAKASH  |                   |                      |                    |                        |                    |                 |             | -                                       | +        | +             |
| 4   | SAWANT SAKET DATTATRAYA  | Name and          | Market Name          | -                  | THE REAL PROPERTY.     | -                  | W6-11-1-        |             |   | 1        | _             |
| 7   | SONCE ISSUE V SANTOS   |                   |                      | 100                | W ISS                  | and the            | 2               | 455 E       |   |          | 8             |
| +   | SINGH ADARSHKUMAR ARUN   | Mar.              | Six                  | Circ               | fina                   | 1                  | G:              | 1           | (1)                                     | -        | _             |
| +   | SINGH PRABITET JASBIR  | Par X             | 1540                 | MA                 | 141                    | Dix                | 419             | 1419        | 18/21                                   | 1        | 1             |
| +   | SINGH PRIYA SHUBHNARAYAN   |                   |                      |                    |                        | -                  | 12/2            | 12.00%      |   | 1        | 1             |
| +   | SOLARKI VIGHNESH DILIP   |                   |                      |                    |                        |                    |                 |             |   |          |               |
| +   | SOLIM HITESH RAMCHANDRA  |                   |                      |                    |                        |                    |                 |             |   |          |               |
| U   | JPADHYAY VINAY UNESH   | 000               | woo.                 | 1101               | 1100                   |                    |                 |             |   |          |               |
| d-  | TSHWAKARMA BRIDESH RAMESH  | MBK               | VOK                  | VBR                | MRK                    | V.BR               | MAR             | V.BK.       | V.BK                                    |          |               |
| I S | MAY SEED IN MAKE   | September 1       | 44.00                | の単                 | 5.00                   |                    |                 |             |   |          |               |
| -   | ADAY PANKAJ SURESHCHANDRA  |                   |                      |                    |                        |                    | 22-01431        |             |   | -        |               |
| 80  | Mary Mary Mary Mary Mary Mary Mary Mary  | CONTRACT          | Hita)                |                    | 海山市                    | 0000               | MUM             | <b>期</b> 储  | DECK OF                                 |          | NIV.          |
| icc | DLEXAR KUSHAL VILAS  | 8                 |                      |                    |                        |                    |                 |             |   | -        | -             |

|     | Military of the second second second |        | 200   | 200   | A STREET | The same of |         |       |       |         |
|-----|--------------------------------------|--------|-------|-------|----------|-------------|---------|-------|-------|---------|
| 15  | DEHIREKAR YASH NARESH                |        |       |       |          |             |         |       |       |         |
| 46  | AGRE SHUBBAM SPANKAS                 |        |       |       |          |             |         |       |       |         |
| 47  | ASALE NAVINTULAR                     |        |       |       | _        | -           |         |       |       |         |
| 45  | AVERE SARVESH YINCO                  |        | -     | 0.0   | -        | n.t.        | Balge   | Walt. | Ratu  |         |
| 49  | HALUGADE PAWAN ADINATH               | Baljen | - 1   | Balge |          | Barn        | - Darge | Dala  | Damy  |         |
| 50  | RHURAWALLA DEVANGEE SURESH           |        |       |       |          | _           |         | _     |       |         |
| 51  | BOROLE MITALI YADAV                  |        |       |       |          | _           | -       | _     | _     |         |
| 52  | CHACREY KRIMON BILLDOVIND            |        |       |       |          |             | _       | -     | _     | +       |
| 53  | CHAURASIA SHIYAM RANJEET             |        |       |       |          |             | _       |       | -     | +       |
| 54  | CHAVANDEEPALIKATU                    |        |       |       |          |             |         | _     | -     | +       |
| 55  | CHAYAN MAYUR VIJAY                   | 1110   |       |       |          |             | 700     | TOD.  | Total |         |
| 56  | DAVANE ISHANI BAJESH                 | TMD    | 180   | IM    | 1812     | 186         | John    | ISUN  | J8Dn  |         |
| 57  | DEASKIADA AVINASH COVIND             |        | 14550 | W     |          |             |         |       |       | +       |
| 58  | DHOKTE VIPUL SANDEEP                 |        |       |       |          |             |         |       |       | +-      |
| 59  | GAVLI ANIKET SURESH                  |        |       |       |          |             |         | ,     | -     | +       |
| 60  | GILBILE LAXMI VVAY                   | Loom   | Louni | Laum  | Lovini   | Laumi       | Laun    | Law   | Laxur | +       |
| 61  | GUPTA PRIYA ATUL                     |        |       |       |          |             |         |       |       | +       |
| 62  | HADAL DIPALI GANPAT                  |        |       |       |          |             |         |       |       | +       |
| 63  | KADAM AISHWARYA MANDESII             |        |       |       |          |             |         |       |       | +       |
| 64  | CHADE PRASHANT PURUSHOTTAM           | Uzir   | +     | 431   | HAID     | 1900        | A       | YRIT  | MIL   | +       |
| 65  | CIRANGE VAINGAV PRAMOD               |        |       |       |          | ,           | -       | -     | ,     | +       |
| 56  | MACHDO PAVAN INAVOR                  |        | -     | 1     | 08.0     |             |         |       |       | +       |
| 67  | MANISH PURDLIK WANGHEDE              |        |       |       |          |             |         |       |       | +       |
| 68  | MISHRA SANDEEF INDRAMANT             |        |       |       |          |             |         |       |       | +       |
| 69  | DECENDRAR SACHEN SHEVILAM            |        |       |       |          |             |         |       |       | +       |
| 70  | PATIL PRANCO RANESH                  |        |       |       |          |             |         |       |       | +       |
| 71  | FATIL SHUBHAM JAGANNATH              |        |       | -     | 1        |             | * 00    | Ann   | and . | +       |
| 12  | PEDNEKAR ONEAR ANANDA                | OPA    | A     | OFF   | M        | OPA         | OPIJ    | OPT   | Opp   | +       |
| 73  | RATHOD KARTIK MANILAL                | 1      |       |       | 1.5      | -1          | 1       | ,     | 100   | +       |
| -   | RATHOO PRASHEEL RATESH               |        |       |       |          |             |         |       |       | +       |
| 75  | SAMBUDHE SONE KANADE                 |        | 5     |       |          |             |         |       |       | 1       |
| 16  | SHAH POOJA MUXESH                    |        |       |       |          |             |         |       |       | +       |
| 17  | SEARCH MORDAINED ANAS ARREAD         |        | -     |       | ٥.       | 0.4         |         | -     |       | 1       |
| 18  | SHINDE SURAL LANARDAN                | Sillon | Stohn | SISW  | Sish     | Stohn       | Sich    | Sish  | Sish  | $\perp$ |
| 19  | TAMORE HUMANSHUKTRAN                 | 10     | U     | 0     | U        | 0           | 0       | V     | U     | 1       |
| 80  | VICHARE PILANTI SUHAS                | N.     |       | 1     |          | 1           | 1       | 1     | 1     |         |
| 81  | SHAIKH MOHANDIED YAKUB               | 2)21   | A     | 214   | A        | 200         | 900     | 227   | 2161  |         |
| 82  | SAYTED NEHAL IMAM                    | 1      |       |       |          |             | 100     |       |       |         |
| 83  |                                      |        |       |       |          |             | 1       |       |       |         |
| 84  |                                      |        |       |       |          |             |         |       |       |         |
| 98. | NO OF STUDENTS PRESENT               |        |       |       |          |             |         |       |       |         |

BOA'S SUBJECT INCHARGE



# VIVA Institute of Technology, Virar SUBJECT: PCB See See See S.E. ELECTRICAL (2018-2019)

| L   | Nims                           | 5/1618    | 5 018               | M/19/18           | RADIS                    | MA1/18        | 11/19/18          | 26 1918   | 11/10/18                                | Ь   | C         | T   |
|-----|--------------------------------|-----------|---------------------|-------------------|--------------------------|---------------|-------------------|-----------|---|-----|-----------|-----|
| ia. | Time                           | 3.1.1.    | 1 110               |                   |                          | 11            |                   |           |   |     |           | L   |
| ũ   | SHORT SHEET VOICE AND SHAPANAS | S SINIS   | CHES                | NAME OF           | Silver Street            | BASSE.        | 1460              | DELEG     | 起題                                      | 豐   | 18        |     |
| 2   | BAGWE NINAD FRASAD             | 7,0       | 1.0                 | 1.0               | 1,0                      | 0             |                   | 10        | 10                                      | _   |           | 1   |
| 3   | BHOER MAETIK GANESH            | 4 his     | Six                 | 9717              | 3414                     | DUN.          | *                 | Suik      | 31190                                   | _   | _         | L   |
| 4   | DUNALE DHORAT RATE             | 1000      | -                   |                   |                          | -30-08        |                   | 1 - 100   |   | _   |           | L   |
| 3   | CHAVAN RUTUX ATAT              | 1         |                     |                   |                          |               |                   |           |   |     |           | L   |
| 6   | DANDEKAR CHIRIPAT              |           |                     |                   |                          |               |                   |           |   |     |           | _   |
| 7   | DAURDE POOTA PRAKASH           | III.      |                     | 1 490             | CUNC                     |               |                   |           |   |     |           | _   |
| 8   | CENTE LETANS DISTABLED TO      |           | A Broth             | NUMBER OF STREET  |                          | HI VALUE      | SHE               | Brief S   |   | 壁   | 讍         | W.  |
| 9   | GADNKAR ONKAR VIJAY            |           |                     |                   | 15 may                   |               |                   | 12.       |   |     |           |     |
| Ti. | SERVINGAVIN MARDES             | 250       | 1                   | DOM:              | 2                        |               | 2 1               |           |   | 璺   | 遇         | B   |
| 11  | GUFTA RAJEWORA BASHISHT        | Jun       | Cup                 | Leup              | Tup                      | - 4           | Junit             | Liell     | July 1                                  |     |           | -   |
| 12  | CUITA REEMA SHIVKUMAR          | 1 1       | 1                   |                   | 1.                       |               | 0.00              |           | 100000000000000000000000000000000000000 |     |           |     |
| 3   | IAGRUTT SURESH GATKAN          | Sicul     | Bart                | Sur               | Goll                     | -barr         | Goul              | bout      | four                                    | `   |           | L   |
| H   | IDEAL AND A DESIGNATION OF THE | 7         |                     | Per St            | 2                        |               |                   |           | AND DE                                  |     | 鑩         | 9   |
| 5   | KAPERKAR VRUSHABH MAHESH       |           |                     |                   |                          | -3            |                   |           |   |     |           |     |
| 6   | KOTTYAN DIERAJ JAGDISH         | - soveres |                     |                   |                          | 0             |                   |           | one                                     |     |           | Ĺ   |
| 7   | HARDOLKAR SACHIN DINKAR        | Sm        | Smit                | 8 mg              | A (                      | SMED          | A                 | 8m8p      | SIIIS                                   |     |           |     |
| 8   | ATRIANS BOOTH                  |           |                     |                   | 200                      | made for      |                   | 148       | 7056                                    |     | 標         |     |
| 8   | n i jaz don (Wielensein)       | 100       |                     |                   |                          | 禁門也           |                   |           | A PARTIE                                |     | 38        | ß   |
| a   | PACHARIKAR ASHES KUMAR ASHOK   |           |                     |                   | 20 PER 180               | SANTA TORONTO | 7-311             |           |   |     |           |     |
| 1   | PATTL ANIRUDDINA VISHINAWATH   |           |                     |                   |                          |               |                   |           |   |     |           |     |
| 2   | PATIL ASHUTOSH SANDEEP         |           |                     |                   |                          |               |                   |           |   |     | $\Box$    |     |
| 3   | PATE PRATHAMESH KANTE          | h 1       | 0                   | 0                 | 0                        | ~ 1           | 00                | ~ 1       | $\cap$                                  |     |           |     |
|     | RAI SHUBHAM UTTAM              | Stuken    | Samo                | Sur               | Since                    | Simo          | Sufi              | Suker     | Jun                                     |     |           | 1   |
| 5   | KANE METRA PRAKASH             |           |                     |                   |                          | 1             | 26                |           |   |     |           |     |
| 6   | SAKPAL TEJAS RAMCHANDRA        |           |                     |                   |                          |               |                   |           |   |     |           |     |
|     | SALLINKHE RIYA BHARAT          |           |                     |                   |                          | 11.5          |                   |           |   |     |           |     |
| ,   | SAHANT AADITYA GIRUSH          | atind.    | Amd.                | $\mathcal{A}$ ind | 4th                      | Laur          | All C             | HINT      | A                                       |     |           |     |
| 1   | SASE PARAG RAJESH              | pon       | Pen                 | PFIZ              | PHY                      | PP            | -PRH              | A         | PRI                                     |     |           |     |
| 1   | SAWANT BHAVANA JAYPRAKASH      |           |                     |                   |                          | al            |                   | 20        |   |     |           |     |
| 1   | SAWANT SANCET DATTATRAYA       | 850       | Ssn                 | X8D               | 5812                     | ZU            | 28 8C             | S         | 28 A                                    | >   |           |     |
| i   | HOUSE AND CHOOSE AND CO.       | 1         | 200                 |                   |                          |               |                   |           |   | 100 | -         | 8   |
| T   | EDIGH ADARSHKUMAR ARUN         | 1         | 1                   | Λ.                | 1.                       | 1.            | A                 | 1         | Λ.                                      |     |           |     |
| Ī   | DINGH FRABILET JASSIR          | 48        | 12/21               | 201               | 1201                     | 1200          | 451               | 14921     | 1200                                    |     |           |     |
| Ī   | SENSH PRIYA SHUBHNARAYAN       |           | "                   |                   |                          |               | .,,               | ,         | 100                                     |     |           |     |
| 1   | SOLANKI YEGHNESH DILIP         |           |                     |                   |                          |               |                   |           |   |     |           |     |
| 1   | SOLIN HITESH RAMCHANDRA        |           |                     |                   |                          |               |                   |           |   |     |           |     |
| 0   | PADHYAY YENAY UMESH            |           | 1700m               | 103501            | Separation of the second | 200           | Normali<br>Market | . 3       | - 3                                     |     |           | -   |
| ÷   | CSHWAKARMA BADESH RAMESH       | VAR       | VBR                 | VBL               | 188                      | VB2           | 1BA               | V.Bill    | A                                       |     |           |     |
| 4-  |                                |           | To the last         |                   |                          |               |                   | - DIV     |   | -   | <b>Q1</b> |     |
| ₽   | ADAY PANKAI SURESHCHANDRA      |           |                     |                   |                          |               |                   |           |   |     |           |     |
|     | GATE CONTRACTOR                | \$300 kg  |                     |                   | S. Indian                | 100           | William Fill      | r di rest | MARKET ST                               | -   | 100       | 100 |
| -   | OLEKAR KUSHAL VILAS            | 1000      | (All Printed Street | Marie Co.         | -613-4                   |               | ALC: NAME OF      |           |   |     | 700       |     |



|     | A CONTRACTOR OF THE PARTY OF TH | 1 3         | 100   | Consession of the last | THE REAL PROPERTY. | ELAUE I |       |       |       |          | T |
|-----|--|-------------|-------|------------------------|--------------------|---------|-------|-------|-------|----------|---|
| 45  | DEHSREKAR YASH MARESH  | -           | _     | _                      |                    |         |       |       |       |          | + |
| 45  | ACRE SHUBBLASS SHANKAR   | _           |       |                        | _                  |         |       |       | 1     | $\vdash$ | + |
| 47  | ASALE NAVIN TULAX  |             |       |                        |                    |         |       |       |       | $\perp$  | 4 |
| 45  | AVERE SARVEST VINOO  | 6.          | 01    | 01.                    | v J.               | Palus   | Ram   | Baly  | Besty |          | 4 |
| 45  | DALUGADE PAWAN ADINATIF  | Ealyw       | Barry | Bauge                  | Park               | Part.   | Beel  | ,     |       |          | 1 |
| 50  | DISCRESAVALLA DEVANGEE SURESE  | ,           |       |                        | _                  |         | -     |       |       |          | 1 |
| 51  | BORGLE MITALI YADAV  |             |       |                        |                    | _       |       |       |       |          | _ |
| 30  | CHAURCY LIUSENA BALGOVIND  |             |       |                        |                    |         |       |       |       |          |   |
| 53  | CHAURANTA NEIVAM/RANGET  |             |       |                        |                    | -       | _     | -     |       |          |   |
| 54  | CHAVAN DEBNITRASE  |             |       |                        |                    |         | -     |       | (25)  |          |   |
| 55  | CHAVAN MIXYUR YEAY   | ~1          |       | -1                     | Trot               | Jehl    | TOO   | TOD   | CXD   |          | I |
| 56  | DAVANE BRANCKAES!  | 180         | P     | 18hu                   | 1800               | TRM     | 2017  | 20.7  | 401   |          | T |
| 57  | DHANGADA AVNASH GOVINO   |             |       | *                      |                    |         | _     |       |       |          | 1 |
| 58  | DHOKTH VIPUL SANDEEP   |             |       |                        |                    |         |       |       |       |          | T |
| 59  | GAVLI ANDEST SERENA  | 100         |       |                        |                    |         | 1     | Laste | Thus  | -        | 1 |
| 60  | GLBEE LANN YUAY  | LOVEN       | Low   | Lace                   | LAVE               | Lacin   | LAKIN | Loven | Lave  | _        | + |
| 61  | GUPTA FRIYA ATUL   |             |       |                        |                    |         |       |       |       | -        | + |
| 62  | HADAL DIPALI GANFAT  |             |       | -                      |                    | 10000   |       |       |       |          | + |
| 63  | KADAM ADMIWARYA MANGESH  |             |       |                        |                    |         |       | -     |       |          | + |
| 64  | KRADE PRASHANT PURUSHOTTAM   |             |       |                        |                    |         |       |       |       | -        | + |
| 65  | KIRANGE VARIAV FRANCO  |             |       |                        |                    |         |       |       | _     | +        | + |
| 65  | MACHRIE PAVAN PRAVIN   | 100         | 17    | 1.0                    |                    | 10 11   |       |       | _     | -        | + |
| 67  | MANUSH PUNDLIK WANKHEDE  |             |       |                        |                    |         |       |       |       | -        | + |
| 68  | MISTORIA SANDEEP INDRAMANE   |             |       |                        |                    |         |       |       |       | -        | + |
| 69  | MONDICAR SACIEN SHIVRAM  |             |       |                        |                    |         |       |       | _     | -        | + |
| 70  | PATIL PRAMODRAMESH   |             |       |                        |                    |         |       |       | _     | -        | + |
| 71  | PATIL STUDBAM PAGANNATH  | And         | -20   | -00                    | 24                 | AA      | -Ord  | non   | 700 h | -        | + |
| 72  | PEDNEKAR ONKAR ANANDA  | MA          | ONT   | OFF                    | J)PI               | ppr     | Off   | OF    | SIL   | -        | + |
| 73  | RATHOD KARTIC MANILAL  |             |       | 1,                     | ~                  |         | 1     |       |       | -        | + |
| 74  | RATHOD PRASHETL RAJESH   |             |       |                        |                    |         |       |       |       | -        | + |
| 75  | SAMRUDHIII SUNIL KANADE  |             |       |                        |                    |         |       |       |       | $\vdash$ | + |
| 76  | SHAH PODJA MUKESH  | (4)         |       | . 1                    |                    | - N-    |       |       |       |          | + |
| 77  | SHAIKH MORANMED ANAS AKHTAR  | - A         | 1     |                        | 1                  | -1      | nl.   | 1.0   | C     | -        | + |
| 78  | SHINDE SURAL JANAZDAN  | Bran        | 5 Ch  | 5 8                    | SIGN               | 8/8/    | 15/   | Sor   | XC    | `        | + |
| 79  | TAMORE HIMANSHU KIRAN  | 0           | ,     | 7                      | 1                  | V       | 1     | 7     | 1     |          | + |
| 80  | VICHARE PRANT SURAS  | 1           | 1     | 1                      | 1                  | V       | 1     | 1     | 1     | 1        | 1 |
| 51  | SHABULMCHAMMED YAKUB   | <b>对</b> 20 | 221   | and                    | 200                | Tus     | 2324  | 214   | 200   |          | 1 |
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| 17. | NO OF STUDENTS PRESENT   | _           |       |                        |                    |         |       |       |       |          |   |

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VIVA Institute of Technology, Virar

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| +       | BUKALE DHIRA) RANJ   | Teus   | 1          | -         | 1         | -        | 1      | 1                  |         | 7   |     | l |
| 5       | CHAVAN RUTUTA AJAY   |  |            |           |           |          |        |                    |         |     |     | l |
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| 15      | CAMERKAR VRUSHABN MAHESH   | 10   | 11170      | 9         |           |          |        |                    |         |     |     |   |
| 16      | KOTIYAN GHIRAJ JAGDISH   | 22.00  |            | _         | 2.000     |          |        |                    | 21      |     |     |   |
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| 20      | FACHAREKAR ASHESHKUMAR ASHOK   |  |            |           |           |          |        |                    |         | _   |     |   |
| 11      | PATEL AMERUDOHA VISHWANATH   |  |            |           |           |          |        |                    |         |     | - 5 |   |
| 12      | FATIL ASHUTOSH SANDEEP   |  |            |           |           |          |        |                    |         |     | _   |   |
| 3       | PATIL PRATHAMESH KAN'I   |  | - 1        | a h       | 0.0       | 20       |        |                    | _       | _   | _   |   |
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| 15      | RANE NETRA PRAKASH   | 70   | ~ ,        | - 1       |           | - 101    |        |                    |         |     |     |   |
| 6       | SAKPAL TEJAS RAMCHANDRA  |  |            |           |           |          |        |                    | 1       |     | -   |   |
| 7       | SALUNKHE RIYA RHARAT   |  | 0          |           |           | 1        | , ,    |                    | '       | -   | _   | _ |
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| +       | SINGH PRABILET JASBIA  | 201  | KAN        | 140       | A         | 164      | 49     | 12121              | 140     |     |     |   |
| 5       | SINGH PRIYA SHUBHNARAYAN   | 20.  |            |           |           |          |        | -                  | 1.1     |     |     |   |
| 6       | SOLANKI VIGHNESH DILIP   |  |            |           |           |          |        |                    |         |     |     |   |
|         | SOLIM HITESH RAMCHANDRA  |  |            |           |           |          |        |                    |         |     |     |   |
| -       | URADHYAY VINAY URESH   | 1  |            |           |           |          | 218    |                    | 1.40    |     |     |   |
| ,       | VISHWAKARHA BRUGSH RANESH  | VBR  | VBL        | 1/6/      | A         | VBC      | A      | VBR                | 1/14    | )   |     |   |
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| T       | COLEKAR KUSHAL VILAS   |  |            |           |           |          |        |                    |         | 17. |     |   |

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| Ċ. | DEHLAEKAR YASH NARESH  |              |            |           |        | _    |          |            |           |          | T        |
| 66 | AGRE SHUBBAN SHANKAR   |              |            |           | _      |      |          |            |           |          | $\neg$   |
| 47 | ASALE NAVIN TICLAR   |              |            |           |        |      |          |            |           |          | $\dashv$ |
| 49 | AVERE SARVESK VEKOD  | 0.1          | -          | - 1-      |        | V2 1 | 7        | 01.        |           | +        | 7        |
| 49 | BALUGADE PAWAN ADINATIE  | Ealyr        | Baly       | Bury      | - Ball | Ben  | She      | Dans       | - 6       | +        | +        |
| 50 | DIFURAWALLA DEVANCET SURESII   |              | Constant.  |           | - 9    |      | /        | - 200      |           |          | $\dashv$ |
| 51 | BOROLE MITALI YADAV  |              |            |           |        |      |          |            |           | -        | +        |
| 52 | CHAUTEY EXISTINA BACGOVEND   |              |            |           |        |      |          |            |           | -        | +        |
| 53 | CIKALIKASIA SHEVAM RANIFET   |              |            |           |        |      |          |            |           | -        | +        |
| 54 | CHAVAN DEEPALI BAJU  |              |            |           |        |      |          |            |           | -        | +        |
| 55 | CHAVAN MAYUR YUAY  | -11          | - h        | . h       |        | 0    | -0       |            |           | -        | +        |
| 56 | DAVANE ISHANI RAJESR   | IBN          | W          | (MX       | 185    | 13HV | SHU      | SHL        | 181       |          | +        |
| 57 | DHANGADA AYINASH GOVEND  | -            | - I        |           |        | 0 1  |          | O'CO STATE | 70.00     |          | +        |
| -  | DHOKITE VIPUL SANDEEP  |              |            |           |        |      |          |            |           |          | +        |
| _  | GAVLI ANIKET SURESH  |              | 9          |           | 4      |      |          | y          |           |          | 4        |
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| -  | CUPTA PRIYA XTUL   |              |            |           |        |      | 25001200 | 10000      |           |          | 1        |
| -  | HADAL DIPALI GANPAT  |              |            | 1         |        | 5.94 |          | 1          |           |          |          |
| 63 | KADAM ABHWAKYA MANGESH   |              |            |           |        |      |          |            |           |          |          |
| 64 | KURADE PRASHANT PURUSHOTTAM  |              |            |           |        |      |          |            |           |          |          |
| -  | KIRANGE VAIBHAY PRANIOD  |              |            |           |        |      |          |            |           |          |          |
| 66 | MACHEI PAVAN PRAVIN  |              |            | THE S     |        |      |          |            |           |          |          |
| 67 | MANISH PUNDETK WANGHEDE  |              |            |           |        |      |          |            |           |          |          |
| 68 | MESHIKA SANDREP INDRAMANI  |              |            |           |        |      |          |            |           |          |          |
|    | MONEKAR SACHIN SHITRAM   |              |            |           |        |      |          |            |           |          | T        |
| -  | PATIL FRANCO RAMESH  |              |            |           |        |      |          |            |           |          | Т        |
| -  | PATTL SHUBHAM JAGANNATH  |              |            |           |        |      |          |            |           |          | T        |
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| -  | RATHOD KARTIK MANILAL  |              |            | 1         |        | -    |          |            |           |          | 1        |
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|    | SAMRUDHHI SUNIL KANADII  | -            |            | -         | - 7    |      |          |            |           | 1        | 1        |
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| -  | TAMORE HIMANSHU KIKAN  | -            |            | ĭ         | -      | 1    | ~        |            | 1         |          | 1        |
| 80 | VICHARE PRANT SULAS  | 000          | 911        | 900       |        | 900  |          | 2001       | 2001      |          | +        |
| -  | SHADEH MOHADOMED YAKUB   | 709          | शंभ        | -< K.     | 4      | X Ka | 7        | C129       | ( Kg      | -        | +        |
| -  | SAYYED NEHAL IMAM  | 1            | 1          |           | 10.15  | -    |          |            | -         | -        | +        |
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|    | NO OF STUDENTS PRESENT   |              |            |           |        |      |          |            | E         |          |          |





# VIVA INSTITUTE OF TECHNOLOGY

(Affiliated to University of Mumbai; Approved by AICTE & DTE)

Veer Savarkar Marg, Shirgaon, Virar 401303

Department of Electrical Engineering

# CERTIFICATE

This is to certify that,
Mr./Ms. Samant Aaditya Girish
of class SE Electrical
has successfully completed value added course on
"Printed Circuit Board Design"
organized by

Department of Electrical Engineering for A.Y. 2018-19 from 06th Jul 2018 to 26th Oct 2018.

Barrl.

Prof. Bhavita Patil Course Coordinator Do

Prof. Bhushan Save Head of Department



# **VALUE ADDED COURSE**

| Name of Course:          | Electrical Safety Practices | Branch:             | Electrical Engineering |
|--------------------------|-----------------------------|---------------------|------------------------|
| Duration:                | 30 Hours                    | Coordinator:        | Prof. Pratik Mahale    |
| Date of<br>Commencement: | 6 Jul 2018                  | Date of Conclusion: | 5 Oct 2018             |

|         | Course Outcomes  |
|---------|--|
| Upon su | accessful completion of the course, the student must be able to  |
| CO1     | Understand the Indian power sector organization and Electricity rules, electrical safety in residential, commercial, agriculture, hazardous areas and use of fire extinguishers. |
| CO2     | Outline the electrical safety during installation, testing, and commissioning procedures.  |
| CO3     | Make use of specifications of electrical plants and classification of safety equipment for various hazardous locations.  |
| CO4     | Distinguish various fire extinguishers and their classification.   |

|          | Syllabus  |       |
|----------|---|-------|
| Unit No. | Contents  | Hours |
| 1        | Introduction To Electrical Safety, Shocks And Their Prevention:  Term and definitions, objectives of safety and security measures, Hazards associated with electric current and voltage, who is exposed, principles of electrical safety, Approach to prevent Accidents, the scope of subject electrical safety. Primary and secondary electrical shocks, possibilities of getting an electrical shock and its severity, medical analysis of electric shocks and its effects, shocks due to flash/ Spark over's, prevention of shocks, safety precautions against contact shocks, flash shocks, burns, residential buildings, and shop. | 6     |
| 2        | Overview of the Safety Model: Wiring and fitting, Domestic appliances, water tap giving a shock, shock from the wet wall, fan firing shock, multi-storied building, Temporary installations, Agricultural pump installation, Do's and Don'ts for safety in the use of domestic electrical appliances.   | 6     |
| 3        | Electrical Hazards recognizing and Evaluating Preliminary preparations, safe sequence, the risk of plant and equipment, safety documentation, field quality, and safety, personal protective equipment, safety clearance notice, safety precautions, safeguards for operators, safety.  | 6     |

|   | Controlling Hazards: Safe Work Environment:   |   |
|---|---|---|
| 4 | Hazardous zones, class 0, 1 and 2, spark, flashovers, and corona discharge and        | 6 |
|   | functional requirements, Specifications of electrical plants, equipment for hazardous |   |



|   | locations, Classification of equipment enclosure for various hazardous gases and vapors, classification of equipment/enclosure for hazardous locations.  |   |
|---|--|---|
| 5 | Controlling Hazards: Safe Work Practices: Fundamentals of fire, initiation of fires, types; extinguishing techniques, prevention of fire, types of fire extinguishers, fire detection and alarm system; CO <sub>2</sub> and Halogen gas schemes; foam schemes, Ladder safety fact sheet, Avoid wet working conditions and other dangers, Avoid overhead powerlines | 6 |

### **Learning Resources**

#### **Text Books:**

1. Rao, S. and Saluja, H.L., "Electrical Safety, Fire Safety Engineering and Safety Management", Khanna Publishers, 1988.

#### **Reference Books:**

- 1. Cooper. W.F, "Electrical safety Engineering", Newnes-Butterworth Company, 1978.
- 2. John Codick, "Electrical safety handbook", McGraw Hill Inc., New Delhi, 2000.
- 3. Nagrath, I.J., and Kothari, D.P., "Power System Engineering", Tata McGraw Hill, 1998.
- 4. Wadhwa, C.L., "Electric Power Systems", New Age International, 2004.



VIVA Institute of Technology, Virar
SUBJECT: Electrical Enterly Practices
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At: Shirgaon Post: Virar, Tal.: Vasal, Dist. Palgha

|     | PALME AKSHAY AMIN  |                   |          |          |                 |       | _        |       |       | -     | -   |
|-----|--|-------------------|----------|----------|-----------------|-------|----------|-------|-------|-------|-----|
| 16  | PANCHAL JATIN YENODKUMAR   |                   |          |          |                 |       |          | -     | -     | -     | 100 |
| _   | PAKO STIL  |                   |          |          |                 |       |          | -     |       | -     | 1   |
| 41  | PARNALE SHEBILAM RAMAKANT  |                   |          |          |                 |       |          | _     |       | -     | -   |
|     | PASHITE MIKITA CIPAK   |                   |          |          | Carrier San Fla |       |          | _     | -     |       | _   |
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| 51  | PATEL VARIADALMAR IC: ESSERIAL   | Name of Street    | -        |          |                 |       |          | -     | 0.    | _     | -   |
| 52  | PATIL CHEMAY RAIDIR  | Gran              | 1        | Con      | -               | Gran  | -        | Cpass | Cpu   | -     | +   |
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| 54  | PATE PANKAL IHAVOYAN   |                   |          |          |                 | 1     |          |       |       | -     | +   |
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| 76. | PATE RITA RAZENDRA   | Lan               | Rome     | low      | /               | Pers! | Tout     | Pour  | four  | _     | -   |
| 57  | PATE SWAPNE AND  |                   |          |          |                 |       |          |       |       |       | +   |
| 18  | PATEAR ADDIVING SANDAY   |                   |          |          |                 |       |          |       |       |       | +   |
| 10  | FAMILE PRANALITINGA (NATH  |                   |          |          |                 |       |          |       |       | _     | -   |
| 60  | PAWAR SURAS SAUDITALI  |                   |          |          |                 |       | 1        |       | 42    | _     | +   |
| 61  | PRAJAPATI ANANO SHRIKANI   | P                 | A        | A        | P               | /     | p        | A     | AD    | _     | +   |
| 62  | KANE FRATHMESH C   |                   |          |          |                 |       |          |       |       | -     | -   |
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| 66  | DEWALE KIRAN LAXMAN  | 1                 |          |          |                 |       |          |       |       | _     | _   |
| ř.  | SAINDANE BASSITEAPAL S.  | -                 | 0        | 0        | -               | -     | -        | 0     | 0     | _     | _   |
| 68. | SHAH KRUTI KAITEV  | 18                | *        | *        | 8               | 9     | 1        | 8     | *     | _     | -   |
| 19  | SHAH VINTT BILARATKUMAR  |                   |          |          |                 |       | U        | 100   |       | -     | _   |
| 20  | mental arking a community  |                   | 12 130   | Marie 1  | THE P. ST       |       |          |       |       | 100 田 | 日田  |
| 71  | SINCH HEMANSHIL PRASHANT   |                   |          |          |                 |       |          |       |       |       | _   |
| 12  | SINGH PRINCE PINITU  |                   |          |          |                 |       |          |       |       | _     | -   |
| 73. | SOGNE OMKAR PRAMCO   | 8                 |          | 5        | -               | 1     | -        | 9     | 8     | _     | _   |
| 74  | SOITIKA DHAVAL DINESH  |                   |          |          |                 |       | - +      | 3000  |       | _     | 1   |
| 75  | SOLANKEDIPESH VASASE   |                   |          |          |                 |       |          | 2     | ***   |       | _   |
| 76. | TODANKAR ASIKET DELP   |                   |          |          |                 |       |          |       |       | _     | _   |
| TT  | VADHVANA DIVYESH HARESH  |                   |          |          |                 |       |          |       |       | _     | -   |
| 78  | WACHMARE RUCHTA'R  |                   |          |          |                 |       |          |       |       |       |     |
| 79  | YADAV BORT PRASHAKAK   |                   |          |          |                 |       |          |       |       |       | _   |
| 89  | YADAY SHAILENDIKA BAJRANGI   | 1                 | 2        | -        |                 | 1     |          | 16    |       |       | 1   |
| 51  | CHAUDHARI SNERA  | Thou              | Colon    | Che      | -               | Show  | -        | Fran  | -     |       | 1   |
| 52  | MANDAL GANESH  |                   |          |          |                 |       |          |       |       |       |     |
| 13  | KHARDIKAR IAY  |                   |          |          |                 |       |          |       |       |       |     |
| 54  | MADEYE PRATHAMESII   |                   |          |          |                 | - 9   |          |       | -     |       |     |
| 45  |  | 3000              | DELL'ARE | <b>H</b> | Series.         | S SHE | H B      | 100   | 20    | E 10  |     |
| ×.  | Contraction of the St.   |                   |          |          |                 |       | Rink.    |       |       | \$1 B |     |
| iT. | JAJEWAD AKASH  |                   |          | 1        | in E            |       |          |       | - 3   |       |     |
| 15  | CHALTDRIARI NISHANT  | 9                 |          |          |                 |       |          |       | - 2   |       |     |
| 10  | GUL VINAY  |                   |          |          |                 |       |          |       |       |       |     |

SUBJECTINCHARGE



VIVA Institute of Technology, Virar
T.E. ELECTRICAL (2018-2019)

| -   | BJECT: ESP (cou<br>BJECT INCHARGE:   | MUS                   | 1130                                 |                     |                        |                | 4 /0/18  | 2/8/18        | 10/818       | P                                  |     | 1     |
|-----|--|-----------------------|--------------------------------------|---------------------|------------------------|----------------|----------|---------------|--------------|------------------------------------|-----|-------|
| 1   | Nome   | 70/A/18               | 17:9ns                               | D-19418             | 23/9/18                | 5 /\$/18       | 2/8/10   | 10.5          |              |                                    |     |       |
| 1   | Time   |                       |                                      |                     | Sec. 1                 |                |          |               | B            |                                    |     | L     |
| 1   | ACARWAL ARRESTER PAWAN   | (R)                   | (A)                                  | B                   | A.                     | GA.            | A.       | Yes .         | -            |                                    |     | L     |
| 1   | AVIIRE MEESTS ADITYA   |                       |                                      | Section 2           |                        |                | 10       |               | 0            |                                    |     | L     |
| 1   | G. GULDHRAFE SMESS   | 158                   | 1                                    | B                   | (19)                   | -              | 3        | -             | -90          |                                    |     | -     |
|     | DUATRAK UPOT VINOR   |                       |                                      |                     |                        |                | _        |               |              |                                    |     |       |
|     | DOTHUM AKASHI KAYINDRA   |                       |                                      |                     |                        | 1              |          | A.            | (D)          |                                    |     |       |
|     | CHARTERAND PRACAD PRADIT   | 02                    | CP                                   | 0                   | P                      | CP             | -        | CR            | 4            |                                    |     | 1     |
|     | DUMENTAR SHAYOR KRISHNA  |                       |                                      |                     | 1                      |                |          |               |              |                                    |     |       |
| 0.5 | DANIFANE SALONEE SANDESH   |                       |                                      |                     |                        |                |          |               |              | _                                  |     | 1     |
|     | DEVALIA NIRAY RAJESHEUMAN  |                       |                                      |                     |                        |                |          | D 4-          | 00           | _                                  | -   | -     |
| 0   | THANGAR ROUNT BAILINGBA  | RP                    | PP                                   | PP                  | PP                     | PP             | -        | Pp            | 80           |                                    |     | -     |
| 1   | DEANG HARDIK NANDKUMAR   |                       |                                      |                     |                        | 1              |          |               |              | -                                  |     | H     |
| 2   | DHAROD KUNAL   |                       |                                      |                     | J                      |                |          | -             | -            | -                                  |     | H     |
| 5   | DIUR AMBUTA SUNIL  | 1                     | -10                                  | A                   | D                      | A              | -        | A) -          | AD           |                                    |     | -     |
| 1   | CADGUL GAVATRI SUNIL   | 1                     | -                                    |                     | 188                    |                |          |               |              | _                                  |     | -     |
| 5   | CALKWAD SANTOKH GORAKH   |                       |                                      |                     |                        | 1              |          |               |              | -                                  |     | H     |
| 6   | DAWAND ANIKET GUILDATH   |                       | 0.20                                 | 928                 |                        | 1              |          | -             | 0            | _                                  |     | -     |
| 7   | OTTE PREYANKA RATU   | 180                   | (2)                                  | R                   | -                      | 04             | -        | 21            | (P)          |                                    | -   | -     |
| *   | COME BONAK SETINBAN  | 100                   | 1                                    | 300                 | -                      | GHO.           |          |               |              | _                                  |     | H     |
| 9   | TOUNDAR SHASHITHARAN   |                       |                                      |                     |                        |                |          |               |              | _                                  | _   | -     |
| H   | GUPEA DOM MOHAN  |                       |                                      |                     |                        |                |          |               |              |                                    |     | -     |
| 1   | CLIPTA PIKESHAALSAFIR  |                       |                                      |                     |                        |                |          |               |              | _                                  | _   | -     |
| 2   | DIDHAY CHRAG KRISHSANATH   | 11                    |                                      |                     |                        |                |          |               |              |                                    | -   | -     |
| 1   | ENDHAY HITESH MADRICKAR  |                       |                                      |                     |                        |                |          |               |              |                                    | _   | L     |
| 4   | HEREAV SALANIL   | 50:                   | Sa                                   | 50                  | -                      | Soil           | -        | se            | Sei          |                                    |     | L     |
| 5   | DADHAY SIDDHARATH KISHOR   |                       |                                      |                     |                        |                |          |               |              | - 3                                | _   | L     |
| 6   | MOHAY TANNAY RAJENDRA  |                       |                                      |                     |                        |                |          |               |              | _                                  | _   | L     |
| †   | SECONDOMINE -  | S REINE               | Ball !                               |                     | No.                    |                | No.      |               |              |                                    |     | M     |
|     | CAMBLE SONAL BABAN   | -                     |                                      |                     |                        |                |          |               |              |                                    |     | L     |
|     | DESUR JAY JITENDRA   |                       |                                      |                     |                        |                |          |               |              |                                    |     | L     |
| _   | DEAN SHEED PATMA ALI ARMED   |                       |                                      |                     |                        | 8              |          |               |              |                                    |     |       |
| -   | SOME DESCANC MARIENDRA   | NO                    |                                      | 10                  | -                      | KA             | -        | bo            | KD           | 11-1                               |     | L     |
| 1   | IZ BAL RAJESH KANESH   |                       |                                      |                     | 0                      |                |          | -             |              | .)).                               |     |       |
| 1   | CHARLES TO BEEN THE  | In ASSESSED.          | TOTAL D                              | SUE S               | I MORE                 | 302            |          | 111111        |              |                                    | 100 |       |
| 3   | LINAGARIYA NIKHEL CEMAMBUU   | H MILES               | PERSONAL PROPERTY.                   |                     |                        |                |          |               |              |                                    |     | Т     |
| 4   |  |                       |                                      |                     | 0.4                    |                |          |               |              |                                    |     |       |
| 5   | WANGAYKAR ABHIBBEK VASANT  | E SHIRE               | NEWS CO.                             | NAME OF             | ( and                  | line sto       | diotes:  | 100           |              | 100                                | 100 | 100   |
| *   | and the state of t | ome                   | m                                    | om                  | -                      | Just           | -        | am            | Om           |                                    |     |       |
| 3   | NOCHERU ANDO   | an                    | (111)                                | m                   | X                      |                |          | NO.           | 1000         | 1980                               | 180 | 100   |
|     | STATE OF STA | IN THE REAL PROPERTY. | Charles of the last                  | New York            | Management of the last |                | -        |               | and the last | No.                                | 1   | T     |
| 9   | NASK ASBIT KAIENDRAN   | -                     | -                                    | -                   | 1 1                    | 1              | 1        |               | -            | -                                  | -   | +     |
| 10  | NAMELAL GUPIA  | -                     | Name and Address of the Owner, where | STATE OF THE PERSON | -                      | REAL PROPERTY. | Con Line | CONTRACTOR IN | STREET,      | -                                  | E   | la la |
| 4   | one of the second second   |                       | SA SERVICE                           | BEECH.              | 100                    | CIE            |          | 100           | 6.5          | DESCRIPTION OF THE PERSON NAMED IN | -   | -     |
| 4   | NANIE REBIRAN KAMEHINDRA   | 43                    | 83                                   | -                   | 40                     | · OF           | -        | MP            | 11,          | -                                  | +   | +     |
| 3   | MEAN / THEIR RANGANATH   |                       |                                      |                     |                        |                |          |               |              |                                    | _   | _     |

| 1    | ALASE AKSHAY ARDY  |             |                 |            |           |       | -                  |            |           |             |               |     |
|------|--|-------------|-----------------|------------|-----------|-------|--------------------|------------|-----------|-------------|---------------|-----|
|      | ANCHAL JATIN VZSODBASMAR   |             |                 |            |           |       | _                  |            |           |             |               |     |
|      | ARAB NEEL  |             |                 |            |           |       | -                  |            | 177       |             |               |     |
| -    | PARCIALE SHEBBAR BAMAKANT  |             |                 |            |           |       |                    |            |           |             |               |     |
| -    | PASHTE MIKITA DIPAK  |             |                 |            |           | -     | STEERING SECTION   | 1005.00    | b milit   | 2860        | 200           |     |
| _    | Aller Street Control   | T SHOW      | THE SH          |            | 经的唯       |       | THE REAL PROPERTY. | HERP       | Section 1 |             |               |     |
|      | PATEL VISIGAGEUMAR DENEMBRAS   |             |                 | 1175-20-10 |           | _     |                    | 0          | 0.1       |             | $\neg$        |     |
| -    | PATIL CHINODAY BAJETH  | -Court      | Const           | -          | Epont     | Low   | Epsil              | tjord      | close     |             | $\neg$        |     |
| -    | PATIL MANUEL ANGUSH  | 100         |                 |            |           |       |                    | _          |           |             |               |     |
| -    | BATHL PASKAL BRAGWAN   |             |                 |            |           |       |                    |            |           |             |               |     |
| -    | PARIL PRANCES VICAS  |             |                 |            |           |       |                    | 0          | Plear     |             | -             |     |
| -    | PANIE RIVA RAJENDRA  | 8000        | Pen             | -          | "bui      | -     | Devil              | -          | leen.     | -           | $\rightarrow$ | _   |
| _    | PATEL SWIMME, AND  |             |                 |            |           |       |                    |            |           |             | $\rightarrow$ |     |
| -    | PAWAR ASHNINI IANIAY   |             |                 |            |           |       |                    |            |           | -           | +             |     |
| -    | PAWAR PRANALI JAGANNATII   |             |                 |            |           |       |                    |            | -         |             | -             | _   |
| -    | PAWAR SURAN SAMBHATI   |             |                 |            |           | 1000  |                    |            | -         |             | -             | _   |
| 61   | PRATAFATI ANANO SHILIEAM   | 1 3         |                 |            |           |       |                    |            |           | -           | $\rightarrow$ | _   |
| 62   | RONE PRATEMEST C   | 3 1.3       |                 |            |           |       |                    |            | -         | -           |               |     |
| 4    | SERVICE OF A COLOR   | III ISSUEDA | TOTAL PROPERTY. |            | 1.00      |       |                    |            | 2 30      | District of | -             | -   |
| 64   |  |             |                 |            | O Francis |       |                    | -          |           | -           | -             | 100 |
| 65   | BOOK TO SEE STATE OF THE PARTY  |             |                 |            |           |       | 313                | 200        |           | See 1       | BEE           |     |
| 64   | REWALE KIRAN LAXMAN  |             |                 |            |           |       |                    |            |           | -           | $\rightarrow$ | _   |
| 61   | SAINDANÉ BASHTBAPAL B.   |             |                 | 0          | 1         | 0     | 0                  | 0          | 0         | -           | -             | _   |
| 68   |  | 192         | -               | 8          | X         | di.   | No.                | 8          | 1         | -           | $\rightarrow$ | _   |
| 69   |  |             |                 |            | 1         | 1     |                    |            |           | Marie I     | 1000          | 365 |
| .19  | Control of the Party of the Par |             |                 |            | 100       | 52 11 | Down.              |            | MES CO.   | SERVICE OF  | Market 10     |     |
| 71   | and the second s |             |                 |            |           | 100   |                    |            |           | -           | $\rightarrow$ | _   |
| 72   |  |             |                 |            |           |       | -                  |            | -         | -           | $\rightarrow$ | _   |
| 73   |  | 9           | /               | 4          | 1         | /     | 8                  | -          | <b>E</b>  | +           | -             | _   |
| 21   | SOUTHA DHAVAL DEVESTI  |             |                 | 1500       |           | -     |                    |            |           | $\vdash$    | $\rightarrow$ | _   |
| . 25 | VOLANKI DIPESH VASANT  |             |                 |            |           |       |                    |            |           | $\vdash$    | $\rightarrow$ | _   |
| 15   | TUDANKAR ANICET DILIP  |             |                 |            |           |       |                    |            | -         | -           | -             | _   |
| 17   | VADRIYANA DI VYESITI DARESH  |             |                 |            |           |       |                    |            |           |             | -             | _   |
| 78   |  | V -         |                 |            |           |       |                    |            |           |             | -             | _   |
| 79   | TADAY ROSET PLANSAKAN  |             |                 |            |           | -     | -                  |            | 3.5       |             | -             | _   |
| 10   | VADAV SILVEENDRA BAJRANCI  | -           |                 | 12         | 10        | 10    | 100                | 10         |           |             |               | _   |
| 11   | CHAUDHAU SYEHA   | She         | -               | She        | (She      | ( an  | Then               | to         | -         | 1           | -             | _   |
| 12   | MANDAL GANESH  |             |                 |            |           | 1     | -                  |            |           |             | -             |     |
| 53   | S ICHARDIKAR IAY   |             |                 | -          | -         | -     | -                  | -          |           |             |               | _   |
| 11   | MADIYE PRATILAMESH   |             |                 |            |           |       |                    | -          |           |             |               | -   |
| 15   | to an armining   |             |                 | 1          | 1 150 160 |       |                    |            |           |             | 2000          |     |
| 100  | CONTRACTOR OF STREET   | W 1953      | 100             | 1          | dan       |       | 2                  | digital in | 102       |             |               |     |
| 17   | Constant of State  |             | 1               |            |           |       |                    |            | 1         |             |               |     |
| 11   | TOTAL DESIGNATION  |             |                 |            |           |       |                    |            | -         |             |               | -   |
| 89   |  | 118         |                 | 2 1        |           |       |                    | -          |           | -           |               | _   |
| -    | NO OF STUDENTS PRESENT   | 10 2        | 1               |            |           |       |                    |            |           |             |               |     |





VIVA Institute of Technology, Virar

|    | BJECT: Protes  |           |        |        |         | - Aun               | 2/018               | 1 /4/18    | 21/9/18                 | P      | C                | T        |
|----|--|-----------|--------|--------|---------|---------------------|---------------------|------------|-------------------------|--------|------------------|----------|
| L  | None   | P\$18     | 8A718  | 10H118 | 91A-118 | 7/1/18              | 47910               | 4 5 15 5 5 |                         |        |                  |          |
| l  | Time   |           |        |        |         |                     |                     | 1          | de                      |        |                  |          |
| 1  | WIARWAL AMESHIK PAWAN  | B         | 92     | 4      | 93      | 4×                  | D                   | - CO       |                         |        |                  |          |
| 1  | AMBRE METESH ADITYA  |           |        |        | -       | ~                   | (A)                 | (2)        |                         |        |                  |          |
| 1  | DAKAA DERAFRAMESII   | 100       | de     | (3)    | B       | P                   | (B)                 | 19         | _                       |        |                  |          |
|    | HEATKAR VINIT VINOD  |           |        |        |         |                     | -                   | -          | +                       |        |                  |          |
|    | DOGLDE AKASM RAYINDRA  |           |        | -      | -       | 453                 |                     | (F)        | P                       |        |                  |          |
|    | CHAUDHARI TRASAD PRADIP  | Œ         | 1      | (9)    | P       | (P)                 |                     | 1          | -                       |        |                  |          |
| i  | DADRILKAR MAYER KRISHNA  |           |        |        |         |                     | -                   | -          |                         | 1      |                  |          |
| ,  | DAKHAVE SALONEE SANDISH  |           |        |        | -       |                     | -                   | -          |                         |        |                  |          |
| 9  | DEVALIA NIRAV KAJESIOKUMAT   |           |        | -      | -       | 0-                  | 20                  | P-10       | PE                      |        |                  |          |
| 19 | DILANGAR ROWN RAIENDRA   | 2.1       | ) PE   | 150    | 1 PD    | PD                  | H                   | 111        | 112                     | -      |                  |          |
| 11 | THANU HARDIK SANDKUMAR   |           |        |        | -       | -                   | -                   | 120        |                         | +      | T                |          |
| 12 | 2 CHARODEUNAL  |           | 1      | 1      | 100     | 10                  | -                   | D          | TO                      |        |                  |          |
| L  | O DEURI AMBUTA SUNL  | 40        | A      | (4)    | 和       | 1                   | -                   | 10         | 1/3                     |        | T                |          |
| 1  | A GADGUL GAYATRI SUNIL   |           |        |        | -       | -                   | -                   | -          |                         | 1      |                  |          |
| i  | IS CAIKWAD SANTOSH GORAKSI   |           |        | -      | -       | +                   | 1                   |            |                         |        |                  |          |
| 1  | 16 GAWAND ANIKET GURLINATH   |           | 1      | 1      | 2 0     | 10                  | 12.                 | (2)        | (PL                     | _      |                  |          |
| ,  | 17 GITE PRIYANKA KAJU  | 3         | - 13   | 七里     | 1-9     | 19                  | (F)                 | -04        | 100                     | +      |                  | 9        |
| 1  | 18 GOSTE, ROBAK NITINBHAL  |           | 1000   | -      |         | -                   | -                   | +          |                         |        | 1                |          |
| t  | III GOUNDAR SHASHIDHARAN   |           |        |        | -       | -                   | +                   | +          | _                       | +      |                  |          |
| r  | 28 GUPTA DOPI MORAN  |           |        |        | -       | -                   | -                   | +          | -                       | +      | +                |          |
| ŀ  | 21 GUPTA PIRESH MUSAPIR  |           |        |        | -       | +                   | -                   | -          |                         |        |                  | $\top$   |
| t  | 22 JADHAY CIERAG KRISINANA   | TH        |        | -      | -       | +                   | -                   | -          |                         | +      | 1                |          |
| t  | 23 JADRAY HITESH MADHUKAN  |           |        |        | -       | 10                  |                     | S          | 2 0                     | .      | -                |          |
| Ì  | 24 DADHAY SALAVIL  | 9         | S 20   | ک سے   | en Se   | × 8                 | w -                 |            | ~   ~                   | ^      |                  | $\neg$   |
| Ì  | 25 JADHAY SIDDRAKATH KISIK   | MI.       |        |        | -       | -                   | +                   | -          |                         | 1      |                  |          |
| Ì  | 26 JADHAV TANNAY RAJENDR   | Α         |        |        | -       | -                   |                     |            | 100                     |        | 100              | 100      |
| 1  | 17 CONTRACTOR OF THE PARTY OF T |           |        |        |         | STATE OF THE PERSON |                     |            |                         |        |                  |          |
| 1  | 28 KANBLE SONAL BADAN  |           |        | _      | -       |                     | -                   | -          | _                       | $\neg$ | _                | $\neg$   |
| 1  | 29 KESUR JAY HTENBRA   |           |        | _      | -       | -                   | _                   | _          |                         | $\neg$ | 1                |          |
| ı  | 30 KHAN SHREEN FATMS ALI   |           |        |        |         | OK                  | 0 1                 | D .        | KD 9                    | 5      | $\neg$           | $\neg$   |
| í  | 31 KORE DEWAND MARENDRO  | K         | 2      | to K   | PA      | OK                  | -                   | 3          | 1                       | ~      |                  |          |
|    | 32 KUBAL RAJESH RAMESH   |           |        | -      | -       |                     | THE REAL PROPERTY.  | 100        |                         | SEC.   |                  |          |
|    | 33 WALLSAMED HOLD OF   | 1/2/2     |        |        |         |                     |                     | -          |                         |        |                  |          |
|    | 34 LUNAGARIYA NIKHIL CHIN  | IANSHAI   |        |        |         | -                   |                     |            |                         |        |                  |          |
|    | 35 MANDAVKAR ABHEREK V   | ASANT     |        | 20     |         |                     | STATE OF THE PERSON |            | 200                     |        | 200              | -        |
|    | 36 TENEST   110  |           |        |        | - 1     | -00                 | m ()                | 7770       | 000                     | m      |                  |          |
|    | 37 NAK NEERALARVIND  | r         | 100    | ത്ത    | ा ज्व   | 17)                 | 1917 10             | 2.0        | 000)                    | (00)   | F. 3             | 100      |
|    | за при постолужина дали  |           | 132/14 | 199    |         |                     |                     |            | ALC: N                  | 11223  | MP20             |          |
|    | 39 NAIR ASHIT RAJINDRAN  |           |        |        |         | -                   | -                   |            |                         |        | -                | $\vdash$ |
|    | 48 NANDLAL CUPTA   |           |        |        |         | 100                 |                     |            |                         | W      | 100              | 100      |
|    | 41 10-200 HALL SHEW  | USAGIO: 1 |        |        |         | NAME OF             |                     |            | A STATE OF THE PARTY OF | -      |                  | -        |
|    | 42 NANHE ROSHAY RAMCHA   | -         | A .    | 1      | 1 2     | P                   | -                   | M          | NP.                     | 1      | -                |          |
|    | 7 BL NIKAM ASHISH KANSANA  |           |        |        |         |                     |                     |            |                         | -      | THE R. LEWIS CO. | 188      |
| -  | EUNIAL ST  | 13 11     | To the |        | 200     | 14 1                |                     | 1000       |                         | W.     |                  | التلسا   |

| 45  | PALASE AKSHAY AREN  |                  |           |         | - 7     |               |           | -      |           |               | _       |
|-----|---|------------------|-----------|---------|---------|---------------|-----------|--------|-----------|---------------|---------|
| -   | FANCHAL JATIN VINODICUMAR   | -                |           |         |         |               |           |        | -         | -             | +       |
|     | PARAS NELL  | -                |           |         |         |               |           |        | -         | $\vdash$      | +       |
|     |   |                  |           |         |         |               |           |        |           | $\vdash$      | -       |
| 127 | PARNALE SHUBHAM RAMAKANT  | -                |           |         |         |               |           |        |           |               | _       |
|     | PASHTE NIKITA DIPAK   |                  | 1000      | 18 18   | and a   | THE PARTY     |           |        |           |               |         |
| 56  | Variation of the first of the   | Contract.        |           |         |         |               |           |        |           |               | _       |
| -   | PATEL VISHALKUMAR DINEHHIMAI  | Pour             | One       | Au-     | Our     | Com           | Ross      |        | Course    |               |         |
| 52  | PATEL CHENNAY RAIESR  | Liper            | Lifer     | City-   | -       | -/-           |           |        |           |               |         |
| 53  | PATE MAYURANKISH  |                  |           |         |         |               |           |        |           |               |         |
| 54  |   |                  |           | -       |         |               |           |        |           |               |         |
| 55  | PATE PRANIALI VILAS   |                  |           | 0       | -       |               | Parer     | FOLES  | tail      |               |         |
| 56  | PATEL RIVA RAJENDRA   | Per              | Kerr      | Row     | Por     |               | F.CUFF    | Char   | Con       |               |         |
| 57  | PATEL SWAPNIL ANE.  |                  |           |         |         |               |           |        |           |               |         |
| 58  | PAWAR ASHWINI SANUAY  |                  |           |         |         |               |           |        |           |               | +       |
| 59  | PANOR PRANALI INGANNATH   |                  |           |         |         |               |           |        |           |               | +       |
| 60  | PAWAR SAHCE SAME RAWAR  |                  |           |         |         | -             |           | 43     | - 2       |               | +       |
| 51  | PRADAPATI ANANO SHRIRANI  | P                | A         | A       |         | P             | A         | A      | 40        |               | +       |
| 62  | RANE PRATHORESH C   |                  |           |         |         | n at -        |           |        |           | _             | -       |
| 63  | CONTRACTOR OF THE PARTY OF THE |                  |           |         | Espent. | 2.00          |           | F 14.8 | EGEL      |               | 200     |
| 64  | RAUT ISHAN AMOL   |                  |           |         |         |               |           |        |           |               | _       |
| 45  | CONTRACTOR OF   | li man           |           | 18.14   |         | 7.25          | 10-01     |        | - 30      | 10 H          | 鼓室      |
| 66  | REWALE KIRAN LAXMAN   |                  |           |         |         | 100           |           |        |           |               | $\perp$ |
| 67  | SAUNDANE BASHTRAPAL R.  |                  | -         |         | -       | 0             | 0         | 0      | _         |               |         |
| 68  | SHAH KRUTI BAJEEV   | *                | SM        | ( C     | 8       | CAR           | 8         | M      | 8         |               |         |
| 69  | SHAR VISIT BHARATKIMAE  | 0                |           | - c     | -6      | - 100         |           |        |           |               |         |
| 70  | \$138450 8-15000000000  |                  | 11.45     | I Fell  | 1301123 | <b>326</b> 18 |           | IT EST |           |               | 图 05    |
| 71  | SUNCH HIMANIBU PRASHANT   |                  |           |         |         |               |           |        |           |               |         |
| 72  | SENGH PRINCE PINTU  |                  | 5 - 1     |         |         |               |           |        |           |               |         |
| 73  | SOCIALE OMKAR PRAMOD  | 42               | -8        | 9       | -82     | 83            | 48        | B      | 9         |               |         |
| 24  | SOUTRA DHAVAL DINESH  | 100              | 1         |         | -1002   | CHICADO.      | SMI - 200 | -0-25  | 970 3124  |               |         |
| 25  | SOLANKI DIPESH VASANT   |                  |           |         |         |               |           |        |           |               |         |
| 76  | EGDANKAR ANIKET DILIP   |                  |           |         |         |               |           |        |           |               |         |
| 77  |   |                  |           |         |         |               |           |        |           |               | +       |
| -   | WAGDIMARE RUCHTA N  |                  |           |         |         |               | 9 3       |        |           |               |         |
| 79  |   |                  |           |         |         |               |           |        |           |               | +       |
| 80  |   |                  |           | 1 37    | 5       |               | 7 (4)     | - 33   |           |               | +       |
| 81  | CHAUDHARI SNEHA   | Ohn              | (1)       | Che     | Gl.     | (dan          | The       | 180    | 10        |               | +       |
| -   | MANDAL GANESH   | -                | 0.00      | 200     | F-S-A   | COR CASE      | C OF GL   | Carte  | Species . |               | -       |
| 83  | DIARDIKAR IAY   |                  |           |         |         |               |           | -      |           |               | -       |
| -   | MADIYEPRATIOMESH  |                  |           | -       |         |               |           |        |           |               | -       |
| 84  | Man William   | -                | No.       |         | 100     | 20201101      |           | -      | -         |               | -       |
| 85  | IS O CALL CO. I   | Total Section    |           | -       |         |               |           |        |           | -             |         |
| _   |   | of last division | SAMPLE IN | C-3 P-4 |         | 100           |           |        | 100       | Sales In      |         |
| 17  | GAIKWAD AKASH   | -                |           |         |         |               |           |        |           | $\rightarrow$ |         |
| 48  | CHAUDHARI MISHANT   |                  |           |         |         |               |           |        |           |               |         |
| 10  | OILL VINAY  NO OF STUDENTS PRESENT  |                  |           |         |         |               |           |        |           | 4             |         |

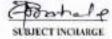


SUBJECT INCHARGE

# VIVA Institute of Technology, Virar T.E. ELECTRICAL (2018-2019)

| T  | BJECT INCHARGE: _   | Kutan    | heatas             | 25.4.18 | 17/9/18  | 57/418    | 7 A 0.18         | Frioris.                             | 7 /18              | P   | -            | -        |
|----|---|----------|--------------------|---------|--|-----------|------------------|--------------------------------------|--------------------|-----|--------------|----------|
| 1  | Nests   | MATAIN   | 16/7/18            | 24/1/10 | on pro-  |           |                  |                                      |                    | _   | -            | -        |
| 4  | Ties  | 100.     | 100                | A       | (D)  | (A)       | A                |                                      |                    | _   | _            | -        |
| 4  | MOSERAL AMERICA, PASSAN   | (4)      | B                  | 190     | 9  | -         | J. Co.           |                                      |                    |     | _            | -        |
| 1  | AND TO METERS ABILTY'S  | 1        | _                  | (a)     |  | 0         | 9                |                                      |                    |     |              | -        |
|    | DEACHE BRITISH SANSHESH   | 38       | -                  | B       | -  | -         | (4)              |                                      |                    |     | _            | _        |
|    | HIGANAR COST VOCE   | -        | -                  | -       | -  |           |                  |                                      |                    |     |              | _        |
|    | MORE STE ARASH EXTENSION  | 500      | 60                 |         | 6  | (0)       | 9                |                                      |                    |     |              | _        |
|    | CHACOLAR PROBESTRATOR   | CD.      | 9                  | -       | 4  | -         | -                |                                      |                    |     |              |          |
|    | DADRIKARMAYCE KEESINA   |          |                    | -       |  |           |                  |                                      |                    |     |              |          |
|    | DAKHAYE BALONEY SANDESH   |          | -                  | -       | -  |           |                  |                                      |                    |     |              |          |
|    | DEVALUANBAV RAJESIBEDNINI   |          |                    | 0.00    | -  | 0 6       | PD               |                                      |                    |     |              |          |
| ij | CHANGAR BORING RAIDNDRA   | 120      | -                  | PD      | 5  | 80        | FP               |                                      |                    |     |              |          |
| i  | DHANT HARDIK NANDIGUMAR   |          |                    |         |  |           |                  |                                      |                    |     |              |          |
| 1  | DHAROD KUNAL  |          |                    | 10      | 185  | 1         | 4                |                                      |                    |     |              |          |
| 1  | DISTURNAMENTA SI MIL  | A        | -                  | 3       | 40   | D         | 40               |                                      |                    |     |              |          |
|    | GADGEL GAYATRI SUNE.  |          | _                  |         |  | -         |                  |                                      |                    |     |              |          |
| 1  | GARCKAD SANTONIN GORGAKII   |          |                    |         |  |           |                  |                                      |                    |     |              |          |
| 4. | GAWAND ANKET GUILLNATH  | 10       |                    | -       | 100  | 6         | A)               |                                      |                    |     |              |          |
| Ť  | GITE PHYANKA RAIU   | (P)      | -                  | 1       | 8  | 80        | 44               |                                      | _                  |     |              |          |
| 1  | GOVEL BONAS INTENDITAL  | 100      |                    |         | 100  |           |                  |                                      |                    |     |              |          |
| 9  | GOLINDAR SHASHIDHARAN   |          |                    |         |  | -         | -                |                                      |                    |     |              |          |
| ø. | GUTTA GOM MOHAN   |          |                    |         |  | -         | -                | -                                    |                    |     |              |          |
| i. | GFFTA PIKESH MUSAFIK  |          |                    |         |  |           | -                |                                      |                    |     |              |          |
| 2  | ADDAY COPAGE KENDY (SATE  |          |                    | -       | -  |           |                  |                                      |                    |     |              | _        |
| 3  | ANDREW HITCHIS SCADIIU KAR  |          |                    |         |  | -         | -                |                                      |                    |     |              |          |
| 4  | DADHAY SALANIL  | Shi      | 200                | -       | Sai  | -         | Sei              |                                      |                    |     |              |          |
| 5  | ALDRAY STREET, ALTO KISHOR  |          |                    |         |  |           |                  |                                      |                    |     |              | -        |
| s  | JADHAY TANMAY KAJENDRA  |          |                    |         |  |           | -                | A STATE OF                           | THE REAL PROPERTY. | 100 | ables:       | 廊        |
| ,  | ORGANICAL STREET  |          | 925                |         | REAL PROPERTY.   |           | Mar and the      | A DESCRIPTION OF THE PERSON NAMED IN | DOCUMENT OF        |     | CHE STATE OF | -        |
| ,  | KAMBLE SOVAL BABAN  |          |                    |         |  |           |                  | -                                    | _                  | -   |              |          |
| ,  | KESCEJAY IITENDRA   |          |                    |         |  |           |                  |                                      | _                  | _   |              | -        |
| ,  | COLANSHIRET NEATMA ALL AIMED  |          |                    |         |  | -         | 11.5             |                                      |                    |     |              | $\vdash$ |
| e  | KORE DEWANG MARENDAA  | MD       | KO                 | Ko      | )  | KD        | KO               | -                                    |                    | -   | $\vdash$     | -        |
|    | KUBAL KARSIT KUNSESH  |          | 1,005              |         |  |           |                  |                                      | -                  | -   | -            | -        |
| 3  | nacy considered and   | 1 4 5 4  |                    | STEEL   | Gall Inch  | TEST      | 10.25            | THE SAME                             |                    |     | NE-S         | F        |
| 4  | LUXAGARIYA NEGEL CHEVANBIAN   |          |                    |         |  |           |                  |                                      | _                  | -   | -            | ⊦        |
| 5  | MANDAVKAR ABIOSHEK VASANT   |          |                    |         | 1  |           |                  |                                      |                    | _   |              | -        |
|    | Marin A Section 19  | 1 SANS   | N-THE              |         | 1000   |           |                  | HE2                                  |                    |     | 100          | P        |
| 5. | NOR NEERAL APPOINTS   | m        | m                  | -       | UUS  | am        | m                |                                      |                    |     | -            | -        |
|    | TOTAL STREET, | S MAIN   | THE REAL PROPERTY. |         |  | 350       | 100              | HEE                                  | 3-13               |     | 1            | 丰        |
|    | NULL ASSET BARCADRAN  |          |                    | 1       | 1-14   |           |                  |                                      |                    |     |              | 1        |
| 9  |   |          |                    |         |  |           |                  |                                      |                    |     |              | L        |
| 3  | NISDIAL GLEIA   | A CHANGE | ild tim            | BEN'ET  |  | No.       |                  |                                      | hard's             |     | No.          | 1        |
| 1  |   | 40       | -                  | SP      | 17   | 40        | A                |                                      | 100                |     |              | 1        |
| =  | NAVHE ROSHAN RAMCHANORA   | 14       |                    |         | 1  |           |                  |                                      |                    |     |              | L        |
| 5  | NEAM ASHESH RANGANATH   | -        | CHRON              | UNK STO | No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street, | A SECTION | S I (DESCRIPTION | SCHOOL SECTION                       | 1000               | 1   | E            | 9        |

| 4   | SCASE ACCIDAN ARESS  |                    |  |                |            |   |           |                 |           |                |        |
|-----|--|--------------------|--|----------------|------------|---|-----------|-----------------|-----------|----------------|--------|
|     | SANCHAL JATEV STRUBNISHING   |                    |  |                |            |   |           | -               |           |                |        |
| -   | ANABAREL.  |                    |  |                |            |   |           | -               |           | _              |        |
| -   | PARNALE SHUBBAM RUMAKANT   |                    |  |                |            |   |           | -               |           |                |        |
| 45  | PASHTE NIKITA DUNK   |                    |  |                |            | -                                       | 1200000   | REAL PROPERTY.  | GOVERN    | <b>BEE</b> 100 | SE     |
| 10  | Manager Paper 172 St   | THE REAL PROPERTY. | STATE OF   |                | 100        | 15 July 1997                            | 10000     | STREET, STREET, | - Charles |                |        |
| 1.  | PAYEL SIGNALISATION OF DESCRIPTION OF  |                    |  | y 3            |            |   |           | Com             | 0. 1      |                |        |
| 0.  | CATE CORNECT A MISSE   | Cons               | Cost   |                | Epens      | CACH                                    | -         | Chin            | - Post    |                |        |
| 10  | PATA MAYLE AMERIC  |                    | The state of the s |                | -          |   | -         | -               |           | _              |        |
| 51  | PATE PANKALIBHADWAN  |                    |  | 1              |            |   |           | -               | _         | -              |        |
| 55  | PACE PRANTILEVEN   |                    | J  |                |            |   | -         |                 | D.        |                | $\top$ |
| 55  | PATE RIVE RANGEDER   | Phi                | "Pour  | _              | Post       | -                                       | Yeur      | -               | Pact      | -              | _      |
| 97  | PACE SHAPPILANE  |                    |  |                |            |   |           | _               | -         | +              | +      |
| -   |  |                    |  |                |            |   |           |                 |           | -              | +      |
|     | PANAR BRANALTINGANNATH   |                    |  |                |            |   |           |                 |           | _              | +      |
| 15  | PAYA SALSICIANS SAMISHAD   |                    |  |                |            |   |           |                 |           | -+-            | +      |
| 66  | PEAIRPAIL MAND SHERAM  | P                  | 1  | 10             | -          | P                                       | -         | 42              | P-        | _              | +      |
| 61  | ROW PRATIMENIC   | -                  |  |                |            |   |           |                 |           | -              | -      |
| 62  | AND DESCRIPTION OF THE PARTY OF | III USANII         | TO SERVE   |                | EN ROLE    | 1.0                                     | The state |                 | 100       | DE B           |        |
| 43  | 200 C C C C C C C C C C C C C C C C C C  | -                  |  | Valle -        |            |   |           |                 |           | -              | -      |
| 14  | The state of the s |                    | De-Hotolia   | 100            | DAME:      |   |           |                 | teres     |                |        |
| 115 | HEWALT KIRAN LASKAN  | No. of Concession, |  |                |            |   |           |                 |           | _              | +      |
| 64  |  |                    |  |                | 1          | -                                       | -         | 0               | _         | _              | -      |
| 67  | UUM KSUTI RAIDEV   | 8                  | -  | R.             | 18         | K                                       | *         | #               | 12-       |                | +      |
| 18  |  | n.                 |  |                | 1          | Diff.                                   |           | -               |           | -              | -      |
| 49  | The state of the s | 5 OM               | 0.25   | <b>100</b>     |            |   |           | 100             | X 1154    | 100            | 五 能    |
| 10  | 100000000000000000000000000000000000000  | of contemporary    | THE REAL PROPERTY.   | CONTRACTOR IN  | -          |   |           | 111-111-        |           |                | _      |
| 71  |  |                    |  |                |            |   | -         |                 |           |                | -      |
| 72  |  | 10                 | -  | -07            | 20         | @                                       | 8         | 0               | -         |                | -      |
| 17  | The second second  | 130                | 1  | 100000         |            |   |           |                 |           |                | _      |
| 74  |  | -                  |  |                |            |   |           |                 |           |                |        |
| 75  |  | -                  |  |                |            |   |           |                 |           |                |        |
| 76  | VADRIVANA DIVYESH RABERI   | 1                  |  |                |            |   |           |                 |           |                |        |
| -   |  |                    |  |                |            |   |           |                 |           |                |        |
| 75  |  |                    |  |                |            |   |           | Time            |           |                |        |
| 78  | The second second  | 70.00              |  | 80.07          |            |   | 100       | lo .            | Seedle 1  |                |        |
| All |  | Chan               | -  | Q.             | Oth        | -                                       | Cha       | -               | Sh-       |                |        |
| 31  |  | 64.70              |  | 22-            |            |   |           |                 |           |                |        |
| A2  |  |                    |  |                |            |   |           |                 |           |                | J. I.  |
| 10  |  | -                  |  |                |            |   |           |                 |           |                |        |
| 81  | The second secon | DE DESIGNA         | 1003510  | 10500          | THE PERSON | 1 Samuel                                | 0.0       |                 | 1000      | 200            | AF E   |
| 55  |  |                    |  | 1              |            | 100                                     |           | ILAN            |           |                |        |
| 16  |  | IN HEALTS          | HIS STATE  | Name of Street | Table 1    | 100000000000000000000000000000000000000 | -         |                 |           |                |        |
| **  | A CONTRACTOR OF THE PARTY OF TH | -                  | -  |                | +          | -                                       | 1         | 1               |           |                | 1      |
| 65  | and the same of th | -                  | -  | -              | -          |   |           |                 |           |                | +      |
| 40  | SO OF STUDENTS PRESENT   | _                  | -  |                | -          | -                                       | -         | -               | -         | -              | -      |





# VIVA INSTITUTE OF TECHNOLOGY

(Affiliated to University of Mumbai; Approved by AICTE & DTE)

Veer Sayarkar Marg, Shirgaon, Virar 401303

Department of Electrical Engineering

# CERTIFICATE

This is to certify that,
Mr./Ms. Gite Priyanka Raju

of TE Electrical

has successfully completed value added course on "ELECTRICAL SAFETY PRACTICES" organized by

**Department of Electrical Engineering** for A.Y. 2018-19 from 6<sup>th</sup> Jul 2018 to 5<sup>th</sup> Oct 2018.

Formere

Prof. Pratik Mahale

Course Coordinator

Been

Prof. Bhushan Save Head of Department



# **VALUE ADDED COURSE**

| Name of Course:       | ELECTRICAL<br>INSTALLATION | Branch:             | Electrical Engineering |
|-----------------------|----------------------------|---------------------|------------------------|
| Duration:             | 30 Hours                   | Instructors:        | Sushant Bansal         |
| Date of Commencement: | 2 Feb 2019                 | Date of conclusion: | 22 April 2019          |

|           | Course Outcomes  |
|-----------|--|
| Upon succ | cessful completion of the course, the student must be able to                                  |
| CO1       | To understand practices followed in industries for safety of equipment and personnel.          |
| CO2       | To understand basic electrical and electronics concepts, devices and their electrical ratings. |
| CO3       | To understand power transfer systems and their installation practices in industry              |
| CO4       | To understand documentation required for installation.   |

## **Course Objectives**

The objective of this vocational course is to make students understand various installation practices followed in industries for electrical equipment. This course is designed to make students job-ready for the industry by instilling multiple skills in them like electrical drawing and reading, IEEE and IS standards followed in industries, documentation for industries, etc.

|                            | Syllabus   |       |
|----------------------------|--|-------|
| Unit No.                   | Contents   | Hours |
| 1                          | Health and safety industry practices The regulations, laws and guidance documents associated with the electrical industry, Use equipment on a construction site, Follow safety procedures, practices and policies on construction sites, Carry out electrical safety procedures and practices, Understand environmental protection, structure and roles of individuals and organizations | 6     |
| 2                          | Electrical science Understand direct current principles, Understand electromagnetic properties associated with devices under installation, Understand electronic components required for installation with data sheets and drawings.   | 6     |
| At: Shingson<br>Post Virg. | Electrical installation Tools commonly used in electrical installation practices, Erect cable containment/management systems used in electrical installation, Install wiring systems and supports used in electrical installation activities, Install accessories and terminate using a range of connections.  | 6     |

| 4 | Power transfer technology Understand how electricity is supplied and the characteristics of consumer's equipment, Understand isolation and protection, Understand automatic disconnection of supply, Understand the principles of final circuits | 6 |
|---|--|---|
| 5 | Technical documentation with clients Understand technical information with help of IEEE standards, manufacturerguidelines, Drawings used to plan electrical activities, Types of financial information, Types of handover information            | 6 |

|      | Learning Resources   |  |
|------|--|--|
| Text | Books:   |  |
|      | <ol> <li>Trevor Linsley, "Basic electrical installation work", 1989</li> <li>J. B. Gupta, "A Course in Electrical Installation Estimating and Costing", 2013.</li> </ol> |  |
| Refe | 2. J. B. Gupta, "A Course in Electrical Installation Estimating and Costing", 2013.  Reference Books:  |  |
|      | 1. Tarlok Singh, "Installation Commissioning & Maintenance Of Electrical Equipments", 2013 2. Brian Scaddan, "Electrical Installation Work", 2015                        |  |



SUBJECT: Value Added come B.E. ELECTRICAL (2018-2019)
SUBJECT INCHARGE: Subher Horror

| R.  | Name                      | M/f/18  | 1/2/18 | ₹12n8       | M12/18 | 11/318 | /4 )18            | PF 718  | / / 1/18 | P   | L | , |
|-----|---------------------------|---------|--------|-------------|--------|--------|-------------------|---------|----------|-----|---|---|
| No. | Time                      | L.      |        |             |        | 20     |                   |         |          | _   |   | _ |
| 1   | AMBRICE SNEHAL MARESH     | A       | 0      | An          | 97     | A      | 1                 | 1       | 0        | 8   |   | _ |
| 2   | ASODARIYA JAYDEEP K.      | 1,200   |        | 100         | VIII S |        |                   |         |          |     | _ | _ |
| 1   | BAJUL AKSHAY VILAS        |         |        |             |        |        |                   |         | 2.4      | 200 |   | _ |
| 4   | BARAT DIPAK NAVASHA       | 000     | 000    | 000         | 0      | 00     | 600               | 80      | PP       | 3   |   | - |
| 5   | BARI HIMALAY DAYARAM      | 0.000   |        | -           |        | e Dine |                   |         |          |     |   | - |
| 6   | BRATT ANURAG K.           | 1 7     |        |             |        |        |                   |         |          |     |   | - |
| 7   | BHAVSAR KAUSTUBH M.       |         |        |             |        |        |                   |         | ,        | 100 |   | _ |
| 8   | BOBHATE PRASAD LAXMAN     | 187     | D      | RD          | KD     | an     | BO                | 8P      | KP       | 8   |   | _ |
| 9   | BONDRE HEMINDRA RAMESH    |         |        | 01          | -1     | 7      | *                 | 1       | ,        |     |   |   |
| 10  | CHAKOR KAMESH PANDURANG   |         |        |             |        |        |                   |         |          |     |   | _ |
| 11  | DESAI RAMEHANDRA PUNATI   | - 1     |        |             |        |        |                   |         |          |     |   |   |
| 12  | DESAL SIDENESH SURESH     |         |        |             |        |        |                   |         |          |     |   |   |
| 13  | FAKIR ALISHA ADDULKADAR   |         |        |             |        |        |                   |         |          |     |   |   |
| 14  | GARDI ADITI VILAS         | F       | A.     | A           | 4      | AC     | 4                 | ge      | 40       | 8   | _ | _ |
| 15  | GAWDE HARISH PANDURANG    |         |        |             |        |        |                   |         |          |     |   | _ |
| 16  | OHOSALKAR MAYUR R         |         |        |             |        |        |                   | 9       |          |     |   | _ |
| 17  | GODEKAR SIDDHESH SANTOSH  |         |        |             | 1      |        |                   |         |          |     |   | _ |
| 18  | GUPTA AJAY SHAMBHUNATH    |         |        |             |        |        |                   |         |          |     |   |   |
| 19  | GUFTA DILIPKUMAR S.       | Dens    | Ban    | Ber         | Du     | m      | Du                | Du      | an       | g   |   | - |
| 20  | GUPTA RAHUL RAMPRASAD     |         |        |             |        |        | 15                |         |          |     |   | _ |
| 21  | GUPTA ROBIT RAMDAYAL      |         | 7/14   |             | 10.0   |        |                   |         |          |     |   |   |
| 22  | GURAY ANKET SANIAY        |         |        |             |        |        |                   |         |          |     |   |   |
| 13  | HAZAKE PRACHI PURUSHOTTAN |         |        |             | -      | 0      |                   |         |          |     |   | _ |
| 24  | JAISWAR SUMET SHIVKUMAK   | de      | the    | de          | de     | de     | fu                | Re      | 800      | X   |   | L |
| 25  | KADAM ADINATH SUBBASH     | -       | 0      | 37788       |        | -      | 200               | -       |          |     |   | L |
| 26  | KADAM TANMAY S.           |         |        |             |        |        |                   |         |          |     |   | L |
| 27  | KAMBLE CHETAN YUAY        |         |        |             |        |        |                   |         |          |     |   | L |
| 28  | KAMBLE SANKET VITIGAL     |         |        |             |        |        |                   |         |          |     |   | L |
| _   | KASBE SHARAD DAMU         | 1       |        |             |        |        |                   |         | 27275    |     |   | L |
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| 30  | KUMAYAT MONALI RAJENDRA   |         |        |             |        |        |                   |         |          |     |   |   |
| 33  | KUSHWAHA DEEPAK B.        |         |        |             | . 57   |        | H                 |         |          |     |   |   |
| 14  | MAKWANA HARDIK H.         | m       | m      | m           | m      | m      | m                 | ma      | m        | 80  |   |   |
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| 36  | MORILE SHANTANUS.         |         |        |             |        |        |                   |         |          |     |   |   |
| 200 | MURKUTE MORIT SUDESH      |         |        |             |        |        |                   |         |          |     |   |   |
| 38  | NAIK PRANALI PRAMOD       |         |        |             | TEST.  |        |                   | 1       | 9        |     |   |   |
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| 44 | PAWAR MAYUR BABUSING    |       |    |     |      |        |        |       |      |     |  |
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| 45 | RALSUMIT SUNE.          | 1     | 0  |     |      |        |        |       |      |     |  |
| 46 | RANE ABHISHEK KIUSHNA   |       |    |     |      | 1      |        |       |      |     |  |
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| 48 | RAYANI SHAILESHKUMAR R  |       |    |     |      |        |        |       |      |     |  |
| 49 | SALMANI INTEZAR ALLI L. |       |    | 7   |      |        |        |       |      |     |  |
| 50 | SAWANT SIDOHESH TUKARAM |       |    |     | . 7  |        |        |       |      |     |  |
| 51 | SHAH KINJAL RASHMIKANT  |       |    |     |      |        |        |       |      |     |  |
| 52 | SHAIKH REHAN MOHD F     |       | 6  |     |      |        |        |       |      |     |  |
| 53 | SINGH DEEPAK M.         |       |    |     |      |        |        |       |      |     |  |
| 54 | SINGH DIBESH DHANANIAY  | SP    | KP | 80  | 60   | RD     | 80     | AP    | 8D   | 8   |  |
| 55 | SINGH OMPRAKASH RANJEET |       |    |     |      |        |        | -     |      |     |  |
| 56 | TAMORE HIMANSHU I.      |       |    |     |      |        |        |       |      |     |  |
| 57 | TAMORE KALPESH HEMANT:  |       |    |     |      |        |        |       |      |     |  |
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| 60 | TEJAM VIKRANT MANGESH   |       |    |     |      |        |        |       |      |     |  |
| 61 | TELI SWAFNIL NANDKISHOR |       |    |     |      |        |        |       |      |     |  |
| 62 | UPADHYAY ROHAN ARVIND   |       |    | V   | 4    | ( = 0) |        |       |      |     |  |
| 63 | VAIDYA RAHUL RAIAN      |       |    |     |      |        |        | -0.5  |      |     |  |
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| 66 | WALAJAY ARUN            | 1     |    |     |      |        |        |       |      |     |  |
| 67 | WATUMBAKE ASHITOSH      | 3 7   |    |     | E    |        | Per    | ]     |      |     |  |
| 68 | YADAV AKASH RAJMANI     |       |    |     |      |        |        |       |      |     |  |
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| 70 | ZANJE SHUBHAM MADBUKAR  | 73    | 20 | 75  | 25   | 25     | 30     | 23    | M    | 8   |  |
| 71 | ZIMAL RISHIKESH         |       |    |     |      |        |        | إلييا |      |     |  |
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| _  | NO OF STUDENTS PRESENT  | 15    | 15 | 15  | 15   | 15     | 15     | 15    | 11   |     |  |

SUBJECT INCHARGE



# VIVA INSTITUTE OF TECHNOLOGY

(Affiliated to University of Mumbai; Approved by AICTE & DTE)

Veer Savarkar Marg, Shirgaon, Virar 401303

Department of Electrical Engineering

# CERTIFICATE

This is to certify that,
Mr./Ms. Gupta Dilipkumar S
of BE Electrical
has successfully completed value added course on

"ELECTRICAL INSTALLATION"

organized by

Department of Electrical Engineering

for A.Y. 2018-19 from 14 FEB 2019 to 1 April 2019.

Surly

Bess

Course Coordinator

Head of Department





# VIVA INSTITUTE OF TECHNOLOGY

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# CIVIL ENGG. DEPARTMENT



#### **SEMESTER VIII**

**Course Name: Microsoft Project Manager** 

Academic Year: 18 - 19

Resource person: Ms. Ramya Raju

Conducted as per time table for the respective subject

Hours: 30

### **Objectives:**

- 1. Plan for a project in detail.
- 2. To use templates which creates projects in project 2017
- 3. To create, manage, schedule and track all the imputed resources
- 4. To create, manage, assign and track tasks of all inputted resources
- 5. To work with deadline and constraints
- 6. To use dependencies to help schedule tasks
- 7. To run reports

#### **Course Outcomes**

At the end of the course, learners will be able to understand:

- 1. The functions involved in software related to civil engineering projects.
- 2. How to prioritize tasks, define expectations and prepare schedule.
- 3. Will know tracking and managing resources throughout the project.
- 4. To create and tracking budgets and sharing calendars with the team.
- 5. Learn about risk management involved in project management.





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### CIVIL ENGG. DEPARTMENT



#### **Detailed Syllabus**

### Chapter 1: An Introduction to Project Management............. 03hours

Recognize when to use project management, role as a project manager is to deliver a project, communications, influence, and careful use of authority all play a major factor in the support you receive to complete the project, Project managers frequently find themselves with the challenge of adding new scope to a project with an already tight timeline. Typically, the job of the project manager is to work with their team to determine what this new scope will mean and how it will affect the project, building and tracking project schedules.

### Chapter 2: The Microsoft Project User Interface......05 hours

To recognize best practices when running ms project for the first time, microsoft project user interface, the ribbon area icons, tabs, and access to the backstage, microsoft project scheduling engine, preparing a new project, estimating the project, ribbon actions (icons) you may need to perform within microsoft project, backstage is a full-screen area that allows you to open, save, share, and print your project, using views and tables

# Chapter 3: The Microsoft Project Scheduling Engine .......06 hours

constraint based scheduling, calculates dates for you based on constraints you place on tasks and resources, critical path and user-controlled scheduling, user-controlled scheduling can effectively break the ability to identify the critical path because durations, start dates, and finish dates are not required when using this feature, configure project options, microsoft project offers many options for you to configure the user interface, scheduling engine, and task tracking for your project most of these

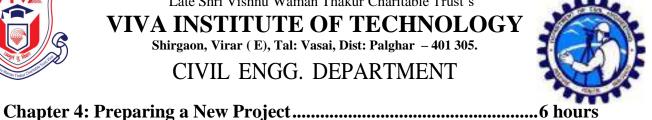
options are located in the backstage using the options menu item.



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| Create a new project before you create a new project, make sure you have all the   |
|--|
| project options configured as you want them unless you have a unique reason to do  |
| otherwise, it is a good practice to start with a blank project configure a project |
| calendar learn the differences between the Microsoft project calendars and when to |
| use them.  |

# Chapter 5: Estimating the Project......3 hours

Add tasks to the project, add durations to each task, add predecessors to each task to link tasks together, create the critical path, add resources to the project, create resource assignments, build a work breakdown structure, add costs to the project, add milestones to the project, add lag and review the critical path, adjust resource allocations.

# Chapter 6: Tracking the Project......2 hours

To create a baseline baselines, custom views and fields project reporting task status updates updating task status from your team and update the project progress. resource assignment status updates.

# Chapter 7: Custom Views and Fields......3 hours

To create custom views and tables views, create custom fields microsoft project, create graphical indicators when you create a custom field, further enhance it to use graphical indicators. these indicators allow you to display things like red, yellow, and green flag

# 

working with the timeline, multiple timelines in project 2016, 2019 and online, working with the reporting module, about agile projects, using the task board, using sprints, using project online desktop, tips and tricks conclusion go to goskills.com Busing boards and the gantt chart, sharing boards



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## CIVIL ENGG. DEPARTMENT

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| me   | ornews Ramya Rayu  | DUTOTION: 19 7/2018 - 30/9/2019 |           |          |            |          |        |          |              |       |         |          | summer 2 hrs ear |            |        |          |          |      |
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|      | MAURYA ADARSH KUMAR  | 60                              | VA.       | Gev.     | 105        | No.      |        | 600      | 100          | -0    |         | . 7      | and it           | mand       | 190    |          |          |      |
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|      | MESTRY NILESH RAMCHANDRA VIDYA   | 10                              | 123       | (194     | 100        | 1000     | 250    | 10       | I colo       | Q.    | ale.    | 100-     | 100              | 1.00       | 10     | 150      | -        | +    |
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| 6    | NAGARKAR CHIRAG DAMODAR  | - M. Zhr.                       | PERMIT    | 1.50     | 100        | 3.110    | 12.24  | 700      | 7-11/4       | 100   | 1777    | 10       | 1130             | MATE       |        | Bullo    |          | -    |
| 2    | NAIK YOGESH DATTATREY GEETA  | 1967                            | Trin.     | 10       | 135        |          | Carlo  |          | Acel         | -44   | 1 200   | 200      | 140              | 4-30       | Mess   | Com      |          |      |
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Late Shri Vishnu Waman Thakur Charitable Trust's

#### VIVA INSTITUTE OF TECHNOLOGY

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# Certificate of Participation

This is to certify that Dr. / Mr. / Ms. MALI ABHISHEK has attended software course on "MSP & PRIMAVERA" organized by Civil Engineering Department from 19th July 2018 to 30th September 2018 at VIVA Institute of Technology, Shirgaon, Mumbai.

(Prof. Ramya Raju)

Co-ordinator

(Prof. Lissy Jose)

**Head of Civil Engg Department** 

(Dr. Arun Kumar)

Principal





## VIVA INSTITUTE OF TECHNOLOGY

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### CIVIL ENGG. DEPARTMENT



Name of the Course: Matlab

AY: 2018-19

**Course Duration: 30 hrs** 

Resource person: Ms. Chitra Takle

# **Schedule**

| Date       | Pre-Lunch (9am-12pm) | Post-Lunch (1pm-4pm) |
|------------|----------------------|----------------------|
| 02/07/2018 | Session 1            | Hands on             |
| 03/07/2018 | Session 2            | Hands on             |
| 04/07/2018 | Session 3            | Hands on             |
| 05/07/2018 | Session 4            | Hands on             |
| 06/07/2018 | Session 5            | Hands on             |

# **Day 01: Introduction to MATLAB**

Matlab basics – variables, numbers, operators, expressions, input & output

Vectors, Arrays - Matrices

# **Day 02: MATLAB functions**

Built in functions

User defined functions

# Day 03: Graphics with MATLAB

 $Files\ and\ file\ management-import\ /\ export$ 

Basic 2D, 3D plots





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# Day 04: Programming with MATLAB

Conditional statements, Loops

MATLAB Programs- Programming and debubbing

Applications of MATLAB programming

# Day 05: Mathematical Computing with MATLAB

Algebraic equations

Basic Symbolic Calculus and Differential equations

Numerical Techniques and Transforms

# **Course Objectives:**

- 1. To learn features of MATLAB as a programming tool
- 2. To promote new teaching model that will help to develop programming skills and technique to solve mathematical problems
- 3. To understand MATLAB graphic feature and its applications
- 4. To use MATLAB as a simulation tool

#### **Course outcomes:**

- 1. Students will be able to understand various tools used in MATLAB
- 2. Students will be able to understand various models for developing programming skills
- 3. Students will be able to understand graphic feature & applications
- 4. Students will be able to operate simulation tools





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# **CO PO MAPPING**

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# CIVIL ENGG. DEPARTMENT



# ATTENDANCE SHEET

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| 7    | MAURYA MOHIT ASHOK KUMAR                                     | 18     | 100-100- | 拒       | 15    | AS     | _     | -                 | -           | -   | 1     |
| 3    | MAURYA SURAJ OMPRAKASH UMA                                   | Uma    | uma      | mind    |       | nwo    |       | +                 | +           | 10  | 1     |
| 9    | MENGE ROSHAN RAVINDRA RASHMI                                 | A      | POW      |         | A     | Kom!   |       |                   | 1           | +   |       |
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| 13   | MORE YASH SACHIN SUNITA                                      | A      | Hes      | yel     | 400   | 100    |       |                   |             | 0   |       |
| 14   | NAGARE AMOL BRAGVAT SANDHYA                                  | A      | A        | A       | A     | A      | (3)   |                   |             |     |       |
| 15   | NAGARE GANESH BHAGAWAN SHAILA                                | Rail   | A        | Chall   | M     | Jak    |       |                   | - 12        |     |       |
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| 19   | PADASKAR MAYURESH MASHNU                                     | A      | #        | 19      | 1     | 17     | -     |                   | +           | 1   |       |
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| 3    | PARMAR ANIKET BHAIRULAL PAVAN                                | Thur   | 07       | A       | R     | Favar  |       |                   |             | -   | 1     |
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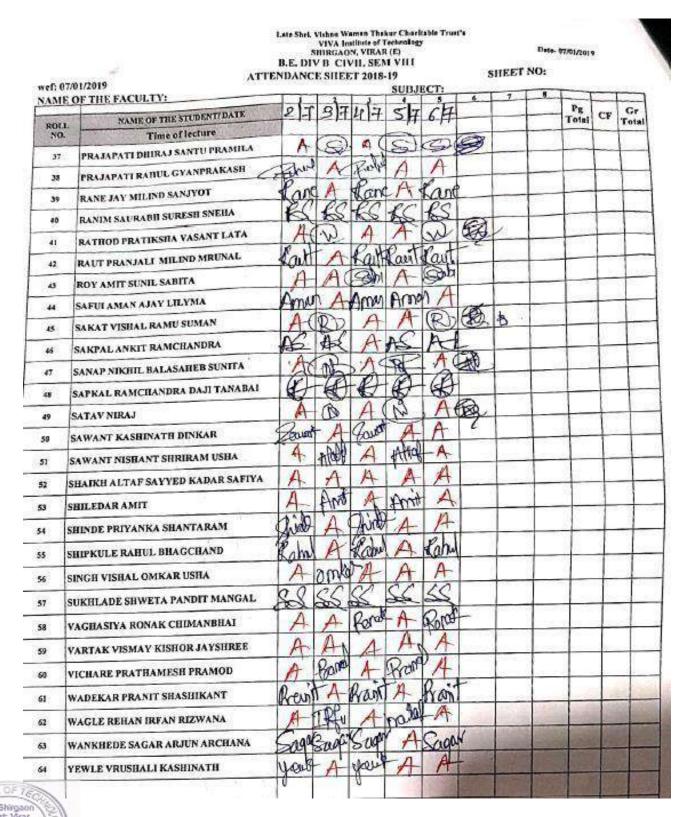
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#### VIVA INSTITUTE OF TECHNOLOGY

Shirgaon, Virar (E), Tal: Vasai, Dist: Palghar – 401 305.

#### CIVIL ENGG. DEPARTMENT







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## CIVIL ENGG. DEPARTMENT



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## **VIVA Institute of Technology**

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Shirgaon, Virar(E.), Dist: Palghar- 401305, Maharashtra

#### **DEPARTMENT OF FIRST YEAR ENGINEERING**

#### **ACADEMIC YEAR-2018-19**

#### **VALUE ADDED COURSE**

| NAME            | SOFT SKILLS  |
|-----------------|--|
| DURATION        | (1 WEEK) 30 HRS  |
| DATE & TIME     | 1st Jan to 5th Jan 2019/9.00am -12.00pm and 1.00pm -4.00pm |
| RESOURSE PERSON | Mr. Prashant Pawar & Mrs.Trupti Patil                      |

#### **COURSE OBJECTIVE:**

To help the future engineers to understand and implement soft skills in the work environment.

**Aim:** The course can help future engineers to improve their communication, problem-solving and presentation skills with an aim to land a better job.

#### **SESSIONS ON SOFT SKILLS:**

| Session 1.  | Soft Skills and You                 |
|-------------|-------------------------------------|
| Session 2.  | <b>Interpersonal Communications</b> |
| Session 3.  | Leadership Management               |
| Session 4.  | Preparing for Employment            |
| Session 5.  | <b>Group Discussion</b>             |
| Session 6.  | Resume Building                     |
| Session 7.  | Mock Interview                      |
| Session 8.  | Presentation Skills                 |
| Session 9.  | Communication at Workplace          |
| Session 10. | Workplace Etiquette                 |



CO-ORDINATOR PROF. Jayesh Jain



H.O.D DR. Ajazul Haque



#### Late Shri, Visiona Wamus Thakor Charitable Trust's VIVA Institute of Technology Academic Year; 2018-2019

First Year Engineering Attendance for certificate courses

|       | Date   | 1/1                  | /2019                    | 2/1/                 | 2019                  | 3/1/20   | 339            | 400          | 1019   | 5/1/2019                |               |  |
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#### **CERTIFICATE OF PARTICIPATION**

This is to certify that Mrs. ASWANI TANVI BHAGWAN

attended one-week Program on "Soft Skills" organized by Firsf Year Engineering Department Of VIVA Institute of Technology from 1st Jan to 5th Jan 2019.



Co-ordinator Prof. Jayesh Jain



H.O.D Dr. Ajazul Haque



# Vishnu Waman Thakur Charitable Trust's VIVA Institute of Technology

Approved By AICTE, New Delhi, DTE, Govt. of Maharashtra Affiliated to the University of Mumbai Shirgaon, Virar(E.), Dist: Palghar- 401305, Maharashtra

## A.Y. 2017-2018





/IVA INSTITUTE OF TECHNOLOGY COMPLETER PRODUCERING DEPARTMENT

#### Academic Year 2017-18

Course name: - Programming with JAVA Duration: - 10th July 2017 to 14th July 2017

Venue: - VIVA Institute of Technology Co-ordinator: - Prof. Janhavi Thakur

Enrolled students: - 20

Course Objective:-

 To understand the basic concepts and fundamentals of platform independent object oriented language.

To demonstrate skills in writing programs using exception handling techniques and multithreading.

To understand streams and efficient user interface design techniques.

4. To write programs for solving real world problems using java collection framework.

To impart hands-on experience with java programming.

#### Course Outcomes: -

After successful completion of the course, the students are able to

 Use the syntax and semantics of java programming language and basic concepts of OOP.

Develop reusable programs using the concepts of inheritance, polymorphism, interfaces and packages.

Apply the concepts of Multithreading and Exception handling to develop efficient and error free codes.

 Able to write programs for solving real world problems using java collection frame work.

#### Course Schedule: -

| Days | Morning Session<br>(9 am to 12 pm)                             | Afternoon Session<br>(1 pm to 4 pm)             |
|------|--|---|
| 1    | Introduction to Java, Java<br>buzzword, scope, and<br>lifetime | Classes and Objects,<br>Inheritance<br>Exercise |
| 2    | Interference, Packages   | Exception Handling<br>Exercise                  |
| 3    | Strings, and Library   | Multithreading<br>Exercise                      |
| 4    | Applets  | Event Handling<br>Exercise                      |
| 5    | Layout Manager   | Quiz  |





# IVA INSTITUTE OF TECHNOLOGY

Computer engg. department of VIVA Institute of Technology conducted a course on "Programming with JAVA" for second and third year students. Total 20 students had been enrolled for this course.

This course was conducted by Prof. Janhavi Thakur in order to provide basic knowledge of JAVA programming. This was 30 hrs. certificate

During the course students learned basic programming of JAVA. course. Also students learned all concepts of JAVA like interference, packages, applets and so on. Students practiced of all things concepts in the exercise session. All doubts and errors during programming were solved by the co-ordinator.

Students enjoyed the course and completed it successfully.

#### CO-PO Mapping: -

| Course      | Program Outcome |         |         |      |         |         |      |         |   |          |          |          |  |  |
|-------------|-----------------|---------|---------|------|---------|---------|------|---------|---|----------|----------|----------|--|--|
| Outcom<br>e | PO 1            | PO<br>2 | PO<br>3 | PO 4 | PO<br>5 | PO<br>6 | PO 7 | PO<br>8 | 9 | PO<br>10 | PO<br>11 | PO<br>12 |  |  |
| CO 1        | 3               | -       | -       | -    | -       | -       | -    | -       | - | *        | *        | -        |  |  |
| CO2         | -               | 2       | -       |      | -       | -       | -    | -       | - | -        | -        |          |  |  |
| CO3         | -               |         | 3       | 1    | +       | -       |      |         | - |          | -        | -        |  |  |
| CO4         | 20              | +       | 3       | -    | -       | -       | -    | -       | - | -        | -        | -        |  |  |
|             | 3               | 2       | 3       | 3    | -       |         | 2    | -       | - | -        | -        | -        |  |  |

| COs | POS | Justification  |  |  |  |  |  |  |  |  |  |
|-----|-----|--|--|--|--|--|--|--|--|--|--|
| CO1 | PO1 | Strongly mapped as the students will be able to analyse the problem to be<br>implemented using basics of Python. |  |  |  |  |  |  |  |  |  |
| CO2 | PO2 | Moderately mapped as the students will be able to identify the technique required to implement the problem.      |  |  |  |  |  |  |  |  |  |
| CO3 | PO3 | Strongly mapped as the students will be able to find a solution for the problem identified.                      |  |  |  |  |  |  |  |  |  |
|     | PO4 | Slightly mapped as the students will be able to depict the project outcome and future scope.                     |  |  |  |  |  |  |  |  |  |
| CO4 | PO3 | Strongly mapped as the students will be able to develop design<br>methodologies for the system to be developed.  |  |  |  |  |  |  |  |  |  |

Ashwini Save

HOD, Computer Engg.





## A INSTITUTE OF TECHNOLOGY

Computer Engineering Department

Academic Year 2017 - 18

Course Name: Programming with JAVA 50th July 2017 to 14th July 2017

| Out Se | Duration: 10th July 2017 to 140  |                       |                | Attenda            | nce Sheet           | -                     | 77.48                            | 13/07  | /2017    | 14/07                 | Afterso            |
|--------|--|-----------------------|----------------|--------------------|---------------------|-----------------------|----------------------------------|--|----------|-----------------------|--------------------|
|        |  | 100                   | 7/2017         |                    | 7/2017              | 12/90                 | V3617                            | Morning  | Afamoon  | Morning               |                    |
|        | Name of Student  | Marring               | Afternoon      | Morning<br>Session | American<br>Session | Morning<br>Session (9 | Afternaon<br>Secular<br>(3 to 4) | Session (1<br>to 12.)  | (1 to 4) | Session<br> 9 to 12 ) | Session<br>(1 to 4 |
| e No.  | 7.00 T. S.   | Session<br>(9 to 12 ) | (1 to 4)       | (9 to 12)          | (1 to 4)            | 8A                    | 8A                               | SA   | 8A       | 84                    | SPA<br>VAL         |
| +      | ANOWALKAR SAREL VIDAY  | SA.                   | 84             | 80                 | ST.                 |                       | Visiters.                        | Vindell  | Wille.   | 100                   | 1                  |
| 2      | AREKAR VRISHERE JAYWANT  | Yrishan.              | Wisher         | Vicebal            | yrones              | ALACTOR               | -4-                              | (20)   | (22)     | (00)                  | To.                |
|        | Advisor management of the control of | 000                   | 00             | OB.                | (B)                 | a late                | Sales                            | Annual Control of the | 2010     |                       |                    |
| 1      | DHALERAO BOHT YASHWANT   | Sulva                 | 9              | SHAME              | Suppl               | Bulba                 | D.C.                             | A.C.   | Aleca    | AC                    | A.C                |
| +      | CHALBEY SURIAS SATUAPRAKASH  | A.C.                  | A.C            | PoC+               | A.C                 | ALCI                  | Constant                         | 5 dheve  | Sonei    |                       | -                  |
| *      | CHACILON ABION MENIS   | Sentio                | Sanklin        | South              | 100                 | W. 1                  | mich out                         | grow.  |          | B-M                   | Bhis               |
|        | HATE SANKITA SHARAD  | grave                 | and the second | (bire              | Orace-              |                       |                                  |  | -0-      | Toons                 | Sight              |
| Ť      | HERVE VISHABIRA ANTL   | Joshiv                | Techiy         | Jasty              | Jechy               | Towny                 | Joshiv                           | -/-  | Rough    |                       | Sept.              |
|        | JOSHI VARHAW YUAY  | 1000                  | (ment          | Rope               | COMPA               | Roter                 | Popure                           |  |          | 03                    | 60                 |
| 9      | KAMBLE PRIVANKA UUIAS  |                       |                | 13                 | 0                   | @                     | Ø.                               | 0  | Shiver   |                       | com                |
| 10     | BHILDE VISET DON'ANESEWAR  | @                     | en man         | Shiren             | -1-                 | chian                 |                                  | Annual Control   |          | Rellen                | Charle             |
| :61    | BHOVED SHIVANI MANOHAR   | Shirt                 | Section 1      |                    | PHAN                | Pastavi               | Balan                            | Palan  | -0-      | VC.                   | P                  |
| 12     | BELLAVA PALLAVI JOGA   | Clear                 | Paller         | 1                  | Se                  | 4                     | 5                                | *  | 4        | 200                   |                    |
| 15     | The second second second   | 4                     | 4              |                    | TOTAL               | SPALL                 | apli                             | cepel  | 2000     | -                     | (8)                |
| 14     | CHAKAN DEEPALE SANJAY  | copui                 | -              |                    | (R                  | (A)                   | (0)                              | (A)  | (A)      | B.                    | -                  |
| 15     | DHANDE AMET TRUKUR   | (B)                   | (A)            | (f)                | Sula.               | 10                    | Spelm                            | Tool Control   | my o     | 1                     | Just               |
| 10     | DUBEY SIMETA UNUSBANKAR  | 5                     |                |                    | 800                 | 100                   | 200                              | Kenty  | No.      | 17                    | 1/2                |
| 12     | MAETHAK HARSH PANKAT   | 211                   | 0.00           | 10-                | A-                  | R.M.                  | &M                               | P.M  | . f.m    | . P.M                 | 48,                |
| 楼      | MISHRA RAHLI, INDRASEN   | fiel.                 | R.M.           | Qr.                | Bo.                 | Do                    | In                               | -60  | -Fan     | for                   | -                  |
| 19     | MORAVEURA PRAINAL MUTTIFA  | Jan .                 | - Pro          | (BN                | 76N                 | (April                | (AN                              | (SM)   | (AN)     |                       | -                  |
| 29     | NIKAM ARHISHEK SHASRIKANT  | (9N)                  | (ON)           | 194                | C/ ·                | 1680                  | 1 90                             | - No. 1  | 1300     |                       |                    |



Late Shri, Vishnu Wemen Thakur Charitable Trust's

#### VIVA Institute of Technology

Approved By AICTE, New Delhi, DTE, Govt. of Maharashtra Affiliated to the University of Mumbai Shirgaon, Virar(E.), Dist: Palghar- 401305, Maharashtra

## CERTIFICATE

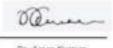
OF PARTICIPATION

This is to certify that ROHIT YASHWANT BHALERAO

attended a one-week course Program on "Programming with JAVA" organized by the Computer Engineering Department Of VIVA Institute of Technology from 10th July to 14th July 2017.



Prof. Ashwira Save H.D.D



Dr. Arun Kumar Principal





#### Academic Year 2017-18

Course name: - Natural Language Processing

Duration: - 10th July 2017 to 14th July 2017

Venue: - VIVA Institute of Technology Co-ordinator: - Prof. Pallavi Raut

Enrolled students: - 69

#### Course Objective:-

To teach students the leading trends and systems in natural language processing.

- To understand the algorithms available for the processing of linguistic information and computational properties of natural languages.
- To enable students to be capable to describe the application based on natural language processing and to show the points of syntactic, semantic and pragmatic processing.
- To develop systems for various NLP problems with moderate complexity.
- To learn various strategies for NLP system evaluation and error analysis.

#### Course Outcomes: -

After successful completion of the course, the students are able to

- 1. Understand approaches to syntax and semantics in NLP.
- Understand approaches to discourse, generation, dialogue and summarization within NLP.
- Demonstrate understanding of the relationship between NLP and statistics & machine learning.
- 4. Develop systems for various NLP problems with moderate complexity
- Evaluate NLP systems, identify shortcomings and suggest solutions for these shortcomings

#### Course Schedule: -

| Days | Morning Session   | Afternoon Session  |
|------|---|--|
|      | (9 am to 12 pm)   | (1 pm to 4 pm)   |
| 1    | Introduction & Syllabus<br>What is Natural Language<br>Processing?              | NLTK, Python 3 and the Jupyter<br>Notebook Introduction to HPC |
| 2    | Regular Expressions and<br>Automata, Finite State<br>Transducers and Morphology | Probabilistic models of spelling, N-<br>grams                  |
| 3    | Tokenization, N-grams and<br>Scriptic continua                                  | Stemming and Lemmatization,<br>Synsets and Hypernyms           |



| 4 | POS Tagging and Stopwords        | Text "Features" and TF-IDF<br>Classification |
|---|----------------------------------|--|
| 5 | Named Entity Recognition<br>(NER | Quiz   |

#### Report:-

Computer engg, department of VIVA Institute of Technology conducted a course on "Natural Language Processing" for Last year students. Total 69 students had been enrolled for this course.

This course was conducted by Prof. Pallavi Raut in order to provide knowledge of Natural Language Processing. This course is intended as a theoretical and methodological introduction to a the most widely used and effective current techniques, strategies and toolkits for natural language processing, with a primary focus on those available in the Python programming language. This was 30 hrs. certificate course.

During the course students learned basic of Natural Language Processing. Also students learned all concepts of Natural Language Processing like Regular Expressions and Automata, Finite State Transducers and Morphology and so on. Students practiced of all things concepts in the exercise session. All doubts and errors during programming were solved by the coordinator.

Students enjoyed the course and completed it successfully.

#### CO-PO Mapping: -

| Course  | e Program Outcome |     |     |     |     |     |     |     |         |          |          |          |
|---------|-------------------|-----|-----|-----|-----|-----|-----|-----|---------|----------|----------|----------|
| Outcome | PO1               | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO<br>9 | PO1<br>0 | PO1<br>1 | PO1<br>2 |
| CO 1    | 3                 | -   | -   | -   | -   | -   | -   | -   | -       | -        | -        | -        |
| CO2     | -                 | 2   | -   | -   | -   | -   | -   | -   | -       | -        | -        | -        |
| CO3     | -                 | -   | 3   | 1   | -   | -   | -   | -   | -       | -        | 1        | 1        |
| CO4     | -                 | -   | 3   | -   | -   | -   | -   | -   | -       | -        | -        | -        |
| CO 5    | -                 | -   | -   | 3   | -   | -   | -   | -   | -       | -        | -        | -        |

Ashwini Save HOD, Computer Engg.



## A7-2017-18



## VIVA INSTITUTE OF TECHNOLOGY

#### Computer Engineering Department

Semester: VII BE Natural Language Freest Week/ Month Subject Incharge: 10th Tally - 14th Table

| Roll | Name                         | 10+     | 11/7                                    | 11/19                                   | 13/7      | 14/7   | que       | Tota |
|------|------------------------------|---------|---|---|-----------|--------|-----------|------|
| 1    | GUPTA SAKSHI SANJEEV         | Cerula  |   | Gurle                                   | aprile    | Cryste | Comple    |      |
| 2    | SANGALE KAJOL SOMNATH        | 1       | Suls                                    | Couls                                   | Semes.    | Swy    | Suns      |      |
| 3    | MORE UJAVALA BHARAT          | 1       | (OB)                                    | mo                                      | (3)       | (MR    | 00        |      |
| 4    | LADE SHRUTI PRAMOD           | Labe    | 1 | -015                                    | علعا      | hale   | luke      |      |
| 5    | MAMIDPELLISWATI DATTATHREYA  | vo.     | 10                                      | 40                                      | 10        | 100    | 10        |      |
| 6    | NAIK SIDDHI VASUDEO          | slav    |   | Nak                                     |           | rstail | Bluik     |      |
| 7    | SHIV DHAR                    | Bhair   |   | Sher                                    | 5 dut     | Sharr  | Shir      |      |
| 8    | PEDNEKAR SUYOG               | SP      | 88                                      | 880                                     | APS       | &P     | 88        |      |
| 9    | BORAD KISHAN VALLABHBHAI     | KELLEN  |   | Kievan                                  | Kithen    | Kikka  | pigher    | _    |
| 10   | SARKALE AISHWARYA ASHOK      | (ASD)   | (AS)                                    | (45)                                    | (45)      | (83)   | (AS)      | _    |
| 11   | SHAH KAIWANT ASHOKKUMAR      | AB      | AB                                      | AB                                      | AB        | AB     | AB        |      |
| 12   | CHALDRAEY ANANDE VIDEWAMBHAR | April   | ( dough                                 | A-di-                                   | Acade .   | Brudy  | Acresti - |      |
| 13   | KREDASKAR SAHIL VIJAY        | Paliel  | Solil                                   | Relui                                   | Balvil    | aghil  | count     |      |
| 14   | ROKADE MOHIT ARUN            | t-less! | -                                       | Mount                                   | Mant      | Makes  | mehit     |      |
| 15   | PATIL BHARGAY RAVINDRA       | 8.6     | 60                                      | 20                                      | 8-0       | 86     | 88        |      |
| 16   | CHAUDHARY HIMANSHU ARYIND    | AB      | AB                                      | NB                                      | B13       | AB     | AB        | _    |
| 17   | VARTAK DARSHANA SHRIKANT     | DAF     | D.V.                                    | Bove                                    | Siv.      | DIV-   | Div.      | -    |
| 18   | TRIPATHI NIDHI UMASHANKAR    | Nille   |   | 100000000000000000000000000000000000000 | Nidm      | Nidm   | Nid!      |      |
| 19   | RASAL SHEETAL VUAY           | Stole   |   | AB                                      | Secol     | Mulas  | Shortes   |      |
| 20   | RAG BHAYESH HEVAN KUMAR RAG  | Roch    | -                                       | Posts                                   | Past      | Rado   | 2000      |      |
| 21   | CHAUS SAQLAIN                | -AL     | AR                                      | AB                                      | AS        | AB     |           | _    |
| 22   | SHENOY SARASWATI GANESH      | 88.     | 88                                      | 88                                      | 8         | 85     | AB<br>85  | _    |
| 23   | GHARAT SAMIKSHA MORESHWAR    | al ne   | Surel                                   |   | Short     | Sand   | Salve     |      |
| 24   | KAMBLE ROHINI ANIL           | (HP)    | CED                                     | ED.                                     | 7. 1      | 4      |           |      |
| 25   | TENDULKAR VINIT NARAYAN      | Vind-   | Vinit                                   | FB.                                     | Vin       | Vinit  | CKE       |      |
| 26   | SONAVANE RAHUL MADHUKAR      | RS      | (R)                                     | (8)                                     | 0         | -      |           |      |
| 27   | KAMBLE PRASHISH RAMAN        | AA      | AB                                      | AL'                                     | 77.7      | (B)    | (8)       | _    |
| 28   | BHAGAT RAINARAYAN ARJUN      | 94      | 25                                      | 20                                      | AB        | AB     | AB        | _    |
| 29   | GUPTA HARSHAD SURESH         | Dorder  | The second second                       |   | To select | 24     | Done led  |      |
| 30   | MISHRA NITYANAND AVDHESH     | M       | NM                                      | NM                                      | NM        | M      |           |      |
| 31   |                              | FOU.    |   | 1                                       | Para-     | Bath   | Ang Patro |      |
| 32   | RANE MANOJ PRAKASH           | MO      | (MR)                                    | (M)                                     | MO        | (MR)   |           | _    |
| 33   | DHAVDEKAR ANKIT NARESH       | -       | AB                                      |   |           |        | (MB)      |      |
| 34   | PATIL RANJIT SHANKAR         | AB      | 20                                      | AB:                                     | AB        | AB     | AB 90     |      |
| 35   | WANKHEDE SHREYAS SUDHIR      | 20      | 77                                      | 98                                      | 28        | A.     | 20        |      |
| 36   |                              | St      | NO                                      | 100                                     | 168       | 200    | 100       |      |
| 37   | PADWAL ABUSSUEV BARRIERAD    | 55      |   | 5.5.                                    | 5.5       | 55     | 55.       |      |
|      | PADWAL ABHISHEK BABURAO      | AL      | A LOVE                                  | 0.1801                                  | AD.       | AL VI  | AP        |      |
| 38   | AGARKAR ANIKET SATISH        | Ambet   | AWKet                                   | Buiket                                  | Ausket    | Aniket | A3        |      |
| 90   | GAJARE AKSHAY GANESH         | alesta  | Are                                     | akend                                   | attahay   | aretro | atehy     |      |
| 11   | SHAVSAR AKSHAY ANII.         | AB      | AB                                      | AB                                      | AB        | BB     | AB        |      |
| - 1  | WAIR JITIN GOVINDANKUTTY     | AB      | AB                                      | AB                                      | AB        | AS     | AS        |      |
| 945  | ACHYAY ABHIBHEK RAVINDRANATH | Aus     | Aus                                     | Aus                                     | Aus       | Bur    | Buz       |      |

## AY 2017 -18



## VIVA INSTITUTE OF TECHNOLOGY

#### Computer Engineering Department

Attendance Sheet

Semester: VII Subject incharge: Matural Language Processing Subject:

| Rell<br>No | Name                              | 10 =              | 144             | 12/7    | 13/7       | 14/7   | 1417     | Total |
|------------|-----------------------------------|-------------------|-----------------|---------|------------|--|----------|-------|
| 43         | MORE SUBODIIAN BAPU               | Dubrage           | 3411            | Supelin | Substil    | Midalo   |          |       |
| 44         | MASAYE JAYESH JANU                | dayesh            | 11 oyalh        | Jayesh  | - law own  | -1-7-5   | Just new |       |
| 45         | KADU MITESH RAMAN                 | AG                | AB              | -       | 10         | 4  | Aud      |       |
| 46         | PHADKE AMEYA RAJENDRA             | AP                | VL              | AB      | AD         | AB   | 110      |       |
| 47         | HADGE CHINMAY SHRIKRISHNA         | Le Land           | China           | china   | chiny      | Af   | ding     | _     |
| 48         | GAWADE AMOL VITTHAL               | 100               | new             | - 4     | -          |  | -        |       |
| 49         | BHAMBAD DARSHANA                  | (Acc              | -               | (Naw)   | ale        | (NOW)  | (NO)     | _     |
| 50         | FALEKAR RUCHITA                   | Jenster.          | Zenthari<br>COA | ander.  | natho      |  | المنتهين |       |
|            |                                   | M                 | Pro-            | AB      | RF         | RA   | RF       |       |
| 51         | SAURABH GIRIGOSAVI                | -60               | 50              | 953     | -54        | 8  | 83       |       |
| 52         | JADHAV SIDDHIKUMAR                | 7162              | 5.5             | 2/45    | 75         | 7,5  | J.S      |       |
| 53         | PATIL ADITYA NILAM -              | fatte             | 134             | Tien    | The same   | Thu  | 田田       |       |
| 54         | PATIL SANISH TANAJI               | 80                | SP              | 80      | 88         | SP   | 20       |       |
| 55         | SHINDE PRIYANKA RAMCHANDRA        | AB.               | AB              | AS      | AG         | AB   | AB       |       |
| 56         | GAIKWAD SONALI SURESH             | SonalL            | Sonali          | Sonal1  | Sonall     | Conali   | Sonal    |       |
| 57         | PAWAR SHRUTI LAXMAN               | SP.               | 50.             | 50.     | SP.        | SP.  | SQ.      |       |
| 58         | DHUMAL AMRUTA SUNIL               | Arranto           | Amounta         | Propula | Amouto     | Amaudo   | Arrenda  |       |
| 59         | SANKHE ANKITA MANOHAR             | Asso              | A.50            | Aos     | Ap Su      | Aos.   | Aos.     |       |
| 60         | PATIL SHUBHAM SUDHAKAR            | AB                | AG              | ΔΩ      | AB         | AB   | AB       |       |
| 61         | GUPTA SHIVAM SURESHCHANDRA        | 4 up 0            | Aupta           |         | Santo.     | Sport-   | Southa   |       |
| 62         | DHANJAL GAGANDEEP SINGH           | CD                | Cop             | AS      | (10)       | GID  | QD       | _     |
| 63         | BAMBARDEKAR SHRIDHAR SANTOSH      | 98.               | 28              | 28      | 88         | 28   | 98       | 5     |
| 64         | YADAV JAY SUNIL                   | Ats               | AB              | AP.     | AB         | An   | AB       | _     |
| 65         | SHEREGAR ABUBSHEK SHASHENIAR      | A.S.              | -               | A.Sa    | Antho      | Aoso   | Nosa     | _     |
| 66         | GHARAT SAGAR LAXMAN               | Sage              | garate.         | Jagor.  | 21902      | Sagar  | AB       | _     |
| 67         | LAD ABHAY                         | Abhay             | Aphay           | Abhay   | Abhay      | Abhay  | Abhay    |       |
| 68         | JAGTAP SWARANJALY SANDEEP         | AB                |                 |         |            |  |          |       |
| 69         | PAWASKAR ANKITA RAJESH            | The second second | AB              | AB      | AB         | AS   | AB       | _     |
| 70         |                                   | AQ.               |                 | PS      | 7          | PQ   | P.       | _     |
| _          | PANJARI VIRAJ                     | Villay            | Vaaj            | VALUE   | Very       | way  | Vun      | _     |
| 71         | PATIL KAUSHIK (                   | (P)               | (KB)            | (HP)    | (KD)       | (AD)   | (KA)     |       |
| -          | ISHWALKAR DARSHAN                 | AB                | AB              | A-13    | AC         | A.A.   | AB       |       |
|            | SAWANT NIKHIL                     | NR                | NB              | - 11    | 10         | V8   | 18       |       |
| _          | HINDLEKAR SHARDUL                 |                   | Shadu           | Shorter | AM         | Shadul   | Sandel   |       |
| -          | DESHMUKH SHUBHANGI                | Ds.               | 03              | 02      | 2          | 23   | 08-      |       |
| 76         | KARAN RITU SIYARAM                | Mr.               | 1212            | P.M     | Lute       | RWY  | MY       |       |
| 77         | KASAR POOJA LAXMAN                | AB                | AB              | AB      | AB         | 145  | AB       |       |
| -          | SHIRSAT KAVITA KISHOR             | K.S.              | Vis.            | KUS-    | Kis.       | KS-  | (45.     |       |
| 79         | VISHWAKARMA RAVI                  | AB                | AB              | AG      | AB         | AB   | AG       |       |
| 80         | MISTRY DEEP                       | TOYAL.            | VANA            | AL IP   |            | Variat   | Year     |       |
| 82         | PATIL VARAD<br>ASHTUNKAR VRUSHABH | **                | Yest            | - PATE  | A STATE OF | X SECTION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF | Pett     |       |
| _          | PINGALE JITENDRA                  | AB.               | VA<br>FIB       | AB      | AB         | AB   | MS       | _     |
| 83         |                                   |                   |                 |         |            |  |          |       |









## INSTITUTE OF TECHNOLOGY

#### Academic Year 2017-18

Course name: - Learning with Python Duration: - 2<sup>nd</sup> Jan 2018 to 6<sup>th</sup> Jan 2018 Venue: - VIVA Institute of Technology

Co-ordinator: - Prof. Vinit Raut

Enrolled students: - 15

#### Course Objective:-

To create fully functional Python programs

2. To understand user input

To learn about loop structures and conditionals

4. To work with Python file handling

#### Course Outcomes: -

After successful completion of the course, the students are able to

Describe the basics of the Python programming language

Install Python and write first program

3. Use variables to store, retrieve and calculate information

Utilize core programming tools such as functions and loops

Explain the basic principles of Python programming language

#### Course Schedule: -

| Days | Morning Session<br>(9 am to 12 pm)   | Afternoon Session<br>(1 pm to 4 pm)                   |  |  |  |  |  |
|------|--------------------------------------|---|--|--|--|--|--|
| 1    | Introduction                         | Install Python and basic<br>python program            |  |  |  |  |  |
| 2    | Basic syntax , variables and strings | Lists, Tuples and Dictionaries.<br>Exercise           |  |  |  |  |  |
| 3    | If-else statements, For loop         | r While loop,<br>Pass, break and continue<br>Exercise |  |  |  |  |  |
| 4    | Understanding<br>Functions           | File handling – opening and reading                   |  |  |  |  |  |
| 5    | Classes and Objects                  | Exercise<br>Quiz                                      |  |  |  |  |  |

#### Report:-

Computer engg. department of VIVA Institute of Technology conducted a course on "Learning with Python" for second and third year students. Total 40 students had been enrolled for this course.





# VIVA INSTITUTE OF TECHNOLOGY

This course was conducted by Prof. Vinit Raut in order to provide

basic knowledge of Python programming. This was 30 hrs. certificate course. During the course students learned how to install Python. They learned all the basic of python like variables, lists, strings. Also students study conditional statements and loops. This course also cover functions and file Students enjoyed the course and completed it successfully. handling.

## CO-PO Mapping: -

|            |    | _    |    |    | Prop | gram | Outc | ome     | PO | PO | PO | PO |
|------------|----|------|----|----|------|------|------|---------|----|----|----|----|
| Course     |    |      | PO | PO | PO   | PO   | PO   | 90<br>8 | 9  | 10 | 11 | 12 |
| Outcom     | PO | PO 2 | 3  | 4  | 5    | 6    | 7    |         |    |    |    |    |
| e          | 1  |      | _  | -  | -    |      | -    | -       | -  | -  |    |    |
| CO 1       | 3  | -    | -  | -  | -    | -    |      | -       | +  | -  | -  | -  |
| CO2        | 3  | -    | -  | •  | -    |      |      |         | -  |    | -  | -  |
| 002        |    | -    | 3  | -  | *    | -    |      |         | -  | -  | -  | -  |
| CO3        |    | -    | 3  | 2  | -    | -    |      | -       | -  |    | 1  | 1  |
| CO4<br>CO5 | -  | 3    | -  | -  | -    | +    | -    | -       | +  |    | 1  | 1  |
| CO5        | 3  | 3    | 3  | 2  | -    |      |      | -       | -  |    | -  |    |

| OPC | Justin | ication: - Justification  |
|-----|--------|---|
| COs | POs    | to deats will be able to analyse the problem to be  |
| CO1 | PO1    | Strongly mapped as the students will be able to analyse the problem to be implemented using basics of Python.                   |
| CO2 | P01    | Strongly mapped as the students will be able to identify the technique required to implement the problem.                       |
| CO3 | P03    | required to implement the problem.  Slightly mapped as the students will be able to find a solution for the problem identified. |
| C04 | P03    | Strongly mapped as the students will be able to find the relevant tools to implement the problem stated.                        |
|     | P04    | Moderately mapped as the students will be able to mile  |
| C05 | PO2    | Strongly mapped as the students will be able to develop design methodologies for the system to be developed.                    |

Ashwini Save HOD, Computer Engg.





## VIVA INSTITUTE OF TECHNOLOGY

## Computer Engineering Department

Academic Year 2017 - 18

Course Name: Learning With Python

Course Duration: 2nd Jan 2018 to 6th Jan 2018

| Attendan | ce | She | et. |
|----------|----|-----|-----|
|          |    |     |     |

| OUTS   | e Duration:- 2nd Jan 2018 to 6th J   |                    |                                  | Attendan                        | ce Sheet                        |                                  | 1-2018  | 65-0   | 2618                |          | 1-2018   |
|--------|--|--------------------|----------------------------------|---------------------------------|---------------------------------|----------------------------------|---------|--|---------------------|----------|----------|
|        |  | 65.0               | 2018                             | 93-91-2018                      |                                 | 94-0                             |         | Morning  | Atternoon           | Morning  | Session  |
| r. No. | Name of Student  | Morning<br>Session | Alternoon<br>Session<br>(1 to 4) | Monting<br>Session<br>(9 to 12) | Attempon<br>Session<br>(1 to 4) | Morning<br>Session<br>(9 to 12 ) | -       | Session<br>(5 to 12 )  | Session<br>(1 to 4) | (9 to 12 | 17 to 4) |
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| 9      | CHAUHAN ARJUN MUNIS  | 在出 2               | 1                                | Loha                            | Lynn                            | Aren                             | Asgr    | Annual Property of the Parket  | Acq                 | 1        | Book     |
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| 11     | CHAVAN KETAN PRAVINSHAI  | Stan               | 499                              | TRANK.                          | etrous                          |                                  | 1-1-    | 3000   | al alane            |          | and Ea   |
| 12     | GAWOE KAUSTUBH SHASHIKANT  | warlan             | 133                              |                                 | 45                              | Para                             | Page    |  | 490                 | A 1 1 1  | 1        |
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|        | LOKHANDE RUSHKESH RAJU   | Lann               | 2 200                            | 1200                            | 0-                              | 100                              |         |  |                     |          |          |

Co ordinator





### VIVA Institute of Technology

Approved By AICTE, New Delhi, DTE, Govt. of Maharashtra Affiliated to the University of Mumbai Shirgeon, Virar(E.), Dist: Palghar- 401305, Maharashtra

## **CERTIFICATE**

OF PARTICIPATION

This is to certify that \_\_\_\_ADITYA RAVINDRA PARAB

attended a one-week course Program on "Learning with Python" organized by the Computer Engineering Department Of VIVA Institute of Technology from 2nd Jan to 6th Jan 2018.



Prof. Ashwini Save H.O.D

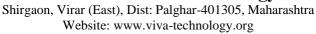
Tener

Dr. Arun Kumar Principal





#### **VIVA Institute of Technology**





#### Department of Electronics and Telecommunication Engineering

## Name of Course: Nirman-Arduino Workshop

## Duration: 30 hours/1 week

#### Day 1- Embedded System Basic (Working, Input devices & Programming Code):

#### Session 1: Introduction, Hardware & Basic Programming

- ✓ Introduction to basic of embedded system
- ✓ Introduction & explanation of microcontrollers
- ✓ Explanation of AVR ATMega 328 microcontroller
- ✓ Explanation of Arduino board & programming
- ✓ Basic Arduino based programs for interfacing i/o devices

#### Session 2:

- ✓ Introduction to output devices interfacing
  - Project 1 : LED blinking
- ✓ Introduction to input devices interfacing
  - Project 2: Push button interfacing
- ✓ Rotary encoder interfacing
  - Project 3 & 4:
    - More LEDS switching sequentially based on encoder input
    - ii. Bar graph sort of LED switching based on encoder input

Quiz

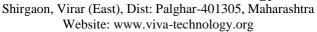
#### Day 2 - Digital & Analog Input Ouput Devices Interfacing

Session 3: ✓ Explanation for digital input devices





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- ✓ Explanation for analog input devices
- ✓ Introduction to temperature sensor and its working
- ✓ Basic programming for interfacing temperature sensor
  - Project 5 : Temperature sensor using LM35
- ✓ Introduction to relay
- ✓ Basic programming for interfacing relay
  - Project 6: Automatic temperature controller system
     (soldering iron temperature control\_simple on/off)

#### Session 4:

- ✓ Introduction to LDR sensor and its working
- ✓ Basic programming for interfacing LDR sensor
  - **Project 7 :** Light controlled switch
- ✓ Introduction to IR sensor and its working
- ✓ Basic programming for interfacing IR sensor
  - Project 8: Detect presence of object and blink LED accordingly

#### Quiz

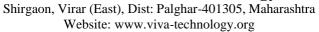
#### Day 3 - Advance Sensor (Ultrasonic, Hall Effect) and Serial Communication

#### Session 5:

- ✓ Introduction to ultrasonic sensor and its working
- ✓ Basic programming for interfacing of ultrasonic sensor
- ✓ Programming and conversion concept for the measurement
- ✓ Formulas for speed, distance & time for distance measurement using ultrasonic sensor
  - Project 9 : Distance Finder / Range Finder using
     Ultrasonic
- ✓ Explanation of working of stepper motor & motor driver
- ✓ Interfacing of stepper motor with motor driver & basic motor control program
  - **Project 10 :** Stepper Motor Rotation
- ✓ Introduction to Hall Effect sensor and its working



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- ✓ Basic programming for interfacing Hall Effect sensor
  - **Project 11**: Stepper Motor Speed Detection
- Session 6:
- ✓ Introduction to serial communication & its significance in embedded system
- ✓ Explanation of program for establishing serial communication for data transfer between computer & Arduino
  - Project 12: Send temperature data and distance measured by ultrasonic to serial port

#### Quiz

#### Day 4 - Visible Output, Keypad

- Session 7:
- ✓ Introduction to a 7-Segment LED display
- ✓ 7-segment LED display interfacing & basic data display program
  - **Project 13 :** Temperature indicator on 7 segment
- ✓ Introduction to LCD (16 X 2) & its working
- ✓ LCD Interfacing & Basic data display program
  - Project 14 : Display temperature on LCD
- Session 8:
- ✓ Introduction to matrix keypad & its working
- ✓ Concept of data line reduction & matrix concept
- ✓ Interfacing LCD & matrix keypad with Arduino
  - Project 15: LCD based GUI for user password registration and monitor

#### **Project 16** Smart Door System

#### / Product

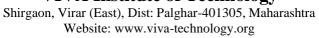
#### Day 5 - Industry 4.0 and Project Guidance

- Session 9:
- ✓ Tips for Project making
- ✓ Steps for designing a project
- ✓ Schematic designing tips





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- ✓ Project development phase
- ✓ Project functional block programming & output
- ✓ Doubt discussion

Session 10:

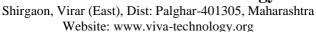
- ✓ Industry 4.0: The Fourth Industrial Revolution
- ✓ Certificates & Project Letters distribution for competition

#### **Feedback**





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#### Department of Electronics and Telecommunication Engineering

## Report

**Nirman** is to nurture and organize the young change makers to solve various societal challenges. It is an educational process to train the students to take up crucial issues and problems in the society. The focus in this course is to enable and equip the students to immediately start building Arduino enabled products. This was a 30hrs/1 week certificate course.

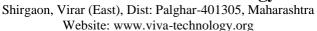
Students understood what an Arduino is and how it works, learned programming concepts using C and C++ along with Arduino specific programming, used a wide variety of hardware and components and prototype projects using a breadboard.

This 5 days Bridge course was conducted by Prof. Nutan Malekar from 4<sup>th</sup> July 2017 – 8th July 2017 in order to provide basic knowledge to students about an **Arduino** and how it works. It helped students to learn programming concepts using **C** and **C**++ along with Arduino specific programming. The students understood how to use a **wide variety of** hardware and components and prototype projects using a breadboard.





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#### Department of Electronics and Telecommunication Engineering

## Course Objectives

#### **Course Objectives**

- **♣** To understand what an Arduino is and how it works
- ♣ To learn how to use an Arduino safely
- → To program Arduino using code that have written in the Arduino IDE (Integrated Development Environment)
- ♣ To learn programming concepts using C and C++ along with Arduino specific programming
- ♣ To understand best practice concepts for programming and prototyping
- ♣ To use a wide variety of hardware and components and prototype your projects using a breadboard
- **♣** To build innovative project with Arduino

## **Course Outcomes:**

- > Students will be able to get new product or service ideas by hearing about needs in industry.
- > Students will be able to receive large volumes of usable content within a compressed amount of time.
- > Students will be able to get intensive exposure to a topic through presentations and discussions.
- > Students will be able to achieve confidence and motivation for organising different events that improves the personality of a student.
- > Students will be able to achieve confidence and motivation for participating in different events that improves the personality of a student.
- > Students will be able to develop a connection that might help with future employment.









## Department of Electronics and Telecommunication Engineering

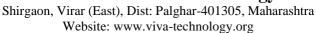
## **CO-PO MAPPING**

| Course  |         |         |         |         |         | F       | Program | Outco   | me      |          |          |                    |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|--------------------|
| Outcome | PO<br>1 | PO<br>2 | PO<br>3 | PO<br>4 | P0<br>5 | PO<br>6 | PO<br>7 | PO<br>8 | PO<br>9 | PO<br>10 | PO<br>11 | CO<br>Target level |
| CO1     | 2       | -       | -       | -       | -       | -       | -       | -       | -       | -        | -        | 2                  |
| CO2     | -       | 2       | -       | -       | -       | -       | -       | -       | -       | -        | -        | 2                  |
| CO3     | 2       | -       | -       | -       | -       | 2       | -       | -       | -       | -        | -        | 2                  |
| CO4     | 2       | -       | -       | -       | -       | -       | -       | -       | -       | -        | -        | 2                  |
| CO5     | -       | 2       | -       | -       | -       | -       | -       | -       | -       | -        | -        | 2                  |
| CO6     | -       | -       | -       | -       | 2       | -       | -       | -       | -       | 1        | 1        | 1.5                |
|         | 2       | 2       | -       | _       | 2       | 2       | -       | -       | -       | -        | 1        |                    |





#### **VIVA Institute of Technology**





#### Department of Electronics and Telecommunication Engineering

## **Model Certificate**









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#### Department of Electronics and Telecommunication Engineering

## **Attendance Sheet:**







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### Department of Electronics and Telecommunication Engineering

## Name of Course: VLSI Design & Embedded Systems

Duration: 30 hours/ 1 week

| Date and Day     | Time          | Contents  |
|------------------|---------------|---|
|                  | 8.30 to 9.30  | Breakfast, Regwastration and Inauguration                               |
|                  | 9.30 – 11.30  | Basics of VLSI and Introduction to Hardware Description Languages       |
| 26 December 2017 | 11.30 – 11.45 | Tea Break   |
|                  | 11.45 – 12.45 | Behavioral Modeling & Structural Modeling                               |
|                  | 12.45-1.30    | Lunch Break   |
|                  | 1.30 -4.30    | Hands on practice - FPGA board  |
|                  | 9.00-11.00    | Introduction to PLDs FPGA design Classification of IC Technologies      |
|                  | 11.00-11.15   | Tea Break   |
| 27 December 2017 | 11.15-12.45   | CPLD Architecture and 1 specific IC FPGA Architecture and 1 specific IC |
|                  | 12.45 - 1.30  | Lunch Break   |
|                  | 1.30 – 4.00   | Testing of Logic circuits Hands on practice – FPGA board                |
|                  | 9.00-11.00    | Introduction to Raspberry Pi its features                               |
|                  | 11.00-11.15   | Tea Break   |
| 28 December 2017 | 11.15-12.45   | Basics of programming language use for Raspberry Pi                     |
|                  | 12.45 - 1.30  | Lunch Break   |
|                  | 1.30 - 4.00   | Hands on practice – Raspberry Pi  |





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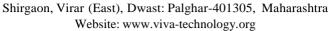
## Department of Electronics and Telecommunication Engineering

|                  | 9.00-11.00   | Basics of Embedded systems & recent trend      |  |  |  |  |  |
|------------------|--------------|--|--|--|--|--|--|
|                  | 11.00-11.15  | Tea Break                                      |  |  |  |  |  |
| 29 December 2017 | 11.15-12.45  | Embedded systems application                   |  |  |  |  |  |
|                  | 12.45 - 1.30 | Lunch Break                                    |  |  |  |  |  |
|                  | 1.30 – 4.00  | PCB designing using Eagle software             |  |  |  |  |  |
|                  | 9-12.45      | Basics of MOS Layout using micro wind software |  |  |  |  |  |
| 30 December 2017 | 12.45-1.30   | Tea Break                                      |  |  |  |  |  |
|                  | 1.30 - 4.00  | Valedictory Session                            |  |  |  |  |  |





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#### Department of Electronics and Telecommunication Engineering

## Report

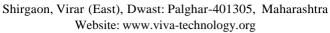
The objective of the Embedded Systems & VLSI Design course was to address the research, development and design problems and advance their solutions in VLSI circuits for embedded system and widespread computing applications. This course provides comprehensive coverage of VLSI Design and its hardware description languages while providing opportunities for Hands-on practical's on FPGA Board & Raspberry Pi.

This program dealt with the basic understanding, designing and simulation of the VHDL and Eagle software which provided practical exposure to the participants. The courseaimed at equipping students with skills and knowledge in order to create a better society by guiding, training and motivating the students to take up research projects. This 5 days Bridgecourse was conducted by **Prof. Pratik Parsewar** from **26**<sup>th</sup> **December to 30**<sup>th</sup> **December 2017** in Electronics and Telecommunication Engineering Department, VIVA Institute of Technology.





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#### Department of Electronics and Telecommunication Engineering

## **Course Objectives**

- To get familiarized with VLSI Design using VHDL.
- To learn about recent trends of research in field on Raspberry Pi and VLSI.
- After the completion of this course the participants will be able to design schematic and PCB Layout using Eagle software.
- Enhance the basic knowledge of Embedded Systems technology.

#### **Course Outcomes:**

- > Students will be able to get familiarized with VLSI Design using VHDL.
- > Students will be able to learn about recent trends of research in field on Raspberry Pi and VLSI.
- ➤ Students will be able to design schematic and PCB Layout using Eagle software.
- > Students will be able to enhance the basic knowledge of Embedded Systems technology.





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### Department of Electronics and Telecommunication Engineering

## CO-PO MAPPING

| Course  |         |         |         |         |         | F       | Program | o Outco | me      |          |          |                    |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|--------------------|
| Outcome | PO<br>1 | PO<br>2 | PO<br>3 | PO<br>4 | P0<br>5 | PO<br>6 | PO<br>7 | PO<br>8 | PO<br>9 | PO<br>10 | PO<br>11 | CO<br>Target level |
| CO1     | 2       | -       | -       | -       | -       | -       | -       | -       | -       | -        | -        | 2                  |
| CO2     | -       | 2       | -       | -       | -       | -       | -       | -       | -       | -        | -        | 2                  |
| CO3     | 2       | -       | -       | -       | -       | 2       | -       | -       | -       | -        | -        | 2                  |
| CO4     | 2       | ı       | -       | -       | -       | 1       | 1       | -       | ı       | 1        | ı        | 2                  |
| CO5     | -       | 2       | -       | -       | -       | -       | -       | -       | -       | ı        | ı        | 2                  |
| CO6     | -       | -       | -       | -       | 2       | -       | -       | -       | -       | -        | 1        | 1.5                |
|         | 2       | 2       | -       | -       | 2       | 2       | -       | -       | -       | -        | 1        |                    |





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## Attendance Sheet:







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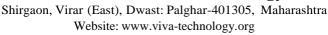
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### **Model Certificate**

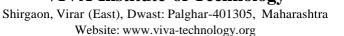


#### **Student Certificate:**





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## Department of Electronics and Telecommunication Engineering

## Name of Course: Software Workshop Duration: 30 hours

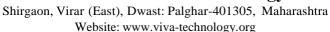
| Module | Contents  | Hours |
|--------|---|-------|
| 1      | Introduction Introduction to java, java buzzword, data types, dynamic initialization, scope and life time operators, control statements, arrays, type conversion and casting, finals & blank finals.  Classes and Objects: Concepts, methods, constructors, usage of static, access control, this key word,  Garbage collection, overloading, parameter passing mechanisms, nested classes and inner classes.  Inheritance: Basic concepts, access specifies, usage of super key word, method overriding, final methods and classes, abstract classes, dynamic method dispatch, Object class. | 8     |
| 2      | Interfaces: Differences between classes and interfaces, defining an interface, implementing interface, Variables in interface and extending interfaces.  Packages: Creating a Package, setting CLASSPATH, Access control protection, importing packages.  Exception Handling: Concepts of Exception handling, types of exceptions, usage of try, catch, throw, throws and finally keywords, Built-in exceptions, creating own exception sub classes.  | 8     |
| 3      | Strings: Exploring the String class, String buffer class, Command-linear arguments.  Library: Date class, Wrapper classes.  Multithreading: Concepts of Multithreading, differences between process and thread, thread life cycle,  Thread class, Runnable interface, creating multiple threads, Synchronization, thread priorities, inter  Thread communication, daemon threads, and deadlocks.  I/O Streams: Streams, Byte streams, Character streams, File class, File streams.  | 8     |
| 4      | Applets: Concepts of Applets, life cycle of an applet, creating applets, passing parameters to applets, accessing remote applet, Color class and Graphics  Event Handling: Events, Event sources, Event classes, Event Listeners,  Delegation event model, handling events.   | 6     |







#### **VIVA Institute of Technology**





#### Department of Electronics and Telecommunication Engineering

## Report

Duration: 8th Jan 2018 to 9th Apr 2018.

Venue: VIVA Institute Of Technology, Shirgaon.

Electronics & Telecommunication Engineering Department of VIVA Institute of Technology organized a 30 hours' certificate course on "Software Workshop" during 8<sup>th</sup> Jan 2018 to 9<sup>th</sup> Apr 2018.

The workshop was basically aimed to provide basic knowledge to second year of semester 4– EXTC students of JAVA language which was conducted by **Mr. Kushal Suvarna sir** as the s peaker who guided the participants.

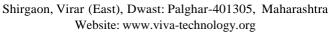
The event was a success with very positive feedback from the participants. The speech by the Principal **Dr. Arun Kumar** was an inspiring one that covered the broad future scopes of the field. The Principal being an encouraging one who said that for such events where in student development is involved, he will always be supportive. In the speech given by **Mrs. Archana Ingle**, H.O.D of EXTC, students gained an idea of how this workshop can be utilized to tak e creative projects in the field of software.

**Mr. Kushal Suvarna** sir introduced themselves to the participants and enlightened them about the fantastic and intriguing field of **JAVA software** and narrated their various achievements and their future plans.





#### **VIVA Institute of Technology**





#### Department of Electronics and Telecommunication Engineering

## Course Objectives

- 1. To understand the basic concepts and fundamentals of platform independent object oriented language.
- 2. To demonstrate skills in writing programs using exception handling techniques and multithreading.
- 3. To understand streams and efficient user interface design techniques.

## **Course Outcomes:**

After successful completion of the course, the students are able to

- ➤ 1. Use the syntax and semantics of java programming language and basic concepts of OOP.
- ➤ 2. Develop reusable programs using the concepts of inheritance, polymorphism, interfaces and packages.
- ➤ 3. Apply the concepts of Multithreading and Exception handling to develop efficient and error free codes.
- ➤ 4. Design event driven GUI and web related applications which mimic the real word scenarios.





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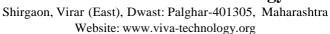
## **CO-PO MAPPING**

| Course  |         |         | Program Outcome |         |         |         |      |         |         |          |          |                    |
|---------|---------|---------|-----------------|---------|---------|---------|------|---------|---------|----------|----------|--------------------|
| Outcome | PO<br>1 | PO<br>2 | PO<br>3         | PO<br>4 | P0<br>5 | PO<br>6 | PO 7 | PO<br>8 | PO<br>9 | PO<br>10 | PO<br>11 | CO<br>Target level |
| CO1     | 2       | -       | -               | -       | -       | -       | -    | -       | -       | -        | -        | 2                  |
| CO2     | -       | 2       | -               | -       | -       | -       | -    | -       | -       | -        | -        | 2                  |
| CO3     | 2       | -       | -               | -       | -       | 2       | -    | -       | -       | -        | -        | 2                  |
| CO4     | 2       | 1       | -               | -       | -       | -       | -    | -       | -       | 1        | -        | 2                  |
|         |         |         |                 |         |         |         |      |         |         |          |          |                    |
|         | 2       | 2       | -               | _       | 2       | 2       | -    | -       | -       | -        | -        |                    |





#### **VIVA Institute of Technology**





Department of Electronics and Telecommunication Engineering

## **Model Certificate**







#### **VIVA Institute of Technology**



Shirgaon, Virar (East), Dwast: Palghar-401305, Maharashtra Website: www.viva-technology.org

#### Department of Electronics and Telecommunication Engineering

### **Attendance Sheet:**





#### **VIVA Institute of Technology**



Shirgaon, Virar (East), Dwast: Palghar-401305, Maharashtra Website: www.viva-technology.org

#### Department of Electronics and Telecommunication Engineering



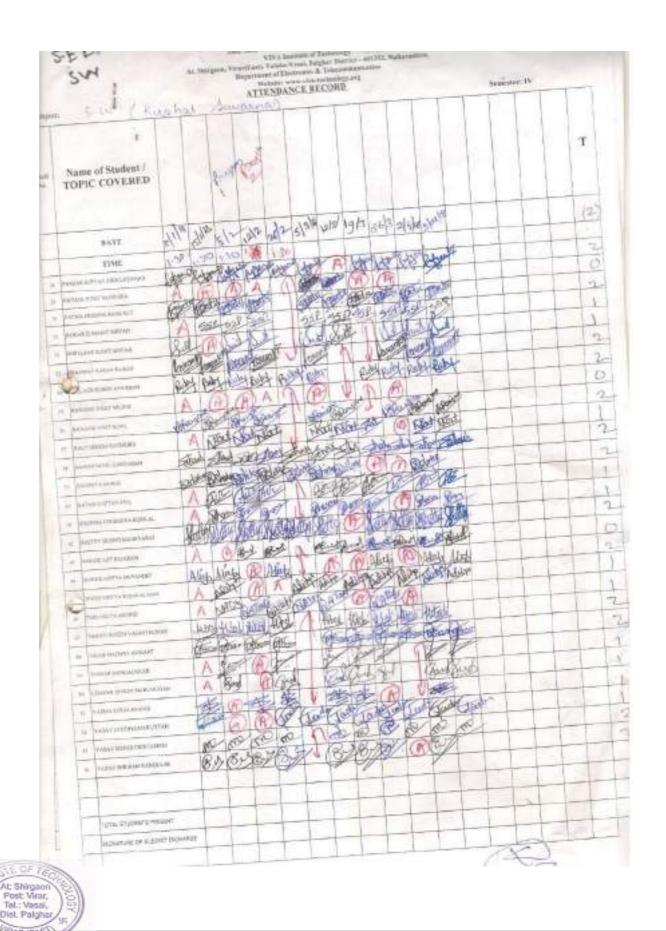


#### **VIVA Institute of Technology**



Shirgaon, Virar (East), Dwast: Palghar-401305, Maharashtra Website: www.viva-technology.org

#### Department of Electronics and Telecommunication Engineering



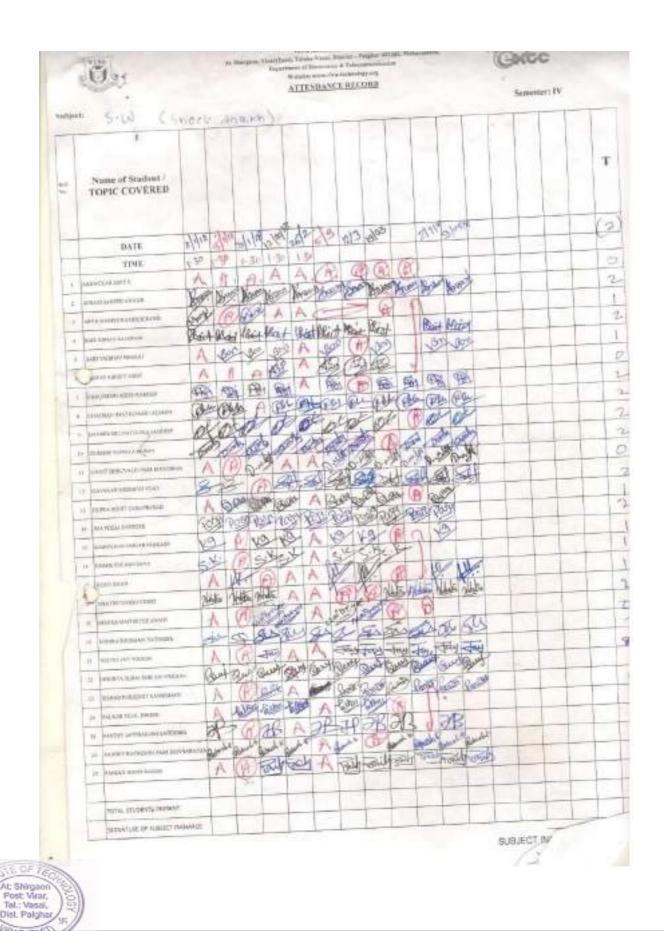


#### **VIVA Institute of Technology**



Shirgaon, Virar (East), Dwast: Palghar-401305, Maharashtra Website: www.viva-technology.org

#### Department of Electronics and Telecommunication Engineering



### **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR(EAST)

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

Late Shree Vishnu Waman Thakur Charitable Trust's

### VIVA Institute of Technology

Shirgaon, Virar (E)

Department of Mechanical Engineering

VIVA/VIT/MECH/STUDENT/2017-18

### NOTICE

All the shortlisted students of Mechanical Engineering are hereby informed to attend the Value Added Course organized by Department of Mechanical Engineering on the topic of "Advance Solid Works" from 3<sup>rd</sup> July to 07<sup>th</sup> July 2017.

Timing:-

1st Session:- 9.00 am - 12. pm

2nd session:- 1.00 pm - 4.00 pm

Venue:- CAD CAM Lab

Prof. Tejas Chaudhari

Faculty Co-ordinator

Prof. Niyati Raut

Date: 30/06/2017

HOD Mechanical



### **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR(EAST)

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

#### **Syllabus & Course Outcomes**

Course Name: Advance Solid Works

Academic Term: July 2017 to Dec 2017

#### Syllabus:

| Module   | Details  | Hours |
|----------|--|-------|
|          | Sketching with SolidWorks: 2D Sketching, sketching entities and        |       |
|          | relations, 3D Sketching, Editing & its features, Dimensions, Sketch    |       |
|          | tool, Mirror, Convert entity, Move & Copy                              |       |
| 1        | Part Modeling: Extrude and Cut extrude, Revolve and Sweep, View        | 6     |
|          | toolbar, Creating Reference geometries, Fillet and Chamfer, Hole       |       |
|          | wizard, Calculating weight/mass & other geometric properties, Export   |       |
|          | / Import of CAD files.   |       |
|          | Advanced Part Modeling: Adding ribs and draft, Circular and            |       |
| 2        | rectangular pattern, Shell and Boss feature, Configuration and Design  | 6     |
| <b>2</b> | Tables, Material Library & Assigning Material, Library Features &      | U     |
|          | Smart Fasteners, Boolean operations.                                   |       |
|          | Assembly Mode: Getting started with Assembly, Inserting                |       |
|          | components in assembly, Top-Down Assembly, Feature Manager             |       |
|          | Design tree & Symbols, Hiding components & controlling                 |       |
| 3        | transparency, Sub-Assemblies, Using mates in assembly, Use of Smart    | 6     |
|          | Fasteners, Bottom -Up Assembly, Interference detection and             |       |
|          | misalignment of holes, Exploding assemblies and adding explode         |       |
|          | lines.   |       |
|          | Generating detail drawings from Model: Drafting overview,              |       |
|          | Drawing sheets and views, Adding drawing views, View settings and      |       |
| 4        | drawing properties, Smart Dimensioning, Annotations and Symbols,       | 6     |
|          | Sheet Formats and Templates, Ballooning for nomenclature, Adding       |       |
|          | Bill of Material and tables.   |       |
|          | Surface Modeling / Sheet Metal: Introduction to surfacing tools,       |       |
| 5        | Sweep, Loft, Revolve, Offset etc., Filleting and trimming, Utilization | 6     |
|          | of Sheet Metal & forming tools.  |       |



Department of Mechanical Engineering; VIVA institute of technology, Shirgaon, Virar (East)

## **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR(EAST)

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

#### **Course Outcomes**

| Sr. No. | CO Code | Course Outcomes  |
|---------|---------|--|
| 1       | CO_1    | Visualize and prepare 2D & 3D modeling of a given object using solid works software. |
| 2       | CO_2    | Build solid model of a given object using solid works software.                      |
| 3       | CO_3    | Generate assembly models of given objects using assembly tools.                      |
| 4       | CO_4    | Perform product data exchange among CAD systems.                                     |
| 5       | CO_5    | Build solid model of a given object using surface modeling.                          |



#### Late Sirce Vishna Vishna Warren Charitable Trust's

VIVA Institute of Technology

At. Shirgson, Virar (East), Teluko-Vassi, Palgher District – 401305, Moherashira.

Department of Mechanical Engineering

#### VALUE ADDED COURSE - ADVANCE SOLID WORKS

Academic Year 2017-18

Course Duration: 3rd July to 7th July 2017

Time: 9.00 am to 12.00 pm

| 2012    | Name of Students                   | Class | Date       |            |            |            |            |  |  |
|---------|------------------------------------|-------|------------|------------|------------|------------|------------|--|--|
| Sr. No. |                                    |       | 03/07/2017 | 04/07/2017 | 05/07/2017 | 06/07/2017 | 07/87/2011 |  |  |
| 1       | ANSARI ALQAMA MOHAMMADSHARIF HAJRA | SE    | Pelt       | A          | A          | any        | ANH        |  |  |
| 2       | BHOSALE VINAYA VUAY SUMAN          | SE    | Visceta    | A          | Vistago    | WAS HO     | Viscop     |  |  |
| 3       | GADA DIPAM BIPIN REKHA             | TE    | A          | A          | am         | A          | an         |  |  |
| 4       | JAISWAL SHAILESH RAM PRAYESH BINDU | TE    | TALL       | ILL        | JASL       | A          | TAGE       |  |  |
| .5      | NADAR ISAAC AYYADURAI MUTHUPILLAI  | TE    | A          | AN         | ARY        | AN         | AM         |  |  |
| 6       | PORIYA KRUSHNA BABULAL MANJULABEN  | TE    | A          | BH         | 214        | RA         | BIM        |  |  |
| 7       | SAVE AALAP KISHOR ROHINI           | TE    | Pove       | Suc        | Low        | Sail       | Some       |  |  |
| 8       | BAMANIA AMISH NARAYANDAS           | BE    | Blu        | Bu         | A          | Bau        | A          |  |  |
| 9       | CHHEDA MAYANK HIREN                | BE    | mas.       | -pad       | A          | A          | ADOL       |  |  |
| 10      | HALGUNDE AKSHAY                    | BE    | AW         | A          | A-104      | -AAA       | MAN        |  |  |
| ti.     | KADAM ABHISHEK DILIP               | BE    | Mark       | Yeu        | Bar        | Wall       | Demy       |  |  |
| 12      | PATIL PRASAD RAMU                  | 38    | taew       | Cool       | Cole       | Koca       | teel       |  |  |
| 13      | SABALE ANIKET PRAKASH              | BE    | Shen       | Ch         | 2mm        | 6          | A          |  |  |
| 14      | SALASKAR GAURAV PRAKASH            | BE    | Spun       | A          | A          | gourn      | gem        |  |  |
| 15      | TAMBE CHINMAY                      | BE    | A.         | En         | Em         | Ken        | Kn         |  |  |

Faculty Co-ordinator (Mechanical Engineering Dept.) Prof. Niyati Raut HOD

(Mechanical Engineering Dept.)



Late Shree Vishna Vishna Warann Charleable Trusës

## VIVA Institute of Technology

At. Shirgson, Virur (East), Tritika-Vanni, Palghar District - 401305, Malianashani,

## Department of Mechanical Engineering

# VALUE ADDED COURSE - ADVANCE SOLID WORKS

Academie Year : 2017-18

Course Duration ; 3rd July to 7th July 2017

Time: 1.00 pm to 4.00 pm

| urse Dura | sion : 3rd July to 7th July 2017   |       | Г          |            | Date       |  |                  |
|-----------|------------------------------------|-------|------------|------------|------------|--|------------------|
|           | Name of Students                   | Class | 03/07/2017 | 04/07/2017 | 05/07/2017 | 06/07/2017   | 07/07/201<br>And |
| ir. No.   |                                    | SE    | And        | Anut       | And        | FINH UM  | DAY              |
| 1         | ANSARI ALQAMA MOHAMMADSHARIF HAJRA | SE    | A          | Brus       | A          | Burt a   | 0-               |
| 2         | BHOSALE VINAYA VIJAY SUMAN         | TE    | @m         | Com        | On         | The state of the s | 1                |
| 1         | GADA DIPAM BIPIN REKHA             | -     | THAT       | 1          | TASL       | CHANN  | A                |
| 4         | JAISWAL SHAILESHRAM PRAVESH BINDU  | TE    | II Breat   |            | Ans        | 7 Par  | APP.             |
| 5         | NADAR ISAAC AYYADURAI MUTHUPILLAI  | TE    | OA.        | 1 Suns     | (V)        | A  | Present          |
| -         | PORIYA KRUSHNA BABULAL MANJULABEN  | TE    | Janengas   | 19         | X          | A  | Your             |
| 6         | SAVE AALAP KISHOR ROHINI           | TE    | Sou        | esu-       | Bau        | Colour   | Bru              |
| 7         | BAMANIA AMISH NARAYANDAS           | BE    | Du         | -          | ^          | mes  | me               |
| 8         |                                    | BE    | A          | me         | 1          | A  | A                |
| 9         | CHHEDA MAYANK HIREN                | BE    | A          | Alm        | Am         | -  |                  |
| 10        | HALGUNDE AKSHAY                    | BE    | Kom        | Fair       | Ham        | 0  | 10               |
| 11        | KADAM ABHISHEK OILIP               | BE    | yas.       | toro       | Yeur_      | land   | rau              |
| 12        | PATIL PRASAD RAMU                  | -     |            | A. S.      | A. S.      | A. S.  | A. S.            |
| 13        | SABALE ANIKET PRAKASH              | BE    | AS.        | 1.         | A          | Chn  | A                |
| 14        | SALASKAR GAURAY PRAKASH            | BE    | She        | Shu        | A          | Tem  | ton              |
| 15        | TAMBE CHINMAY                      | BE    | town       | Tan        |            | 1 /6 1.55  |                  |

Faculty Co-ordinator (Mechanical Engineering Dept.) Prof. Neati Raut

(Mechanical Engineering Dept.)





## VIVA Institute of Technology

Approved by AICTE New Delhi, DTF, Govt. of Maharashtra and Affiliated to University of Mumbai Shirgaon, Virar(E.), Dist. Palghar-401305, Maharashtra

## CERTIFICATE

This to certify that Dr. / Mr. / Ms. GADA DIPAM BIPIN REKHA

has attended a Short Term Training Program on "ADVANCE SOLID WORKS" during the period 3<sup>rd</sup> July - 7<sup>th</sup> July, 2017 at Department of Mechanical Engineering, VIVA Institute of Technology, Shirgaon, Virar.

Pris

Mr. Tejas Chaudhari (CO-ORDINATOR) MAGUE

Mrs, Niyati Raut (HEAD OF THE DEPARTMENT) Tum

Dr. Arun Kumar (PRINCIPAL)



#### **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

Late Shree Vishnu Waman Thakur Charitable Trust's

### VIVA Institute of Technology

Shirgaon, Virar (E)

Department of Mechanical Engineering

VIVA/VIT/MECH/STUDENT/2017-18

Date: 29/12/2017

### NOTICE

All the shortlisted students of Mechanical Engineering are hereby informed to attend the Value Added Course organized by Department of Mechanical Engineering on the topic of "ANSYS (Engineering Simulation)" from 02<sup>nd</sup> January to 06<sup>th</sup> January 2018.

Timing:-

1st Session:- 9.00 am - 12. pm

2<sup>nd</sup> session:- 1.00 pm - 4.00 pm

Venue:- CAD CAM Lab

Prof. Teiss Chaudhari

Faculty Co-ordinator

Prof. Niyati Raut

HOD Mechanical



### **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

# DEPARTMENT OF MECHANICAL ENGINEERING Syllabus & Course Outcomes

Course Name: ANSYS (Engineering Simulation)

Academic Term: Jan 2018 to May 2018

#### Syllabus:

| Module | Details   | Hours |
|--------|---|-------|
| 1      | <b>Solid Modeling:</b> An Overview of Solid Modeling Operations, Working with Boolean operations, Working Plane, Importing of 3D models.  | 4     |
| 2      | Meshing: Free meshing or Mapped meshing, Setting Element Attributes, Selecting Element Type, Shape Function, DefiningElement Types, Defining Section Properties, Assigning Element Attributes before meshing, Mesh Controls, The ANSYS Mesh Tool, Smart sizing, Meshing, Free Meshing, Mapped Meshing, Hybrid meshing, Mesh Extrusion, Volume Sweeping. | 8     |
| 3      | Boundary Conditions: Types of Loads, Applying loads.  Solvers: Types of Solvers, Solver Setup, Load Step Options, Solving Multiple Load Steps.  | 6     |
| 4      | <b>Tips &amp; Tricks:</b> Using the Toolbar & Creating Abbreviations, Introduction to APDL, Using Parameters, Using the Start File, Using the Session Editor, Using Input Files.  | 4     |
| 5      | ANSYS Workbench: Introduction to ANSYS Workbench, Graphical User Interface, Static Structural Analysis, Modal Analysis, Thermal Analysis, Contact Recognition.  | 8     |

Department of Mechanical Engineering; VIVA institute of technology, Shirgaon, Virar (East)



## **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

#### **Course Outcomes**

| Sr. No. | CO Code | Course Outcomes  |
|---------|---------|--|
| 1       | CO_1    | Apply basic aspects of Analysis to solve engineering problems. |
| 2       | CO_2    | Select suitable meshing and perform convergence test.          |
| 3       | CO_3    | Apply basic aspects to solve engineering problems.             |
| 4       | CO_4    | Perform basics tricks and tips to solve engineering problems.  |
| 5       | CO_5    | Interpret the result.  |

#### Late Shree Vishou Vishou Warran Chartsble Trucks

#### VIVA Institute of Technology

At Shirgian, Vimr (East), Taluko-Vasai, Palghar District – 401303, Mahanishira Department of Mechanical Engineering

#### VALUE ADDED COURSE - ANSYS (Engineering Simulation)

Academic Year 2017-18

Course Duration : 2nd Jan to 6th Jan 2018

Time: 9.00 am to 12.00 pm

| Sr. No.  | Name of Students                   | Class | Date       |            |            |            |            |  |  |
|----------|------------------------------------|-------|------------|------------|------------|------------|------------|--|--|
| .,,,,,,, |                                    |       | 02/01/2018 | 03/01/2018 | 04/01/2018 | 05/91/2018 | 06/01/2018 |  |  |
| -1       | GHARAT VARUN RAVINDRA SAROJ        | SE    | DE         | 000-       | Does       | Ma         | è-         |  |  |
| 2        | HASE NIKHIL BALASAHEB PRATIBHA     | SE    | ALKER      | - Day      | alchy      | mus        | AM         |  |  |
| 3        | PATIL NIHAR AJAY ARCHANA           | SE    | A          | Nie        | A          | Nime       | A          |  |  |
| 4        | DALBANIAN PUSHPAK GOPAL SHOBHA     | TE    | A -        | GOPPL      | GOLDE      | GORAL      | 3014       |  |  |
| 5        | KADAM GANESH BALASAHEB SEEMA       | TE    | @          | @          | A          | @          | @          |  |  |
| 6        | KOLHE ANIKET KERUBHAU MEERA        | TE    | Anti       | Hazer      | A          | A-         | Avet       |  |  |
| 7        | GADA DIPAM BIPIN REKHA             | TE    | Oim.       | Quena.     | Dipon      | A          | Copun      |  |  |
| 1        | JAISWAL SHAILESH RAM PRAVESH BINDU | TE    | JASA       | A          | JASK       | TAL        | Toul       |  |  |
| 9        | AWERE SURAJ SURESH                 | 86    | Quet-      | - curry    | curry_     | Surg       | graph.     |  |  |
| 10       | BEHERE GAJANAN PRAMOD              | BE    | and        | 024        | Carry.     | 0          | A          |  |  |
| 11       | CHINDARKAR GAYENDRA VASUDEV        | BE    | WASH       | WAR ON     | A          | whom -     | A          |  |  |
| 12       | MADAY MITESH                       | BE    | A          | 00         | A          | me         | ma-        |  |  |
| 13       | DEVKATE NISHANT RAJARAM            | DE    | A-         | ATTALL     | ATHOU      | AND THE    | ATHE       |  |  |
| 14       | GHOSH PUUSH SARIT                  | BE    | PI.        | PI.        | II.        | P.T.       | PI         |  |  |
| 15       | RAUT SHREYANK PRAKASH              | BE    | SL         | Sh         | 5h         | Sh         | SK         |  |  |
| 16       | SAWANT SHUBHAM RAVINDRA            | BE    | Shiller    | A          | subh       | shubh      | A          |  |  |
| 17       | NAIK AKHIL SADANAND                | 38    | Audie      | Alexin     | Juhie .    | AREA       | Andria     |  |  |
| 18       | SUTHAR VIKESH KIRITBHAI            | BE    | WHEST      | U best     | A          | A          | trace.     |  |  |

Prof. Trias Chaudhari Faculty Co-ordinator

(Mechanical Engineering Dept.)

Prof. Nyati Raut H.O.D

(Mechanical Engineering Dept.)



Late Stree Vision Vision Water Character Trusts

#### VIVA Institute of Technology

At. Shargeon, Virter (East), Taluka-Vasas, Palgher District - 40(5):5, Maharashitta

#### Department of Mechanical Engineering

#### VALUE ADDED COURSE - ANSYS (Engineering Simulation)

Academic Year 2017-18

Course Duration | 2nd Jan to 6th Jan 2018

Time: 1.00 pm to 4.00 pm

| Sr. No.  | Name of Students                   | Claus | Date       |             |            |            |           |  |  |
|----------|------------------------------------|-------|------------|-------------|------------|------------|-----------|--|--|
| Sr. 190. |                                    |       | 62/91/2019 | 03/01/2018  | 64/01/2978 | 01/01/2018 | 96/01/201 |  |  |
| 1        | CHARAT VARUN RAVINDRA SARCII       | SE    | DOR-       | De-         | Me.        | ac.        | Je.       |  |  |
| 2        | HASE NIKHIL BALASAHEB PRATIBISA    | 51    | A          | acted       | -ALLAS     | -air       | ALLA      |  |  |
| ).       | PATEL NIBAR ALAY ARCHANA           | 54    | A-         | Vers-       | A          | A          | 1         |  |  |
| 4        | DALBANIAN PUSHPAK GOPAL SHORKA     | п     | GOPAL      | Gotte       | GOPPE      | Golf       | Geffil    |  |  |
| 5        | KADAM GANESH BALASAHEB SEEMA       | п     | 6          | Q           | Q .        | @          | 6         |  |  |
| 6        | KOLFE ANIKET KERUTHAU MEERA        | TI.   | AST        | A-out       | AUTT       | AUNIT      | 45.74     |  |  |
| ,        | GAZIA DIPAM BIPIN REKHA            | п     | Boom       | A           | A          | A          | O'seed    |  |  |
|          | JAISWAL SHAILESH KAM PRAVESH BINDU | π     | JACT       | A           | The same   | Jan        | JA        |  |  |
|          | AWERE SURAI SURESH                 | DE    | Seas -     | A-          | Sugar      | 800        | 6         |  |  |
| 19       | BICHERE GAJANAN PRAMOD             | 10    | Gara       | -           | Cor        | (0)        | (Du       |  |  |
| 11       | CHINDARKAR GAYENDRA VASUDEV        | DE    | 1          | - VA        | - M29-     | ^          | +10       |  |  |
| 17       | MADIAY MITESH                      | DE    | A-         | wo          | ma         | A-         | mo        |  |  |
| 11       | DEVKATE NISHANT RAJARAM            | 01    | DHE        | DAN         | OHA-       | Dinn       |           |  |  |
| 14       | GHOSH PUUSH SARIT                  | pt.   | IJ.        | PJ.         | PI.        | P.J.       | P.J.      |  |  |
| 15       | RAUT SHREYANK PRAKASH              | DE    | 8h.        | 1-          | Sh         | Sh         | Sh        |  |  |
| 16       | SAWANT SHUBBIAM PAVINDRA           | DE    | Shutt      | Suph        | Shubs      | shuth      | Share!    |  |  |
| 17       | NAIK ALIER SADANAND                | BE    | Alle       | AKAL        | LIKAL-     | 1165       | المنالا   |  |  |
| 18       | SUTHER VALISH KIRITINAL            | DL    | 4-1-63     | Market Land | #          | 24         | 310       |  |  |

Prof. Tejn Claudhari Facility Coordelator (Machanical Engineering Dept.) Prof. North Raut (COD (Mechanical Engineering Dept.)

At: Shingson
Post Virar,
Tal.: Vasal,
Dist. Palghar
Shingson
Wife (E)S



## VIVA Institute of Technology

Approved by AICTE New Delhi, DTE, Govt. of Maharashtra and Affiliated to University of Mumbai Shirgaon, Virar(E.), Dist: Palghar-401305, Maharashtra

## CERTIFICATE

This to certify that Dr. / Mr. / Ms. \_\_\_JAISWAL SHAILESH RAM PRAVESH BINDU has attended a Short Term Training Program on "ANSYS (Engineering Simulation)" during the period 2<sup>nd</sup> Jan - 6<sup>th</sup> Jan, 2018 at Department of Mechanical Engineering, VIVA Institute of Technology, Shirgaon, Virar.

Ross

Mr. Tejas Chaudhari (CO-ORDINATOR) Mant

Mrs. Niyati Raut (HEAD OF THE DEPARTMENT) Thuman

Dr. Arun Kumar (PRINCIPAL)



### VIVA INSTITUTE OF TECHNOLOGY

SHIRGAON, VIRAR (EAST)

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

Late Shree Vishnu Waman Thakur Charitable Trust's

## VIVA Institute of Technology

Shirgaon, Virar (E)

Department of Mechanical Engineering

VIVA/VIT/MECH/STUDENT/2017-18

Date: 29/12/2017

## NOTICE

All the shortlisted students of B.E. Mechanical Engineering are hereby informed to attend the Value Added Course organized by Department of Mechanical Engineering on the topic of "Introduction to Ultrasonic Non Destructive Testing (UT) Method" from 02<sup>nd</sup> January to 06<sup>th</sup> January 2018.

Timing:-

1st Session:- 9.00 am - 12.00 pm

2<sup>nd</sup> session:- 1.00 pm - 4.00 pm

Venue: - CAD CAM Lab

Prof. Tejas Chaudhari

Faculty Co-ordinator

Prof. Niyati Raut

HOD Mechanical



Department of Mechanical Engineering; VIVA institute of technology, Shirgaon, Virar (East)

### **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

# DEPARTMENT OF MECHANICAL ENGINEERING Syllabus & Course Outcomes

Course Name: Introduction to Ultrasonic Non Destructive Testing (UT) Method

Academic Year: 2017-18

#### **Syllabus:**

| MODULE | DETAILS   | HOURS |
|--------|---|-------|
|        | Module 1: Basic Principles of Non-Destructive Testing |       |
| 1      | Definition and importance of NDT                      |       |
|        | Types of NDT methods                                  |       |
|        | Visual testing (VT)                                   |       |
|        | Liquid penetrant testing (PT)                         | 5     |
| 1      | Magnetic particle testing (MT)                        | 5     |
|        | Eddy current testing (ET)                             |       |
|        | Radiographic testing method (RT)                      |       |
|        | Ultrasonic testing (UT)                               |       |
|        | Comparison of different NDT methods                   |       |
|        | Module 2: Basic Ultrasonic Testing                    |       |
| 2      | Advantages of Ultrasonic Tests                        | 4     |
| 2      | Limitations of Ultrasonic Tests                       | 4     |
|        | Criteria for Successful Testing                       |       |
|        | Module 3: Ultrasonic Waves in Materials               |       |
| 3      | Definition of Wave and Wave Properties                | 5     |
| 3      | Ultrasonic Attenuation                                | 5     |
|        | Nonlinear Elastic Waves                               |       |
|        | Module 4: Implementation of Ultrasonic Testing        |       |
|        | Transmission and Reflection Techniques                |       |
|        | Ultrasonic Test Systems                               |       |
| 4      | Ultrasonic Sources Typical Transducer Characteristics | 8     |
|        | Through-Transmission Systems                          |       |
|        | Pitch and Catch Contact Testing                       |       |
|        | Amplitude and Transit Time Systems                    |       |

## **VIVA INSTITUTE OF TECHNOLOGY**

SHIRGAON, VIRAR (EAST)

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

|   | B-Scan Presentation                                       |   |
|---|---|---|
|   | C-Scan Presentation                                       |   |
|   | System Calibration  |   |
|   | Major System Parameters                                   |   |
|   | Module 5: Ultrasonic Testing Equipment                    |   |
|   | Basic Ultrasonic Test Systems                             |   |
|   | Portable Instruments                                      |   |
| 5 | Capabilities of General Purpose Ultrasonic Test Equipment | 8 |
|   | Modular Ultrasonic Equipment                              |   |
|   | Special Purpose Ultrasonic Equipment                      |   |
|   | Operation in Large Testing Systems                        |   |

#### **Course Outcomes:**

| SR.<br>NO. | CO<br>CODE | COURSE OUTCOMES  |
|------------|------------|--|
| 1          | CO_1       | Apply basic aspects of Inspection to solve engineering problems. |
| 2          | CO_2       | Understand the basic concept of Ultrasonic Testing.              |
| 3          | CO_3       | Identify the various Ultrasonic Waves in Materials.              |
| 4          | CO_4       | Understand an implementation of Ultrasonic Testing.              |
| 5          | CO_5       | Understand the concept of Ultrasonic Testing Equipment.          |

#### VIVA Institute of Technology

At. Shingson, Virar (East), Talekin-Vosai, Palghai District - 401305, Maharashtra.

### Department of Mechanical Engineering

## VALUE ADDED COURSE - Introduction to Ultrasonic Non Destructive Testing (UT) Method

Academic Year 2017-18

Course Duration : Ind Jan to 6th Jan 2018

Time: 9,00 am to 12,00 pm

|         |                             |       |            |            | Date   |                                 |  |
|---------|-----------------------------|-------|------------|------------|--|---------------------------------|--|
| Sr. No. | Name of Students            | Class | 02/01/2018 | 03/01/2018 | 94/01/2018                                   | 05/01/2018                      | 04/01/201  |
| 1       | BHCIR MITHILESH D           | 8E    | MBN=       | AB         | mBr=   | 178hz                           | TBIS   |
| 2       | BHOLE AISHWARYA RAJENORA    | 8E    | Blow       | Blu        | Idan   | Ber                             | Bur  |
| 3       | CHAVAN GAURAV SHASHIKANT    | 86    | GOUVEN     | Gawor      | Gawal  | Jugaroy                         | Given  |
| A       | CHHEDA DEEP HITEN           | 36    | Dod        | ang        | AB   | dop                             | Post   |
| 3       | DHOLE VISHAL SURESH         | BE    | 13.        | De.        | 2  | SP.                             | 50   |
| 6       | GADE RUPAL TUKARAM          | HE    | AB         | Bule       | (Rock  | (Bole                           | Photo  |
| 7       | GADE SACHIN B               | DE    | Cour       | Coulin     | South  | action                          | Sucha  |
| 8       | GAIK WAD HRISHIKESH ROHIDAS | BE    | 4          | CH         | CA   | AB                              | (th)   |
| 9       | GURAY MAHADEO               | 8E    | (nb)       | m.         | (mb)   | Co                              | 04   |
| 10      | JADHAV SWAPNIL MARENDRA     | BE    | July       | Tolke      | South  | Solli                           | AB   |
| 311     | JAIN HARSHAD GANESH         | BE    | "Fluin     | The        | Twin   | Hun                             | Hom  |
| 12      | JAMBHALE CHINMAY SANJAY     | 86    | a          | (8         | Œ.   | 4                               | (I   |
| 13      | KALAMBE NEHA                | 8E    | Deulen.    | Kalend     |  | Newborks                        | Tkulon   |
| 14      | KALE ABHIJIT MANOJ          | 8E    | pala       | Role       | AB   | dule                            | Kale   |
| 15      | KANNAUJIVA SANJAY ACHHELAL  | BE.   | SanJe      | Sutty      | Suty   | Southey                         | Justy  |
| 16      | MORE DNY ANESHWAR           | 8E    | 90         | M          | Son  | En)                             | B  |
| 17:     | MORE SANYOG UDAY            | 8E    | 1          | (SD)       | 100  | 1                               | 10   |
| 18      | NAVEE HITESH KANUBHAI       | 96    | Hitech     | HITEL      | T-12-17-17-17-17-17-17-17-17-17-17-17-17-17- | AB                              | HITES  |
| 19      | PARTH PABARI                | BE    | 8          | Person     | Path   | Auth                            | Parth  |
| 20      | PATIL PRATIK MAHENDRA       | BE    | Gabi       | grand      | (Dech)                                       | Patil                           | 1  |
| 21      | PATIL SANDESH H             | BE    | Robit      | AB         | 9  | Devil)                          | 4  |
| 22      | PATIL SANKET JAVANTA        | BE    | Ludi       | Potil      | toul -                                       | 1                               | 3  |
| 20      | SANKHE MAYURESH DINESH      | .045  | 603        | 923        | . 93   | . 783                           | ens.   |
| 24      | SARAK MAHESH LALASO         | BE    | JARRY.     | HOSE       | AB   | HALL                            | ARQ.   |
| 25      | SINGH DIVYANSH VIRENDRA     | BE    | 2          | 200        | <b>B</b>                                     | $\mathcal{B}_{\mathcal{A}}$     | The same of the sa |
| 26      | SINGH PAWAN DIWAN           | BE    | #          | #          | 15   | #                               | 1  |
| 27      | WADKAR ANURAG NARAYAN       | BE    | Am.w       | AIN.W      | AINI   | The second second second second | HW.W   |
| 28      | WANI ABHISHEK BALASAHEB     | BE    | MAGE       | MB         | when   | up-                             | MAN  |
| 29      | YADAV HARIKESH CHHATRADHARI | BE    | Humi       | Hon        | Homi   | Hami                            | Hom  |
| 30      | YADAV SUJEETKUMAR           | DE    | 89.        | 59.        | Se   | Sy                              | AB   |

Prof. Total Chaudhari Faculty Co-ordinator (Mechanical Engineering Dept.) Prof. Najati Raut H.O.D (Mechanical Engineering Dept.)



#### VIVA Institute of Technology

As Shirgaon, Virar (East), Taluka-Vosai, Poligiur District - 401305, Maharashira.

### Department of Mechanical Engineering

## VALUE ADDED COURSE - Introduction to Ultrasonic Non Destructive Testing (UT) Method

Academic Year : 2017-18

Course Duration ; 2nd Jan to 6th Jan 2018

Time: 1.00 pm to 4.00 pm

| San A   | ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) |       |            |            | Date   |            |          |
|---------|---|-------|------------|------------|--|------------|----------|
| Sr. No. | Name of Students                        | Class | 02/01/2018 | 03/01/2018 | 04/01/2018   | 05/01/2018 | 06/01/20 |
| 1       | BHOIR MITHILESH D                       | DE    | PB-        | AB         | mBt=   | ugha       | 178ths   |
| 2       | BOHOLE AISHWARYA RAJENDRA               | BE    | Blue       | Bhile      | Dole   | Bhuk       | Bhu      |
| 3       | CHAVAN GAURAV SHASHIKANT                | 30 1  | Gauras     | Bourne     | Gourn  | Gowas      | -        |
| 4       | CHHEDA DEEP HITEN                       | BE    | Doch       | Deep       | AB   | Sterl      | Dog      |
| 5       | DHOLE VISHAL SURESH                     | 38    | 0          | (1)        | S  | #          | 3        |
| 0       | GADE RUPAL TUKARANI                     | BE    | AB         | (Roke      | Dock   | Poch       | Pho      |
| 7       | GADE SACHIN B                           | BE    | Coult      | South      | Suchin   | Cachin     | Sulv     |
| 8       | GAIKWAD HRISHIKESH ROHIDAS              | BE    | Ch         | (H)        | CH   | AB         | 1        |
| 9       | GURAV MAHADEO                           | BE    | (7)        | (M)        | 0  | 0          | 1        |
| 10      | JADHAY SWAPNIL MAHENDRA                 | BE    | Sunter     | Lection    | Suther   | Jodhu.     | Joth     |
| 11      | JAIN HARSHAD GANESH                     | BE    | Hom-       | Tun-       | Tub-   | AB         | Toil     |
| 12      | JAMBHALE CHINMAY SANJAY                 | BE    | 8          | (F)        | OZ.  | (#)        | CZ       |
| 13      | KALAMBE NEHA                            | B£    | Modernic   | Phalanks   | 1 Kalut  | Notak      | Mede     |
| 14      | KALE ABHUIT MANOJ                       | BE    | Kake       | Kale       | A-B  | flore      | polk     |
| 15      | KANNAUJIYA SANJAY ACHHELAL              | BE    | Control    | Sentis     | Somo   | Syl        | Soud     |
| 16      | MORE DNYANESHWAR                        | Вε    | AB .       | SID .      | TAP .  | TD)        | M        |
| 17      | MORE SANYOG UDAY                        | 38    | 10         | 10         | D  | ARD .      | 100      |
| 18      | NAYEE HITESH KANUBHAI                   | BE    | Hitesh     | Hitch      | The second secon | AB         | HHE      |
| 19      | PARTIA PABARI                           | BE    | Penth      | - Parti    | Fort   | Porth      | fauth    |
| 30      | PATIL PRATIK MAHENDRA                   | BE    | AB         | Petil      | P/44   | CELL       | 9/1      |
| 21      | PATIL SANDESH H                         | BE    | Seedil     | Pertil     | Sorti  | 3          | But      |
| 22      | PATIL SANKET JAYANTA                    | BE _  | -          | - W        | 1  | Hedi!      | 14       |
| 23      | SANKHE MAYURESH DINESH                  | BE    | 3          | (Carl      | By   | 820        | 637      |
| 24      | SARAK MAHESH LALASO                     | DE    | 7-1621     | Hide       | AB   | 1221       | A1 95    |
| 25      | SINGH DIVYANSH VIRENDRA                 | BE    | 78         | B          | B  | 38         | B        |
| 26      | SINGH PAWAN DIWAN                       | BE    | 4          | -8         | +  | £          | #        |
| 27      | WADKAR ANURAG NARAYAN                   | BE    | ANW        | A.N.W      | -  | AN.W       | MAH      |
| 28      | WANI ABHISHEK BALASAHEB                 | BE    | wan        | AB .       | WHIT   | mon        | WA       |
| 29      | YADAV HARIKESH CHHATRADHARI             | BE    | Horri      | Havi       | Hori   | Hori       | Han      |
| 30      | YADAV SUJEETKUMAR                       | BE    | 54.        | SY.        | Sy   | 59.        | AB.      |

At: Shirgaon
Post: Virar,
Tol.: Vasol,
Dist. Polighar
ISI

Prof. Tejas Chaudhari Faculty Co-ordinator (Mechanical Engineering Dept.) Prof. Nati Raut

(Mechanical Engineering Dept.)



## VIVA Institute of Technology

Approved by AICTE New Delhi, DTE, Govt. of Maharashtra and Affiliated to University of Mumbai

Shirgaon, Virar(E.), Dist: Palghar-401305, Maharashtra

### CERTIFICATE

This to certify that Dr. / Mr. / Ms. PATIL PRATIK MAHENDRA

has attended a Short Term Training Program on "Introduction to Ultrasonic Non Destructive Testing (UT) Method" during the period 02<sup>nd</sup> Jan to 06<sup>th</sup> Jan, 2018 at Department of Mechanical Engineering, VIVA Institute of Technology, Shirgaon, Virar.

Ataudhari

Mr. Tejas Chaudhari (CO-ORDINATOR) Mount

Mrs. Niyati Raut
(HEAD OF THE DEPARTMENT)

Dr. Arun Kumar (PRINCIPAL)



## **VALUE ADDED COURSE**

| Name of Course:       | Electrical Safety Practices | Branch:             | Electrical Engineering |
|-----------------------|-----------------------------|---------------------|------------------------|
| Duration:             | 30 Hours                    | Coordinator:        | Prof. Piyali Mondal    |
| Date of Commencement: | 4 Jul 2017                  | Date of Conclusion: | 4 Oct 2017             |

|          | Course Outcomes  |  |  |  |  |  |  |
|----------|--|--|--|--|--|--|--|
| Upon suc | Upon successful completion of the course, the student must be able to  |  |  |  |  |  |  |
| CO1      | Understand the Indian power sector organization and Electricity rules, electrical safety in residential, commercial, agriculture, hazardous areas and use of fire extinguishers. |  |  |  |  |  |  |
| CO2      | Outline the electrical safety during installation, testing, and commissioning procedures.  |  |  |  |  |  |  |
| CO3      | Make use of specifications of electrical plants and classification of safety equipment for various hazardous locations.  |  |  |  |  |  |  |
| CO4      | Distinguish various fire extinguishers and their classification.   |  |  |  |  |  |  |

|  | Syllabus  |   |  |  |  |  |  |  |
|--|---|---|--|--|--|--|--|--|
| Unit No.                                     | Contents  |   |  |  |  |  |  |  |
| 1  | Introduction To Electrical Safety, Shocks And Their Prevention:  Term and definitions, objectives of safety and security measures, Hazards associated with electric current and voltage, who is exposed, principles of electrical safety, Approach to prevent Accidents, the scope of subject electrical safety. Primary and secondary electrical shocks, possibilities of getting an electrical shock and its severity, medical analysis of electric shocks and its effects, shocks due to flash/ Spark over's, prevention of shocks, safety precautions against contact shocks, flash shocks, burns, residential buildings, and shop. | 6 |  |  |  |  |  |  |
| 2  | Overview of the Safety Model: Wiring and fitting, Domestic appliances, water tap giving a shock, shock from the wet wall, fan firing shock, multi-storied building, Temporary installations, Agricultural pump installation, Do's and Don'ts for safety in the use of domestic electrical appliances.   | 6 |  |  |  |  |  |  |
| 3  | Electrical Hazards recognizing and Evaluating Preliminary preparations, safe sequence, the risk of plant and equipment, safet documentation, field quality, and safety, personal protective equipment, safety clearance notice, safety precautions, safeguards for operators, safety.   |   |  |  |  |  |  |  |
| At: Shingson<br>Post: Virar,<br>Tel.: Vassi, | Controlling Hazards: Safe Work Environment:  Hazardous zones, class 0, 1 and 2, spark, flashovers, and corona discharge and functional requirements, Specifications of electrical plants, equipment for hazardous   | 6 |  |  |  |  |  |  |

|   | locations, Classification of equipment enclosure for various hazardous gases and vapors, classification of equipment/enclosure for hazardous locations.  |   |
|---|--|---|
| 5 | Controlling Hazards: Safe Work Practices: Fundamentals of fire, initiation of fires, types; extinguishing techniques, prevention of fire, types of fire extinguishers, fire detection and alarm system; CO <sub>2</sub> and Halogen gas schemes; foam schemes, Ladder safety fact sheet, Avoid wet working conditions and other dangers, Avoid overhead powerlines | 6 |

#### **Learning Resources**

#### **Text Books:**

1. Rao, S. and Saluja, H.L., "Electrical Safety, Fire Safety Engineering and Safety Management", Khanna Publishers, 1988.

#### **Reference Books:**

- 1. Cooper. W.F, "Electrical safety Engineering", Newnes-Butterworth Company, 1978.
- 2. John Codick, "Electrical safety handbook", McGraw Hill Inc., New Delhi, 2000.
- 3. Nagrath, I.J., and Kothari, D.P., "Power System Engineering", Tata McGraw Hill, 1998.
- 4. Wadhwa, C.L., "Electric Power Systems", New Age International, 2004.



VIVA Institute of Technology, Virar
SUBJECT: Electrical Safety Praviles (ESP) T.E. ELECTRICAL (2017-2018)
SUBJECT INCHARGE: Piyal Mandel

| R.  | Name                     | 4/9/11 | \$/9/17  | 6/4/17  | 14/4/17    | 1 12/7/17 | 13/4/1  | 13/-91   | 19/2/17  | P      | C      | 1 |
|-----|--------------------------|--------|----------|---------|------------|-----------|---------|----------|----------|--------|--------|---|
| No. | Ten                      | 200    |          |         |            |           | 100     |          |          | _      |        | L |
| 1   | AMBHIRE SNERAL MARIESH   | Smi    | 25mc     | SEE     | SEME       | 2 2001    | 3500    | 2 534    | SAA      | 1      |        | L |
| 2   | ASODARIYA JANDEEP K.     |        |          |         | - Constant |           |         |          |          |        |        | - |
| 3   | BAGUL AKSHAY VILAS       | Plate  | AHM      | A       | Atom       | Atch      | AKAN    | Ard-     | LANS     |        |        | _ |
| 4   | BARAT DIPAE NAVASHA      |        |          |         |            |           |         |          | -        |        | - V    | _ |
| 5   | BARLICMALAY DAYARAM      |        |          |         |            |           |         |          |          |        |        | _ |
| 6   | DREATT ANURAG K          |        |          |         |            |           |         |          |          |        |        |   |
| 7   | OHAVSAR KAUSTUREM.       |        | 1        | 1       |            |           |         |          | 10       |        |        |   |
| 1   | BORHATE PRASAD LAXMAN    | Tresol | Person   | Phone   | A A        | Progod    | Project | Reya     | Rosed    | 6      | _      |   |
| 9   | BONDRE HEMENDRA RAMESK   |        |          |         |            | -         | -       |          |          |        |        |   |
| 10  | CHOUDHARI NISHANT R.     |        |          |         |            |           |         |          |          |        | _      |   |
| W   | DESAI RAMCHANDRA PUNAII  | BOSAN  | Book     | Poeni   | Bonton     | 4         | Peren   | P.Dojni. | Posser   |        |        |   |
| 12  | DESA! SIDDIESS SURESH    |        |          |         |            |           |         |          |          |        | _      |   |
| 13  | FAKIR ALISHA ABDULKADAR  | 1      |          |         |            |           |         |          |          |        | _      |   |
| n   | GARDI ADITI VILAS        | Adulti | Alifi    | Adip    | A          | Adib      | A       | Asih     | Adik     |        |        |   |
| 15  | GAWDE HARISH PANDUILANG  |        |          |         |            |           |         |          |          |        |        |   |
| 16  | GHOSALKAR MAYUR R        |        |          |         |            |           |         |          |          |        |        |   |
| 15  | GODEKAR SIDOHESH SANTOSH | 55.0   | 450-     | 500     | 600        | 550       | 55.0    | 350      | 50       |        |        |   |
| 18  | GUPTA AJAY SHAMBIEINATH  |        |          |         |            |           |         |          |          |        | _      |   |
| 19  | GUPTA BILIPKUMAR S       |        |          |         |            |           |         |          |          | _      |        |   |
| 20  | GUPTA RAHUL RAMPRASAD    |        |          |         |            |           |         |          |          |        |        |   |
| n   | GUPTA BOHIT RAMCÁYAL     | proper | New      | A       | bbend)     | 145       | RAGIN   | A        | blog-de, | -      | _      |   |
| 12  | GURAV ANIKET SANIAY      |        |          |         |            |           |         |          |          |        |        |   |
| v   | BAZARE PRACHI            | Prochi | Proch    | Prochi  | A          | Bronthi   | Prophi  | Prochi   | Prouh    |        |        |   |
| 24  | JAISWAR SUMIT SHIVKUMAR  | 1      | ·        |         |            |           | _       |          |          | _      |        |   |
| 8   | KADAM ADSVATIL SUBBRASH  | Abrest | P. Aires | Spran,  | Charles    | Ade       | Dynamic | philip   | physia   |        |        |   |
| 0 0 | KADAM TANMAY 5.          |        |          |         | ~          |           | 11:12:0 |          | 7        |        |        |   |
| 7   | KAMBLECHETAN VIJAY       | 1011   | 200      |         | male .     | -         | 1       |          | 0        |        |        |   |
| 8 1 | CAMBLE SANCET VITHAL     |        |          |         |            |           |         |          |          |        |        |   |
| 9 1 | ÇASBE SHARAD DAMU        |        |          |         |            |           |         |          |          |        |        |   |
| 1   | HARDIKAR JAY BHASKAR     | JBK    | J.B.K.   | 3616    | JBK        | J-BIC     | JB.1c   | JAK      | JRK      |        |        |   |
| 1 1 | CHOCHARE KRUNAL GANESH   |        |          |         |            |           |         |          |          |        |        |   |
| 1 8 | P MREDIGUL BALAN         |        |          |         | _          |           | 0       | -        |          | $\Box$ | $\neg$ |   |
| *   | ZIMAVAT NONALI RAJENDRA  | (APK)  | 2        | 20      | SPIN       | MERCH     | Otiz)   | Fisher   | 10110    |        | П      |   |
| +   | USHWAHA DEEPAK B.        |        |          |         |            | 000       |         |          |          |        | $\neg$ | _ |
| -   | MAKWANA HARDIK H         | Hordis | Jardik 1 | dordik  | Herbik     | Hardit    | HARAII  | Hurdie   | Pordsk   |        | $\neg$ |   |
| +   | IANDAL GANESH ACHYUT     |        | -        |         |            |           |         |          |          |        | 7      | _ |
| +   | SESTRY ABBISHER MANOHAL  |        |          |         |            |           |         |          |          | +      | 1      |   |
| +   | CHILE SHANTANUS.         |        |          |         |            |           |         |          |          | 1      | T      | _ |
| +   | ERROTT WORLD SUDES!      |        |          |         |            |           |         |          |          | 1      |        |   |
| *   | AIK PRASALI PRAMOD       | Percep | - ilano  | Proval; | Carolia.   | - white   | la all  | Part     | Powali   | +      | +      |   |
| +   | ANSARE SANDESH D.        | 1      | 1        |         | 3          | 10-11     | Parent. | Actou    | In. At   | +      | 1      |   |
| +   | ARMAR GAURAY JITENDRA    |        | 1        |         |            |           |         |          | -        | +      | 1      | 7 |
| +-  | ATEL DEEP HEMANT         |        | -        | -       |            | -         |         | -        | -        | +      | +      | 1 |



| 44  | PATIL SAURABH R          |         | _      |        |           |        |         |       | -      | _ | +  |
|-----|--------------------------|---------|--------|--------|-----------|--------|---------|-------|--------|---|----|
| 15  | PATIL TRUPAL BROGWAN     |         |        |        |           |        |         |       | -      | - | +  |
| 16  | PAWAR MAYUR BABUSING     |         |        |        |           |        |         |       |        | - | +  |
| 17  | AAI SUMIT SUNIL          |         |        |        |           |        |         |       |        | - | +  |
| 48  | RANE ABRISHEK KRISHNA    |         |        |        |           |        |         |       |        | - | +  |
| 19  | RAUT NIMISH ANII.        |         |        |        |           |        |         |       |        | - | +  |
| 50  | RAYANI SHAHLESHKUMAR H   |         |        | 121    |           | 1      |         |       |        | - | +  |
| 51  | SALMANUNTUZAR ATEL.      |         |        |        |           |        |         |       |        | _ | +  |
| 52  | SALVE PRANTE ASTRON      | 135.00  | 40     | -1917  |           | 1.16   |         |       |        | _ | +  |
| 53  | SAPKALE PRITESH          |         |        |        |           |        |         |       |        | - | +  |
| 54  | SAWANT SIZZÜLESH TEKARAM |         |        |        |           | 17.00  |         |       |        | _ | +  |
| 55  | SHAH KINDAL RASHMKANT    |         |        |        |           | W. 12  |         |       |        | _ | +  |
| 56. | SHAIKH REHAN MOHDE       |         |        |        |           | 60.    | 1       |       |        |   | 1  |
| 9   | SINGREDETPAKAL           | DS: rak | DIA    | Billin | Drigh     | Dir.   | Dares   | Doug  | Drivar |   | 1  |
| 58  | SINGH DIBESH DHANASHAY   |         |        |        |           |        | Serente | 00000 |        | - | 1  |
| 59  | SINGH OMPILAKASH RANIEET |         |        |        |           |        |         |       |        | _ | +  |
| 60  | TAMORE HIMANSHU /        | 100     | 100    | 92     | Section . | 0      | 1       |       |        | _ | 4. |
| 61  | TAMORE KALPESH HEMANT    |         |        |        |           |        |         |       |        |   | +  |
| 62  | TAMORE SUMIT SANDEEP     |         |        |        |           |        |         |       |        |   | +  |
| 63  | TANK KINJAL NAVIN        |         | 19     |        | 11.3      | 21     | 100     |       |        | - | +  |
| 64  | TEFAM VIKRANT MANGESH    |         |        |        |           |        |         |       |        | - | +  |
| 65  | TELI SWAPNIL NANDKISHOR  |         | 9      |        |           |        |         |       |        | _ | +  |
| 66  | UPADHYAY ROHAN ARVIND    | 100     | -      | 25     |           | 0.5    |         |       |        | _ | +  |
| 67  | VAIDYA RAHUL RAJAN       |         |        |        |           |        |         |       |        | - | +  |
| 68  | VAYADA ANKITA RAMU       |         |        |        |           |        |         |       |        | - | +  |
| 69  | WADERUPAL DINUSII        |         |        | 1      |           |        | A       |       | F2 . 1 | - | +  |
| 70  | WALAJAY ARUN             | Fred.   | Joola  | Jests  | D-7       | Jus    | Jeal    | - امس | Jusey  | - | +  |
| 71  | WATUMBARE ASSITOSH       |         |        |        |           |        |         |       |        | - | +  |
| 72  | YADAY AKASH RAJMANI      | 1       | 4      |        | -11       | 1      |         |       |        | - | +  |
| 73  | YZDAV RAHUL HIRALAL      |         |        |        |           |        |         |       |        |   | +  |
| 74  | ZANJE SHUBHAM MADRUKAR   | 1 2     | 100    | 10.1   |           | OI     | 30      |       |        | - | +  |
| 75  | 70 MAL RISHIKESH DATTA   |         |        |        |           | 0 4:   |         | 0.15  | P 14   | - | +  |
| 20  | MADITE PRATHAMESH P      | Pents   | Fralks | Proper | 8         | Freedy | Fronti  | Pauls | ed.    | - | +  |
|     | NO OF STUDENTS PRESENT   |         |        |        |           |        |         |       |        |   | _  |

Purondal SUBJECT INCHARGE



# VIVA Institute of Technology, Virar T.E. ELECTRICAL (2017-2018)

SUBJECT: SUBJECT INCHARGE: \_\_\_

| H.  | Name   | 10.A7  | 17 M/A   | 17 14 97          | 17 2A A | 17 1/8/1    | 7 2/81                                  | 7 3/8/1  | 7 8 1817 | P | C             | 1        |
|-----|--|--------|----------|-------------------|---------|-------------|---|----------|----------|---|---------------|----------|
| No. | Time   | 4      | -        |                   |         |             | 1                                       |          |          |   |               | L        |
| 1   | AMBHURE SNEHAL MAHESH  | 50     | A A      | - Sin             | DER     | 2 4         | .CT9.                                   | a Kimil  | Design   | - |               | L        |
| 1   | ASCODARIYA JAYDEEP K   |        |          |                   |         | 1           | Water State In Co.                      |          |          |   |               | -        |
| 3   | BAGUL AKSHAY VILAS   | PHA    | MA PM    | 1 MgA             | & A     | Att         | Y DKI                                   | 1 0      | AH       |   | _             | 1        |
| +   | BARKE DEPAK NAVASHA  | 1      | -        |                   |         |             |   |          |          |   |               |          |
| 5.  | BARCHIMALAY DAYGIGASI  |        |          |                   |         |             |   |          |          |   |               | L        |
| 4   | BRATT ANDRAGK.   |        |          |                   |         |             |   |          |          |   |               | L        |
| 7   | THEAVSAIL CAUSTURE SE  |        | 1        |                   |         | >-          |   | -        | -        |   |               | L        |
| 8   | DOBRATII PRASAD LAŽDIJAN   | Progo  | and rose | Adm               | Pearso  | d Prope     | & Proje                                 | Presa    | Klory Ol |   |               | L        |
| 9   | BONDRE HEMENDRA RAMESH   |        |          |                   |         | 1000        |   |          | 120100   |   |               |          |
| 10  | OTOUDHUSENISHANT II.   | Lase   |          |                   |         | disan.      |   |          |          |   |               |          |
| 11  | DESALRAMCHANDRA PUNAJI   | D.Oos  | TV       | BOCH              | Poes    | 7 Books     | Boen                                    | Bound    | . A-     |   |               |          |
| 12  | DESAI SIDOHESH SURESH  |        |          |                   | 100     |             |   |          |          |   |               |          |
| 13  | FAKIR ALISHA ABDULKADAR  | 1 300  |          | 1 20.69           |         | Se year     |   |          |          |   |               |          |
| 14  | GARDI ADITI VILAS  | Add    | A.       | Adel              | A       | Paik        | A PAIK                                  | - Addi   | Adrik    |   |               |          |
| 5   | GAWDE HARISH PANDURANG   | 9,000  | NVIIII   | 1000              |         | 1000        | 111111111111111111111111111111111111111 |          |          |   |               |          |
| 6   | GHOSALKAR MAYUR R  | 8      |          |                   | Troops  | 1           | 1                                       |          |          |   |               |          |
| 7   | GODEKAR SIDDHESH SANTOSH   |        | 15:0     |                   |         | 5:0         |   |          | A        |   |               |          |
| 8 0 | GUPTA AJAY SHAMBIIUNATII   | Map    | AGUA     | Plop              | DO-     | - AGHA      | Acres                                   | North    | Acres    |   |               |          |
| 9 0 | ZUPTA DILIPKUMAR S.  | 1 V.2  |          |                   | 1       |             |   |          |          |   |               |          |
| 0 0 | RUPTA RAHUL RAMPRASAD  | PRCHA  | "plany   | 10                | Pero    | 0           | PHONE                                   | PERM     | PHYMA    | • |               |          |
| 1 6 | AUPTA ROHIT RAMDAYAL   | Wine.  | 7        | Flags.            |         | 1.01-0      |   |          |          |   |               |          |
| 2 0 | RURAV ANIEET SANJAY  |        |          |                   | U.      |             |   |          |          |   |               |          |
| H   | AZ/RE PRACIII  | 4      | Proch    | Prochi            | Proet   | frochi      | Brachi                                  | Prochi   | Prochi   |   |               |          |
| 12  | AISWAR SUMIT SHIVKUMAR   |        |          | T. A. L. O'L. CO. | 10000   | 100000      |   | 4003000  | Sil      |   |               |          |
| K.  | ADAM ADINATH SUBHASH   | Adiron | Dyna     | 1.1               | Major   | 4 political | Poplar                                  | Director | Mail     |   |               |          |
| 2   | ADAM TANMAY S  |        | 88.      |                   |         |             | NE .                                    |          |          |   |               |          |
| K./ | AMBLE CHETAN YUAY  | 1      | 0        | Little            | 1-00    | 17 150      | (A)                                     |          |          |   | $\neg$        |          |
| 5/  | AMBLE SANKET VITHAL.   |        |          |                   |         |             |   |          |          |   |               |          |
| KA  | ASBE SHARAD DAMU   |        |          |                   |         |             |   |          |          |   |               |          |
| XH. | JARDIKAR JAY BHASKAR   | TEK    | J.R.Y    | JBK               | A       | J-8.4       | 214.5                                   | JEK      | JBK      |   |               |          |
| КН  | OCHARE KRUNAL GANESH   |        |          |                   |         | 1           | 10000000                                |          |          |   | $\neg$        |          |
| EP  | MREDIGLI BALAN   |        |          |                   | - 3     |             | 9                                       |          |          | + | 1             |          |
| KU  | MAYAT NONALI RAJENDRA  | A      | 1724S    | (M.P.1)           | MED     | MAK)        | MH-                                     | (neid    | (1012)   | 1 |               |          |
| KU, | SHWAHA DEEPAK B.   |        |          |                   |         |             |   |          |          | + | $\dashv$      |          |
| MA  | KWANA HARDIK H   | Harok  | A        | Horde             | Hordik  | Hardik      | Horan                                   | A        | A-       | + | $\dashv$      |          |
| -   | NDAL GANESIF ACTIVUT   |        |          | MA 3              |         |             | 10.00                                   | 7.5      | 1)       | + | +             | -        |
| *   | STRY ABEISHEK MANOHAR  |        |          |                   |         |             |   |          |          | + | $\rightarrow$ |          |
| -   | REE SHANTANUS  |        |          |                   |         |             |   |          | -        | - | -             | -        |
|     | OKUTE MORIT SUDESH   |        |          |                   |         |             |   | -        |          | + | +             |          |
| -   | PO STATE OF THE PARTY OF THE PA | medi   | السر ع   | Om all            | 4       | Braceli     | 0                                       | n 1      | 0 1      | + | +             | -        |
|     | SARE SANDESH D   | TOTAL  | 440.4-11 | Mare all          | 4       | Trecent     | (A)                                     | Brenes   | STONI    | + | +             | -        |
| -   |  |        |          |                   |         |             | 1                                       |          |          | + | +             | $\dashv$ |
| run | MAR GALRAY JITENORA  |        |          |                   | _       |             |   |          |          |   | _             |          |



| 14  | PATIL SAURABHR            |        | -      |       |     |        |       |       |        |          |          |
|-----|---------------------------|--------|--------|-------|-----|--------|-------|-------|--------|----------|----------|
| 5   | PATIL TRUPAL BHAGWAN      |        |        |       |     |        |       |       |        | $\vdash$ |          |
| 6   | PAWAR WAYUR BABUSING      |        |        |       |     |        |       |       | _      | $\vdash$ | -        |
| 17  | RAI SUNTT SUNDE.          |        |        |       |     |        |       |       |        | $\vdash$ |          |
| 68  | RANE ABHISHEK KRISHNA     |        | A      |       |     |        |       |       |        | $\vdash$ |          |
| 19  | RAUT NIMESH ANIL          |        | 1      |       |     |        |       |       |        | $\vdash$ | _        |
| 50  | RAYANISHAILISHKUMAR IL    |        |        |       |     |        |       |       |        |          |          |
| 51  | SAEMANUNTEZAR ALLU.       |        |        |       |     |        |       |       |        | $\vdash$ | -        |
| 52  | NALVE TRANSLASSICK        | -7     |        | 0.00  | 63  |        |       |       |        | $\vdash$ |          |
| 53  | SAPKALE PRITESH           |        | 0      |       |     |        |       |       |        |          |          |
| 54  | SAWANT STORHESH TUKARAM   |        | 12     |       |     |        |       |       |        |          | - 5      |
| 55  | STUDE KONINE KASTIMISCANT |        |        |       |     |        |       |       |        |          |          |
| 86  | SHAIKH REBAN MORD F.      |        |        |       |     |        |       | 1     | D- 4   |          |          |
| 57  | SINCH DEEPAK M.           | BON    | Darigh | Digh  | - A | DESK.  | A.    | Darch | 150007 | 1        |          |
| 58  | SINGH DIBESH DHANANDAY    |        |        |       |     |        | 1     |       |        | $\vdash$ |          |
| 59  | SINGH OMPRAKASH RANJEET   |        |        |       |     |        |       |       |        |          |          |
| 60  | TAMORE HIMANSHU J.        | 1000   | 7      | 1227  | 2   | 150    | 1     |       |        | $\vdash$ | _        |
| 61  | TAMORE KALPESH HEMANT     |        |        |       |     |        |       |       |        | -        | $\dashv$ |
| 62  | TAMORE SUMIT SANDLEP      |        |        |       |     | 10     |       |       |        |          | $\Box$   |
| 63  | TANK KINDAL NAVIN         | 2/10/1 |        |       |     |        |       |       |        |          | _        |
| 64  | TEJAM VIKRANT MANGESH     |        |        |       |     |        |       |       |        |          | $\dashv$ |
| 65  | TELL SWAPNIL NANDKISHOR   |        |        |       |     |        |       |       |        | $\vdash$ | -        |
| 66  | UPADHYAY ROHAN ARVIND     | 3      |        | LIST  |     | Office |       |       |        | $\vdash$ |          |
| 67  | VAIDYA RAHUL RAJAN        | 1.1    | 19.17  | 1 17  | 114 |        | 1     |       |        | $\vdash$ | -        |
| 68  | VAYADA ANKITA RAMU        |        |        |       |     |        |       |       |        | -        | $\dashv$ |
| 69  | WADE RUPAL DINESH         | 192    |        |       | 11- | 41     | ~     |       |        | $\vdash$ | $\dashv$ |
| 70  | WALA JAY ARUN             | Twools | Joseph | Tools | A.  | Tuesta | A     | Jum-  | James  | -        | -        |
| 71  | WATUMBARE ASSETOSH        |        |        |       |     |        |       |       |        |          | -        |
| 7.2 | YADAY AKASII RAIMANI      | Pitch  | -      | 100   | 1   |        |       |       |        | $\vdash$ | _        |
| 73  | YADAV KAHUL PIRALAL       |        |        |       |     |        |       |       |        |          |          |
| 74  | ZANJE SHUBHAM MADHUKAR    |        |        | di i  |     | 1.     |       |       | -      | $\vdash$ | $\dashv$ |
| 75  | ZIMAL RISHIKESH DATTA     |        |        |       |     | 0.11   | 10 .t | D. 11 | 12 14  |          | $\dashv$ |
| 76  | MADIYE PRATHAMESH P.      | Prots  | Posts  | Brets | A   | Prata  | my    | TANTA | 3047   |          |          |
|     | NO OF STUDENTS PRESENT    |        |        |       |     |        |       |       |        |          |          |



## VIVA Institute of Technology, Virar

T.E. ELECTRICAL (2017-2018)

| H.   | Nene                     | 180       | 10 817 | 11/20     | 7 19-12-17 | 579/12   | 619/17  | 7/11     | 12.19117 | P        | C             | T |
|------|--------------------------|-----------|--------|-----------|------------|----------|---------|----------|----------|----------|---------------|---|
| -    | Time                     |           |        | 1         | -          | 1        | 1       |          |          | 1        | -             | t |
| 1    | AMBRIBLE SNEIGAL MARIESH | Conf.     | ME     | 1         | 100        | Con A    | Cont    | A        | KINA     |          |               | t |
| 2    | ASODARIYA JAYDEED K      | 224       | 7      | -         | Barn       | 250.4    | - Jacob | -        | PI       |          |               | t |
| 3    | BAGUL AKSHAY VILAS       | DEA       | PHA    | 10        | ALA        | ALM      | DW      | P        | At-      | 1        |               | t |
| 4    | BARAT DIPAK NAVAMBA      | 1         | - INGS | 1         | 1          | 1280     | 0 100   | 1        | I'M      | Ť        |               | t |
| ,    | DARLHINIALAY DAYARAM     |           | 1      | -         | +          | -        | 1       |          |          |          |               | H |
| 6    | ISHATT ANUKASI K         |           |        | _         | 1          |          | 1       |          |          | -        |               | H |
| 1    | BOTAYSAR KAUSTUMEM.      | 1000      |        |           |            |          |         |          |          |          |               | - |
| N    | BOBICATE PRASAD LAXMAN   | Projec    | DA de  | Parin     | Para       | Va.F     | Popl    | Poster   | Bopt     |          |               |   |
|      | HONDRE HEMENDRA RAMESIN  | 1         |        | 100       | 1101.6     | Malan    | Maria   | 1 mon    | John     |          |               | - |
| 10   | CHOLDHARI NISHANT R.     |           |        |           | 1          |          | 1       |          |          |          |               |   |
| 11   | DESAS RAMCHANDRA PUNAJI  | Poster    | Pagers | 20011     | 0          | Dese.    | D Dek   | DOLL     | - 70     |          |               |   |
| 12   | DESAL SIDDIVESH SCRESN   |           | 1      |           | -          |          | 12      | -        | 41       | $\vdash$ |               | - |
| 13   | FAKIR ALISHA ABIDULKADAR |           |        |           | 1          |          |         |          |          | $\vdash$ | -             | - |
| 14   | GARDI ADITI VILAS        | PAIN      | Pdih:  | Palik     | 10         | Adik     | A       | Palik    | 1.64     |          |               |   |
| 15   | GAWDE HARISH PANDURANG   | 1.00.4    | 1 304  | Light     | 1          | Priceret |         | 1 Marily | 4 Mary   |          | -             | - |
| 16   | GHOSALKAR MAYUR R        |           |        |           |            |          |         |          |          |          | $\dashv$      |   |
| 17   | GODEKAR SIDDHESH SANTOSH | 550       | 550    | 250       | 1.60       | 050      | 0       | Δ        | 5.50     |          |               |   |
| 18   | GUPTA AFAY SHAMBHUNATH   | 1         | -      | 1         | 1          | 2        |         | - 0      | 2        |          | 1             |   |
| 19   | GUPTA DIEJPKUMARS.       |           |        |           |            |          |         |          |          | -        | 1             | - |
| 20   | GUPPA RAHUL RAMPRASAD    | Delingo   | Clayou | P. elever | Α.         | Di bered | O Lough | Below    | Prox     |          | -             | + |
| 21   | OUPTA ROHIT RANGAYAL     |           | 17 000 | Flori     | et and     | 000      | do do   | Pr O-    | Pro+     | -        | -             |   |
| 12   | GURAV ANIKET SANIAY      |           |        |           | 1          |          |         | -        |          | +        | 1             | ÷ |
| 3    | HAZARE FRACHI            | Proch     | A-     | Boch      | Prochi     | Pounk    | Prohi   | Broke    | Prochi   |          | +             | H |
| 4    | IAISWAR SUMIT SHIVKUMAR  | 1,1.1.1.1 | - 4    | Tieses    | 1400       | 4001     | Arres   | 400.4    | 14004    | -        | 1             | t |
| 5    | CADAM ADINATH SUBHASH    | PAR       | No.    | 4         | Dioth      | Mirch    | Charles | KANY     | 2110     | -        | $\rightarrow$ | - |
| 6 1  | CADAM TANMAY S           | 1         |        |           |            | 10       | -       | Los      | 110      | +        | +             |   |
| 7 1  | CAMBLE CHETAN YUAY       | 1         |        | die I     | 4.0        |          |         | -        |          | -        | +             |   |
| 8 8  | CAMBRIE SANKET VITHAL    |           |        |           |            |          |         |          |          | -        | +             | ÷ |
| y K  | ASSE SHARAD DAMU         |           |        |           |            |          |         |          |          | -        | +             | ÷ |
| 9 83 | PIARDIKAR JAY BHASKAR    | TREE.     | J.B.15 | TRK       | A          | J.B.E.   | TOK     | 700      | -10.6    | -        | $\dashv$      | + |
| K    | DOCHARE KRUNAL GANESH    |           |        | M.M.      | -          | 2.0.     | -       | 4126     | 7.19.1   | -        | -             | + |
| K    | P MREDHUL BALAN          |           |        |           |            |          |         | -        |          | -        | +             | - |
| +    | DMAVAT MONALI RAJENDRA   | 6,210     | Δ      | 600       | OPIL       | 6015 V   | 6.0.EV  | Wa. S    | 2000     | -        | -             | - |
| +    | USHWARA DEEPAK B         | 1         |        | Cite      | N. Marie   | 200      | 1       | Cha      | The same | -        | +             | _ |
| +-   | AKWANA HARDIK H          | Hards     | 0      | - Jarret  | 0          | terdite. | a die   | malth.   | 44       | -        | -             |   |
| +    | ANDAL GANESH ACRYUF      | -         | 47.    | 3,51.00   | 17         | CT BY    | PURE    | Die C    | Verge    | -        | -             |   |
| +    | ESTRY ABBISHER MANCHAR   |           |        |           |            |          |         |          |          | -        | -             | _ |
| +    | OHILE SHANEANUS          | 1         |        | - 0       |            |          |         | _        | _        |          | -             | _ |
| +    | URKUTE MOHIT SUBESH      |           | -      |           |            | -        | -       |          |          | 1        | 1             | - |
| -    |                          | P D       | A .    |           | 2 11       | 0        |         |          |          | -        | -             | - |
| 1    | UK FRANALI PRAMOD        | Presidi   | A      | 1         | Prevali    | roteli   | mas/1   | المعم    | forally  | 1        | 1             | _ |
| -    | NSARE SANDESIED          | -         | -+     |           |            |          |         |          |          | 1        | -             | - |
| PA   | RMAR GAURAY JITENDRA     |           |        |           |            | 1        |         |          |          |          |               |   |



| 4 P  | ATIL SAURABH R.          |         | _       |         |        |        |       |       |        |   |   |
|------|--------------------------|---------|---------|---------|--------|--------|-------|-------|--------|---|---|
| 5    | ATIL TRUPAL BRAGWAN      |         |         | _       |        | _      |       |       |        |   | Γ |
| 4 7  | AWAR MAYUR BABUSING      |         |         |         | _      |        |       |       |        |   | Γ |
| 1 9  | AI SUMT SUNIL            | _       |         |         |        | -      |       |       |        |   | Γ |
| 8 11 | IANE ABRISHEK KRISHNA    |         |         |         |        |        |       |       |        |   | Γ |
| 9 9  | LAUT NIMISH ANIL         |         |         |         |        | _      |       |       |        |   | Γ |
| 9    | RAYANESHAILESHKIIMAR H.  |         |         |         | 1      | -      |       |       |        |   | t |
| 91   | SALMANI DITEZAR ALE L.   |         |         |         |        |        | _     |       |        |   | t |
| 0    | SALVE PLANE, ASHOK       | 100     | 11      |         | 1.1    | 111    |       |       |        |   | t |
| 53   | SAPKALT PRITESH          |         |         |         |        |        |       | -     |        |   | t |
| 54   | SAWANT SIDDRESH TUKARAM  |         |         |         |        |        |       |       |        |   | t |
| 55   | SHAR KINDAL BASHMIKANT   |         |         |         |        |        |       | _     | -      | - | t |
| 56   | SHAIKH TEHAN MORDE.      | Lance   | La List |         |        | ~      |       | ~ A   | 0.0    | _ | ŀ |
| 97   | SINGH EELFAX M.          | 1231-14 | Drab    | DS-A    | - A -  | Dates  | A.    | 12:42 | Dras   |   | ŀ |
| 18   | SINGH DIBESH DHANANJAY   | 180     |         |         |        |        |       |       | -      |   | ŀ |
| 19.  | SDOGH COMPRAKASH RANJEHT | 100     | -0-1    |         |        |        |       |       | _      | _ | ŀ |
| ND.  | TAMORE HIMANSHUJ.        |         |         | 100     | The    | 10     |       |       |        | _ | ŀ |
| 61   | TAMORE KALPESH HEMANT    |         |         |         |        |        |       | _     | _      |   | ŀ |
| 62   | TAMORE SUMIT SANDEEP     |         |         |         |        |        |       | -     |        |   | H |
| 63   | TANK KINGAL NAVIN        |         |         | 141     | 102/4. |        |       |       |        |   | H |
| 64   | TEJAM VIKTANT MANGESH    |         |         |         |        |        |       |       |        | - | H |
| 65   | TELI SWAPSE, KANDKISHOR  |         |         |         |        |        |       | _     |        | _ | ŀ |
| 66   | UPADHYAY ROHAN ARVIND    |         | -11     |         | 130    |        |       |       |        |   | H |
| 67   | VAIDYA RAHUL KAJAN       |         |         |         |        |        |       |       |        | - | H |
| 68   | VAYADA ANKITA RAMU       |         |         |         |        |        |       |       |        |   | ŀ |
| 10   | WADE RUPAL DINESH        |         |         |         | 1=17   | Berry  |       | _     | -      | _ | H |
| 70   | WALA JAY ARUN            | Justa   | Tools   | Juna    | Just   | Just   | Justs | AT.   | Just   |   | H |
| 71   | WATUMBARE ASHITOSH       |         |         |         |        | -      |       |       |        |   | ŀ |
| 72   | YADAY AKASH RAIMANI      | (Carry) | 1       | 1       |        | 3 3 5  |       |       |        |   | ŀ |
| 13   | YADAY RAHUL HIRALAL      |         |         |         |        |        |       |       |        |   | ŀ |
| 74   | ZANJE SHUBHAM MADHUKAIL  |         | 10.1    |         |        | 100    |       |       |        | - | H |
| 75   | ZIMAL RISHIKESH DAYTA    |         | 1       |         |        |        |       | m .   |        |   | ŀ |
| 76   | MADIYE PRATHAMESH P.     | Problem | Parts   | Pradies | A      | Proper | P     | Toby. | Proth. |   | ŀ |
|      | NO OF STUDENTS PRESENT   |         |         |         |        |        |       |       |        |   | L |



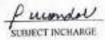
# VIVA Institute of Technology, Virar T.E. ELECTRICAL (2017-2018)

SUBJECT: SUBJECT INCHARGE:

| IL. | Name                     | 1847     | 7 149/1 | 7 199  | 117 1 | 19/17 | Pres   | 17    | 11/1/1 | 7 3/19 | 17   | 1 017  | P            | C            | 1 |
|-----|--------------------------|----------|---------|--------|-------|-------|--------|-------|--------|--------|------|--------|--------------|--------------|---|
| Na  | Time                     |          |         |        | 1     | 7     | 1      |       | 7      |        | 7    |        |              |              | 1 |
| 1   | AMBHIRE SNEHAL MAHESH    | 500      | 2 5m    | al di  | 50    | 0     | 510    | n     | A      | 10     | 20   | 5.m.c  |              |              | t |
| 2   | ASODARIYA JAYDEEP K      |          | Pin     | 1/2    | -     | 43    | 3.0    | 4     | -      | 13-1   | -    | 200    |              |              | t |
| 3   | BAGUL AKSHAY VILAS       | DIA      | o plan  | 1 Ah   | hal   | A     | Die    | J     | NW     | END    | 40   | Jet 4  |              |              | T |
| 4   | BARAT DIFAK NAVASHA      | - Paris  | - Win   | - ALIN | -     |       | 1117   | #     | L.M.   | - Ina  | 1    | 1      |              |              | t |
| 5   | BARI HIMALAY DAYARAM     |          |         |        |       |       |        | +     |        |        |      |        |              |              | H |
| 6   | BHATT ANURAG K           | _        | -       | +      | _     | _     |        | +     |        | 1      | +    |        | $\neg$       |              |   |
| 7   | BHAVSAR KAUSTUBH M.      |          |         | +      | +     | -     |        | +     | -      | +      | +    | -      | $\dashv$     |              |   |
| 8   | DOBHATE PRASAD LAXMAN    | Costo    | Kaje    | 1 0    | P     | and   | 2 4    | - 10  | South  | Provi  | 10   | cope   | 7            |              |   |
| 9   | BONDRE HEMENDRA RAMESH   | 1000     | 4160    | 7      | 1     | Ugino |        | 13    | ic p   | 1107   | 7    | Copes  | 4            | $\neg$       |   |
| 10  | CHOUDHAS! NISHANT R.     |          | 1       | _      | 1     |       | -      | +     |        |        | +    | _      | +            | $\forall$    | T |
| 11  | DESAL RANCHANDRA PUNAJI  | Conc     | 1       | Boes.  | H 95  | by or | D.OSLA | 4-10  | Casel  | A      | 200  | notes  | +            | 1            |   |
| 12  | DESAI SIDDHESH SURESH    |          | 11      | 1      | 1     |       |        | 1     |        |        | 1    |        | +            | 1            |   |
| 13  | FAKIR ALISHA ABDUI KADAR |          |         |        |       |       |        | 1     |        |        | +    |        | +            | +            | - |
| 14  | GARDI ADITI VILAS        | Pddi:    | A       | PALE   | 1 0   |       | ALL    |       | white  | Adik   | A    | Adv.   | +            | +            |   |
| 15  | GAWDE HARISE PANDURANG   | 1        |         | 1264   | -     |       | 7.641  | +     | ALIP.  | PLANT  | 10   | Digit. | +            | +            |   |
| 16  | GHOSALKAR MAYUR R.       |          |         |        |       |       |        |       |        |        |      |        | +            | $^{+}$       |   |
| 17  | GODEKAR SIDDHESH SANTOSH | 350      | 55.0    | 555    | 2 3.  | 50    | 55.0   | 13    | (40)   | CN     | 3.   | 1.2    | +            | +            | i |
| 18  | GUPTA AJAY SHAMBHUNATH   | 1        |         | -      | 1     | 1     |        | 1     |        |        | 1    |        | +            | +            |   |
| 19  | GUPTA DILIPKUMAR S.      |          |         |        |       |       |        |       |        |        |      |        | +            | +            |   |
| 0   | GUPTA RAHUE RAMPRASAD    | ppone    | PROMP   | PILON  | POL   | 200   | A-     | 21    | (pert) | perne  | 000  | Luis   | +            | $^{+}$       | T |
| 1   | GUPTA ROHT RAMDAYAL      |          | al .    |        |       | -     |        | 1     |        |        | ,    |        | +            | +            |   |
| 2   | GURAV ANKETSANIAY        |          |         |        | 1     | 70.   |        | 1     |        |        |      |        | +            | +            |   |
| 3   | HAZARE PRACHI            | Prosh    | e       | Proch  | Pro   | rivin | Prost  |       | 4      | A      | Pro  | eki    | +            | +            |   |
| +   | JAISWAR SUMIT SHIVKUMAR  |          | 26      |        | 1     |       |        |       |        |        | 11.  | -      | +            | +            | Ť |
| 5   | KADAM ADNA IH SUBRASH    | Adirecto | Shun    | Popos  | Y A   | - 0   | dicit  | DA    | wah.   | Herby  | DA!  | est.   |              | $^{\dagger}$ | Ī |
| 6   | KADAM TANMAY S.          | 1        |         |        |       | 7     |        | 1     |        |        | -    |        | 1            |              |   |
| 7   | KAMBLE CHETAN VUAY       | - 0      | 34      | Stel   | 15    |       | 1.40   | 017   | 73. 1  |        |      |        | $^{\dagger}$ | +            | î |
| 1   | KAMBLE SANKET VITHAL     |          | - 1     |        |       |       |        |       |        |        |      |        | 1            | $^{+}$       |   |
| K   | ASBE SHARAD DAMU         |          |         |        |       |       |        |       |        |        |      |        | t            | +            |   |
| ×   | HARDIKAR JAY BHASKAR     | JBK.     | TEK     | J.B.K  | 28    | 15    | 8      | 7-9   | K :    | IRK.   | 70   | 18     | $^{\dagger}$ | +            | 1 |
| K   | HOCHARE KRUNAL GANESH    |          |         |        |       |       |        |       |        |        |      |        | 1            | +            | 1 |
| K   | P MREDHUL BALAN          |          |         | -      |       |       | -      |       |        |        |      |        | 1            |              | 1 |
| K   | UMAVAT MONALI RAJENDRA   | MER      | 1       | Q.P.K  | KE    | 2/6   | 610    | SOL F | 2R)    | 210    | IOR  | .k     | T            | +            | 1 |
| K   | USHWAHA DEEPAK B.        |          |         |        |       |       |        |       |        |        | -    |        | +            | +            | 1 |
| м   | AKWANA HARDIK II.        | HORES    | land!   | todie. | hong  | 14    | MY     | -     | AN     | la.Alk | Hory | P.E.   | +            | +            | 1 |
| М   | ANDAL GANESH ACHYUT      |          |         |        |       |       |        |       |        |        |      | -      | +            | 1            | 1 |
| M   | ESTRY ABIBSHEK MANOHAR   |          |         |        |       |       |        |       |        |        |      |        | -            | 1            | 1 |
| M   | OHILE SHANTANU S         |          |         |        |       |       |        |       |        |        |      | +      | 1            | 1            | 1 |
| M   | URKUTE MOHIT SUDESH      | Dec      |         |        |       |       |        |       |        |        | _    | -      |              |              | 1 |
| N/  | MK PRANALI PRAMOD        | Provensi | - #     | 0      | Pron  | 3. P. | avel.  | C     | w.V.   | TOTA   | P.c. | -14    |              |              |   |
| PA  | NSARE SANDESH D.         |          |         |        |       | 1     |        | 14-   | 1      | -      | 100  | -      |              |              |   |
| PA  | RMAR GAUKAV JITENDRA     |          |         |        | 15    |       |        |       | +      | -      | _    | ++     |              |              |   |
| PA  | TUL DELP HEMANT          |          |         |        | 100   |       | -      |       | -      | -      | _    | +      |              |              |   |



| ATIL TRUPAL BHAGWAN  |  |  |   |  |   |  |   |  | - 1  |  |
|--|--|--|---|--|---|--|---|--|--|--|
| CONTRACTOR OF STREET   |  |  |   | _  | -   |  |   |  |  | T  |
| AWAR MAYUR BABUSING  |  |  |   | _  | -   |  |   |  |  | T  |
| LAI SUMIT SUNIL  |  |  |   |  | -   |  |   |  |  | T  |
| LANE ABHISHEK KRISHNA  |  |  |   |  |   | -  |   |  |  | 1  |
| RAUT NIMESH ANIL   |  |  |   |  |   |  | -   |  |  | 7  |
| RAYANI SHARLESHKUMAR H   | 7196   | 41   | 713   | 11.14  |   |  |   |  |  | 1  |
|  |  |  |   |  | _   |  | _   |  |  | 7  |
|  | 1 5/4  | He U   | Hotel   |  | THE   | -  |   |  |  | 1  |
| And in case of the |  |  |   |  |   |  |   |  |  | 1  |
| SAWANT SEDENIESB TUKARAM   |  |  |   |  |   |  |   |  | +  | 7  |
| SHAH KINDAL RASHMIKANT   |  |  |   |  |   |  |   |  |  | 7  |
|  | C-cup  | 1000   |   | 1  |   | Α.   | Mal   | DOAS   | +  | 7  |
| SINGH DEEPAK M.  | Binny  | DS-A   | DSIN  | 1X:47  | 120000  | 11 -   | 12:0.   | 1200   | -  | 7  |
| The second secon |  |  |   |  |   |  |   |  | -  | 1  |
|  | 1  |  |   |  |   |  | -   |  | -  | 7  |
| TAMORE HIMANSHUT   | 1.   | 100  | 17700   |  | - 100   | 2  |   |  | -  | 1  |
|  | 0  |  |   |  |   |  | -   |  | -  | 1  |
| TAMORE SUMIT SANDEEP   |  |  |   | 15   |   |  |   |  |  | 7  |
| TANK KINJAL NAVIN  | 1 15   | 1  |   |  | 10  |  |   |  |  | 7  |
| TEJAM VIKRANT MANGESH  |  |  |   |  |   |  | -   |  |  | 1  |
| S TELL SWAPNE, NANDKISHOR  |  |  |   |  | -   |  |   |  |  | ╛  |
| UPADHYAY ROHAN ARVIND  | -  |  |   |  |   |  |   |  |  | ╛  |
| VAIDYA RAHUL RAJAN   |  |  |   | _  | -   |  |   |  |  |  |
| S VAYADA ANKITA RAMU   |  | -  |   |  |   |  | -   |  |  | T  |
| 9 WADE RUPAL DINESH  | (1)  |  |   | # 4.1  | 5.1   | -T. sel-   | Toward  | Joan   |  |  |
| WALA JAY ARUS  | Just   | Just   | 2 Just  | J-SEH  | Journal   | 5-1  | Contra  |  | TE K   |  |
| I WATUMBARE ASHITOSH   |  | -  | -   |  |   |  |   |  |  |  |
| 2 YADAV AKASHTRABIANI  | ()   |  | 8.00  | 1  | - 30  |  |   |  |  |  |
| 23 YADAV RAHUL HIRALAL   |  | 1  | -   | 1.000  |   |  |   |  |  |  |
| 24 ZANIE SHUBHAM MADHUKAR  | 1  | 1  |   | 1  | 1   | -  |   |  |  |  |
| 75 ZIMAL RISHEKESH DATTA   | -  | 10 11  | (D) 11  | 1  | Puth  | Α.   | Prop  | Pab  |  |  |
| 76 MADLYE PRATHAMESHP.   | Toute  | 2 13   | Tralle!   | 4  | 2133: 5   | 4.   | 1   |  |  | - 3  |
|  | CANE ABBIESHEK KRISHNA RAYANI SHARLESHKUMAR H. SALALASI ENTEZA" ALIL. SALVE PRANIL ASBOK SAPKALE HRITESH SAWANT SEDOHESH TUKARAM SHARK REHAN MORD E. SINGH DREPAK M. SINGH DRE | RAUT NIMESH ANIL RAYANI SHARLESHKUMAR H. SALMANI DITEZAP ALIL SALME PRANIL ACHOK SAPKALE HRITESH SAWANT SEDERHESH TUKARAM SHAH KINIAL RASHMIKANT SHARK REHAN MOHID E. SINCH DEPAK M. SINCH | CANE ABHISHEK KRISHNA RAUT NIMESH ANIL RAYANS SHARLESHKUMAR H SALMLANS ENTEZAP ALIL SALVE PRANIL ACHOK SAPKALE HEITESH SAWANT SECCHESH TUKARAM SHARK REHAN MORID E. SINGH DEEPAK M. SINGH DEEPAK M. SINGH DEEPAK M. SINGH DEEPAK M. SINGH OMPRAKASH RANGEET TAMORE HIMANSHU J. TAMORE HIMANSHU J. TAMORE SUMIT SANDEEP TANK KINJAL NAVIN TEJAM VIKRANT MANGESH STELL SWAPNEL NANDKISHOR GUPADHYAY ROHAN ARVIND VAIDYA RAHUL RAJAN WADJA ANKITA RAMU WADJE RUPAL DENESH WALA JAY ARUS WALA JAY ARUS WALA JAY ARUS WALA JAY ARUS VAJANA KASHTRAJBANI VAJANA KASHTRAJBANI VAJANA KASHTRAJBANI VAJANA RAHUL HIRALAL ZANIE SHUBHAM MADMIKAR ZIMAL RISHEKESH DATTA MADLYE PRATIJAMESHP. | CANE ARHISHIEK KRISINA  RAUT NIMESH ANIL  RAYANI SHARLESHIKUMAR H  SALALARI SHITZAP ALIL  SALVE PRASIL ACHOK  SAPKALE HITTESH  SAWANT SEPCHIESH TUKARAM  SHARKI REHAN MORID F.  SINCH DELEPAK M  SINCH DELEPAK M | CANE ABHISHIEK KRISHNA RAUT NIMESH ANIL RAYANI SHARLESHRUMAR H SALKANI DITEZAP ALIL SALVE PRANIL ACHOK SAVKALE HISTEISH SAWANT SEDCHESH TUKARAM SHARK REHAN MORID E SINGH DEEPAK M STOCH DITESH THANAMAY SINGH DEEPAK M STOCH DITESH CHANAMAY SINGH OMFRAKASH RANEET TAMORE HIMANSHU J TAMORE SUMIT SANDEEP TANK RINJAL NAVIN TEMAN VERANT MANGESH STELL SWAPNE, NANDKISHOR G UPADHIYAY ROHAN ARVIND VALDYA RAHUL RAJAN S VAYADA ANKITA RAMU WADE RUPAL DESESH WATUMBARE ASHITOSH WATUMBARE ASHITOSH VAGAV RAHUL HIRALAL ZANIE SAUBHAM MADRIUKAR S ZIMAL RISHEKESH DATTA MADRYE PRATHAMESH P. | ARNE ABBISHIEK KRISINA RAUT NIMESH ANIL RAYANI SHARLASIRKUMARH SAMAANE DITEZAF ALIL SALVE PEANIL ACHOK SARKALE HILLICH SALVE BEANN MORID E. SINGH DEEPAK M SINCH DIRESH DHANANAY SINGH DEEPAK M SINCH DIRESH DHANANAY SINGH OMPRAKASH RANKEET TAMORE HIMANSHU J. TAMORE KALCESH HEMANT TAMORE KALCESH HEMANT TAMORE KALCESH HEMANT TAMORE KALCESH HEMANT TELI SWAPNE. NANDKISHOR UPADHIYAY ROHAN ARVIND VARIOYA RAHUL RAJAN VAYADA ANKITA RAMU VALOYA RAHUL RAJAN VAYADA ANKITA RAMU VALOYA RAHUL HIRALAL VALOWBARE ASHITOSH | AREA RIPHISHEK KRISINA RAUT NIMISH ANIL RAYANI SHARLESEKUMAR H. SAMANI DITIZAR ALIL SALVE PERSITI ACHOK SAMANT SECRIESH TUKARAM HIAH KRINAL RASHIMKANT SHAMKH REHAN MOHID F. SINCH DIJESH DHANANIAY SIXCH OMFRAKASE RANLEET TAMORE HIMANSHU J. TAMORE HIMANSHU J. TAMORE KALTESH HEMANT TAMORE SUMIT SANDEEP TANK KRIJAL NAVIN I ELIAM VIKRANT MAANGESH S TELLI SWAPNL NANDKISHOR U VAEDVA RAHUL RAJAN A VAYADA ANNITA RAMU D WADE RUPAL DIRESH WALA JAY ARUS I WALA JAY ARUS | ARME ABBITISHEK KRISINA  RAUT NIMISH ANIL  RAYANI SHARLESHKUMAR H.  SAMANSTENTIZA" ALLL  SALVE PRANIL ACHEN  SAWANT SECREESH TUKARAM  HHAH KINEAL RASHMIKANT  SHARKH REHAN MORID E.  SINGH DELPAX M.  SINCH DIBENE DHANANSAV  SINCH DIBENE HANANSAV  TANORE KALPESH HEMANT  TANORE SUMIT SANDEEP  TANK KINIAL NAVIN  TELAS WAPNEL NANDESHOR  GUPADHYAY ROHAN ARVIND  VAEDYA RAHUL RAJAN  VAYADA ANATRA RAMU  VAJER SAUBHAM MADMUKAR  TANDES SAUBHAM MADMUKAR  SIMAL RISBEKESH DATTA  MADMYE PRATRAMESH P.  PARME | ARE ABRIESHER, KRISINA RAUT NIMISH ANIL RAYANI SHARLESHIKUMARH SAUMANI DITIZAT ALIL SALVE PRASIIL ACHOK SAPKALE HITTENI SAWANT SEDENIISH TUKANAM SHARLESHIKIN MONID E. SINCH DETENIN DIVANNAM SPICH DETENIN DI | ARE ABHISHER, KRISINA RAUT NIMISH ANIL RAYANI SHARLESHKUMAR H SALMANS INTEZAP ALIL SALVET PROSIL ACHOR SAVEALE HITUSH SAWANT SEPRIESH TUKARAM HHAHKINSAL RANIMIKANT SHAKIR BEHAN MORID F. SINCH DAIESH DHANANSAY SINCH DAIESH DHANANSAY SINCH DAIESH DHANANSAY SINCH DAIESH DHANANSAY SINCH DAIESH HIMANT TAMORE HIMANSHU J. TAMORE HIMANSHU J. TAMORE HIMANSHU J. TAMORE KALFESH HIMANT TAMORES SUMIT SANDEEP TANK KRINJAL NAVEN JELAM VERDANT MANGGEH STELS WARPAN MANDELSHOR GEPARHVAN KOHAN ARVIND VARDYA RAHUL RAJAN VAYADA ANNUTA RAMU J. WALLAMAY ARUN VALALAMA ARRUN VALALAMA ARRUN VALALAMA ARRUN VALALAMA RARUN VALALAMA KARUN VALA |





# VIVA INSTITUTE OF TECHNOLOGY

(Affiliated to University of Mumbai; Approved by AICTE & DTE)

Veer Savarkar Marg, Shirgaon, Virar 401303

Department of Electrical Engineering

# CERTIFICATE

This is to certify that,
Mr./Ms. Godekar Siddhesh Santosh
of TE Electrical

has successfully completed value added course on "ELECTRICAL SAFETY PRACTICES" organized by

Department of Electrical Engineering

for A.Y. 2017-18 from 4th Jul 2017 to 4th Oct 2017.

f mondel

Prof. Pivali Mondal

Course Coordinator

Been

Prof. Bhushan Save Head of Department



# VALUE ADDED COURSE

| Name of Course:              | Printed Circuit Board<br>(PCB) Designing | Branch:             | Electrical Engineering |
|------------------------------|--|---------------------|------------------------|
| Duration:                    | 30 Hours                                 | Instructors:        | Aadil Sheikh           |
| <b>Date of Commencement:</b> | 14 July 2017                             | Date of conclusion: | 10 Nov 2017            |

|          | Course Outcomes  |
|----------|--|
| Upon suc | ccessful completion of the course, the student must be able to                         |
| CO1      | To understand the requirements of designing a PCB using software.                      |
| CO2      | To understand various components required for PCB design and their electrical ratings. |
| СОЗ      | To use development tools for PCB designing   |
| CO4      | To understand design standards and flow charts   |

|          | Syllabus  |       |
|----------|---|-------|
| Unit No. | Contents  | Hours |
| 1        | Introduction to PCB designing concepts: Introduction & Brief History: What is PCB, Difference between PWB and PCB, Types of PCBs: Single Sided (Single Layer), Multi-Layer (Double Layer), PCB Materials. Prototyping, eCAD and PCBs, Purpose and Intent, Equipment Computer Circuit Programming and Testing Hardware, PCB Component Hardware, Software, MPLAB X IDE and XC8 Compiler, Understanding the Walkthrough  | 6     |
| 2        | Component introduction and their categories: Types of Components: Active Components, Passive Components Component Package Types: Axial lead, Radial Lead, Single Inline Package(SIP), Dual Inline Package(DIP), Transistor Outline(TO), Pin Grid Array(PGA), Metal Electrode Face(MELF), Leadless Chip Carrier (LCC), Small Outline Integrated Circuit(SOIC), Quad Flat Pack(QPF) and Thin QFP (TQFP), Ball Grid Array (BGA), Plastic Leaded Chip Carrier(PLCC) | 6     |
| 3        | Introduction to Development Tools: Introduction to PCB Design using OrCAD tool, Introduction to PCB Design using PROTEUS tool   | 6     |
| 4 6 DF 7 | Detailed description and practical of PCB designing   | 6     |

| PCB Designing Flow Chart, Description of PCB Layers, Keywords & Their Description, PCB Materials, Rules for Track, Study of IPC Standards  |   |
|--|---|
| Lab practice and designing concepts:  Starting the PCB designing, Auto routing, PCB Designing Practice, Post Designing& PCB Fabrication Process, Testing and Troubleshooting Methods | 6 |

|      | Learning Resources  |
|------|---|
| Text | t Books:  |
|      | 1. Kraig Mitzner, "Complete PCB Design Using OrCad Capture and Layout", 2011  |
| Refe | erence Books:   |
|      | <ol> <li>"PCB Design for Real-World EMI Control (The Springer International Series in Engineering and Computer Science)" by James Drewniak and Bruce R Archambeault.</li> <li>"PCB Design: Printed Circuit Board" by Michael Dsouza and Dsouza Michael</li> </ol> |



SUBJECT: Proted CB design (PCBD) S.E. ELECTRICAL (Yes S.E. ELECTRICAL (Year - 2017-2018)

| R.  | Name   | Hickory | I Ly Ann | 2/12/11 | 21 Am |               | ns), 117    | 400            | 4 100 | Р             | -             | H        |
|-----|--|---------|----------|---------|-------|---------------|-------------|----------------|-------|---------------|---------------|----------|
| ia. | Time   | 2:30    | 3130     | 2130    | 3:30  | 2:30          | 7:30        | 2:30           | 7.30  | -             |               | $\vdash$ |
| 1   | AGARWAL ABIUSHEK PAWAN                           | (A)     | (A)      | (A)     | A     | (A)           | a           | (A)            | B     | -             |               | H        |
| 1   | CHAUDHAIU PRASAD PRADIP                          | (2)     | (0)      | æ       | (2)   | æ             | -           | (2)            | (D)   | _             | _             | H        |
| 1   | DEPERIKAR YASH NARESH                            |         |          | 1       | -     |               |             |                |       |               | _             | H        |
| 4   | DHANGAR ROHINI RAJENDRA                          | PD      | PA       | 20      | PP    | 20            | PO          | PP             | PD    |               | Щ             | L        |
|     | GOUNDAR SHASHIDHARAN<br>BALASURAMANIAN           |         |          |         |       |               |             |                |       |               |               |          |
|     | GUPTA PIKESH MUSAFIR                             | - 6     |          |         |       |               |             |                |       | Ц             |               |          |
| 7   | GURAV SHUBHAM SANTOSH                            |         |          |         |       |               |             |                |       |               |               |          |
|     | HARPALE AJAY CHANDRAKANT                         |         |          |         |       |               |             |                |       |               |               |          |
| 9   | KOLEKAR KUSHAL VILAS                             |         |          |         |       |               |             |                |       |               | _             |          |
| 10  | KOLI NUTAN PRABHAKAR                             |         |          |         |       |               |             |                |       |               |               |          |
| 11  | KORE DEWAYG MAHENDRA                             | 40      | 10       | RD      |       | KD            | Ko          | KD             | RD    |               |               | _        |
| 12  | LOKE KAMLESH GANDAT                              |         |          |         |       | 6 ==          |             |                |       |               | $\perp$       |          |
| 13  | MANDAVKAR ABHISHEK VASANT                        |         |          |         |       | D             |             |                |       |               | 1             |          |
| 14  | MUNGEKAR ASHISH CHANDRAKANT                      |         |          |         | 4     |               |             |                |       |               | $\perp$       |          |
| 15  | NAK NEERAJ ARVIND                                | em      | ann      | (JOIN)  | -     | ann           | -           | m              | ത്ത   |               | _             |          |
| 10  | NAIK SUKANYA BHARAMU                             |         |          |         |       | - Agrandic Co |             | Contraction of |       |               | _             |          |
| 17  | NAM PRANIT SHANKAR                               |         |          |         |       |               |             |                |       |               |               |          |
| 18  | NANDLAL GUPTA                                    |         |          |         |       |               |             |                |       |               |               |          |
| 19  | NANHE KOSHAN RAMCHANDRA                          | SP'     | SHAP     | -       | 1     | _             | 9           | _              | A     |               |               |          |
| 29  | NIKAM ASHISH RANGANATH                           |         |          |         |       |               |             |                |       |               |               |          |
| 21  | PANCHAL JATIN VINODKUMAR                         |         |          |         |       |               |             |                |       |               |               |          |
| -   | PASHTE NIKITA DIPAK                              | NP.     | NP       | NP      | N     | -             | P           | NP             | NP    |               |               |          |
| 23  | PATIL PANKAI BIJAGWAN                            |         |          |         |       |               |             |                |       |               |               |          |
| 24  | PATEL PRANDALI VILAS                             |         |          |         |       |               |             |                |       |               |               |          |
| 25  | PAWAR PRANALI JAGANNATH                          |         |          |         |       |               |             |                |       |               |               |          |
| 26  | RANE PRATHMESH CHANDRASHEKHAR                    |         |          |         |       |               |             |                |       |               |               |          |
| 27  | KAUT ISHAN AMOL                                  |         |          |         | 3     |               | J           |                |       |               |               |          |
| _   | SAINDANE RASHTRAFAL RAJENDRA                     |         |          |         |       | L.            |             |                |       | -             |               |          |
| 29  | SHIVNEKAR VISHNI/ DAMODAR                        |         |          |         |       |               |             |                |       |               |               |          |
| 30  | SENCIL HEMANSHU PRASHANT                         |         |          |         |       |               |             |                |       |               |               |          |
| 31  | SINGH PRINCE PINTU                               |         |          |         |       |               |             |                |       |               |               |          |
| 12  | SOGALE OMKAR FRAMOD                              | 20      | 9        | 90      | 9     | 18            | 9           | 9              | 8     |               |               |          |
| 1   | YADAY BOHIT PRABHAKAK                            |         |          | 20      | = 617 | 7-20          | Sin technic | 7              | -     |               | 7             |          |
| 200 | YADAY SHALLENDRA BAJRANCI                        |         |          |         |       |               |             |                |       |               | 1             |          |
|     | GUPTA GOPI MORAN                                 |         |          |         |       |               |             |                |       |               | $\exists$     |          |
| 35  |  | Ser     | 50-      | Sei     | 500   | Sai           | Sei         | Sai            | Sal   |               | 1             |          |
| 56  | IADRAY SALANIL<br>IAISWAL AMERKUMAR NAVALKISHORE |         |          | -       |       | - 600         | 200         | The state of   |       | $\forall$     | $\dashv$      |          |
| 17  | IND WAL AND INCOME HAT VALKSSTRIKE               | _       |          | _       |       | -             |             | _              |       | $\rightarrow$ | $\rightarrow$ | _        |

| 39 | PADYE AKSHAY ARJUN         |    |       |     |   |     |       |      |     | T        | T |
|----|----------------------------|----|-------|-----|---|-----|-------|------|-----|----------|---|
| 40 | PALASE AKSHAY ARUN         |    |       |     |   |     |       |      |     | $\vdash$ | + |
| 41 | RANPISE BOHAN JAYANAND     |    |       |     |   |     |       |      |     | +        | + |
| 42 | RAUT SPURTI SHATRUGHNA     | Sm | frans | Sm  |   | Bo- | Emi   | 0    | 0   | $\vdash$ | + |
| 43 | WAGHMARE RUCHITA NANDKUMAR |    | 2 101 | Sin | - | 300 | 6 100 | Sinc | bre | $\vdash$ | + |
| 44 | KUBAL RAJESH RAMESH        |    |       |     |   |     | 1     |      |     | +        | + |
| 65 | YADAY AJAY                 |    |       |     |   |     |       |      |     |          | + |
| 46 |                            |    |       |     |   |     |       | -    |     | +        | + |
| 47 |                            |    |       |     |   |     |       | -    |     | +        | + |
| 18 |                            |    |       |     |   |     |       | -    |     | -        | + |
| 0  |                            |    |       |     |   |     |       |      |     | +        | + |
| 50 |                            |    |       |     |   |     | -     |      | _   | -        | 1 |
| 51 |                            |    |       | _   |   |     |       | -    | _   | 1        |   |
| 12 |                            |    | _     | _   |   |     |       |      | _   | +        |   |
| 9  |                            |    |       | -   |   |     |       |      | _   | 1        |   |
| 14 |                            |    |       | -   |   | -   |       | _    |     | _        |   |
| 15 |                            |    | -     |     | - |     | _     | _    |     |          |   |
| 6  |                            |    |       | -   |   | -   | -     |      | _   | _        |   |
| 17 |                            |    | -     | -   |   |     | _     |      | _   |          |   |
| 8  |                            |    |       |     |   |     | -     |      |     |          |   |
| ,  |                            |    | _     | -   |   |     | - 3   |      |     |          |   |
| 0  |                            |    | -     | -   | - |     | -     |      |     |          |   |
|    | NO OF STUDENTS PRESENT     |    | -     | -   | - |     |       |      |     |          |   |

SUBJECT INCHARGE



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S.E. ELECTRICAL (Year - 2017-2018)

| IL.           | Nume                                      | 11 1811 | ¥ / \$42      | 18 78 117 | 18/30 | 1.20 | 1 An  | 8/912 | 8 Am | P        | C         | 1 |
|---------------|---|---------|---------------|-----------|-------|------|-------|-------|------|----------|-----------|---|
| No.           |   | 1 1811  | 1.00          | 10.10     | -     | 1.7  |       |       |      |          |           | I |
| 1             | AGARWAL ABRISHEK PAWAN                    | (R)     | (A)           | (A)       | a     | (AR  | a.    | R     | A.   |          |           | I |
| 2             | CHAUDICASI PRASAD PRADIP                  | 130     | 600           | GV.       | P     | -    | 60    | (4)   | a    |          |           | Ī |
| 3             | DEHERIKAR YASH KARESH                     | 1       | EF            | C/S       | GI    |      | -     | -     |      |          |           |   |
|               | DHANGAR KOHNI KAJENDRA                    | 20      | -             | 20        | 10    | PP   | -     | PP    | P-12 |          |           | Γ |
| ,             | GOUNDAR SHASHIDHARAN                      | 1       | -             | 4.0       | 1.4   | (c)  | -     | 11    | 1    |          |           | Γ |
|               | BALASI FRAMANIAN<br>GLIPTA PIKESH MUSAFIR | +       | 1             |           |       | -    |       |       |      |          |           | Γ |
| 7             | GURAV SIRBHAM SANTOSH                     | +       | 1             |           |       |      |       |       |      |          |           | Ī |
|               | PARPALE MAY CHANDRAKANT                   | +       |               |           |       |      |       |       |      | $\neg$   |           |   |
| 9             | KOLISKAR KUSHAL VILAS                     | 1       |               |           |       |      |       |       |      | $\dashv$ | $\exists$ | - |
| 10            | HOLI NUTAN PRABHAKAR                      |         |               |           |       |      | -     |       |      | +        | 7         |   |
| 11            | KORE DEWANG MAHENDRA                      | P.D     | ED            | 10        | to    | 00   | to    | ŧo.   | rn   | +        | $\forall$ |   |
| $\overline{}$ | LOKE KAMLESH GANPAT                       | 100     | CD            | LD.       | Lo    | €.0  |       |       | ~    | +        | +         | - |
| -             | MANDAVKAR ABHISHEK VASANT                 |         |               |           |       |      |       |       |      | +        | +         | - |
| -             | MILINGEKAR ASHISH CHANDRAKANT             | +       |               |           |       |      |       |       |      | +        | +         | - |
|               |   | m       | ^~~           |           |       |      | -000  | -     |      | +        | +         |   |
| -             | NAIK NEERALARVIND<br>NAIK SUKANYA BHARAMU | an      | m             |           | m     | -    | 2000  |       | 1223 | +        | +         | - |
| -             | NAM PRANT SHANKAR                         |         |               |           |       |      |       |       |      | +        | +         | - |
| +             | NANDLAL GUPTA                             |         |               |           |       |      |       |       | _    | +        | +         | - |
| +             | NAME EUSIAN BAMCHANDRA                    | W       |               | R         |       | TP.  |       | 0     | AP.  | +        | +         | - |
| +             | NIKAM ASHISH BANGANATH                    | TH      |               | -14       |       | -14  |       | 74    | M    | +        | +         | - |
| +             | PANCHAL JATIN VINODKUMAR                  |         | $\rightarrow$ | -         | -     |      |       |       |      | +        | +         | - |
| +             | PASHTE KIKITA DIPAK                       | NP      |               |           |       |      |       |       | _    | +        | +         | _ |
| +             | PATIL PANKAJ BRAGWAN                      | N       |               | NP.       |       | Nº   |       | AP    |      | +        | +         | _ |
| +             | ATIL PRANIALI VILAS                       |         |               | -         | -     | -    | -     | -     | _    | +        | +         | - |
| +             | AWAR PRANALI INGANNATH                    |         | -             | -         | -     |      | -     | -     | -    | +        | +         | - |
| +             | ANE PRATHMESH CHANDRASHEEHAR              |         |               |           |       | -    | -     | -     | -    | +        | +         | - |
| -             | AUT ISHAN AMUL                            |         | -             | -         | -     | -    | -     |       |      | +        | +         | 4 |
| +-            | AINDANE RASHTRAPAL RAJENDRA               |         | _             |           | -     | -    | -     | -     |      | +        | +         | _ |
| 1             | ELVNEKAR VEHENU DAMODAR                   |         | -             | -         | -     | -    | -     | -     | _    | +        | +         | _ |
| H             |   |         |               | -         | -     | -    | -     | -     | -    | +        | 1         |   |
| Н             | NON HIMANSHU PRASHANT                     |         |               | -         |       | -    | _     | -     |      | -        | -         |   |
|               | NOH PRINCE PINTU                          | 900     | 0             | -         | 6     | _    |       |       | -    | 1        | 1         | _ |
| -             | GALE OHKAI PRAMOD                         | 3625    | 8             | \$        | 8     | 8    | 8     | 90 9  | 6    | 1        | +         | _ |
| -             | DAY ROET FRABRAKAR                        | -       |               | -         | -     |      |       |       |      | 1        | 1         |   |
| -             | DAY SHAILEVORA BAJRANGI                   |         | -             | -         | -     |      |       |       |      |          |           |   |
|               | PTA GOR MOIAN                             | 0       | 2             |           | 1     |      |       |       |      |          |           |   |
| _             |   | Sai !   | Sel .         | - 5       | e     |      | Sal : | Sei - | _    |          |           |   |
| AIS           | SWAL AMETRUMAR NAVALKISHORE               |         |               |           |       |      |       |       |      |          |           | 1 |



| 39  | PADYE AKSHAY ARJUM         | T   |   |        |            |   |       |   |   |               |
|-----|----------------------------|-----|---|--------|------------|---|-------|---|---|---------------|
| 60  | PALASE ACRITA'S ARUN       |     |   |        |            |   |       |   |   |               |
| 41  | ILANPISE ROHAN JAYANAND    | 10  |   | -      | - 0.       |   | 1     |   |   |               |
|     | RAITE SPURTE SHATRUGHNA    | Kan | 9 | May    | do         |   | Some  |   |   |               |
| 100 | WAGNMARE BURENTA RUNDAUMAR | To- |   | 1 dece | The second |   | G/rai | - |   |               |
| 44  | KUPAL KARISH KAMESH        |     |   |        |            |   |       | - |   |               |
| 13  | VADAVAJAY                  |     | _ |        |            |   |       |   |   | -             |
| in  |                            |     |   |        |            |   | -     | _ | - |               |
| 17  |                            |     |   |        |            |   |       |   |   | _             |
| 18  |                            |     |   |        |            |   |       |   |   |               |
| *   |                            |     |   |        |            |   |       |   | - |               |
| 50  |                            |     |   |        | -          | - |       |   | _ | -             |
| 11  |                            |     |   |        |            |   |       |   | _ | _             |
| e e |                            | 1   |   |        | -          |   |       | _ |   | +             |
| ti. |                            |     |   | _      |            |   |       | - | _ | -             |
| 4   |                            |     |   |        |            |   |       | - |   | $\rightarrow$ |
| 8   |                            |     |   |        |            |   | -     |   |   | +             |
| 6   |                            |     | - |        |            |   | -     |   |   | $\rightarrow$ |
| 7   |                            |     |   |        | -          |   | -     |   | - | $\perp$       |
| 8   |                            |     |   |        |            | _ | _     |   |   |               |
| 9   |                            |     |   |        |            |   | -     | - |   | -             |
| -   |                            |     |   |        |            |   |       |   |   |               |

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| R.  | Nine                                   | 15/1  | 17 15 Ma | non   | 24,20 | 13 100   | 13 10/17 | 201417    | no lan | P         | C            | T |
|-----|--|-------|----------|-------|-------|----------|----------|-----------|--------|-----------|--------------|---|
| No. | Tiese                                  |       |          |       |       |          |          |           |        |           |              | Ī |
| 1   | AGARWAL ADRIBUTE PAWAN                 | (A    | 3 (8)    | (A)   | A     | (8       | a.       | (A)       | -      |           |              | I |
| 2   | CRACTWORLDWAYAD PRACHP                 | 9     | 100      | (D)   | P     | D.       | 9        | 1         | -      |           |              | I |
|     | DTHERMAN YASH NAKESH                   | 1     | 102      | 10    | 100   | 100      | 1        |           |        |           |              | Γ |
| 4   | DIGANGAR RORNI HARINDRA                | 20    | 2 70     | ED    | -     | RD       | 10       | -         | 10     |           |              | Γ |
|     | GOUNDAR SHAHEDHARAN<br>BALASUBRAMANGAN |       |          | 1     |       |          | 1        |           |        |           |              | Γ |
|     | GUPTA POSIMI MUNAPIB.                  |       |          |       |       |          |          |           |        |           |              | Γ |
| ,   | GURAV SHUBELUM SANTOSH                 |       |          |       |       |          |          |           |        |           |              | - |
| 1   | HARPALE AJAY CHANDRAKANT               |       |          |       |       |          |          |           |        | $\forall$ |              | - |
| ,   | KOLEKAR KUSHAL VILAS                   |       |          |       |       |          |          |           |        | 7         | $\neg$       | - |
| 11  | KOLI NUTAN PROBHAKAR                   |       |          |       | -     |          |          |           |        |           |              | - |
| 11  | KORE DEWANG MARENDRA                   | 100   | 1 KD     | 10    | RD    |          | 20       | RD        | *n     | 1         | $\exists$    |   |
| 12  | LORE KAMLESHGANPAT                     | 1     | 1.00     | 1     | 1-0   |          | P.M.     | 142       | 7.12   | +         | 1            | - |
| 13  | MANDAVKAR ABRESHEK YASANT              | 1     |          |       |       |          |          |           |        | 1         | 1            | f |
| 14  | MUNUEKAR ASSISII CHANDRAKANT           | 1     |          |       |       |          |          |           |        | +         | 1            | _ |
| 15  | NAIK NEERAJ ARVIND                     | m     | -        | m     | -     | 2007     | m        | m         | an     | 1         | 1            | - |
| -   | NAIK SUKANTA BIARAMU                   | (III) |          | (900) |       | 7 9 80 7 | 911      | 4-41      | 7.41.  | +         | -†           | - |
| 17  | NAM PRANTI SHANICAR                    |       |          |       |       |          |          |           |        | +         | 1            | - |
| 111 | NANDLAL GUPTA                          |       |          |       |       |          |          |           |        | 1         | 1            | _ |
| 19  | NANHE ROSHAN BANCHANDRA                | R     | -        | D.    | R     | SAP .    | 4        | 6         | 0      | +         | $^{\dagger}$ |   |
| 10  | NIKAM ASHIRI RANGANATH                 | 1     |          |       | -     | - 4      |          |           | -      | +         | 1            | - |
| 1   | PANCHAL JATIN TINODKUMAR               |       |          |       |       |          |          |           |        | $^{+}$    |              | - |
| 2   | PARITTE MIGITA DEPAR                   | NP    |          | AP    |       | AP       | _        | B         | AP     |           |              | 1 |
| ,   | PATIL PANKAJ IIHAGWAN                  | 195   |          |       |       |          |          |           |        |           | +            |   |
|     | PATE PRANJALI VILAS                    |       |          |       |       |          |          |           |        | +         | +            |   |
| ,   | AWAR FRANALI JAGANNATH                 |       |          |       | _     |          |          |           |        | 1         | +            | - |
| +   | RANE PRATIBILISH CHAMDRASHEEHAR        |       |          |       |       |          |          |           |        |           | +            | - |
|     | AUT ISHAN AMOL                         |       |          |       |       |          |          |           |        | $^{+}$    | +            |   |
| +   | AINDANE RASHTRAPAL KAJENDRA            |       |          |       |       |          |          |           |        | +         | 1            | - |
| +   | HIVNEKAR VISING DAMODAR                |       |          |       |       |          |          |           |        | 1         | 1            | Ī |
| +   | NGH HIMANSHII PRASHANT                 |       |          |       |       |          |          |           |        | 1         | 1            | _ |
| +   | NOR PRINCE PINTU                       |       |          |       |       |          |          |           |        | 1         | 1            | - |
| +   | SCIALE COMKAR PRAMOD                   | 8     | 9        | _ !   | 6     | 0        | 8        | D -       |        | +         | 1            | - |
| ŧ-  | ADAY RORET PRABHAKAR                   |       |          |       |       |          |          | -         |        | +         | 1            |   |
| +   | ADAY SHAILENDRA BAMAHGE                |       |          |       |       |          |          |           |        | 1         | 1            | 1 |
| -   | JPEA GORT MORIAN                       |       |          |       |       |          |          |           |        | 1         |              | 1 |
| ₽   | DHAY SALANE.                           | Sai   | Se       | _ <   | See S | San      | _ (      | Sei -     |        | +         | 1            |   |
| -   | SWAL AMITEUNDS SAVALKESKORE            |       |          | -     |       | -        | -        | Serving 1 |        | +         | 1            | 1 |
| -   | AR ASSIST RAKINGRAN                    |       | -        | _     | -     |          | -        |           | -      | +         | +            | 4 |



| 19 | PADYE AKSHAY ARJUN         |      |      |      |     |        |      |       |    | -        |   |
|----|----------------------------|------|------|------|-----|--------|------|-------|----|----------|---|
| 12 | PALASE AKSHAY ARUN         |      |      |      |     |        |      |       |    | $\sqcup$ |   |
| ı  | RANPRE ROHAN JAYANAND      |      |      |      |     |        |      | 0     | _  | $\sqcup$ |   |
| 1  | RAUT STURTI SHATBUCHNA     | Son. | on   | Some | fr- | france | down | front | Do | Н        |   |
| ,  | WAGHMARE RUCHITA NANDKUMAR |      |      |      |     |        |      |       |    | $\perp$  | _ |
| 1  | CUBAL TATESH RAMESH        |      |      |      |     |        |      |       |    | $\perp$  |   |
| 6  | YADAY AMY                  |      |      |      | 191 |        |      |       | N  | -        |   |
| 6  |                            |      |      |      |     |        |      |       |    |          | - |
| ı  |                            |      |      |      |     |        |      |       |    |          |   |
| 0  |                            |      |      |      |     |        |      |       |    |          | 4 |
| ė  | 5.                         |      |      |      |     |        |      |       |    | _        | 1 |
| 9  |                            |      |      |      |     |        |      |       |    |          | 1 |
| 1  |                            |      |      |      |     |        |      |       |    | -        | 4 |
| 1  |                            |      |      |      |     |        |      |       |    | _        | 4 |
| Ů. |                            |      | 8. 1 |      |     |        |      |       |    | _        | + |
| 1  |                            |      |      |      |     |        |      |       |    | _        | 4 |
|    |                            |      |      |      |     |        |      |       |    | 1        | 1 |
| 4  |                            |      |      |      |     |        |      |       |    | -        | 1 |
| 7  |                            |      |      |      |     |        |      |       |    |          | + |
| 4  |                            |      |      |      |     |        |      |       |    |          | + |
| 8  |                            |      |      |      |     |        |      |       |    | -        | 1 |
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| R.  | Name                                    | 49-Jon | 23 36/17 | 3 / 107 | 3 /4/11 | 10 /1/ | 10/1/17 | 13.1 412 | ta-1.401 | P            | C      | 1        |
|-----|---|--------|----------|---------|---------|--------|---------|----------|----------|--------------|--------|----------|
| No. | Time                                    |        |          |         |         |        |         |          |          | _            | _      | L        |
| 1   | AGARWAL ADMINISTER PAWAS                | (A)    | (A)      | Q.      | a       | æ      | A.      | R        |          |              |        | L        |
| 1   | CHAUCHABI PRAKAD PRADIP                 | P      | -        | P       |         | (P)    |         | P        |          |              |        | L        |
| 3   | OTHEKISAK YASH NATERI                   |        | -        |         |         |        |         |          |          |              |        |          |
|     | DHANGAR BOHDG ROJENDRA                  | Pp     | 20       | RO      | Po      | -      | -       | PD       |          |              |        | L        |
| 5   | GOUNDAR SHASHEDHARAN<br>BALASUBRAMANIAN |        |          |         |         |        |         |          |          |              |        |          |
| 0   | TOPTA PIKTSH MUSAFIIL                   |        |          |         |         |        |         |          |          |              |        |          |
| 7   | GUNAY SHUBBASH SANTONE                  |        |          |         |         |        | 1       |          |          |              |        |          |
|     | HARPALE AJAY CHANDRAKANE                |        |          |         |         |        |         |          |          |              |        |          |
|     | KOLEKAR KUSHAL VILAS                    |        |          |         | 9       |        |         |          |          |              |        |          |
| 10  | KOLE NUTAN PRABILUKAE                   |        | i        |         |         |        |         |          |          |              |        |          |
| 11  | KORE DEWANG MARENDRA                    | ₽n     |          | 2n      | 10      | to     | CD      |          |          | T            | $\neg$ |          |
| 11  | LOKE KAMLESK GANPAT                     |        |          |         |         |        |         |          |          |              |        |          |
| n   | MANDAVKAR ABHISHIK VASANT               |        |          |         |         |        |         |          |          |              |        |          |
| 14  | MUNGEKAR ASHISH CHANDRAKANT             |        |          |         |         |        |         |          |          |              | $\neg$ |          |
| 15  | NAIK MEERALARVIND                       | ans    | മ്മാ     |         | mos     | _      | ഞ       | _        |          | $\neg$       | T      |          |
|     | NAIR BUKAHYA DIYAKANU                   | 1.00   | 2001     |         |         |        |         |          |          |              |        |          |
| 17  | NAM PRANIT SHANKAR                      |        |          |         |         |        |         |          |          | T            |        |          |
| 18  | NANDEAL GUPTA                           |        |          |         |         |        |         |          |          | T            |        |          |
| 19  | NANHE ROSHAN RAMCHANDRA                 | A      | _        | Q.      | _       | P      | æ       | -        | -        |              | $\neg$ |          |
| 28  | NIKAM ASHISH ILANGANATH                 | 1      |          | -       |         |        | -       |          |          | $\neg$       | 1      |          |
| 11  | PANCHAL JATEN VINOUKUMAR                |        |          |         |         |        |         |          |          | $\neg$       |        |          |
| 12  | PASHTE MIKITA DIPAK                     | AP.    | _        | NP      | NP      | NP     | NP      | _        |          | $\top$       |        | П        |
| 3   | PATEL PANKAI BHAGWAN                    |        |          |         |         |        |         |          |          | 1            | 1      |          |
| 4   | PATIL PRANUALI VILAS                    |        |          |         |         |        |         |          |          |              |        |          |
| 5   | PAWAR PRANALI INGANNATH                 |        |          |         |         |        |         |          |          | $\top$       |        |          |
|     | IANE PRATIMENI CHANDRAREDIAN            |        |          |         |         |        |         | - 19     |          | $\top$       | $\top$ | T        |
| ,   | EAUT BRIAN AMOL                         |        |          |         |         |        |         |          |          | $\top$       | _      | 7        |
| 8 5 | AINDANE RASHTRAPAL RAJENDRA             |        |          |         |         |        |         |          |          | $\top$       | +      | ٦        |
| , , | HEVICKAR VSHINU DAMODAR                 |        |          |         |         |        |         |          |          | $\top$       | +      | 1        |
| +   | ENCHERIMANISHI PRASHANT                 |        |          |         |         |        |         |          |          | $^{\dagger}$ | +      | 1        |
| +   | INGH PRINCE PINTU                       |        |          |         |         |        |         |          |          | $\pm$        | +      | 1        |
| +   | OGALE CHIKAR PRAMOD                     | 10     | 8        | 90      | -       | 10     | 5       |          |          | +            | +      | $\dashv$ |
| +   | ADAY ROUT PRABBAKAR                     |        |          |         |         |        |         |          |          | +            | +      | $\dashv$ |
| +   | ADAY SHAILENDRA BAJRANGE                |        |          |         |         | -      |         |          | -        | +            | +      | $\dashv$ |
| +   | UPEN GODE MOREAU                        |        |          | -       |         |        |         |          | -        | +            | +      | $\dashv$ |
| +   | DHAY SALANIL                            | Sai    | Sec      |         | 500     | Soc    | Sa      | Sec      | 0.       | +            | +      | $\dashv$ |
| -   | SWAL AMITKUMAR NAVALKISHORE             |        | 200      |         | 234     | 100    | 300     | 200      | 25       | +            | +      | $\dashv$ |
| M   | EZE AL PARLEDONIA TOTTAL PROPERTY       | _      | _        | _       | _       |        |         |          |          |              | _      | _        |



| n   | FADYE AESHAY ARIUN         |     |     |   |      |      | _  | -   | -   |          |
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SUBJECT INCHARGE



# VIVA INSTITUTE OF TECHNOLOGY

(Affiliated to University of Mumbai; Approved by AICTE & DTE)

Veer Savarkar Marg, Shirgaon, Virar 401303

Department of Electrical Engineering

# CERTIFICATE

This is to certify that,
Mr./Ms. Naik Neeraj Arvind
of SE Electrical
has successfully completed value added course on
"Printed Circuit Board Design"
organized by

Department of Electrical Engineering for A.Y. 2017-18 from 14th Jul 2017 to 10th Nov 2017.

Ahalch

Prof. Pratik Mahale

Course Coordinator

BRED

Prof. Bhushan Save Head of Department



## **VALUE ADDED COURSE**

| Name of Course:       | ELECTRICAL<br>INSTALLATION | Branch:             | Electrical Engineering |
|-----------------------|----------------------------|---------------------|------------------------|
| Duration:             | 30 Hours                   | Instructors:        | SUSHANT BANSAL         |
| Date of Commencement: | 24 JAN 2018                | Date of conclusion: | 10 April 2018          |

|           | Course Outcomes  |
|-----------|--|
| Upon succ | cessful completion of the course, the student must be able to                                  |
| CO1       | To understand practices followed in industries for safety of equipment and personnel.          |
| CO2       | To understand basic electrical and electronics concepts, devices and their electrical ratings. |
| CO3       | To understand power transfer systems and their installation practices in industry              |
| CO4       | To understand documentation required for installation.   |

### **Course Objectives**

The objective of this vocational course is to make students understand various installation practices followed in industries for electrical equipment. This course is designed to make students job-ready for the industry by instilling multiple skills in them like electrical drawing and reading, IEEE and IS standards followed in industries, documentation for industries, etc.

|          | Syllabu<br>s   |           |
|----------|--|-----------|
| Unit No. | Contents   | Hour<br>s |
| 1        | Health and safety industry practices The regulations, laws and guidance documents associated with the electrical industry, Use equipment on a construction site, Follow safety procedures, practices and policies on construction sites, Carry out electrical safety procedures and practices, Understand environmental protection, structure and roles of individuals and organizations | 6         |
| 2        | Electrical science Understand direct current principles, Understand electromagnetic properties associated with devices under installation, Understand electronic components required for installation with data sheets and drawings.   | 6         |



| 3 | Electrical installation  Tools commonly used in electrical installation practices, Erect cable containment/management systems used in electrical installation, Install wiring systems and supports used in electrical installation activities, Install accessories and terminate using a range of connections. | 6 |
|---|--|---|
| 4 | Power transfer technology Understand how electricity is supplied and the characteristics of consumer's equipment, Understand isolation and protection, Understand automatic disconnection of supply, Understand the principles of final circuits   | 6 |
| 5 | Technical documentation with clients Understand technical information with help of IEEE standards, manufacturerguidelines, Drawings used to plan electrical activities, Types of financial information, Types of handover information  | 6 |

## **Learning Resources**

#### **Text Books:**

- 1. Trevor Linsley, "Basic electrical installation work", 1989
- 2. J. B. Gupta, "A Course in Electrical Installation Estimating and Costing", 2013.

#### **Reference Books:**

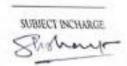
- Tarlok Singh, "Installation Commissioning & Maintenance Of Electrical Equipments", 2013
   Brian Scaddan, "Electrical Installation Work", 2015



| SI | BJECT: Value of             | short | +30  | 6.1         |       |        |        |             |        | 2018) |   |   |
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# VIVA INSTITUTE OF TECHNOLOGY

(Affiliated to University of Mumbai; Approved by AICTE & DTE) Veer Savarkar Marg, Shirgaon, Virar 401303

Department of Electrical Engineering

# CERTIFICATE

This is to certify that,
Mr./Ms. Dhapsi Sunny Sainath
of BE Electrical
has successfully completed value added course on
"ELECTRICAL INSTALLATION"
organized by

**Department of Electrical Engineering** for A.Y. 2017-18 from 8 FEB 2018 to 7 April 2018.

Course Coordinator Head of Department





#### VIVA INSTITUTE OF TECHNOLOGY

Shirgaon, Virar ( E), Tal: Vasai, Dist: Palghar  $\,$  – 401 305.

#### CIVIL ENGG. DEPARTMENT



Academic Year: 17-18

Resource person: Ms. Ramya Raju

#### Conducted as per time table for the respective subject

Hours: 30

### **Objectives:**

- 1. Plan for a project in detail
- 2. To use templates which creates projects in project 2017
- 3. To create, manage, schedule and track all the imputed resources
- 4. To create, manage, assign and track tasks of all inputted resources
- 5. To work with deadline and constraints
- 6. To use dependencies to help schedule tasks
- 7. To run reports

#### **Course Outcomes**

At the end of the course, learners will be able to understand:

- 1. The functions involved in software related to civil engineering projects.
- 2. How to prioritize tasks, define expectations and prepare schedule.
- 3. Will know tracking and managing resources throughout the project.
- 4. To create and tracking budgets and sharing calendars with the team.
- 5. Learn about risk management involved in project management.





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Shirgaon, Virar (E), Tal: Vasai, Dist: Palghar - 401 305.



#### CIVIL ENGG. DEPARTMENT

#### Chapter 1: An Introduction to Project Management................. 03hours

Recognize when to use project management, role as a project manager is to deliver a project, communications, influence, and careful use of authority all play a major factor in the support you receive to complete the project, Project managers frequently find themselves with the challenge of adding new scope to a project with an already tight timeline. Typically, the job of the project manager is to work with their team to determine what this new scope will mean and how it will affect the project, building and tracking project schedules.

#### 

To recognize best practices when running ms project for the first time, microsoft project user interface, the ribbon area icons, tabs, and access to the backstage, microsoft project scheduling engine, preparing a new project, estimating the project, ribbon actions (icons) you may need to perform within microsoft project, backstage is a full-screen area that allows you to open, save, share, and print your project, using views and tables

### 

constraint based scheduling, calculates dates for you based on constraints you place on tasks and resources, critical path and user-controlled scheduling, user-controlled scheduling can effectively break the ability to identify the critical path because durations, start dates, and finish dates are not required when using this feature, configure project options, microsoft project offers many options for you to configure the user interface, scheduling engine, and task tracking for your project most of these options are located in the backstage using the options menu item.

## Chapter 4: Preparing a New Project......6 hours

Create a new project before you create a new project, make sure you have all the project options configured as you want them unless you have a unique reason to do otherwise, it is a good practice to start with a blank project configure a project

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#### CIVIL ENGG. DEPARTMENT

ealerdar learn the differences between the Microsoft project calendars and when to use them.

#### Chapter 5: Estimating the Project......3 hours

Add tasks to the project, add durations to each task, add predecessors to each task to link tasks together, create the critical path, add resources to the project, create resource assignments, build a work breakdown structure, add costs to the project, add milestones to the project, add lag and review the critical path, adjust resource allocations.

#### Chapter 6: Tracking the Project......2 hours

To create a baseline baselines, custom views and fields project reporting task status updates updating task status from your team and update the project progress. resource assignment status updates.

#### Chapter 7: Custom Views and Fields......3 hours

To create custom views and tables views, create custom fields microsoft project, create graphical indicators when you create a custom field, further enhance it to use graphical indicators. these indicators allow you to display things like red, yellow, and green flag

### Chapter 8: Project Reporting... 2 hours

working with the timeline, multiple timelines in project 2016, 2019 and online, working with the reporting module, about agile projects, using the task board, using sprints, using project online desktop, tips and tricks conclusion go to goskills.com using boards and the gantt chart, sharing boards





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### CIVIL ENGG. DEPARTMENT



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Late Shri Vishnu Wamun Thakur Charimble Trust's

#### VIVA INSTITUTE OF TECHNOLOGY

Approved by AICTE New Delhi, Affiliated to University of Mumbal Shirgson, Virar (East), Dist: Palghar — 401-303, Maharashtra



## Certificate of Participation

This is to certify that Dr. / Mr. / Ms. SAYALI JADHAV has attended software course on "MSP & PRIMAVERA" organized by Civil Engineering Department from 10<sup>th</sup> July 2017 to 15<sup>th</sup> September 2017 at VIVA Institute of Technology, Shirgson, Mumbai.

(Prof. Ramya Raju)

Co-ordinator

(Prof. Lissy Jose)

Head of Civil Engg Department

(Dr. Arun Kumar)

Principal





#### VIVA INSTITUTE OF TECHNOLOGY

Shirgaon, Virar (E), Tal: Vasai, Dist: Palghar - 401 305.

#### CIVIL ENGG. DEPARTMENT



Name of the Course: Recent trends in Civil Engineering

**AY: 2017-18** 

**Course Duration: 30 hrs** 

#### **Schedule**

| Date       | Pre-Lunch (9am-12pm) | Post-Lunch (1pm-4pm) |
|------------|----------------------|----------------------|
| 26/06/2017 | Ramya Raju           | Akshay Mistry        |
| 27/06/2017 | Lissy Jose           | Monica More          |
| 28/06/2017 | Akshay Mistry        | Lissy Jose           |
| 29/06/2017 | Ashish               | Shetty               |
| 30/06/2017 | Ramya Raju           | Monica More          |

## Day 01: Introduction to concrete trends on site

Session 01: Cube casting techniques as per IS codes

W/c ratio proportion as per IS codes and actually used

Varying size of aggregates and its disadvantages

Type of sand used for casting purpose

Session 02: Mix design as per IS codes

Mix design calculations and assumptions





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## **Day 02: Construction Management implementation**

Session 01: flowchart of construction industry

Role of construction Supervisor

Session 02: Introduction to estimation in construction work

Planning for equipment

## Day 03: Construction advance equipment's

Session 01: planning and process of equipment and methods

Required planning of equipment's

Session 02: Geotechnical materials, compaction and stabilization

Day 04: Water field Technologies

Day 05: Usage materials testing equipment

Session 01: Compression testing machine

Universal testing machine

Session 02: Abrasion test on aggregate

Impact value test on aggregate





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# **Report:**

One week course was conducted by civil engineering faculty in order to provide basic knowledge about recent trends and upcoming methods in civil engineering to final year students. It has helped students to learn and understand the method of using various equipment's for various taskon field.

### **Course Objectives:**

- 1. To understand the knowledge of construction management
- 2. To learn about various methods in concrete technology
- 3. To learn how various equipments can be used
- 4. To learn how material testing equipments can be used
- 5. To understand water field technologies

#### **Course outcomes:**

- 1. Students will be able to understand how construction management methods can be used in various cases
- 2. Students will be able to understand various testing methods carried out according to material availability
- 3. Students will be able to understand where advance equipments can be used
- 4. Students will be able to operate various material testing equipments
- 5. Students will be able to analyze various water field technologies





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## **CO PO MAPPING**

|     | Program<br>Outcomes |     |     |     |     |     |     |     |     |      |      |      |          |
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#### ATTENDANCE SHEET

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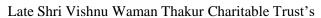


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| 1     | TE MAYOREM NARAYAN MALINI  | mula s   | 1.35    | 10.9                    | A       | A       |        |     |             |         |          |     |
| PAI   | TE PROFANCE DISCHOLDER SHEVANTA  | 244      | alu     | Tims                    | . 4     | . 0     | E      |     |             |         |          | 1   |
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| -     | WAR AMIT CHINTAMAN   | fun      | MA      | A                       | Hm      | 120     |        | _   | -           | +       | +        | -   |
| 120   | WAA DINESH CHUNILAL KALIDEVI   | 0 × 9    | A       | 87                      | 14      | 2.      |        |     |             | -       | -        |     |
| T     |  | Shel     | -       | aus                     | Shull   | A       | 1      |     | 1           |         |          |     |
| Park  | VAR SMUBILANI PRADETP RUPAU  | A        | Δ       | Δ                       | al.     | 14-     |        |     | 1           |         |          |     |
| MEDI  | MEKAR SUIAN RAPIL SMEHA  | 1        | 1       | 4                       | A       | 1       |        |     |             |         | 1        |     |
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| ACID. | ARI SWASTIE SHPKANANO SHORMA   | 200      | Var     | A                       | Psay    | A       | 9      |     |             |         |          |     |
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| WA    | R DERAG RAJENDRA RODPA   | B        | H       | A_                      |         | A       |        | -   |             |         | +        | -   |
| hor   | NT CHETAN GARPAT PANKHU  | 1        | A       | M                       | A       | 1       |        |     |             |         |          |     |
|       | HANDRESH BEUMOHAN INDU   | A        | A       | A                       | A       |         |        |     |             |         | 1        |     |
|       | - In the second  | 1        | 1       | A                       | A       | A       | 1 8    |     |             |         |          |     |
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| нос   | D KASIM ALI SHAMIM   | A        | FA      | B                       | A       | A       |        |     |             |         |          |     |
|       | and and have experience  | A        | A       | AT.                     | Α.,     | A       |        |     |             |         | T        | 1   |
| 333   | DHAR GREEIA MUKUND SANGEETA  | all wife | State . | 200                     | myrita  | A       |        |     |             |         | 1        |     |
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| API   | E PRAJVOT TUKARAM POGIA  | me D     | 200     |                         | A       | P       |        |     | 1           |         | $\dashv$ |     |
| ,AR   | GANESH SAMGAPPA SAVITA   | / 6      | 1       | an Bil                  |         | -       |        |     | -           | _       | -        | -   |
|       | KAR ROMAK YATISH SMEHA   | 11       | FN.     | 14                      | 1.1     | 47      | W 20   | I   | 29          | 40      | - 1      | 6 0 |





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# CIVIL ENGG. DEPARTMENT



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| 42   | SAWANE PRITHYMAU   | Cante | M             | 1 .4                                   | 0        | - 41     |           |               |           |          | -        |          |
| 4)   | SHAHU SHAMINAM DHARMENDAA GEETA  | Chare | March         | Theat                                  | 1        | <u>m</u> |           |               |           | -        |          | -        |
| 44   | SHAREN AREAAT ASAD VANIDA  | Tinh  | NO.           | The Co                                 | -        | 10       |           |               |           |          | -        |          |
| 45   | SHARM SYAN ASSISAN SHAREN  | S QUE | ^             | Expo                                   | 7        | n        | _         |               |           |          | _        | -        |
| 46   | SHARMA RAUNUMAR BARAN KIRAN  | - IT  | porkt         | 1)                                     | Entre)   | 1        | -         |               |           | -        | -        | -        |
| 47   | SHELAR BOHIT KESHAV  | Com   | 0.01          | Pohit.                                 | A        | 1        |           | 1             | -         | -        | -        | -        |
| 40   | SHEWALE ALAY RANDRUMAR SUWANDA   | Dion  | Amy           | A                                      | May      | Hay      |           |               |           | -        | -        | -        |
| .,   | SHEWALE HARSH SUNR BHAVARA   | 100   | 150           | -1                                     | _ FJ_    | 1        |           |               | _         | -        | _        | -        |
| 50   | SHINDE CHINNAT MEING SANGEETA  | (N)   | -A            | (PA)                                   | V        | A        |           |               | 8         |          | -        |          |
|      | SHINDE SONALI GAMESH SHAADOHA  | A.    | (2)           | - A.                                   | 0        | 8        |           | <u></u>       |           |          |          |          |
|      | SHINOT SWAFFIL SHIVAN SANGTERA   | SAM   | A             | Auri                                   | A        | A        |           |               |           |          |          |          |
| - G  |  | ٨     | A             | A                                      | A        | A        |           | <u> </u>      |           | N.       |          |          |
| 1    | SHIRE IAYANT BAGASAHER LAIITA  | (R)   | A             | a                                      | A        | A        |           | ji -          |           | 01       |          | 1        |
|      | SHVALKAR HUTUIA DISAMBAR AHRITA  | TOH   | ^             | Hom                                    | 14       | Land     |           |               |           | Val      |          |          |
|      | SINGH HIMANSHU HARIKESH  | A     | (A)           | M                                      | Q        | -AP      |           |               | 8 7       |          |          |          |
| 6    | SONAWANE HEMANT RAJARAM  | 13    | 0             | 1                                      | Λ.       | A        |           |               | (T        | 1        | $\vdash$ | 1        |
| 7    | TAMBE DEEPAK DINESH DARSHANA   | 1     | 41-           | -                                      | the land | -11      |           |               |           | -        | $\vdash$ | $\vdash$ |
|      | TARE AADESH SURESH SUREINIA -  | - A   | A             | 1                                      | TORK     | 1000     | -         | 6             |           |          | $\vdash$ | -        |
| , ,  | THAKUS HIRAS PRANIOD MADHAM  | 1     | _ <del></del> | A,                                     | F1.      | _        |           |               |           |          | $\vdash$ | +        |
| ,    | MOMBARE ROHET NAMDEY   | +ex   | A             | 18th                                   | A CORPS  | A        |           |               |           |          | ⊢        | ╀        |
| l lu | PADHYAY ABHISNEKKUMAR  | *     | -             | H                                      | D        | A        |           |               | 8 = -     |          | _        | _        |
| V    | AGAI SURAI SUBHASH USHA  | BUL   | A             | Jat-                                   | akt      | A        | Ī.        | 1             |           |          |          | 1        |
| V    | AITI YASH DEEPAK VIJAYA  | A     | 49            | Loar                                   | 1/200    | 2 yast   | 8         |               |           |          |          |          |
| 1    | TUAKARAN KUMAS KADUPULAI   | fumo  | A             | almoi                                  | 4        | (4       | 9         | li ne         | (0)       |          |          | П        |
|      |  | d     | D.H           | 10                                     | 0.00     | 0        |           | T W           | 1         |          |          | 100      |
| 1    | INERKAN RUPESH JAMARDAN JAYASHREE  | mino  | Dirigo        | Mod                                    | Turk     | Line     |           | 7             |           |          |          | $t^{-}$  |
| 6 V  | WAGH MIHIR RAVINDRA VIDHYA   | mira  | - 1           | DAY.                                   | (B)RX    | Whi      | -         |               | W         | $\vdash$ | -        | -        |
| 7    | WAGHMODE SACHIN  | SUM   | Cally         | Could                                  | 11       | A        |           |               |           |          |          |          |
|      | YADAY ADARSH SUNIL CHHAYA  | A.    | Account       | ector                                  | (Andors  | A C      |           |               |           |          |          |          |
| 9    | YADAY ARUNKUMAR JAWAHARLAL   | WHOCH | A             | Waday                                  | A        | A        | 9 9       |               |           |          |          |          |
|      | YADAV PANKAI LALLANPRASAD LAUTA  | Tour  | 0A            | A                                      | Pas      | 200      |           |               |           |          |          |          |
|      | <u> </u>   | A     | 00            | 83                                     | A        | A        |           |               |           |          | 100      | Ŋ.       |
|      | YADAV YIHAY RAMSHANKAN JUGRADEVI   | (3)   | A             | 13                                     | Co       | (3)      |           |               |           |          |          |          |
| 2 2  | ZAGADE ASHRITA VINAYAK VINITA  | 1     |               | 2                                      | 100      | 5        |           |               |           |          |          | GT.      |
| 3 2  | ZANJ VIRAJ VASUDEV VINITA  | 1     | CM            | 200                                    | 14       | (W)      | 1         |               |           |          |          | 11       |





#### VIVA INSTITUTE OF TECHNOLOGY

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Late Shri Vishnu Waman Thakur Charitable Trust's

#### VIVA INSTITUTE OF TECHNOLOGY

Approved by AICTE New Delhi, Affiliated to University of Mumbai Shirgaon, Virar (East), Dist: Palghar ... 401 303, Maharashtra



# Certificate of Participation

This is to certify that Dr. / Mr. / Ms. Mehta Kaustubh has attended one week course on "Recent trends in Civil Engineering" organized by Civil Engineering Department from 26th June 2017 to 30th June 2017 at VIVA Institute of Technology, Shirgaon, Mumbai.

(Prof. Ramya Raju)

Co-ordinator

(Prof. Lissy Jose)

Head of Civil Engg Department

(Dr. Arun Kumar)

Principal



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Affiliated to the University of Mumbai
Shirgaon, Virar(E.), Dist: Palghar- 401305, Maharashtra

#### **DEPARTMENT OF FIRST YEAR ENGINEERING**

#### **ACADEMIC YEAR-2017-18**

#### **VALUE ADDED COURSE**

| NAME            | SOFT SKILLS  |
|-----------------|--|
| DURATION        | (1 WEEK) 30 HRS  |
| DATE & TIME     | 2 <sup>nd</sup> Jan to 6 <sup>th</sup> Jan 2018/9.30am -12.30am and 1.30am -4.30am |
| RESOURSE PERSON | Mr. Prashant Pawar & Mrs.Trupti Patil  |

#### **COURSE OBJECTIVE:**

To help the future engineers to understand and implement soft skills in the work environment.

**Aim:** The course can help future engineers to improve their communication, problem-solving and presentation skills with an aim to land a better job.

#### SESSIONS ON SOFT SKILLS FOR FIRST YEAR ENGINEERING STUDENTS

| Session 1.  | Soft Skills and You          |
|-------------|------------------------------|
| Session 2.  | Interpersonal Communications |
| Session 3.  | Leadership Management        |
| Session 4.  | Preparing for Employment     |
| Session 5.  | Group Discussion             |
| Session 6.  | Resume Building              |
| Session 7.  | Mock Interview               |
| Session 8.  | Presentation Skills          |
| Session 9.  | Communication at Workplace   |
| Session 10. | Workplace Etiquette          |





H.O.D DR. Ajazul Haque

#### Late Shri. Vishnu Waman Thakur Charitable Trust's VIVA Institute of Technology Academic Year: 2017- 2018

First Year Engineering Attendance for certificate courses

|                | Date                           | 2/11      | 12018     | 3/1/        | 2018      | 4/1                   | 12018     | 5/1/       | 2018      | 6/1/2018  |  |  |
|----------------|--------------------------------|-----------|-----------|-------------|-----------|-----------------------|-----------|------------|-----------|-----------|--|--|
|                | Form Time                      | 930       | 1.30 -    | 930<br>(230 | 4.30      | 330                   | 4.30      | 930        | 430       | 930       | 430  |  |
| SR.NO.         | Name Of Participant            | Session_1 | Session 2 | Session 3   | Session 4 | Session 5             | Session 6 | Session 7  | Session 8 | Session 9 | Session 10   |  |
| 1              | ATIGRE SWAGAT SHANKAR          | Sugar     | Sugar     | Sougar      | hunger    | Spajor                | 3034      | Sugar      | 3 words   | Shogal    | Swaper   |  |
| 2              | BHISE JAY PRASHANT             | House     | 11.1-35   | Hester      | Bhite     | Polise                | BHE       | Blice      | Brise     | Blysia    | mas  |  |
| 3              | BHOIR HARDIK DAYANAND          | MAK       | W-        | Bhore-      | Judge     | Herely                | madele    | Hospits    | - However | Hodie     | Hordi  |  |
| 4              | CHOUDHARY TEJAS MOTILAL        | 100       | アッツ       | Types       | Tesas     | Topas                 | Tever     | TEMP       | Jo/201    | Terior    | regar  |  |
| 5              | CHOUGULE RITESH VILAS          | arter     | Fred      | astor       | Rito to   | Patery                | PIST      | Pitab      | Ritar     | RACH      | French   |  |
| 6              | DARDE GAURANG PRAKASH          | No 1894   | Darge     | Doyse       | Corse     | Dans                  | - arrye   | Darge      |           | Dorse     | Desc   |  |
| 7              | DENNIES RAJI THOMAS            | Posi      | Rosji     | Fasi        | Repl      | Paji                  | Raji      | Pay        | Pagi      | Page      | Page   |  |
| 8              | DHADIWAL RITESH NANA           | Report    | - Rifus   | Pekste      | Pity h    | Roberts               | Ritish    | Birth      | Ritgh     | PHUX      | Poloch   |  |
| 9              | GHODKE SAMEER BABURAO          | Simila    | Sephota   | - Sover     | Soprate   | 85chm                 |           | Atthour    |           | 86hours   | RAOL   |  |
| 10             | GAVAND RITUL RAVINDRA          | Roberte   | REGULAR   | PGave 2     | Parw ?    | + Referred            | dame      | Pigener    | part      | Region    | Referen  |  |
| 11             | GURAV SWAPNIL PANDURANG        | Store     | Spec      | Space       | Sma       | good                  | 8000      | 20-2       | Spans     | 5000      | Show   |  |
| 12             | MAHADESHWAR PURVA PANDURANG    | this/4.   | pinoa     | puna        | purva     | bounder               | punion    | ytunia     | func      | bound     |  |  |
| 13             | MAHINDRAKAR CHETAN CHANDRAKANT | driver    | aleter    | Chichon     | Charo     | Chapen                | chefor    | Children   | schelen   | dum       | A CONTRACTOR OF THE PARTY OF TH |  |
| 14             | MANE ADITYA PRASHANT           | Amor      | James     | Davar       | Aman      | genon                 |           | Donoth     | Dogan     | Home      | How  |  |
| 15             | PADVI POOJA VIJAY              | Bby       | PM        | by          | ma        | 061                   | bles      | Abr        | AN        | CON       | C61  |  |
| 16             | PAI DISHANK DINESH             | Dpay      | 260V      | Down        | Doan      | 2100                  | Spai      | Don        | phen      | 26-1      | Dhai   |  |
| 17             | PAL RAHUL SHRIJAI              | ROM       | Rpay      | Ryan        | River     | Ryal                  | Real      | Apa1       | RAW       | and.      | Dir.   |  |
| 18             | REPAL OMKAR SHIRISH            | Mar       | conteax   | conten      | omles     | tomuch c              | omen      | conference | OMEN      | where     | choles   |  |
| 19             | SARVANKAR ANAND DASHARATH      | 500       | 2000      | 8000        | 800       | 100                   | 8000      | 280        | CAGS      | 8800      | 3000   |  |
| 20             | NEDUMATTOM ARUN BABU           | Brus      | Ann       | grown       | 200       | ans                   | Evens     | tom        | Thron     | Fran      | Bois   |  |
| 21             | RANA ABHISHEK MUKESH           | Ranon     | poney     | form        | Ren       | Reno                  | gara      | Rana       |           | ang       | Ran  |  |
| 22             | RANE YASH NILESH               | Viloury   | Vilar     | Vices       | VJCY      | Mor                   | VICAL     | Wilcons    | VITCH     | Vices     | VIERR  |  |
| 23             | RATHOD VIKAS LALJIBHAI         | pu        | Ru        | IRL         | YRW.      | 1RV                   | WE        | Yev        | MW        | (44       | URV  |  |
| 24             | SALVI SHUBHAM SANJAY           | prestuce  | Presh     |             | prem      | Chry                  | forms     | Jarm       | blow      | Preth     | presu  |  |
| 25             | TIRODKAR PRATHMESH GAJANAN     | Town      | town      | Charles     | town      | Teran                 | Moune     | JEX        | Con       | Toran     | Fran   |  |
| 26             | SHARMA VIKAS SOMDUTT           | Aflerd    | Vilcos    | Mpcs        | VIKEN     | Viker                 | Viker     | Viter      | 1/2-      | Vikes     | Star   |  |
| 27             | SHETTY DEVASHISH PRAVIN        | 20m       | Sper      | you         | Som       | your                  | Dev       | Den        | Sien      | goes      | 80KW   |  |
| 28             | SINGH ADITYA SANTOSH           | asingl    | Brugh     | Drug        | Bendy     | And the second second | Bang      | BIM        |           | Drug      | Bongl  |  |
| district Towns | CHAUHAN RAJENDRA SHIVNARAYAN   | Benich    | chagene   | deim        |           | Oberes                |           |            | - Boston  | Berger    | 42   |  |
| The second     | DANDEKAR CHINMAY               | cherry    | donas     | animy       | chure     | ferring               | Chungy    | chisque    | y Ch way  | chan      | x chips  |  |
|                | Name & Sign of Speaker         |           |           | -           | IFM.      | 11 1/10               | W 14      | ILE.       | 15 (1)    | KI TIL    | W (7) M  |  |





# VIVA Institute of Technology

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#### CERTIFICATE OF PARTICIPATION

#### This is to certify that Mr. SWAGAT SHANKAR ATIGRE

attended one-week Program on "Soft Skills" organized by Firsf Year Engineering Department Of VIVA Institute of Technology from 2<sup>nd</sup> Jan to 6<sup>th</sup> Jan 2018.





H.O.D Dr. Ajazul Haque

