



Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology
Approved by AICTE New Delhi, Recognized by DTE, Govt. of Maharashtra
And Affiliated to University of Mumbai
NAAC "B++" Grade

Criteria 1- Curricular Aspects

Key Indicator – 1.1 Curricular Planning and Implementation

**1.1.1 - The institution ensures effective
curriculum delivery through a well
planned and documented process**

Page numbers 1 - 89 are endorsed by Principal



PRINCIPAL

VISHNU WAMAN THAKUR CHARITABLE TRUST'S
VIVA INSTITUTE OF TECHNOLOGY





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ACADEMIC AUDIT REPORT



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Name of the department: **COMPUTER ENGINEERING**

Audit for AY- 2024-2025__

Date: 12/9/2025

Remarks by interdepartmental Audit Committee

Sr. No.	Description	Observations	Remarks						
1.	Attendance	65-70%	Need Improvement						
2	Coverage of syllabus	100%	Records were available						
3	Student feedback	Twice	Records should be maintained along with appreciation letter						
4	Continuous Evaluation	<ul style="list-style-type: none"> Teaching Plan Syllabus coverage report Mentors 	Records were maintained						
5	Quality of Unit test paper	<ul style="list-style-type: none"> All CO'S, PI'S covered Verified by Domain Expert & HOD 	Appropriately done						
6	Analysis of University result <table border="1" style="display: inline-table; margin-left: 20px;"> <tr> <td>78.08</td> <td>86.15</td> <td>100</td> </tr> <tr> <td>80.82</td> <td>95.38</td> <td>100</td> </tr> </table>	78.08	86.15	100	80.82	95.38	100	Excellent Results	Excellent Results
78.08	86.15	100							
80.82	95.38	100							
7	Remedial classes	Remedial classes for IA, University Fail students.	Analysis of remedial lectures done & Records were maintained						
8	Seminars/ guest lecture / Workshops Domain IPR/Soft skill/VCT/other	9	Records were maintained						
9	Industrial Visits	2	More visits can be organized						
10	Value Added Courses	3	Records were maintained						
11	Student counseling	Once in month	Records were maintained						
12	Faculty Development Programs organized		Records were maintained						
13	Infrastructure	Appropriate Infrastructure	Proper maintenance is done on regular basis						





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14	Self-Learning resources	<ul style="list-style-type: none">• Departmental library• Google classroom• Certification course	-
15	Student Participation and achievements Inhouse Other	Out house activity 15 In-house activity 217	Out house activity can be increased
16	Internal Quality Assurance related activities	<ul style="list-style-type: none">• Domain experts• Project• Case study• Flip class	-
17	Placement	10	Serious attention is required
18	Internship	57	Good number but can be improved
19	Student – Teacher Ratio	Odd sem- 18.56 Even sem- 19.03	Records were maintained
20	MoUs	3 active	Try to improve it
21	Faculty Publications Conferences Journals	<ul style="list-style-type: none">• Book chapter -02• Patent – 03• Paper publication- 32	Very good contribution
22	FDP/STTP attended (Outside VIT) ATAL/SWAYAM/NPTEL	<ul style="list-style-type: none">• Outside- 28• Inside- 12	Good numbers
23	SWOC	Strength- mini/major projects, number of IPR'S Weakness- placement, Alumni engagement, lack of resources Opportunities- training and Research Challenges- placements & Faculty retention	Increase the number of alumni engagements, and startup or Entrepreneurship
24	Newsletter/ Magazine	Newsletter 2 per year Magazine 1 per year	Maintained
25	Alumni Engagement	02	Try to increase the numbers





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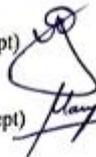
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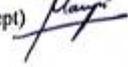
Remarks

1. The academic results are commendable and noteworthy.
2. Faculty efforts in syllabus coverage and continuous evaluation are appreciable, and their active participation in MOOC courses further enhances academic quality.
3. The number of industrial visits should be enhanced to strengthen placement opportunities.
4. Alumni engagement needs to be further increased.
5. Placement performance is currently unsatisfactory and requires urgent improvement measures.
6. The number of active MoUs should be expanded.
7. Student participation and achievements are appreciable.

Auditors name and signature

Dr. Archana Ingle (Vice-Principal and HOD EXTC Dept) 

Prof. Bhushan Save (HOD ECS Dept) 

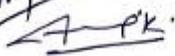
Prof. Manju Mishra (HOD Humanities and Sciences Dept) 

Prof. Chandani Patel (HOD MCA Dept) 

Prof. Pratik Raut (Mechanical Dept) 

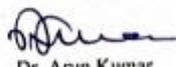
Prof. Minakshi Gaonkar (CSE (AI & ML) Dept) 

Prof. Ramya Raju (CIVIL Dept) 

Prof. Anoj Kumar Yadav (ECS Dept) 


Prof. Karishma Raut
(IQAC coordinator)




Dr. Arun Kumar
Principal

PRINCIPAL

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

Academic Year 2024 - 25

Attendance for Internal Academic Audit

Date:- 12/09/2025

Sr. No.	Name of Auditor	Sign
1.	Kamishna Raut	
2.	Prednya A mhatre	
3.	Meena N. Perla	
4.	Ashay Mishra	
5.	Pratik Raut	
6.	Anojkumar yadav.	
7.	Manju Mishra	
8.	Minakshi Gaonkar	
9.	Bhushan Sau.	





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Sangli - 422002, Virar (E), Maharashtra - 401 305, Phone no 7770011111 Website www.viva-its.in
DEPARTMENT OF COMPUTER ENGINEERING

Academic Year 2024 - 25
Attendance for Internal Academic Audit

Date:- 12/09/2025

Sr. No.	Name of Teaching Staff	Sign
1	Dr. Ashwini Sawle	
2	Sunita Naik	
3	Reshma Chaudhari	
4	Bhavika Thakur	
5	Kirtida Naik	
6	Zoniket M. Kudoo	
7	Hima Kemthekar	
8	ANIKET ELINJE	
9	Akshata Raut	
10	Mitali Chaudigaonkar	





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Shirgaon, Kumbharpada, Virar (E), Taluka-Vasai-401105, Phone no: 773002544 Website: www.viva-technology.org

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DEPARTMENT OF COMPUTER ENGINEERING

Academic Year 2025 – 26
Audit Report for Academic Year 2024 – 25

Name of Auditor: - Dr. Tatwadarshi P. N.

Date: - 15/10/2025

It is based on code of conduct and actions taken in relation to continuous improvement.

Remarks by External Auditor –

1. Student participation and achievement count at national, state, inter and intra-institutional levels are very good.
2. Faculty publication at national and international level is appreciable.
3. Include the exam policy document in the exam file.
4. Attach the university paper solutions in exam file.
5. Maintain one page report for elective subject orientation program.
6. Maintain employer feedback for student internships as per given by AICTE.

Dr. Tatwadarshi P. N.
Associate Professor
HOD, AI & DS, VCET

Dr. Arun Kumar
Principal
VIVA Institute of Technology

Dr. Ashwini Save
HOD, Computer Engg.
VIVA Institute of Technology

Prof. Karishma Raut
IQAC co coordinator
VIVA Institute of Technology





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DEPARTMENT OF COMPUTER ENGINEERING

Academic Year 2025 - 26

Academic Audit (External) of Year 2024 - 25

Date: - 15/10/2025

Name of Auditor: - Dr. Tatwadarsi P. N.

Designation: - Associate Professor and Head of Department of Artificial Intelligence and Data Science

Institute: - Vidyavardhini's College of Engineering and Technology, Vasai

Sr. No.	Name	Sign
1	Dr. Ashwini Save	
2	Prof. Sunita Naik	
3	Prof. Reshma Chaudhari	
4	Prof. Saniket Kudoo	
5	Prof. Bhavika Thakur	
6	Prof. Kirtida Naik	
7	Prof. Akshata Raut	
8	Prof. Hima Kantharia	
9	Prof. Aniket Elinje	— AB —
10	Prof. Mitali Ghadigaonkar	
11	Mr. Dinesh Ugale	— AB —
12	Mrs. Sampda Patil	— AB —
13	Mrs. Vishakha Thakur	— AB —
14	Mr. Mayur Mhatre	
15	Mr. Vishal Gawde	

15/10/25
Name and Sign of Auditor

Dr. Tatwadarsi P.N.





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ACADEMIC CALENDER



Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology
Shriang, Virar (East), Dist. Palghar 401303, Maharashtra Contact No. 9170003441 Website: www.viva-technology.org

NAAC "B++" Grade
AY 2024-25 ODD Semester

Academic Calendar JULY 2024-JANUARY 2025

	MON	TUES	WED	THURS	FRI	SAT	SUN
	JULY						
1st WK	1	2	3	4	5	6	7
	8 Commencement of next Term (SE/TE/BE) HOD Meeting with Principal	9	10	11	12	13	14
2nd WK	15	16	17 Muharram	18	19	20	21
3rd WK	22 Commencement of SY MCA	23	24	25	26	27	28
4th WK	29	30	31	AUGUST			
5th WK	5 Display of 1st Defaulter list	6	7	8	9	10	11
6th WK	12 HOD Meeting with Principal	13	14	15 Independence Day	16	17	18
7th WK	19 DJAC Meeting	20	21	22	23	24	25
8th WK	26	27	28	29	30	31 Parent Teacher Meeting	
	SEPTEMBER						
9th WK	2 HOD Meeting with Principal	3 Display of 2nd Defaulter list	4	5 (Teacher's Day)	6	7 Ganesh Chaturthi	8
10th WK	9	10	11	12	13	14	15 (Engineer's Day)
11th WK	16 Eid-e-Milad	17	18	19	20	21	22
12th WK	23 DJAC Meeting	24	25	26	27	28	29
13th WK	30	OCTOBER					
14th WK	1	2 Mahatma Gandhi Jayanti	3 Display of 3rd Defaulter list (Blood Donation Camp)	4	5	6	
15th WK	7 NCRENB Meeting HOD Meeting with Principal	8	9	10	11	12 Dussehra	13
16th WK	14 DJAC Meeting	15	16	17	18	19	20
17th WK	21	22	23	24	25	26	27
18th WK	28	29	30	31	NOVEMBER		
19th WK	4 NCRENB Meeting HOD Meeting with Principal	5	6	7	8	9	10
20th WK	11 Commencement of Theory Examination (SEM III, V and VII)	12	13	14	15 Guru Nanak Jayanti	16	17
21st WK	18	19	20	21	22	23	24
22nd WK	25	26	27	28	29	30	
23rd WK	2	3	4	5	6	7	8
24th WK	9	10	11	12	13	14	15
25th WK	16	17 Commencement of Theory Examination (FE & ME)	18	19	20	21	22
26th WK	23	24	25 Christmas Day	26	27	28	29
27th WK	30	31	JANUARY				
			1	2	3	4	5
				Commencement of Theory Examination FY MCA			
27th WK	6 Commencement of next Term HOD Meeting with Principal	7	8	9	10	11	12





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Al. Shrigaon, Post. Virar, Tal. Virar, Dist. Palghar - 401305 - Tel: 7708825441 Website: www.viva-technology.org
Department of Mechanical Engineering

Academic Year 2024-25
Academic Calendar July 2024 to Dec 2024

Week	MON	TUE	WED	THU	FRI	SAT	SUN
JULY							
1	1	2	3	4	5	6	7
2	8 Commencement of SE, TE, BE	9	10	11	12	13	14
3	15	16	17 Muharram	18	19	20	21
4	22	23	24	25	26	27	28
5	29	30 Finalised project group	31				
AUGUST							
				1	2	3	4
6	5 Display of 1st Defaulter list	6	7	8 Project topic selection & Presentation	9	10	11
7	12	13	14	15 Independence Day	16 Final Topic Selection	17	18
8	19	20	21	22	23	24	25
			IA 1 (for SE/TE/BE) & Student's Feedback 1				
9	26	27	28	29	30	31 Parents Teacher Meeting	
SEPTEMBER							
							1
10	2	3 Display of 2nd Defaulter list	4	5 Teacher's Day	6	7 Ganesh Chaturthi	8 Mid term break
11	9	10	11	12	13	14	15 Engineer's Day
Mid term break							
12	16 Eid-e-Milad	17	18	19	20	21	22
13	23 Synopsis Review 1	24	25	26 Synopsis Review 2	27	28	29
14	30 Synopsis Review 3						





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Al. Shergaon, Post. Virar, Tal. Virar, Dist. Palghar - 401305 Tel: 770002541 Website: www.viva-technology.org

Department of Mechanical Engineering

Academic Year 2024-25
Academic Calendar July 2024 to Dec 2024

Week	MON	TUE	WED	THU	FRI	SAT	SUN
OCTOBER							
14		1	2 Mahatma Gandhi Jayanti	3 Synopsis Presentation	4 Display of 3rd Defaulter list	5	6
15	7 Synopsis Submission	8	9	10	11	12 Dassera	13
16	14 IA 2(for SE/TE/BE) & Student's feedback II	15	16	17 Submissions	18 Term End	19	20
17	21	22	23	24	25	26	27
Oral / Practical Examinatin							
18	28	29	30	31			
Oral / Practical Examinatin							
NOVEMBER							
19	4	5	6	7	8	9 Laxmi pujan Diwali	10
20	11 Commencement of Theory Examination (SEM III, V and VIII)	12	13	14	15 Guru Nanak Jayanti	16	17
21	18	19	20	21	22	23	24
22	25	26	27	28	29	30	
DECEMBER							
23	2	3	4	5	6	7	8
Commencement of Theory Examination (SEM II, IV, VI, VIII)							
24	9	10	11	12	13	14	15
25	16	17	18	19	20	21	22
26	23	24	25 Christmas Day	26	27	28	29
27	30	31					
JANUARY							
28	6 Commencement of next Term	7	8	9	10	11	12





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At: Shergaon, Post: Virar, Tal: Versal, Dist: Palghar - 401305. Tel: 7700025411 Website: www.viva-institute.org
Department of Mechanical Engineering

Academic Year 2024-25
Academic Calendar July 2024 to Dec 2024

Event Name	Duration
Department External Academic Audit	During March 2024 -April 2024
Defaulter list to be displayed	On 3rd day of every month
Declaration of result of IA- I	Within one week after UT exam
Remedial Lectures to be arranged as per requirement	IA 1- Three weeks after result IA 2- Two weeks after result
One Week Faculty Development Program	During May 2024 to June 2024
Guest lecture/ Workshop/ Seminars to be arranged	During Jan 2024 to April 2024(as per availability of experts.)
Maintenance work in all laboratories / workshop	On daily basis
Departmental Meeting	At least one in a month
Industrial Visit	During Feb 2024 - April 2024 (As per availability of industry)

Academic Calender
Incharge

HOD
Mechanical Engg Dept.





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OPERATORS: AICTE, NEW DELHI, DTE, GOVT. OF MAHARASHTRA AND AFFILIATED TO THE UNIVERSITY OF MUMBAI
At Shriangar Post-Virar, Tal. Virar West, Palghar - 401 305, Dist. Palghar, Maharashtra. Website: www.viva.edu.in
 Department of Mechanical Engineering

Academic Year 2024-25
 Academic Calendar Jan 2025 to May 2025

Week	MON	TUE	WED	THU	FRI	SAT	SUN
JANUARY							
1			1	2	3	4	5
2	6	7	8	9	10	11	12
Commencement of SEM IV, VI, VIII	Commencement of SEM II	HITAISHI					
3	13	14	15	16	17	18	19
HITAISHI (Cultural & Sports Week)							
4	20	21	22	23	24	25	26
							Republic Day
5	27	28	29	30	31		
FEBRUARY							
6	3	4	5	6	7	8	9
7	10	11	12	13	14	15	16
8	17	18	19	20	21	22	23
			Chhatrapati Shivaji Maharaj Jayanti				
9	24	25	26	27	28		
			Mahashivratri				
MARCH							
10	3	4	5	6	7	8	9
IA 1 And Student's First Academic Feedback				NCRENB 2025			
11	10	11	12	13	14	15	16
					Dhulivandan		
12	17	18	19	20	21	22	23
13	24	25	26	27	28	29	30
							Gudhi Padwa
14	31						
Ramzan Eid							





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At: Shrigaon, Post: Virar, Tal.: Virar, Dist.: Palghar - 401305. Tel: 771990548. Website: www.viva-technology.org

Department of Mechanical Engineering

Academic Year 2024-25

Academic Calendar Jan 2025 to May 2025

Week	MON	TUE	WED	THU	FRI	SAT	SUN
14	APRIL						
		1	2	3	4	5	6
15	7	8	9	10	11	12	13
	Mahavir Jayanti				IA2		
16	14	15	16	17	18	19	20
	Dr. Babasaheb Ambedkar Jayanti	IA2 & 2nd Academic feedback		Term End	Good Friday		
17	21	22	23	24	25	26	27
	OR/PR exam						
18	28	29	30				
	OR/PR exam						
19	MAY						
				1	2	3	4
20	5	6	7	8	9	10	11
				Maharashtra Day			
21	12	13	14	15	16	17	18
	Buddha purnima	Commencement of Theory Examination (II/IV/VI/VIII)					
22	19	20	21	22	23	24	25
	26	27	28	29	30	31	
23	JUNE						
							1
24	2	3	4	5	6	7	8
	Commencement of Theory Examination (I/III/V/VII)					Bakri Eid	
25		10	11	12	13	14	15
	16	17	18	19	20	21	22
26	23	24	25	26	27	28	29
	30						
27							





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 NAAC ACCREDITED WITH B++ GRADE
 DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2024-25

Academic Calendar Jan 2025 to May 2025

Event Name	Duration
Department External Academic Audit	During April 2025
Defaulter list to be displayed	On 3rd day of every month
Declaration of result of IA- I and IA-II	Within one week after IAT exam
Remedial Lectures to be arranged as per requirement	IA 1- Three weeks after result IA 2- Two weeks after result
One Week Faculty Development Program	During May 2025 to June 2025
Guest lecture/ Workshop/ Seminars to be arranged	During Jan 2025 to April 2025(as per availability of experts.)
Maintenance work in all laboratories / workshop	On daily basis
Departmental Meeting	At least one in a month
Industrial Visit	During Feb 2025 - March 2025 (As per availability of industry)


 Academic Calendar Incharge
 Dept. of Mech Engg.


 HOD
 Dept. of Mech Engg.





DEPARTMENT ADVISORY BOARD_MINUTES OF MEETING

Academic Year 2024-25

The Departmental Advisory Board meeting for the department of computer engg. was held on 1st Feb 2025 in an online mode.

The agenda for this meeting was,

- 1) Review of suggestions from previous year's (2023-24) meeting.
- 2) Execution of previous year 2023-24.
- 3) Planning for the upcoming year.
- 4) Implementation of the National Education Policy (NEP).

Following members were present,

- 1) Shree. Sanjeev Patil (Management)
- 2) Dr. Arun Kumar (Principal) ~~Prin~~
- 3) Prof. Sunita Naik (HOD)
- 4) Reshma Chaudhari (Co-ordinator)
- 5) Kirtida Naik (Project Head)
- 6) Akshata Raut (CSI Head)
- 7) Bhavika Thakur (TPO co-ordinator)
- 8) Ameja Raut (Industry Expert)
- 9) Yadrish Zagade (Industry Expert)
- 10) Sahil Manjarekar (Student)
- 11) Vandan Tambe (Student)
- 12) Harshal Patil (Alumni)
- 13) Nikita Shinde (Alumni)
- 14) Vaishali Tambe (Parent)
- 15) Sachin Manjarekar (Parent)

Following points were discussed in the meeting.

- 1) The meeting started with a welcome address by Mrs. Reshma Chaudhari, co-ordinator of DAB extending warm welcome to departmental advisory board members.





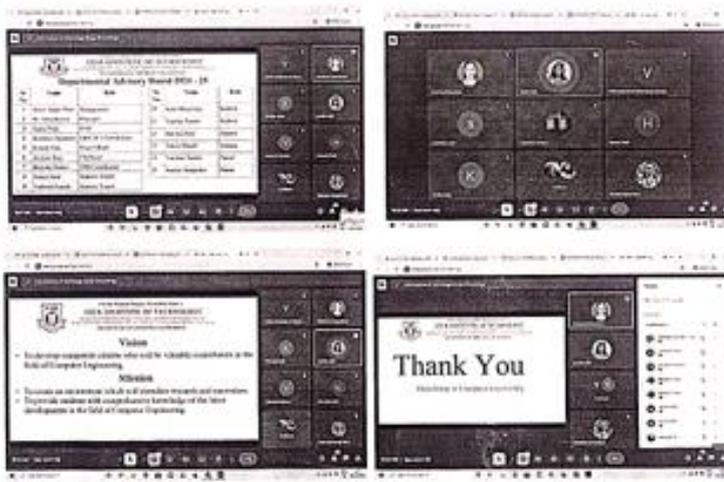
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9) Mr. Yadnesh Zagade, industry expert, suggested that in student projects the problem statements can be obtained from industry experts in the early stages of the review helps to improve the quality of projects.

10) The meeting was closed by extending heartfelt thanks by Mrs. Reshma Chaudhari for the valuable suggestions shared by each member toward the progress of the department.



Reshma
HOD
Computer Engg.

Dr. Anur Kumar
Dr. Anur Kumar
Principal





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VIVA-VIT/Elect/ 75 /2024-25

Date: 25/03/2025

NOTICE

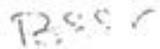
All the members of the Department Advisory Board (DAB) of the Electrical Department, VIVA Institute of Technology, are hereby requested to attend the DAB meeting will be conducted on 4th April 2025 in online mode (Google Meet) at 02.30 PM. All are requested to be present on time. To join the video meeting, click this link:

<https://meet.google.com/agy-vidh-buz>

Otherwise, to join by phone, dial +1 224-900-6794 and enter this PIN: 887 999 397#

Agenda:

- Review minutes of the previous Departmental Advisory Committee (DAC) meeting.
- Discussion on curriculum and syllabus to analyze and evaluate the program level gaps.
- To identify and suggest thrust areas to conduct various activities.
- Brainstorming on revision of Vision, Mission, PEO and PSO for Electrical and Computer Engineering.


H. O. D.
Electrical Department

CC to Committee Members,

Mr. Sanjeev Patil, Management member
Dr. Arun Kumar, Principal
Mr. Omkar Devrukhkar, Industrial Person
Mr. Rohit Kambli, Industrial Person
Prof. Ganesh Mhatre, Academician, NHITM
Mr. Vijay Kargutkar, Parent
Dr. Deepak Srinekar, Associate Professor

Prof. Bhushan Save, Associate Professor
Prof. Anojkumar Yadav, Assistant Professor
Mr. Urval Chotaliya, Alumni,
Prof. Rahul Abhyankar, Alumni
Mr. Shashank Waghela, Student, TE Electrical
Mr. Nandkishor Gupta, Student, TE Electrical





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Advisory board meeting for the development of Electrical Engineering was held on 4th April 2025 in online mode (google-meet) at 02:30 pm.

Agenda:-

Review minutes of the previous departmental advisory committee (DAC) meeting.

Discussion on curriculum and syllabus to analyze and evaluate the program level gaps.

To identify and suggest thrust area to conduct various activities.

Brainstorming on revision of Vision, Mission, PEO and PSO for Electrical and computer Engineering.

The following members were present in the online meeting:-

i) Mr. Sanjeev Patil.	online
ii) Dr. Arunkumar.	Online
iii) Mr. Omkar Devrukhkar.	Online
iv) Mr. Rohit Kamble.	Online
v) Prof. Ganesh Mhatre.	Online
vi) Mr. Vijay Kargutkar.	Online
vii) Dr. Deepak Sajnekar.	
viii) Prof. Bhushan Save.	
ix) Prof. Anojkumar yadav.	
x) Mr. Urval Chotaliya.	Online
xi) Prof. Rahul Abhyankar.	Online
xii) Mr. Shashank Waghela.	Online
xiii) Mr. Nandakishor Gupta.	Online.





Minutes of meeting.

The meeting commenced at 2:30pm with a welcome address by Prof. Bhushan Sare, HOD of Electrical Engineering. All present members were thanked for their presence and contribution in the previous meeting held on 2nd Mar 24.

The minutes of previous Department Advisory Committee (DAC) meeting reviewed and agreed by everyone in the meeting.

The members analyzed current curriculum components to identify any existing program level gaps.

It was noted that aligning curriculum with evolving industry trends are essential. Suggestions were made to strengthen interdisciplinary topics and incorporate emerging technologies, i.e. Internet of Things (IOT) & Embedded S/m, Energy management & sustainability, Smart grid Technologies, Renewable Energy System, Smart Sensors.

Members collectively suggested focusing on project based learning and sustainability. Ideas for organizing workshop and Guest lecture were discussed to enhance student engagement. Hands-on Arduino and IOT for Beginners, Industrial Automation, Renewable Energy S/m, Trends in Electric Vehicle Technology, Energy Auditing and management.





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- The draft document of Vision, Mission, PEO & PSO for E&C Engineering based on faculty suggestions was presented for review and discussion.
- The constructive feedback was shared for refining the vision, Mission, PEO & PSO. The proposed statement emphasized quality education, ethical values, professional readiness and lifelong learning.
- Members agreed to finalize the updated version after incorporating final suggestions.
- Members appreciated the structured discussion and reaffirmed their commitment to guiding the department's growth.
- The meeting concluded with gratitude to all attendees for their active participation.





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INDUCTION PROGRAM REPORT



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A Report

On

**INDUCTION/ORIENTATION
PROGRAMME**

For

**FIRST-YEAR ENGINEERING
STUDENTS**

(A.Y 2024-2025)





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First-Year Students Induction Program

ABOUT INSTITUTE:

VIVA Institute of Technology (Approved by AICTE, New Delhi, DTE, Govt. of Maharashtra and Affiliated to the University of Mumbai) was established in the year 2009 under the aegis of Late Shri Vishnu Waman Thakur Charitable Trust with the aim of imparting higher education in Science and Technology to the aspiring young generations so that they can emerge as competent scientists, engineers, and technologists of repute.

ABOUT INDUCTION PROGRAMME:

The VIVA Institute of Technology in Virar held a comprehensive induction program for the newly enrolled First Year Engineering students for the academic year 2024-2025, taking place within the institute's premises. This initiative aimed to familiarize students with the academic framework of their chosen course, outline the institute's rules and regulations, and present an overview of the vast field of engineering along with its numerous career pathways.

The program was thoughtfully crafted to ease the transition for these new students, helping them adjust from the familiar environment of school to the rigorous demands of engineering studies. By fostering an atmosphere that encourages diverse thinking and adaptation to new challenges, the induction program also emphasizes the importance of the institution's ethical standards, instilling in students a sense of responsibility and commitment to their academic journey.





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KEY HIGHLIGHTS OF THE INDUCTION PROGRAM:

• ORIENTATION PROGRAMME

The Induction program started with the orientation program on 13th September 2024. The aim of the program was to introduce the parents and students introduction of the college and to make them aware of the academic aspects of the course, the rules and regulations of the Institute as well as ensure parental participation in monitoring the performance and progress of the students.

The program was inaugurated with the lighting of the lamp by the principal, Dr. Arun Kumar, and other dignitaries. The Principal, while delivering the inaugural speech, emphasized the prime importance of core values mainly dedication, discipline, etc. He stated the importance of utilizing the knowledge of engineering in its application for the betterment of society.

In a brief address to the students and parents, the HOD of Humanities and Applied Sciences, Mrs Manju Mishra, congratulated students for joining the VIVA family by selecting the VIVA Institute of Technology. The HODs of different departments briefed the students about departmental facilities, activities, and achievements and requested that the students and parents understand and abide by the institutional code of conduct.

The heads of all departments delivered a presentation during the orientation day for first-year engineering students, showcasing their respective departments' achievements and introducing the newcomers to the various fields of study available to them.

On orientation day, a momentous occasion unfolded as the top three students of the academic year 2023-2024 were recognized for their exceptional achievements. Each of these outstanding individuals was awarded a medal and a certificate, symbolizing their hard work and dedication. The ceremony not only celebrated their academic excellence but also inspired fellow students to strive for greatness in their own educational journeys.





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• MENTORING

The students were divided into groups of ten, department wise and they were warmly welcomed by their respective mentors. Each group is headed by one student in the third year of engineering in the respective department. One faculty member is assigned as a mentor for the group of 20 students. Then mentors explained the necessity of mentoring and the roles and responsibilities of both mentors and mentees.

• DIAGNOSTIC TEST

A diagnostic test was conducted to check the basic knowledge of students in English, Mathematics, and Computer Proficiency. The test comprises 25 MCQs for 25 Marks to assess the student's proficiency in the respective subjects.





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• FAMILIARIZATION OF DEPARTMENT AND INSTITUTE

The heads of all Departments briefed students about the infrastructure and various facilities available at the departments. The mentors toured the students for their specific departmental visit, as well as the library, canteen, gymkhana, and other available institute amenities, to familiarize them with the institute as a whole.





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• UNIVERSAL HUMAN VALUE SESSION

The need for value education and its process has gained the utmost importance in today's era. The Universal Human Values session was conducted for the holistic development of the students and to encourage them to be good human beings for the betterment of society and the universe as a whole. Through this session, they could be able to understand the process of Self Exploration with basic human life aspirations. It was for the purpose of familiarizing participants with Human Values and Professional Ethics and to generate interest in value-based living.

• PROFICIENCY MODULES

Based on the diagnostic test, weak students were found and for them, proficiency sessions were organized. The college implemented various Modules for the enhancement of the proficiency of the students in various subjects like English, Mathematics, and computers.

During these sessions, various experts and experienced faculties conducted crash courses on particular subjects. English crash course was conducted by Dr. Trupti Patil and Dr. Prashant Pawar. The mathematics course was held by Prof. Jaysesh Jain Prof. Shiksha Singh and Prof. Bhavika Thakur for Computer. Besides expertise sessions, students were also provided with YouTube link to various proficiency-related videos to further expand their knowledge.

• PHYSICAL ACTIVITY- SPORTS

The sessions, which were devoted to physical activities, were divided into two segments. In the first part, Indoor Sports competitions like chess, carom, and badminton were held. In the second part, Outdoor sports competitions were held like cricket, football, volleyball, kabaddi, and kho-kho, for the development of a sense of responsibility and team building.





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• YOGA SESSIONS

Yoga is an invaluable gift of India's tradition. Regular practice of yoga helps an individual achieve self-control for a better life, physically, mentally, and spiritually. A Yoga session was carried out for the first-year engineering students on all induction days. Warm-up exercises were performed. The students were shown various asanas, followed by Omkar chanting. Along with this, students were also provided with YouTube links to various yoga-related videos.





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- **CREATIVE ARTS, CULTURAL AND LITERARY ACTIVITY**

The College performed various artistic, cultural and literary activities like painting, collage, sketching, dance, essay writing, Storytelling, group discussions, debating and enacting a play were conducted to develop the social and interpersonal skills of the students. Further, the YouTube link to various videos related to art, cultural, and literary activities were given to students.

The modules or topics that were covered through YouTube videos or demo videos were later included in the student's regular timetable, where every week one hour was specially devoted to enhancing and practicing the skills.

At the end of the Induction program, all the first-year engineering students were asked to provide 360° feedback on the induction program and submit it to their assigned mentors.





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Department of Humanities and Applied Sciences
EE ORIENTATION PROGRAM 2024-25
ATTENDANCE SHEET

DATE: 13/09/2024

SR.NO	NAME OF STUDENT	BRANCH	SIGN
1	Avesare Anshika Dinesh	EXTC	Anshika
2	Grupha Anjana Ramesh	Mechanical	Anjana
3	Fulmali Anshu Omprakash	EXTC	Anshu
4	Yadav Anjali Shivaji	EXTC	Anjali
5	Manjya Anshika Ashok	AIML	Anshika
6	Shetty Vidhi Jayaprakash	AIML	Vidhi
7	Deshmukh Anshu Vijay	AIML	Anshu
8	Patil Purva Mahesh	AIML	Purva
9	Patil Harshali Santosh	AIML	Harshali
10	Patil Vaishnavi Samir	AIML	Vaishnavi
11	Patil Sneha Ramesh	AIML	Sneha
12	Yadav Anjali Suresh	AIML	Anjali
13	Yadav Anjali Rajnarayan	Elect Comp	Anjali
14	Dejankar Anshu Anil	EXTC	Anshu
15	Kode Anjali Umesh	AIML	Anjali
16	Shah Anjali Alpesh	AIML	Anjali
17	Patil Anjali Nareesh	Computer	Anjali
18	Yadav Anshu Anil	Computer	Anshu
19	Prayag Anshu Anil	(SE)(AIML)	Anshu
20	Bhat Anshu Anil	(SE)(AIML)	Anshu
21	Shinde Anshu Anil	(SE)(AIML)	Anshu
22	Tiwari Anshu Anil	Elect Comp	Anshu
23	Vishwakarma Anshu Anil	Elect Comp	Anshu
24	Yadav Anshu Anil	AIML	Anshu
25	Kundekar Anshu Anil	AIML	Anshu





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Department of Humanities and Applied Sciences

E.E ORIENTATION PROGRAM 2024-25

ATTENDANCE SHEET

AVT/18/21

DATE:

SR.NO	NAME OF STUDENT	BRANCH	SIGN
26	Koktkar Suman Vishwas	AJML	Suman
27	Jatin Kumar	AJML	Jatin
28	Gode Jatin Shashikant	AJML	Jatin
29	Vishwantra Manjya	AJML	Vishwantra
30	Mishra Om Ashwini	Computer	Om
31	Mandave Gaurav Ravindra	Computer	G. Mandave
32	Janak shashikant veni	ECE	J
33	Nikhil Umesh Mohale	ECE	N.U. Mohale
34	Yogesh Ashok Sonawane	EXTC	Yogesh
35	Aanya Akashdeep Shivede	Computer	Aanya
36	Gupta Aditya Santosh	Computer	Aditya
37	Hansik Namdeo Bhargava	AJML	Hansik
38	Hatibrik Roshan Muta	AJML	Hatibrik
39	Chaitanya Sambhaji Patil	EXTC	Chaitanya
40	Milind Nareesh Patel	ECE	Milind
41	Mithilesh Ramesh Vedav	EXTC	Mithilesh
42	Aarom Nitin Patil	EXTC	Aarom
43	Soham Vishwas Patil	Mechanical	Soham
44	Paath Vijay Jayant	Computer	Paath
45	Pal Akash Ajit	Mechanical	Pal
46	Vikesh Mahesha Anchan	Mechanical	Vikesh
47			
48			
49			
50			





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E.E ORIENTATION PROGRAM 2024-25

ATTENDANCE SHEET

DATE: 13/09/2024

SR.NO	NAME OF STUDENT	BRANCH	SIGN
26	Ninad Dhavne	AIIML	(Signature)
27	Sumedh Sande	CMil	(Signature)
28	Om Kadam	Elec & Comp	om k
29	Sharad Vishwakarma	Civil	Sharad
30	Aayushi Jha	Elec & Com	Aayushi
31	Waseem Akhtar	Elec & Comp	Waseem
32	Nikhil Baburde	EXTC	Nikhil
33	Sayan S. Das	EXTC	Sayan D
34	Mayur R. Dhundale	AIIML	M Dhundale
35	Manthuring Y. Rajput	AIIML	Manthuring
36	Harsh Jyoti Sarab	AIIML	Harsh
37	Ashwini	AI/ML	(Signature)
38	Patel Himik. M.	AIIML	Himik
39	Kheswant Singh Khatodia	AI/ML	(Signature)
40	Sheetal Dip. Mandape	Elec & Comp	Sheetal
41	Yash Shubham Kamble	AIIML	(Signature)
42	MOHD SHAJID ANSARI	AIIML	(Signature)
43	Ashya Virend. Yadav	AIIML	Ashya
44	Parth P. Vaitly	Civil	Parth
45	Shivkumar Balaji Sasik	Elec & Comp	Sasik
46	Taiba Khan	Elec & Comp	Taiba
47	Piyush Pankaj Gokhale	CS(AIML)	(Signature)
48	Mouya Pratik	CS(AIML)	Pratik
49	Saimya Nayak	CS(AIML)	Saimya
50	Shubham Magaveera	CS(AIML)	(Signature)
51	Syed Gulrez	CS(AIML)	(Signature)
52	Sourav Singh	CSE(AIML)	Sourav
53	Sujal Bhagat	CSE(AIML)	Sujal
54	Harsh M. Yadav	CSE(AIML)	Harsh
55	Mansi Meet Hemnanda	CSE(AIML)	Mansi





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Department of Humanities and Applied Sciences

EE ORIENTATION PROGRAM 2024-25

ATTENDANCE SHEET

61. Ghadi Rutuja Anil Comp DATE: 6/10/24
62. Rane Bharti Anil Comp 6/10/24
63. M356L PRATEEBA ANKUSH Comp 6/10/24

SR.NO	NAME OF STUDENT	BRANCH	SIGN
1	Kasar Yash Santosh	Extc	[Signature]
2	Mohite Pratik Deepak	Mechanical	[Signature]
3	Somasara Mahanand Umesh Prasad	Mechanical	[Signature]
4	Ankush Mohit chandra Pad	Extc	[Signature]
5	Pharad Anit Santosh	Extc	[Signature]
6	Aldar Sopan Sakshi	Extc	[Signature]
7	Gupta Sagar Jitendra Sujal	computer	[Signature]
8	Jatin Umesh Kish	Extc & Comp	[Signature]
9	Vadant Gopantosh Pawande	Elect Comp	[Signature]
10	Atharva S. Sakshi	Elect & comp	[Signature]
11	Rohem M. Warang	EXTC	[Signature]
12	Luv R. Gawade	AIML	[Signature]
13	Nishant Bhise	Computer	[Signature]
14	Kund Sachin Khe	EXTC	[Signature]
15	Ayush Mishra	AIML	[Signature]
16	Tanishy Kamlesh Trivedi	AIML	[Signature]
17	Chaitanish Adilak Tiwari	AIML	[Signature]
18	Sankant RAO	AIML	[Signature]
19	Mihir Nambiar	AIML	[Signature]
20	Shaikh Farhat	AIML	[Signature]
21	Shaikh Radha	AIML	[Signature]
22	Rai Kashish	Elect & Com	[Signature]
23	Mone Kritika	Elect Comp	[Signature]
24	Bam chandhary	AI/ML	[Signature]
25	Sachin Patel	Elect & Comp	[Signature]
56	Shrutu Prawn Tamle	Elect comp	[Signature]
57	Chandan Hariom Saini	AIML	[Signature]
58	Singh Aditya Ruysh	AIML	[Signature]
59	Raghunandhi Pawan Narayansingh	AIML	[Signature]
60	Sneha Ghanshyam Dubey	Comp	[Signature]





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F.E. ORIENTATION PROGRAM 2024-25

ATTENDANCE SHEET

DATE: 13/09/2024

SR.NO	NAME OF STUDENT	BRANCH	SIGN
26	Bairagi Shukham Debashish	AIML	<i>Bairagi</i>
27	Shingade Sanish Shankar	AIML	<i>Sanish</i>
28	Shivgan Tejas Pradeep	computers	<i>Shivgan</i>
29	Singh YASH ASHISH	elec & comp	<i>Yash</i>
30	Singh Satyam Titendra prasad	elec & comp	<i>Satyam</i>
31	Waghule Yuvraj Pravin	AIML	<i>Waghule</i>
32	Jha Ayush Navin	AIML	<i>Jha</i>
33	Keni Vedant Sunil	EXTC	<i>Keni</i>
34	Prasad Shantanu		
35	Mare Prasad Sheshiswar	mechanical	<i>Mare</i>
36	Kipri KRISH PRANIN	EXTC	<i>Kipri</i>
37	Sule Sahil Vishwambhar	mechanical	<i>Sule</i>
38	Manohar ^{Thakur} Manohar Pravin	mechanical	<i>Manohar</i>
39	Chavan Sahil Anil	Mechanical	<i>Sahil</i>
40	Vyomesh R. Shetty	Elec & comp	<i>Vyomesh</i>
41	Dubey S. Sidhant Vijay	Electronics	<i>S. Sidhant</i>
42	Tiwari Shivang Sunil	Elec & comp	<i>Shivang</i>
43	Md Anwar Alam	AIML	<i>Alam</i>
44	PRAJAPATI LAKESH VEKRAM	AIML	<i>Lakesh</i>
45	BARUA SAGAR GOKUL	AIML	<i>Sagar</i>
46	Bhupendra Sunil Upadhyay	AIML	<i>Bhupendra</i>
47			
48			
49			
50			

TIME TABLE





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VIVA INSTITUTE OF TECHNOLOGY

Address: At. Shirgaon, Veer savarkar road, Virar (E)

Tal. Palghar, Dist-Palghar, Maharashtra

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F.Y.MCA (SEMESTER-1)
A.Y. 2024-25

w.e.f.: 13/09/2024

TIME TABLE

Class	8:45 To 9:45	9:45 To 10:45	10:45 To 11:00	11:00 To 12:00	12:00 To 1:00	1:00 To 1:30	1:30 To 2:30	2:30 To 3:30	3:30 To 4:30
FYMCA (SEM-1)									
Monday	DS(BC)	JP(BC)	B R E A K	B1- DS LAB B2- AJAVA LAB		B R E A K	ELECTIVE- 1	B1- ADBMS LAB B2- WT Lab	
	MINI PROJECT								
Tuesday	CN(BC)	JP(BC)		B1-AJAVA LAB B2 - ADBMS LAB			AJAVA	SPM	MFCS
Wednesday	B1- WT Lab B2- WT Lab			MFCS	SPM		AJAVA	ADBMS	ELECTIVE- 1
Thursday	CN(BC)	ELECTIVE- 1		AJAVA	ADBMS		MFCS	B1- WT LAB B2- DS LAB	
Friday	SPM	ELECTIVE- 1		ADBMS	MFCS		B1- DS LAB B2- DS LAB		DS(BC)/ Mentoring
Saturday	CN(BC)	DS(BC)		JP(BC)					

P.Mhatre
Prof. Pradnya Mhatre
(Timetable Incharge)

Patel
Prof. Chandani Patel
(HOD)

Dr. Arun Kumar
12.9.2024
Dr. Arun Kumar
(Principal)





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S.Y.MCA (SEMESTER-3)
A.Y. 2024-25

w.e.f.: 15/07/2024

TIME TABLE

Class	8:45 To 9:45	9:45 To 10:45	10:45 To 11:00	11:00 To 12:00	12:00 To 1:00	1:00 To 1:30	1:30 To 2:30	2:30 To 3:30
SYMCA (SEM-3)								
Monday	BLOCKCHAIN B1 BDAV-B2		B R E A K	DSCC	BDAV	B R E A K	BLOCKCHAIN	Mentoring
Tuesday	DSCC-B1 MC-B2			CSDf	DSCC		MC- B1 STQA-B2	
Wednesday	CSDf	BLOCKCHAIN		BDAV-B1 BLOCKCHAIN B2			DSCC	MOOC
Thursday	MC-B1 DSCC-B2			BDAV	BLOCKCHAIN		CSDf	ISR
Friday	STQA-B1 MC-B2			CSDf	BDAV		MINI PROJECT 2A	

Pamhali
10/07/2024
Prof. Pradnya Mhatre
(Timetable Incharge)

for
Dr. Arun
10/07/2024
Prof. Chandani Patel
(HOD)

Dr. Arun
10.7.2024
Dr. Arun Kumar
(Principal)





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F.Y.MCA (SEMESTER-2)

A.Y. 2024-25

w.e.f. : 13/01/2025

TIME-TABLE

Class	8:45 To 9:45	9:45 To 10:45	10:45 To 11:00	11:00 To 12:00	12:00 To 1:00	1:00 To 1:30	1:30 To 2:30	2:30 To 3:30	3:30 To 4:30	
Monday	AIML LAB B1 NW LAB B2		B R E A K	IoT	CS	B R E A K	RM	DO LAB B1 AWT LAB B2		
Tuesday	CS	IS		AIML	RM		UI LAB B1 DO LAB B2		OS (BC) / Mentoring / Mini Project	
Wednesday	AWT LAB B1 AIML LAB B2			RM	IS		AIML	IOT LAB B1 AWT LAB B2		
Thursday	DM(BC) / Mini Project	CS		IoT	RM		IS	NW LAB B1 IoT LAB B2		
Friday	AWT LAB B1 UI LAB B2			AIML	IoT		CS	SSD LAB B1 & B2		
Saturday (First Saturday)	DM (BC)	DM (BC)		OS (BC)	OS(BC)		MINI PROJECT			

PAM/ndk
11/01/2025

Prof. Pradnya Mhatre
(Time-table In-charge)

Patel
11/12/25

Prof. Chandani Patel
(HOD)

Dr. Arun Kumar
11-1-2025

Dr. Arun Kumar
(Principal)





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COURSE FILE

Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology
At. Shirgaon, Veer Sawarkar Road, Virar(East), Taluka-Vasai, Palghar District – 401305



Department of Electrical Engineering
COURSE FILE
ACADEMIC YEAR :- 2024-25

NAME OF SUBJECT INCHARGE: Prof. Reema Gupta

CLASS: BE
SEMESTER: VII
SUBJECT: ED&C
SUB CODE: EEC702





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Telephone: 7770002544, Website- www.viva-technology.org

Department of Electrical Engineering

COURSE BOOKLET

SUBJECT: ED&C

Page no.

SR.NO.	CONTENT	PAGE NO
1	Vision, Mission, PEO's, PSO's, PO's ✓	1
2	Academic Calender ✓	2
3	Subject Timetable ✓	3
4	Syllabus of Subject ✓	4
5	Course Outcome and CO Mapping with PO's and PSO's ✓	5
6	Teaching Plan ✓	6
7	Student Attendance ✓	7-11
8	Lecture Report ✓	12
9	Internal Assessment Question Paper ✓	13-14
10	Internal Assessment Attendance sheet (Exam Print) ✓	15-18
11	Internal Assessment Record ✓	19
12	Internal Assessment Question Paper Mapping & Analysis ✓	20
13	University Question Paper Mapping & Analysis	
14	Course Summary	





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Telephone: 7770002544, Website- www.viva-technology.org

Department of Electrical Engineering

VISION

To aspire for excellence in imparting quality education in the field of Electrical Engineering with an eagerness of developing a professional mindset along with good human values.

MISSION

- To maintain a benchmark in quality of educational standards in the field of Electrical Engineering.
- To provide a platform for exploring a professional mindset.
- To promote ethical practices for developing good human values.

Programme Educational Objectives (PEOs)

- To provide students with the knowledge of basic sciences and social sciences in general and Electrical engineering in particular, so as to impart the necessary skills to analyze and synthesize electrical circuits, algorithms and complex apparatus.
- To inculcate in students Professional attitude, effective communication skills and capability to succeed in multi-disciplinary and diverse fields.
- To provide technical knowledge, skills and competence to identify, comprehend and solve problems in industry, research and academics related to power, information and hardware.
- To prepare and inspire the students to become future researchers/scientists with innovative ideas for a sustainable development.

Programme Specific Outcomes (PSOs)

- The ability to analyze, design and simulate electrical system and implement them in various application.
- The ability to apply engineering knowledge, technical skill and solution of complex problem in various field of electrical engineering.





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Department of Electrical Engineering

PROGRAM OUTCOMES

• **PO1: Engineering Knowledge:**

Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems

• **PO2: Problem Analysis:**

Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

• **PO3: Design & Development of Solutions:**

Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

• **PO4: Conduct Investigation of Complex Problems:**

Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.

• **PO5 Modern Tools Usage:**

Create, select and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

• **PO6: The Engineer and Society:**

Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

• **PO7: Environment & Sustainability:**

understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

• **PO8: Ethics:**

Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

• **PO9: Individual & Team work:**

Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.

• **PO10: Communication:**

Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

• **PO11: Project management & Finance:**

Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

• **PO12: Life-long Learning:**

Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.





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Telephone: 7770002544, Website: www.viva-technology.org



Department of Electrical Engineering ED&C SUBJECT Timetable AY 2024-25

Semester : VII		FINAL YEAR ENGINEERING						ROOM NO. :-
TIME DAY	8-8:45AM-9-8:45AM	9-9:45AM-10-9:45AM	10:00AM-12-10:00PM	12-12:00PM-01-12:00PM	01-12:00PM-02-12:00PM	02-12:00PM-03-12:00PM	03-12:00PM-04-12:00PM	
MONDAY								
TUESDAY				ED&C				
WEDNESDAY			ED&C					
THURSDAY	ED&C							
FRIDAY								

Gupta

Prof. Reema Gupta
Subject In-charge

f Bhushan Save

Prof. Bhushan Save
H.O.D





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Website: www.viva-technology.org

DEPARTMENT OF ELECTRICAL ENGINEERING

Course Outcome and CO mapping with PO's and PSO's

Semester	VII	Class	BE
Course No.	EEC702	Academic year	2024-25
Course Name	ED&C		
Name of Faculty	Prof. Reema Gupta		

COURSE OBJECTIVE

1	To impart knowledge on basic concept of DC and AC drives, various speed control techniques involved with both DC and AC drives and
---	--

COURSE OUTCOMES

Course Outcome	Description	Bloom Level
CO 1	To understand the dynamics of electrical drive.	Understand
CO 2	To understand the motor power rating calculation for a specific application for reliable operation.	Apply
CO 3	To understand the modes of operation and close loop control of electrical drive.	Understand
CO 4	To analyse the speed control of DC drives in an energy efficient manner using power electronics.	Analyse
CO 5	To analyse the speed control of induction motor drive using various methods.	Analyse
CO 6	To learn the advance control techniques for AC drives.	Apply





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University of Mumbai						
Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned		
		Theory	Tutorial	Theory	Tutorial	Total
EEC702	Drives and Control (abbreviated as D&C)	4	-	4	-	4

Examination Scheme								
Course code	Course Name	Theory					Term Work	Total
		Internal Assessment			End Sem. Exam	Exam Duration (Hrs.)		
		Test 1	Test 2	Avg.				
EEC702	Drives and Control	20	20	20	80	03	-	100

Course Objectives	<ul style="list-style-type: none"> To impart knowledge on basic concept of DC and AC drives, various speed control techniques involved with both DC and AC drives and advanced speed control techniques using power electronic converter used in industry.
Course Outcomes	<p>Students will be able</p> <ul style="list-style-type: none"> To understand the dynamics of electrical drive. To understand the motor power rating calculation for a specific application for reliable operation. To understand the modes of operation and close loop control of electrical drive. To analyse the speed control of DC drives in an energy efficient manner using power electronics. To analyse the speed control of induction motor drive using various methods. To learn the advance control techniques for AC drives.

Module	Contents	Hours
1	Electrical Drives: Introduction & Dynamics Introduction, Advantages of Electrical Drives, Parts of Electrical Drives, Choice of Electrical Drives, Status of DC and AC Drives, Fundamental Torque equations, Speed Torque conventions and Multi-quadrant Operation, Equivalent values of Drive Parameter, Measurement of Moment of Inertia, Components of Load Torques, Nature and Classification of Load Torques, Calculation of Time and Energy-Loss in Transient Operations, Steady State Stability, Load Equalization	10
2	Selection of Motor Power Rating: Thermal Model of Motor for Heating and Cooling, Classes of Motor Rating, Determination of Motor Rating	04
3	Control of Electrical Drives: Modes of Operation, Speed Control, Drive Classification, Closed loop Control of Drives- Speed control loop with inner loop of current control. Current control techniques- PWM and hysteresis Static and dynamic performance of drive.	04





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4	DC Drives: Basic multi-quadrant ($T - \omega_m$) characteristics and equations of DC motors. Single phase drives- full converter drive and its performance parameters (CCM), Dual converter drive Three phase drives- Half-converter drive, fully-converter drive DC-DC converter drive- principal of power control (step-down chopper), regenerative brake control, rheostatic brake control, performance parameters for braking and speed control Control of dc drives- open loop and closed loop control (transfer function approach and microcontroller control) clock diagrams (No Numerical on this module)	08
5	AC Drives: Basic multi-quadrant ($T - \omega_m$) characteristics and equations Induction Motor drives, Review of Speed-Torque relations, Review of Starting methods, Braking methods- Regenerative, Plugging and AC dynamic braking only, Speed Control: Stator voltage control, Variable frequency control, V/f control, Static Rotor Resistance control, Slip Power Recovery - Static Scherbius Drive, Review of d-q model of Induction Motor, Introduction to Synchronous Motor Variable Speed drives. (No Numerical on starters)	18
6	Advanced control techniques- Principle of Vector Control, Block diagram of Direct Vector Control Scheme, Comparison of Scalar control and Vector control, Direct Torque Control (DTC), field oriented control (FOC), comparison between control techniques.	04

Books Recommended:

Text Books:

1. Fundamentals of Electrical Drives by G.K.Dubey, Narosa Publication
2. A First Course on Electrical Drives by S.K.Pillai, New Age International.
3. Electrical Drives: Concepts and Applications by Vedam Subramanyam, T.M.H
4. Modern Power Electronics and AC Drives by B.K.Bose, Prentice Hall PTR
5. Power electronics by Muhammad H. Rashid, Pearson

Reference Books:

1. Electric Motor Drives: Modeling, Analysis and Control by Krishnan.R, PHI
2. Power Electronics by Joseph Vithayathil, Tata McGraw Hill
3. Power Semiconductor Controlled Drives by G. K. Dubey, Prentice Hall International

Assessment:

Internal Assessment consists of two tests out of which; one should be compulsory class test (on minimum 02 Modules) and the other is either a class test or assignment on live problems or course project

Theory Examination:





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Mapping of Course Outcomes with Program Outcomes and Program Specific Outcomes

COURSE OUTCOME	PROGRAM OUTCOME												PSO		CO Target level
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	
Module 1	3	--	--	--	--	--	--	--	--	--	--	--	3	--	3
Module 2	3	3	--	--	--	--	--	--	--	--	--	--	3	--	3
Module 3	3	--	2	--	--	--	--	--	--	--	--	--	3	--	2.66
Module 4	3	3	--	--	--	--	--	--	--	--	--	--	--	3	3
Module 5	3	3	2	--	--	--	--	--	--	--	--	--	--	3	2.75
Module 6	3	--	--	--	--	--	--	--	--	--	--	--	--	3	3
PO Target level	3	3	2	--	--	--	--	--	--	--	--	--	3	3	--

Enter correlation level 1, 2 or 3 as defined below

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation put "--".

Mapping Course Outcomes with Content Delivery

Course Outcome	Mode of Content Delivery				
	Chalk-Board	PPT/OHP	Video	Lab	Other (Specify)
CO 1	3	2	--	3	--
CO 2	3	2	--	3	--
CO 3	3	2	--	3	--
CO 4	3	2	--	3	--
CO 5	3	2	--	3	--
CO 6	3	2	--	3	--

Enter correlation level 1, 2 or 3 as defined below

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation put "--".

Prof. Reema Gupta
Subject Incharge





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Telephone: 7770002544, Website: www.viva.ac.in/technology.org
Department of Electrical Engineering



Department: Electrical Engineering
Name of Subject: ED&C

TEACHING PLAN Sem - VII

Name of the Staff Members: Prof. Reema Gupta
Duration of the Program: - From 8th Oct 2024 To 11th Oct 2024

SRL NO	(FORTNIGHTLY) PERIOD FROM TO	TOPICS TO BE COVERED	NO. OF AVAILABLE HOURS (APPROX)	TOPICS COVERED	NO. OF HOURS ENGAGED	SHORTFALL FROM PLAN	REASON FOR SHORTFALL	CORRECTIVE ACTION PLANNED
1	8 July To 19 July	Introduction, Adv. Parts, choice status of DC/AC, Torque eq, Speed torque conversion, Multi-quad equivalent parameter, calculation of time & energy loss, steady state stability, load equivalent thermal model heating/cooling, classes Determination of motor rating.	5	Intro, Advantages, Parts, Choice status, fundamental torque eq, Multi-quad, MFI, classification	6	-1	-	-
2	22 July To 2 Aug	Nature & class, Calculation of time & energy loss, steady state stability, load equivalent thermal model heating/cooling, classes Determination of motor rating.	6	Calculation of Time & Energy loss, Numerical, Steady state, load eq	5	+1	CL	Extra Lecture Conducted
3	05 Aug To 16 Aug	Mode of operation, speed control, class, Closed loop / Inner loop, pmw, hysteresis, Static dynamic	5	Thermal model of motor for heat for cooling, classes, motor Rating, Modes, elative, Classification closed loop, pmw & hysteresis	6	-1	-	-
4	19 Aug To 30 Aug	(F-w), DC motor, 1φ converter, CCM, dual, 3φ converter, DC-DC conv, speed limiting, speed control, open / closed loop control, T-w, IM eq.	4	Static & Dynamic performance, (T-w), 1 φ converter, Dual converter Drive	4	-	-	-
5	2 Sep To 13 Sep	Speed-Torque relation, Review of starting, Braking method - Regenerative plugging, AC dynamic, speed control.	4	2φ drive - chopper control Regenerative Brake control	2	+2	workshop BE	Extra Lecture Conducted
6	16 Sep To 27 Sep	Stator voltage control, VFD, static motor resistance control, Slip power static Scherbius/dt model IM, Intro to synchronous motor variable speed drive.	6	Regenerative Brake, performance parameter, open loop, closed loop, (T-w) N-T relation, starting & Braking MFB	7	-1	-	-
7	30 Sep To 11 Oct	Principle of vector control Block-diagram, Comparison of scalar control, vector control Direct Torque control, FOC, comparison	5	V/F control, static Rotor, d-q model synchronous, Scherbius, vector control DTC, SC, VC, DTC, FOC	8	-3	-	-
8								

35
38
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VIVA Institute of Technology, Virar

Lecture Attendance sheet

01

Subject:- ED&C

Subject Incharge:- Prof. Reema Gupta

BE ELECTRICAL 2024-25

Sl. No.	Student Name(s) Date(s)	Session No. (-)									P	C	T
		1	2	3	4	5	6	7	8	9			
	Extra: (Regular) Adjusted (-)	E/A	E/A	E/A	E/R/A	E/R/A	E/R/A	E/R/A	E/R/A	E/R/A			
	Time (-)	12:00	11:00	8:45	1:30	7:30	8:45	12:00	11:00	8:45			
1	BANDRE PRANAY PARSHURAM PALLAVI	A	A	A	A	A	A	A	A	A	0	0	
2	BHUSALE CHETAN SADANAND SHALAN	A	A	A	A	A	A	A	A	A	3	3	
3	BHOSKAR YASH SURESH SANGEETA	A	A	A	A	A	A	A	A	A	7	7	
4	DAINDULE ABIN KIRAN ANITA	A	A	A	A	A	A	A	A	A	0	0	
5	DHALYALIKAR RAHUL SHYAMSUNDER SHI	A	A	A	A	A	A	A	A	A	6	6	
6	DHODARE NIYD SURENDRA	A	A	A	A	A	A	A	A	A	0	0	
7	DIVEKAR NIKHIL KISAN KIRAN	A	A	A	A	A	A	A	A	A	4	4	
8	FATMAK ASHISH UDAY	A	A	A	A	A	A	A	A	A	0	0	
9	GAWALI RAHUL RAMESH RAVINA	A	A	A	A	A	A	A	A	A	2	3	
10	GAWADE PRATIK PANDULIBANG PRADANKA	A	A	A	A	A	A	A	A	A	9	9	
11	GAWADE SAMBODH SOMA SUCHADA	A	A	A	A	A	A	A	A	A	8	8	
12	GAYKAR SHABDESH SHYAM SHYAMALI	A	A	A	A	A	A	A	A	A	2	2	
13	GHURPADE KUSHIKESH R	A	A	A	A	A	A	A	A	A	0	0	
14	GOYARANE TANAY MAHENDRA MONICA	A	A	A	A	A	A	A	A	A	4	4	
15	GUPTA OMPRAKASH LALIT PHADOLA	A	A	A	A	A	A	A	A	A	0	0	
16	GUJODA KUNAL KRISHNA	A	A	A	A	A	A	A	A	A	0	0	
17	JADHAV OMRAJ SANJAY MADHURJ	A	A	A	A	A	A	A	A	A	2	2	
18	JADHAV SURESH ASHOK KANTA	A	A	A	A	A	A	A	A	A	3	3	
19	JOLE ROSHAN SHAMSUNDR SHRIGAYASHR	A	A	A	A	A	A	A	A	A	7	7	
20	KARJUTKAR ONIKAR VIDY MEENAL	A	A	A	A	A	A	A	A	A	8	8	
21	KHANTZODE SAHIL GAJANAN ARCHANA	A	A	A	A	A	A	A	A	A	8	8	
22	KIRVE PRATHAMESH NURLIDHAR MADH	A	A	A	A	A	A	A	A	A	6	6	
23	KUMAR NILESH RAMESH PARVATI	A	A	A	A	A	A	A	A	A	0	0	
24	KUMAR SANJEEV RAMPAL SUSHMA	A	A	A	A	A	A	A	A	A	2	2	
25	LADE BHAVESH KISHORCHANDRA YANIT	A	A	A	A	A	A	A	A	A	6	6	
26	MANDAVKAR PRATHIMESH SURESH SURE	A	A	A	A	A	A	A	A	A	4	4	
27	MEHTA NISHAL MUKESH KAVITA	A	A	A	A	A	A	A	A	A	6	6	
28	MESTRY VEDANG PRAVIN	A	A	A	A	A	A	A	A	A	5	5	
29	MIRGAL PRASAD UMESH POOJA	A	A	A	A	A	A	A	A	A	8	8	
30	MORE SAMEER RAMESH RESHMA	A	A	A	A	A	A	A	A	A	0	0	
31	NISHAD PARBOM SATISH KUMAR ANITA	A	A	A	A	A	A	A	A	A	2	2	
32	PAJIKAR ARNABH NARADHAN SUJATA	A	A	A	A	A	A	A	A	A	0	0	
33	PARSEKAR VIRAJ PANDHARINATH MILUNA	A	A	A	A	A	A	A	A	A	4	4	
34	PARULEKAR SIDDHANT SUNIL SONALI	A	A	A	A	A	A	A	A	A	7	7	
35	PATARI PRANAY YASHWANT ANITA	A	A	A	A	A	A	A	A	A	4	4	





Vishnu Waman Thakur Charitable Trust's VIVA Institute of Technology

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NAAC "B++" Grade

36	PATIL PRATIK KAMESH RASIMI	A	A	A	A	A	A	A	7	7
37	PAMAR ASHISH MAHENDRA SHEKHANGE	A	A	A	A	A	A	A	7	7
38	PAMAR MANAS RAJESH RUTUJA	A	A	A	A	A	A	A	7	7
39	PAMAR RUSHIKESH SHASHIKANT MEENA	A	A	A	A	A	A	A	0	0
40	PADASKAR HARSH KISHIN KESHARI	A	A	A	A	A	A	A	0	0
41	SHINDE RUSHIKESH DASHRATH DIFTI	A	A	A	A	A	A	A	3	3
42	SHUKLA SURAJ SHYAMDHAR AARTI	A	A	A	A	A	A	A	3	3
43	SIDDIQU NAVED SHAHID AKHIL NASEER	A	A	A	A	A	A	A	4	4
44	TATKARI HARSHAD VIJAY VIJAYA	A	A	A	A	A	A	A	2	2
45	THAKUR MIHIR AVINASH ARANKSHA	A	A	A	A	A	A	A	6	6
46	THAKUR SAHEEL LOCHAN LEENA	A	A	A	A	A	A	A	6	6
47	URUMKAR KARTIK SHREEDHAR SHIRADOD	A	A	A	A	A	A	A	3	3
48	YADAV SHIVAM VIJAY PRAKASH HIRAVATI	A	A	A	A	A	A	A	5	5
49										
50										
51										
52										
53										
54										
55										
56										
57										
58										
59										
60										
NO OF STUDENTS PRESENT		19	22	17	16	22	13	32	28	13

Sl. No.	TOPIC COVERED
1	Intro, Advantage of Electrical Drives, Parts of Electrical Drives
2	Choice of Electrical Drives
3	Status of DC & AC Drives, Fundamental Torque eq ⁿ
4	Speed Torque conventions & Multi-Quadrant operation
5	Drive Parameter, Measurement of moment of inertia.
6	Component of load Torque, Classification
7	Calculation of Time & Energy loss
8	Numerical based on Time of reversal
9	Steady State Stability

Gupta
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Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology, Virar

Lecture Attendance sheet

Subject:- ED&C

Subject Incharge:- Prof. Reema Gupta

BE ELECTRICAL 2024-25

Sl. No.	Section No. (-)	Extra/Regular/Adjusted (-)	Student Name(s) Date (-)	Time (-)									P	C	T	
				1	2	3	4	5	6	7	8	9				
				E/R/A	E/R/A	E/R/A	E/R/A	E/R/A	E/R/A	E/R/A	E/R/A	E/R/A				
				11:00	11:08	12:08	11:00	8:45	8:45	12:00	11:00	2:30	8:45			
1	HANDELI PRANAY PARSHURAM PALAVI	Regular		A	A	A	A	A	A	A	A	A	0	3	3	
2	HUSALE CHITAN SADANAND SHILAN	Regular		A	A	A	A	A	A	A	A	A	3	9	12	
3	HUSKAR YASH SURESH SANGATEA	Regular		A	A	A	A	A	A	A	A	A	7	4	11	
4	DAENULLI ARUN KIRAN ANITA	Regular		A	A	A	A	A	A	A	A	A	0	0	0	
5	DHAWALKAR RAHUL SHYAMSUNDER SHIHO	Regular		A	A	A	A	A	A	A	A	A	6	0	6	
6	DHODARE NIVID SURENDRA	Regular		A	A	A	A	A	A	A	A	A	0	0	0	
7	DIVEKAR NIKHIL KISAN KIRAN	Regular		A	A	A	A	A	A	A	A	A	4	4	8	
8	FATNAIK ASHISH UDAY	Regular		A	A	A	A	A	A	A	A	A	0	0	0	
9	GAVALI RAHUL RAMESH RAVINA	Regular		A	A	A	A	A	A	A	A	A	3	9	12	
10	GAWADE PRATIK PANDURANG PRIYANKA	Regular		A	A	A	A	A	A	A	A	A	9	8	17	
11	GAWADE SAMRUDH SOMA SURESHADA	Regular		A	A	A	A	A	A	A	A	A	8	8	16	
12	GAYKAR SHARVESH SHYAM SHYAMALI	Regular		A	A	A	A	A	A	A	A	A	2	1	3	
13	GHORIPATRE RUSHIKESH R.	Regular		A	A	A	A	A	A	A	A	A	0	0	0	
14	GOTARANE TANAY MAHENDRA MONIKA	Regular		A	A	A	A	A	A	A	A	A	4	5	9	
15	GUPTA ONPREKASH LALJI PHOOLA	Regular		A	A	A	A	A	A	A	A	A	0	3	3	
16	GURHODA KUNAL KRISHNA	Regular		A	A	A	A	A	A	A	A	A	0	0	0	
17	JADHAV OMRAJ SANJAY MADHURI	Regular		A	A	A	A	A	A	A	A	A	2	4	6	
18	JADHAV SURESH ASHOK KANTA	Regular		A	A	A	A	A	A	A	A	A	3	0	3	
19	JULI RUSHAN SHAMSUNDR BHADYASINI	Regular		A	A	A	A	A	A	A	A	A	7	9	16	
20	KARGUTKAR OMKAR VIJAY MEENAL	Regular		A	A	A	A	A	A	A	A	A	8	7	15	
21	KHANDZODE SAHIL GAJANAN ARCHANA	Regular		A	A	A	A	A	A	A	A	A	8	1	9	
22	KIRVE PRATYAMESH MURLIDHAR MADHVI	Regular		A	A	A	A	A	A	A	A	A	6	6	12	
23	KUMAR NILESH RAMESH PARVATI	Regular		A	A	A	A	A	A	A	A	A	0	0	0	
24	KUMAR SANJEEV RAVINDR SUSHMA	Regular		A	A	A	A	A	A	A	A	A	2	4	6	
25	LADE BHAVESH KISHORCHANDRA YAMIT	Regular		A	A	A	A	A	A	A	A	A	6	4	10	
26	MANDAVKAR PRADYUMNESH SURESH SURESH	Regular		A	A	A	A	A	A	A	A	A	4	7	11	
27	MEHTA VISHAL MUKESH KAVITA	Regular		A	A	A	A	A	A	A	A	A	6	4	10	
28	MISTRY VEDANG PRAVSH	Regular		A	A	A	A	A	A	A	A	A	5	4	09	
29	MIRJAL PRASAD UMESH POOJA	Regular		A	A	A	A	A	A	A	A	A	8	8	16	
30	MORE SAMEER RAMESH RESHMA	Regular		A	A	A	A	A	A	A	A	A	0	0	0	
31	MUSHAD HARSH SATEESH KUNAL ANITA	Regular		A	A	A	A	A	A	A	A	A	2	4	6	
32	NAIKARAY ABINASH NARAGHAN SUJATA	Regular		A	A	A	A	A	A	A	A	A	0	3	3	
33	PAKSEKAR VIRAJ PANDHARINATH MRUNAL	Regular		A	A	A	A	A	A	A	A	A	4	6	10	
34	PARULLEKAR SIDDHANT SUNIL SONALI	Regular		A	A	A	A	A	A	A	A	A	7	8	15	
35	PATARI PRANAY YASHWANT ANITA	Regular		A	A	A	A	A	A	A	A	A	4	6	10	





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NAAC "B++" Grade

Sl. No.	Student Name	P.P.	P.P.	P.P.	P.D.	A	A	P.P.	A	A	T	M	12
36	PATIL PRATIK RAMESH RASHMI	P.P.	P.P.	P.P.	P.D.	A	A	P.P.	A	A	7	6	13
37	PAWAR ASHISH MAHENDRA SHUBHANGI	P.P.	P.P.	P.P.	P.D.	A	A	P.P.	A	A	7	2	09
38	PAWAR MANAS RAJESH RUTUBA	A	A	A	A	A	A	A	A	A	0	0	0
39	PAWAR RUSHIKESH SHASHIKANT MEENA	A	A	A	A	A	A	A	A	A	0	0	0
40	PARASKAR HARESH KRISHNA KESHARI	A	A	A	A	A	A	A	A	A	3	3	6
41	SHINDE RUSHIKESH DASHRATH DIFTI	A	A	A	A	A	A	A	A	A	3	3	6
42	SHUKLA SURAJ SHYAMDHAR AARETI	A	A	A	A	A	A	Seri	Seri	Seri	4	4	8
43	SIDDQI NAVEED SHAHED AKHTAR NASEEM	A	A	A	A	A	A	A	A	A	2	3	5
44	TATKAR HARSHAD VIBAV VIJAYA	A	A	A	A	A	A	Seri	Seri	Seri	6	4	10
45	THAKUR MIHIR ANVASH AKANASHIA	A	A	A	A	A	A	A	A	A	6	5	11
46	THAKUR SAHEEL LOCHAN LEENA	A	A	A	A	A	A	A	A	A	3	5	8
47	URUNKAR KARTIK SHREEDHAR SHRAADD	A	A	A	A	A	A	A	A	A	5	8	13
48	YADAV SHIVAM VIJAYPRAKASH HIRAVANTI	A	A	A	A	A	A	A	A	A			
49													
50													
51													
52													
53													
54													
55													
56													
57													
58													
59													
60													
NO OF STUDENTS PRESENT		33	29	30	28	9	9	27	17	10			

SN	TOPIC COVERED
1	Load Equalization & Numerical based on it.
2	Thermal Model of motor for heating
3	Thermal Model of motor for cooling
4	Classes of motor. Rating
5	Determination of motor Rating
6	Modes of Operation, speed control, Drive classification
7	Closed Loop control of Drive
8	PMW & hysteresis
9	Static & Dynamic performance

[Signature]
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NAAC "B++" Grade



Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology, Virar
Lecture Attendance sheet

Subject:- ED&C

BE ELECTRICAL 2024-25

Subject Incharge:- Prof. Reema Gupta

Sl. No.	Name of the Student	Date/Day/Time									P	C	T
		1 E/A 28/8 11:00	2 E/R/A 29/8 12:00	3 F/R/A 29/8 8:45	4 F/A 30/8 8:45	5 F/A 31/8 8:45	6 E/A 1/9 11:00	7 E/R/A 1/9 1:30	8 E/A 2/9 8:45	9 E/R/A 2/9 1:30			
1	BANDRE PRANAY PARNISHRAM PILLAI	A	A	A	A	A	A	A	A	A	3	4	7
2	BHOSALE CHITAN SADANAND SHILAN	A	A	A	A	A	A	A	A	A	12	8	20
3	BHOSALE YASH SURESH SANGEETA	A	A	A	A	A	A	A	A	A	11	0	11
4	CHARNOLI ARUN KIRAN ANITA	A	A	A	A	A	A	A	A	A	0	3	3
5	DHAWALKAR RAHUL SHYAMSUNDE SHI	A	A	A	A	A	A	A	A	A	6	4	10
6	DHODADE NIVIN SURENDRA	A	A	A	A	A	A	A	A	A	0	2	2
7	DEVILKAR NICHIL KIRAN KIRAN	A	A	A	A	A	A	A	A	A	8	4	12
8	FATMAK ANSHU UDAY	A	A	A	A	A	A	A	A	A	0	0	0
9	GAWALI RAHUL RAMNESH BAWNA	A	A	A	A	A	A	A	A	A	12	9	21
10	GAWADE PRATIK PANDURANG PRITYANKA	A	A	A	A	A	A	A	A	A	17	8	25
11	GAWADE SAMBHUDEE SOMA SUKHADA	A	A	A	A	A	A	A	A	A	16	2	18
12	GAYKAR SHARVESH SHYAM SHYAMALI	A	A	A	A	A	A	A	A	A	03	7	10
13	GILGAPADE BUSHKESHER	A	A	A	A	A	A	A	A	A	0	0	0
14	GOTAKANE TANAY MAHENDRA MONIKA	A	A	A	A	A	A	A	A	A	9	8	17
15	GUPTA OMHARASHI LAJUTHIUSLA	A	A	A	A	A	A	A	A	A	3	3	6
16	GURUDA KUNAL KRISHNA	A	A	A	A	A	A	A	A	A	0	0	0
17	JADHAV OMAJ SANJAY MADHURE	A	A	A	A	A	A	A	A	A	6	4	10
18	JADHAV SURESH ASHOK KANTA	A	A	A	A	A	A	A	A	A	3	3	6
19	JOL ROSHAN SHYAMSUNDE BHAGYASHI	A	A	A	A	A	A	A	A	A	16	9	25
20	KARGUTKAR OMKAR VIDAY MEENAL	A	A	A	A	A	A	A	A	A	15	9	24
21	KHANDVODE SAHIL GADANAN ARCHANA	A	A	A	A	A	A	A	A	A	9	7	16
22	KORVE PRATHAMESH MURLIDHAR MADHU	A	A	A	A	A	A	A	A	A	12	8	20
23	KUMAR NILESH RAMESH PARVATI	A	A	A	A	A	A	A	A	A	0	0	0
24	KUMAR SANJEEV KAMPAJ BUNIMA	A	A	A	A	A	A	A	A	A	06	5	11
25	LADJI BHAVESH KISHORCHANDRA YANVI	A	A	A	A	A	A	A	A	A	10	6	16
26	MANDAVKAR PRATHMESH SURESH SURJI	A	A	A	A	A	A	A	A	A	11	7	18
27	MEHTA VISHAL MUKESH KAVITA	A	A	A	A	A	A	A	A	A	10	4	14
28	MESTRY VEDANG PRAVIN	A	A	A	A	A	A	A	A	A	09	8	17
29	MIRGAL PRASAD UMESH POGGA	A	A	A	A	A	A	A	A	A	16	8	24
30	MORE SAMBHA RAMNESH RESHMA	A	A	A	A	A	A	A	A	A	0	2	2
31	NISHAD HARISH SATISH KUMAR ANITA	A	A	A	A	A	A	A	A	A	6	3	9
32	PAIKARAY ABINASH ABAGHAN SUZITA	A	A	A	A	A	A	A	A	A	3	2	5
33	PARSIKAR VIRAJ PANDURANG MADHUR	A	A	A	A	A	A	A	A	A	10	8	18
34	PARULKAR MIDEHANT SUNIL SONALI	A	A	A	A	A	A	A	A	A	15	8	23
35	PAJARI PHANAY VASHWANT ANITA	A	A	A	A	A	A	A	A	A	10	7	17





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76	PYTH. PRATIK RAMESH BASIM	P.P.	A	P.P.	P.P.	AE	AE	AE	AE	AE	12	8	20
77	PYDAR AMISH MAHENDRA SHIRBARKI	Muzs	Muzs	A	Muzs	Muzs	Muzs	Muzs	Muzs	Muzs	13	8	21
78	PYDAR MANAS RAJESH RUTUA	A	A	A	A	A	A	A	A	A	09	8	17
79	PYDAR RUSHIKESH SHASHIKANT MEENA	A	A	A	A	A	A	A	A	A	0	2	2
80	PYDASKAR HARISH KRISHNA KESHAR	A	A	A	Harish	A	A	A	Harish	A	0	2	2
81	SHINDE RUSHIKESH DASHRAJ DIPPY	P.P.	P.P.	A	P.P.	AE	AE	AE	AE	AE	6	8	14
82	SHUKLA SURAJ SHIVAMDHAR AARTI	Surj	Surj	Surj	A	Surj	A	A	A	Surj	6	5	11
83	SHYAM NATED SHAHID AKHIL NASE	A	A	A	A	A	A	A	A	A	8	6	14
84	THAKAR HARSHAD VIRAY VIJAYA	A	A	A	A	A	A	A	A	A	5	5	10
85	THAKUR NIDHI AVINASH AKANKSHA	A	A	A	A	A	A	A	A	A	10	2	12
86	THAKUR SAMUEL LUCHAN LEENA	Shrawa	Shrawa	A	Shrawa	Shrawa	Shrawa	Shrawa	Shrawa	Shrawa	11	8	20
87	TRIMKAR KARTIK SUREEDHAR SHIRAD	Kartik	Kartik	Kartik	A	A	A	A	A	A	8	4	12
88	VARAD SHIVAM VIJAY PRACASH HIRAVAT	A	Shrawa	13	8	21							
89													
90													
91													
92													
93													
94													
95													
96													
97													
98													
99													
100													
NO OF STUDENTS PRESENT		28	26	27	28	20	18	17	22	18			

TOPIC COVERED	
1	Basic Multi-quadrant (T-wor)
2	1 ϕ drive- full converter drive
3	Duel converter Drive
4	3 ϕ drive - chopper control
5	Regenerative Brake control
6	Rheostate brake control
7	Performance parameter for braking & Speed control
8	Open loop control
9	closed loop control

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NAAC "B++" Grade



Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology, Virar
Lecture Attendance sheet

14

Subject:- ED&C

Subject Incharge:- Prof. Reema Gupta

BE ELECTRICAL 2024-25

Sl. No.	Section No. (-)	1		2		3		4		5		6		7		8		9		P	C	T
		E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A	E	A			
		24/9	25/9	26/9	1/10	3/10	7/10	8/10	8/10	12:00	11:00	8:45	12:00	8:45	12:00	8:45	12:00	3:30				
		12:00	11:00	8:45	12:00	8:45	12:00	8:45	12:00	8:45	12:00	8:45	12:00	8:45	12:00	8:45	12:00	3:30				
1	BANDRE PRANAY PARSHURAM PALLAVI	A	A	P	A	A	A	A	A	A	A	A	A	A	A	A	A	A	7	5	12	
2	BHOSALE CHETAN SAGANAND SHILAN	A	A	P	A	A	A	A	A	A	A	A	A	A	A	A	A	A	20	9	29	
3	BHOSKAR YASHI SURESH SANGEETA	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	11	0	11	
4	DARNLE ARUN KIRAN ANITA	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	3	2	5	
5	DHAVALKAR RAJUL SHIVANSUNDER SIO	A	A	P	A	A	A	A	A	A	A	A	A	A	A	A	A	A	10	9	13	
6	DHODARE NIVD SURENDRA	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	2	2	4	
7	DIVEKAR NIKHIL KISAN KIRAN	A	A	P	A	A	A	A	A	A	A	A	A	A	A	A	A	A	12	5	17	
8	FATNAIK ASHISH UDAY	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	0	5	5	
9	GAWALI RAHUL KAMESH RAVINA	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	21	9	30	
10	GAWADE PRATIK PANDURANG PRIYANKA	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	25	9	34	
11	GAWADE SAMRUDDHI SOMA SUKHADA	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	18	0	18	
12	GAYKAR SHARVESH SHYAM SHYAMALI	A-E	A-E	A-E	A-E	A-E	A-E	A-E	A-E	A-E	A-E	A-E	A-E	A-E	A-E	A-E	A-E	A-E	10	9	19	
13	GHURPADE RUSHIKESH B.	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	0	0	0	
14	GOTARANE TANAY MAHENDRA MONIKA	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	17	9	26	
15	GUPTA OMPRAKASH LALI THOKLA	A	A	P	OP	A	OP	A	OP	A	OP	A	OP	A	OP	A	OP	A	6	3	9	
16	GURODA KUNAL KISHINA	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	0	1	1	
17	JADHAV GIMRAJ SANJAY MADHURI	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	10	4	14	
18	JADHAV SURFESH ASHOK KANTA	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	6	2	8	
19	JOIL RUSHAN SHAMSUNDR BHAGYASHI	Boil	Boil	P	Boil	Boil	Boil	Boil	Boil	Boil	Boil	Boil	Boil	Boil	Boil	Boil	Boil	Boil	25	9	34	
20	KARGUTKAR UNIKAR VIJAY MEENAL	A	A	P	A	A	A	A	A	A	A	A	A	A	A	A	A	A	24	9	33	
21	KHANDPURE SAHIL GAJANAN ARCHANA	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	16	8	24	
22	KIRVE PRATHAMESH NUREIDHAR MADHU	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	20	7	27	
23	KUMAR NILESH RANDESH PARVATI	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	0	0	0	
24	KUMAR SANJEEV RAMDAL SUSHIMA	A	A	P	A	A	A	A	A	A	A	A	A	A	A	A	A	A	11	3	14	
25	LADDE BHAVESH KISHORCHANDRA VANT.	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	16	7	23	
26	MANDAVKAR PRATHAMESH SURESH SURESH	A	A	P	A	A	A	A	A	A	A	A	A	A	A	A	A	A	18	7	25	
27	MEHTA VISHAL MUKESH KAVITA	A	A	P	A	A	A	A	A	A	A	A	A	A	A	A	A	A	14	8	22	
28	MESTRY VEDANG PRAVIN	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	17	6	23	
29	NIRGAL PRASAD UMESH POOJA	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	24	9	33	
30	MORE SAMLER RANESH RESHIMA	A	A	P	A	A	A	A	A	A	A	A	A	A	A	A	A	A	2	3	5	
31	NISHAD HARSHIM SATISH KUMAR ANITA	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	9	5	14	
32	PAIKARAY ARNASH NARAGHAN SUSATA	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	5	2	7	
33	PARSEKAR VIRAJ PANDHARINATH MEHUN	A	A	P	A	A	A	A	A	A	A	A	A	A	A	A	A	A	18	6	24	
34	PARULEKAR SIDDIHANT SUNIL SUNALI	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	23	9	32	
35	PATARI PRANAY YASHWANT ANITA	A	A	P	A	A	A	A	A	A	A	A	A	A	A	A	A	A	17	8	25	





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26	DVIR PRATIK RAMESH RASHMI	AE	AE	AE	AE	AE	AE	AE	AE	AE	20	9	23
27	PAWAR ASHISH MAHESH SAHURANGI	AE	AE	P	AE	AE	AE	AE	AE	AE	21	9	30
28	PAWAR MANAS RAJESH RUTUA	AE	AE	P	AE	AE	AE	AE	AE	AE	17	9	26
29	PAWAR RISHIKESH SHASHIKANT MEENA	A	A	A	A	AE	AE	A	A	A	2	2	4
30	PAWAR AR JAYESH KRISHNA KESHARI	A	A	A	A	AE	A	A	A	A	2	1	3
31	MAUND RUMIKESH DASHRATH DIPTI	AE	AE	AE	AE	AE	AE	AE	AE	AE	14	9	23
32	MURKHA SURAJ SHYAMDEVI AARTI	A	A	A	AE	AE	AE	A	AE	AE	11	5	16
33	MURDANI NAVEED SHAHID AKHTAR NASIR	AE	AE	A	AE	AE	A	AE	AE	AE	14	7	21
34	MUSKARI HARSHAD VIJAY VIJAYA	A	A	P	A	AE	A	AE	AE	AE	12	0	12
35	THAKUR MIHIR AVINASH AKANSHA	A	A	A	A	A	A	A	A	A	20	7	27
36	THAKUR SAHEEL LOCHAN LEENA	AE	AE	A	AE	A	AE	AE	AE	AE	12	4	16
37	THAKUR KARTIK SHREEDHAR SHIBHAD	A	A	A	A	AE	A	AE	AE	AE	21	8	29
38	YADAV SHIVAM VIJAY PRAKASH HIRVATI	AE	AE	P	AE	A	AE	AE	AE	AE	21	8	29
39													
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50	NO OF STUDENTS PRESENT	17	16	19	21	25	20	21	24	23			

Sl. No.	TOPIC COVERED
1	(T-wm) Induction Motor drive
2	N-T relation, starting methods
3	Braking methods
4	Speed control- variable freq. V/F control, static rotor
5	d-q model of IM
6	Intro. to synchronous motor
7	slip power Recovery- static Scherbius Drive
8	Principle of Vector control, block dia. of DVC
9	Comparison of SC/VC.

Gupta

SUBJECT INCHARGE





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Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology, Virar
Lecture Attendance sheet

06

Subject:- ED&C

Subject Incharge:- Prof. Reema Gupta

BE ELECTRICAL 2024-25

R. No.	Section No. (1-9)	Extra Register (Approved)									P	C	T	
		1	2	3	4	5	6	7	8	9				
		10/10	10/10											
		11:00	8:45											
1	DANDU BHANAY PARNISHAM PALLAVI	<i>Present</i>	<i>Present</i>									12	2	14
2	BHOSALE CHITAN SADANAND SHRIJAN	<i>Present</i>	<i>Present</i>									29	2	31
3	BHOSKAR YASH SURESH SANGHETA	<i>A</i>	<i>A</i>									11	0	11
4	DARWALE ABIN KIRAN ANITA	<i>A</i>	<i>A</i>									5	0	5
5	DHAWALKAR DAHUL SHYAMSUNDEE SUSHI	<i>Present</i>	<i>Present</i>									13	2	15
6	DHODARE NIVID SURENDR	<i>Present</i>	<i>A</i>									4	1	5
7	DIVEKAR NIKHIL KIRAN KIRAN	<i>A</i>	<i>Present</i>									17	1	18
8	FATNAK ASHISH UDAY	<i>A</i>	<i>Present</i>									5	1	6
9	GAWALI RAJESH RAMESH RAVINA	<i>AE</i>	<i>Present</i>									30	1	31
10	GAWADE PHATIK PANDURANG PRIYANKA	<i>AE</i>	<i>Present</i>									34	0	35
11	GAWADE SAMBUDH SOMA SUSHADA	<i>A</i>	<i>A</i>									18	0	18
12	GAYKAR SHARVESH SHYAM SHYAMALI	<i>AE</i>	<i>Present</i>									19	1	20
13	GHORPADE RUSBI KESH K	<i>A</i>	<i>A</i>									0	0	0
14	GOTARAME TANAY MAHENDRA MONIKA	<i>AE</i>	<i>Present</i>									26	1	27
15	GUPTA OMPRAKASH LALJI HOOKLA	<i>A</i>	<i>A</i>									9	0	9
16	GURDOD KUNAL KRISHNA	<i>Present</i>	<i>A</i>									1	1	2
17	JADHAV OMRAJ SANJAY MADHURI	<i>Present</i>	<i>Present</i>									14	2	16
18	JADHAV SURESH ASHOK KANTA	<i>A</i>	<i>Present</i>									8	1	9
19	JOLE RUSHAN SHAMSUNDR BIHAGYASHI	<i>Present</i>	<i>Present</i>									34	2	36
20	KARGUTKAR OMKAR VIJAY MEENAL	<i>A</i>	<i>A</i>									39	2	35
21	KHANEZUDE SAHIL GAJANAN ARCHANA	<i>Present</i>	<i>Present</i>									24	2	26
22	KIRVE PRAKASH MURLIDHAR MADHVI	<i>Present</i>	<i>Present</i>									27	0	27
23	KUMAR NILESH RAMESH PARVATI	<i>A</i>	<i>A</i>									0	1	01
24	KUMAR SANJEEV RAMPAL SUSHMA	<i>Spd</i>	<i>A</i>									14	1	015
25	LADE BHAVESH KISHOR CHANDRA VANITA	<i>Present</i>	<i>Present</i>									23	2	25
26	MANDAVKAR PRATHMESH SURESH SURE	<i>Present</i>	<i>A</i>									25	1	26
27	MENGA VISHAL MUKESH KAVITA	<i>Present</i>	<i>Present</i>									22	2	24
28	MISTRY VEDANG PRAVIN	<i>Present</i>	<i>Present</i>									23	2	25
29	MIRGAL PRASAD UMESH POGGA	<i>AE</i>	<i>Present</i>									33	1	34
30	MURT SAMEER RAMESH RESHMA	<i>Present</i>	<i>A</i>									5	1	06
31	NISHAD HARSH SUTISH KUMAR ANITA	<i>A</i>	<i>Present</i>									14	1	15
32	PAIKARAY ABINASH NARADHAN SUJATA	<i>Present</i>	<i>A</i>									7	1	8
33	PARSEKAR VIRAJ PANDHARINATH MRUN	<i>Present</i>	<i>Present</i>									24	2	26
34	PARULKAR SIDDHANT SUNIL SONALI	<i>AE</i>	<i>Present</i>									32	1	33
35	PATKAR PRANAY YASHWANT ANITA	<i>A</i>	<i>Present</i>									25	1	26





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36	PAUL PRATIK RAMESH RASHMI	AE	29	01	30
37	PAWAR ASHISH MAHENDRA SHUBHANGI	AE	30	2	32
38	PAWAR MANAS RAJESH RUTUJA	AE	26	2	28
39	PAWAR RUSHIKESH SHASHIKANT MEENA	A	4	1	05
40	PAWASKAR HARISH KRISHNA KESHARI	AE	3	1	04
41	SHINDE RUSHIKESH DAMIRATH DIPTI	AE	23	1	24
42	SHUKLA SURAJ SHIVAMDHAR AARTI	AE	16	2	18
43	SIDDIQUE NAWED SHAHID AKHTAR NASIR	AE	21	2	23
44	TAKARI HARSHAD VIJAY VIJAYA	A	15	1	16
45	THAKUR BIBHER AVINASH LAKANSHA	A	12	0	12
46	THAKUR SAHEL UOCHAN LETNA	A	27	1	28
47	THUNIKAR KARTIK SHREEDHAR SHIRADDI	A	16	1	17
48	YADAV SHIVAM VIJAY PRAKASH HIRAVAT	A	29	2	31
49					
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57					
58					
59					
60					
NO OF STUDENTS PRESENT			26	31	

Sl. No.	TOPIC COVERED
1	Direct Torque control (DTC)
2	(FOC) comparison b/w DTC/FOC
3	
4	
5	
6	
7	
8	
9	
10	

Copte

SUBJECT INCHARGE





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Vishnu Waman Thakur Charitable Trust's

VIVA Institute of Technology

Shirgaon, Veer Sawarkar Road, Virar(East), Palghar District - 401305

Telephone: 7770002544, Website- www.viva-technology.org

Department of Electrical Engineering

LECTURE REPORT

SUBJECT: - ED&C

BE ELECTRICAL 2024-25

METHODOLOGY: Chalk-board, OHP/ PPT, Videos, Flip class, Role play etc. along with Tutorial, Assignment, references and related activity.

SR. NO.	DATE	TIME	R/E/A	TOPIC COVERED	Total student present	Methodology
1	09-07-2024	12.00	R	Intro, Advantage of Electrical Drives , Parts of Electrical Drives	19	Chalk-board
2	10-07-2024	11.00	R	Choice of Electrical Drives	22	Chalk-board
3	11-07-2024	08.45	R	Status of DC & AC Drives , fundamental Torque Equation	17	Chalk-board
4	11-07-2024	01.30	A	Speed torque conventions & Multi-quadrant operation	16	Chalk-board
5	16-07-2024	03.30	A	Drive Parameter Measurement of Moment of Inertia	22	Chalk-board
6	18-07-2024	08.45	R	Component of load torque,Classification	13	Chalk-board
7	23-07-2024	12.00	R	Calculation of Time & Energy loss	32	Chalk-board
8	24-07-2024	11.00	R	Numerical based on time of reversal	28	Chalk-board
9	25-07-2024	08.45		Steady state stability	13	Chalk-board
10	31-07-2024	11.00	R	Load Equalization & Numerical based on it	33	Chalk-board
11	01-08-2024	08.45	R	Thermal Model of motor for Heating	29	Chalk-board
12	06-08-2024	12.00	R	Thermal model of motor for cooling	30	OHP/ PPT
13	07-08-2024	11.00	R	Classes of motor Rating	23	Chalk-board
14	08-08-2024	08.45	R	Determination of motor Rating	9	Chalk-board
15	08-08-2024	12.00	E	Modes of operation ,speed control, Drive classification	9	Chalk-board
16	14-08-2024	11.00	R	Closed loop control of Drive	27	Chalk-board
17	16-08-2024	02.30	E	PMW & Hysteresis	17	Chalk-board
18	19-08-2024	08.45	E	Static & Dynamic performance	10	Chalk-board
19	28-08-2024	11.00	R	Basic Multi-quadrant (T-wn)	28	Chalk-board
20	28-08-2024	12.00	A	1 Phase drive- full converter drive	26	Chalk-board
21	29-08-2024	08.45	A	Duel converter drive	27	OHP/ PPT
22	05-09-2024	08.45	R	3 Phase - chopper control	28	Chalk-board





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VIVA Institute of Technology

Shirgaon, Veer Savarkar Road, Virar(East), Palghar District - 401305

Telephone: 7770002544, Website- www.viva-technology.org

Department of Electrical Engineering

LECTURE REPORT

SUBJECT: - ED&C

BE ELECTRICAL 2024-25

METHODOLOGY: Chalk-board, OHP/ PPT, Videos, Flip class, Role play etc. along with Tutorial, Assignment, references and related activity.

SR. NO.	DATE	TIME	R/E/ A	TOPIC COVERED	Total student present	Methodology
23	12-09-2024	08.45	R	Regenerative brake control	20	Chalk-board
24	18-09-2024	11.00	R	Rheostate brake control	18	Chalk-board
25	18-09-2024	01.30	A	Performance parameter for braking & speed control	17	OHP/ PPT
26	19-09-2024	08.45	R	Open loop control	22	Chalk-board
27	20-09-2024	01.30	E	Closed loop control	18	Chalk-board
28	24-09-2024	12.00	R	(T-wm) Induction Motor drive	17	Chalk-board
29	25-09-2024	11.00	R	N-T relation, starting methods	16	Chalk-board
30	26-09-2024	08.45	R	Braking Methods	19	OHP/ PPT
31	01-10-2024	12.00	R	Speed control - variable freq./ f control, static Rotor	21	Chalk-board
32	03-10-2024	08.45	R	d-q model of IM	25	Flip class
33	07-10-2024	12.00	E	Introduction to synchronous Motor	20	Chalk-board
34	08-10-2024	08.45	E	Slip Power Recovery -static scherbus drive	21	Chalk-board
35	08-10-2024	12.00	R	Principal of vector control, block diagram of DVC	24	Chalk-board
36	08-10-2024	03.30	A	Companson of SC/VC	23	Chalk-board
37	09-10-2024	11.00	R	Direct Torque control (DTC)	26	Chalk-board
38	10-10-2024	08.45	R	(FOC) companson b/w DTC/ FOC	31	Chalk-board

Reema Gupta

Prof. Reema Gupta

Subject In-charge





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Internal Assessment - I

Page 11

Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology
Shirgaon, Virar(East)

Department of Electrical Engineering
Internal Assessment - I AY 2024-25

Class: BE
Division: --
Subject: ED&C

Date:
Duration: 1 Hr.
Marks: 20

Note:

- All questions are compulsory.
- Draw figures wherever possible.
- Assume suitable data whenever required, but justify the same

Que. No.		Marks	CO	BL	P1 code
1	Solve any one from the following:				
a	Illustrate the speed torque conventions and multi-quadrant operation using a hoist.	10	CO 1	L4	2.1.3
b	Draw the block diagram of an electrical drive. State the function of power modulator.	10	CO 1	L1	1.4.1
2	Solve any one from the following:				
a	Explain the term continuous duty and intermittent periodic duty.	5	CO 2	L2	1.3.1
b	Derive and explain thermal model of motor for heating and cooling.	5	CO 2	L3	2.1.2
3	Solve any one from the following:				
a	State the drive classification, Depending on the nature of power supply.	5	CO 3	L2	1.3.1
b	Explain the closed loop speed control scheme with inner current control loop.	5	CO 3	L2	2.1.1

Subject Incharge

Subject Expert

Exam Incharge

DEPT OF ELECTRICAL ENGG

VIVA INSTITUTE OF TECHNOLOGY, VIRAR





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Internal Assessment - II

08/10/2024

Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology
Shirgaon, Virar(East)
Department of Electrical Engineering
Internal Assessment - II AY 2024-25

Class: BE
Division: --
Subject: ED&C

Date:
Duration: 1 Hr.
Marks: 20

Note:

- All questions are compulsory.
- Draw figures wherever possible.
- Assume suitable data whenever required, but justify the same

Que. No.	Marks	CO	BL	PI code
1	Solve any one from the following:			
a	10	CO 5	L1	2.1.1
b	10	CO 5	L2	2.1.2
2	Solve any one from the following:			
a	5	CO 4	L2	1.3.1
b	5	CO 4	L2	1.3.1
3	Solve any one from the following:			
a	5	CO 6	L4	2.2.4
b	5	CO 6	L2	1.3.1

Subject Incharge

Subject Expert

Exam Incharge

DEPT. OF ELECTRICAL ENGG

VIVA INSTITUTE OF TECHNOLOGY

RETEST

Vishnu Waman Thakur Charitable Trust's





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And Affiliated to University of Mumbai

Academic Year : 2024-2025

Attendance Record

Term Test : I

Date :- 21 Aug 24

Time :- 12:00 pm to 1:00 pm

Sem :- 4th sem

Sub :- C, D & E

Sr no.	Roll No	Name of Student	Sign	Q.1	Q.2	Q.3	TOTAL
				CO-1	CO-2	CO-3	
				MKS (10)	MKS (5)	MKS (5)	20
1	1	DIANDRE PRANAY PARSHURAM	<i>[Signature]</i>	10	05	03	18
2	2	BIHOSALE CHETAN SADANAND	<i>[Signature]</i>	07	04	01	12
3	3	BIHOSKAR YASHI SURESH	<i>[Signature]</i>	10	05	-	15
4	4	DARNULE ARUN KIRAN	<i>[Signature]</i>	-	-	00	00
5	5	DIWALKAR RAHUL SHYAMSUNDER	<i>[Signature]</i>	01	02	02	05
6	6	DIXIDALE NIVID SURENDRA	AB	← AB →			
7	7	DIVEKAR NIKHIL KIRAN KIRAN	<i>[Signature]</i>	06	04	05	15
8	8	FATNAIK ASHISH UDAY	AB	← AB →			
9	9	GAWALI RAHUL RAMESH	<i>[Signature]</i>	10	05	04	19
10	10	GAWADE PRATIK PANDURANG	<i>[Signature]</i>	10	03	05	18
11	11	GAWADE SAMRUDDHI SOMA	<i>[Signature]</i>	10	01	03	14
12	12	GAYKARI SHARVESH SHYAM	<i>[Signature]</i>	04	04	04	12
13	13	GHORPADE RUSHIKESHI R	AB	← AB →			
14	14	GOTARANE TANAY MAHENDRA	<i>[Signature]</i>	07	-	05	12
15	15	GUPTA OMPRAKASH LALJI	AB	← AB →			
16	16	GURUDA KUNAL KRISHNA	<i>[Signature]</i>	02	05	05	12
17	17	JADHAV OMRAJ SANJAY	<i>[Signature]</i>	03	04	-	07
18	18	JADHAV SURESH ASHOK KANDE	<i>[Signature]</i>	10	05	04	19
19	19	JOL ROSHAN SHYAMSUNDER	<i>[Signature]</i>	05	03	02	10
20	20	KARGUTKAR UMKAR VIJAY	<i>[Signature]</i>	09	05	05	19
21	21	KHANDZODE SAHIL GAJANAN	<i>[Signature]</i>	10	05	05	20
22	22	KHIVE PRATHAMESH MURLIDHAR	<i>[Signature]</i>	09	-	05	14
23	23	KUMAR NILESH RAMESH	<i>[Signature]</i>	07	04	05	16
24	24	KUMAR SANJEEV RAMPAL	AB	← AB →			
25	25	LADE BHAVESH KISHORCHANDRA	<i>[Signature]</i>	04	02	02	08
26	26	MANDAVKAR PRATHMESH SURESH	<i>[Signature]</i>	04	04	04	12
27	27	MEHTA VISHAL MUKESH	<i>[Signature]</i>	05	05	03	13
28	28	MESTRY VIDANG PRAYAN	<i>[Signature]</i>	09	05	03	17
29	29	MIRGAL PRASAD UMESH	<i>[Signature]</i>	07	05	01	13
30	30	MORE SAMIR RAMESH	<i>[Signature]</i>	07	05	09	17
31	31	NISHAD HARION SATISH KUMAR	<i>[Signature]</i>	09	04	05	18
32	32	PAIKARAY AISHWASHI NABAGHIAN	<i>[Signature]</i>	07	04	02	13
33	33	PARSEKAR VIRAJ JIVANDHARINATHI	<i>[Signature]</i>	09	04	05	18
34	34	PABULEKAR SIDHANT SUNIL	<i>[Signature]</i>	06	-	04	10
35	35	PATARI PRANAY YASHIWANT	<i>[Signature]</i>	10	01	05	16
				Absent	04		
				Present	31		
				Total	35		

[Signature]
Sr. Supervisor Sign
Name P. M. Sijakur

[Signature]
Sr. Supervisor Sign
Name J. R. Kamble





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Academic Year : 2024-2025

Affiliation Record

Term Test : I

Date :- 21/08/24

Time:- 12:00 - 1:00PM

Sem:- VII

Sub :- EDC

Sr no.	Roll No	Name of Student	Sign	Q.1	Q.2	Q.3	TOTAL
				CO -	CO -	CO -	
				MKS (10)	MKS (05)	MKS (05)	20
1	36	FATIL PRATIK RAMESH		08	05	05	18
2	37	PAWAR ASHISH MAHENDRA		07	04	04	15
3	38	PAWAR MANAS RAJESH		10	05	01	16
4	39	PAWAR RUSHIKESH SHASHIKANT		06	05	03	14
5	40	PAWASKAR HARESH KRISHNA		04	01	03	08
6	41	SHINDE RUSHIKESH DASHRATH		06	02	-	08
7	42	SHUKLA SURAJ SHYAMDHAR		05	05	05	15
8	43	SIDDIQUI NAVED SHAHID AKHTAR +1		07	05	05	17
9	44	TATKARI HARSHAD VIJAY		07	05	04	16
10	45	THAKUR MIHIR AVINASH		10	05	02	17
11	46	THAKUR SAHEEL LOCHAN		10	05	04	19
12	47	URUMKAR KARTIK SHREEDHAR		07	04	05	16
13	48	YADAV SHIVAM VIJAYPRAKASH		04	02	05	11
Absent				00			
Present				13			
Total				13			

Jr. Supervisor Sign
Name Reema Gupta

Sr. Supervisor Sign
Name D. M. Bajnandani





Vishnu Waman Thakur Charitable Trust's VIVA Institute of Technology

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NAAC "B++" Grade



Vishnu Waman Thakur Charitable Trust's VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra
And Affiliated to University of Mumbai

Academic Year : 2024-2025

Attendance Record

Term Test : II

Date :- 14-10-2024

Time :- 12:00 To 1:00 Pm

Sem :- VIII

Sub :- ED & C

Sr no.	Roll No	Name of Student	Sign	Q.1	Q.2	Q.3	TOTAL
				CO-5	CO-4	CO-6	
				MKS (10)	MKS (5)	MKS (5)	20
1	1	MAHRE PRANAY PARSHURAM	<i>[Signature]</i>	8	4	4	16
2	2	BHOSALE CHETAN SADANAND	<i>[Signature]</i>	1	3	5	9
3	3	BHOSSCAR YASHI SURESH	<i>[Signature]</i>				
4	4	DARWALI ARUN KIRAN	<i>[Signature]</i>	08	03	05	16
5	5	UHAVALKAR RAHUL SHYAMSUNDER	<i>[Signature]</i>	06	-	05	11
6	6	DHODARE NIVEDI SURENDRA	<i>[Signature]</i>	10	-	05	15
7	7	DEVNAR NISHIL KIRAN KIRAN	<i>[Signature]</i>	01	-	05	06
8	8	FATMAK ASHISH UDAY	<i>[Signature]</i>	07	04	05	16
9	9	GAWALI RAHUL RAMESH	<i>[Signature]</i>	10	-	04	14
10	10	GAWADE PRATIK PANDURANG	<i>[Signature]</i>	10	04	05	19
11	11	GAWADE SANJIVINI SUMA	<i>[Signature]</i>				
12	12	GAIKAR SHARVESH SHYAM	<i>[Signature]</i>	07	03	05	15
13	13	GHORPADE RUSHIKESH B	<i>[Signature]</i>				
14	14	GOTARANE TANAY MAHENDRA	<i>[Signature]</i>	09	05	04	18
15	15	GUPTA OMPRAKASH LALJI	<i>[Signature]</i>	05	-	05	10
16	16	GURUDA KUNAL KRISHNA	<i>[Signature]</i>	06	-	05	11
17	17	JADHAV OMBHAJ SANJAY	<i>[Signature]</i>	09	-	05	14
18	18	JADHAV SURESH ASHOK KANTA	<i>[Signature]</i>	07	01	05	13
19	19	JOL BISHAN SELAMSUNDAR	<i>[Signature]</i>	08	05	05	18
20	20	SARGUTKAR OMKAR VISHAY	<i>[Signature]</i>	10	05	05	20
21	21	KHANDZODE SAHEL GAJANAN	<i>[Signature]</i>	01	-	05	06
22	22	KIRVE PRATHAMESH MURLEKHAR	<i>[Signature]</i>	09	04	05	18
23	23	KUMAR NILESH RAMESH	<i>[Signature]</i>				
24	24	KUMAR SANJEEV RAMPAL	<i>[Signature]</i>	09	04	03	16
25	25	LADDE BHAVESH KISHORCHANDRA	<i>[Signature]</i>	07	04	04	15
26	26	MANDAVKAR PRATHIMESH SURESH	<i>[Signature]</i>	07	04	03	14
27	27	METHA VISHAL MUKESH	<i>[Signature]</i>	06	-	04	10
28	28	MISTRY VEDANG PRAVIN	<i>[Signature]</i>	06	-	04	10
29	29	MIRGAL PRAKASH UMESH	<i>[Signature]</i>	08	05	05	18
30	30	MORE SAMEER RAMESH	<i>[Signature]</i>	05	-	04	09
31	31	NESHAD HARIDM SATHI KUMAR	<i>[Signature]</i>	06	-	05	11
32	32	PAIKARAY AHNASHI NARAGHAN	<i>[Signature]</i>	7	04	05	16
33	33	PANDEKAR VIRAJ PANDHARINATHI	<i>[Signature]</i>	05	03	05	13
34	34	PANDEKAR SIDDHANT SUNIL	<i>[Signature]</i>	09	-	05	14
35	35	PARAKI PRANAY YASHIWANT	<i>[Signature]</i>	06	03	05	14
36	36	PAHL PRATIK RAMESH	<i>[Signature]</i>	08	05	05	18
37	37	PAWAR ASHISH MAHENDRA	<i>[Signature]</i>	07	-	04	11
38	38	PAWAR MANAS RAJESH	<i>[Signature]</i>	08	01	05	14
39	39	PAWAR RUSHIKESH SHASHIKANT	<i>[Signature]</i>	06	01	05	12
40	40	PAWASKAR HARISH KRISHNA	<i>[Signature]</i>	07	02	04	13

Absent	01
Present	36
Total	40

[Signature]
Jr. Supervisor Sign
Name Vaibhav Patil

[Signature]
Sr. Supervisor Sign
Name Prof. Anojkumar yadav.





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And Affiliated to University of Mumbai

Academic Year : 2024-2025

Attendance Record

Term Test : II

Date :- 14/10/2024

Time:- 12.00PM - 1.00PM

Sem:- VIIth

Sub :- EDCG

Sr no.	Roll No	Name of Student	Sign	Q.1	Q.2	Q.3	TOTAL
				CO-5	CO-4	CO-6	
				MKS (10)	MKS (5)	MKS (5)	20
1	41	SHINDE RUSHIKESHI DASHIRATHI	<i>Rushika</i>	-	05	05	10
2	42	SHUKLA SURAJ SHYAMDHAR	<i>Suraj</i>	08	0	04	12
3	43	SIDDIQUI NAVED SHAHID AKHTAR	<i>Naved</i>	05	04	03	12
4	44	TATKARI HARSHAD VIJAY	<i>Harshad</i>	08	04	05	17
5	45	THAKUR MIHIR AVINASHI	<i>AB</i>	-	-	-	-
6	46	THAKUR SAHEEL LOCHAN	<i>Saheel</i>	03	-	04	07
7	47	URUMKAR KARTIK SHREEDHAR	<i>Kartik</i>	09	05	05	19
8	48	YADAV SHIVAM VIJAYPRAKASHI	<i>Shivam</i>	07	01	05	13
Absent				01			
Present				07			
Total				08			

Law Jadhav

Jr. Supervisor Sign

Name:- Law Jadhav

Prof. Anojkumar yadav

Sr. Supervisor Sign

Name

Prof. Anojkumar yadav





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Vishnu Waman Thakur Charitable Trust's VIVA Institute of Technology

Shirgaon, Virar(East), Dist: Palghar - 401305, Maharashtra

Telephone: 7770002544, Website: www.viva-technology.org

Department of Electrical Engineering

Internal Assessment Record

SUBJECT: ED&C

Year: BE 2024-25

SEMESTER: VII

Roll No.	Name of Students	Internal Assessment			Quiz	Signature
		IA 1	IA 2	Avg.		
1	BANDRE PRANAY PARSHURAM PALLAVI	18	16	17	10	<i>[Signature]</i>
2	BHOSALE CHETAN SADANAND SHALAN	12	9	11	12	<i>[Signature]</i>
3	BHOSKAR YASH SURESH SANGEETA	15	AB	8	AB	<i>[Signature]</i>
4	DARNULE ARUN KIRAN ANITA	0	16	8	11	<i>[Signature]</i>
5	DHAYALKAR RAHUL SHYAMSUNDER SHO	5	11	8	12	<i>[Signature]</i>
6	DHODARE NIVID SURENDRA	AB	15	8	6	<i>[Signature]</i>
7	DIVEKAR NIKHIL KISAN KIRAN	15	6	11	12	<i>[Signature]</i>
8	FATNAIK ASHISH UDAY	AB	16	8	6	<i>[Signature]</i>
9	GAVALI RAHUL RAMESH RAVINA	19	14	17	11	<i>[Signature]</i>
10	GAWADE PRATIK PANDURANG PRIYANKA	18	19	19	11	<i>[Signature]</i>
11	GAWADE SAMRUDDH SOMA SUKHADA	14	AB	7	AB	<i>[Signature]</i>
12	GAYKAR SHARVESH SHYAM SHYAMALI	12	15	14	12	<i>[Signature]</i>
13	GHORPADE RUSHIKESH R	AB	AB	AB	AB	<i>[Signature]</i>
14	GOTARANE TANAY MAHENDRA MONIKA	12	18	15	12	<i>[Signature]</i>
15	GUPTA OMPRAKASH LALJI PHOOLA	12	10	11	10	<i>[Signature]</i>
16	GURODA KUNAL KRISHNA	7	11	9	10	<i>[Signature]</i>
17	JADHAV OMRAJ SANJAY MADHURI	19	14	17	9	<i>[Signature]</i>
18	JADHAV SURESH ASHOK KANTA	10	13	12	11	<i>[Signature]</i>
19	JOIL ROSHAN SHAMSUNDAR BHAGYASHI	19	18	19	12	<i>[Signature]</i>
20	KARGUTKAR OMKAR VIJAY MEENAL	20	20	20	12	<i>[Signature]</i>
21	KHANDZODE SAHIL GAJANAN ARCHANA	14	6	10	4	<i>[Signature]</i>
22	KIRVE PRATHAMESH MURLIDHAR MADHU	16	18	17	12	<i>[Signature]</i>
23	KUMAR NILESH RAMESH PARVATI	AB	AB	AB	AB	<i>[Signature]</i>
24	KUMAR SANJEEV RAMPAL SUSHMA	8	16	12	9	<i>[Signature]</i>
25	LADE BHAVESH KISHORCHANDRA VANITA	12	15	14	12	<i>[Signature]</i>
26	MANDAVKAR PRATHMESH SURESH SUREI	13	14	14	12	<i>[Signature]</i>
27	MEHTA VISHAL MUKESH KAVITA	17	10	14	9	<i>[Signature]</i>
28	MESTRY VEDANG PRAVIN	13	10	12	11	<i>[Signature]</i>
29	MIRGAL PRASAD UMESH POOJA	17	18	18	11	<i>[Signature]</i>
30	MORE SAMEER RAMESH RESHMA	18	9	14	12	<i>[Signature]</i>
31	NISHAD HARIOM SATISH KUMAR ANITA	13	11	12	10	<i>[Signature]</i>
32	PAIKARAY ABINASH NABAGHAN SUJATA	18	16	17	7	<i>[Signature]</i>
33	PARSEKAR VIRAJ PANDHARINATH MRUNM	10	13	12	12	<i>[Signature]</i>
34	PARULEKAR SIDDHANT SUNIL SONALI	16	14	15	10	<i>[Signature]</i>
35	PATARI PRANAY YASHWANT ANITA	16	14	15	12	<i>[Signature]</i>
36	PATIL PRATIK RAMESH RASHMI	18	18	18	10	<i>[Signature]</i>
37	PAWAR ASHISH MAHENDRA SHUBHANGI	15	11	13	10	<i>[Signature]</i>
38	PAWAR MANAS RAJESH RUTUJA	16	14	15	12	<i>[Signature]</i>





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NAAC "B++" Grade



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VIVA Institute of Technology

Shirgaon, Virar(East), Dist: Palghar - 401305, Maharashtra

Telephone: 7770002544, Website- www.viva-technology.org

Department of Electrical Engineering

Internal Assessment Record

Year: BE 2024-25

SUBJECT: ED&C
SEMESTER: VII

Roll No.	Name of Students	Internal Assessment			Quiz	Signature
		IA 1	IA 2	Avg.		
39	PAWAR RUSHIKESH SHASHIKANT MEENA	14	12	13	12	<i>Pfuse</i>
40	PAWASKAR HARESH KRISHNA KESHARI	8	13	11	12	<i>Hareesh</i>
41	SHINDE RUSHIKESH DASHRATH DIPTI	8	10	9	12	<i>Rushikesh</i>
42	SHUKLA SURAJ SHYAMDHAR AARTI	15	12	14	12	<i>Suraj</i>
43	SIDDIQUI NAVED SHAHID AKHTAR NASRI	17	12	15	10	<i>Naved</i>
44	TATKARI HARSHAD VIJAY VIJAYA	16	17	17	9	<i>Harshad</i>
45	THAKUR MIHIR AVINASH AKANKSHA	17	AB	9	AB	<i>AB</i>
46	THAKUR SAHEEL LOCHAN LEENA	19	7	13	12	<i>S. Saheel</i>
47	URUMKAR KARTIK SHREEDHAR SHRADD	16	19	18	12	<i>Kartik</i>
48	YADAV SHIVAM VIJAYPRAKASH HIRAVATI	11	13	12	12	<i>Shivam</i>

Reema Gupta

Prof. Reema Gupta
Subject In-charge





Vishnu Waman Thakur Charitable Trust's VIVA Institute of Technology

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NAAC "B++" Grade

VISHNU WAMAN THAKUR CHARITABLE TRUST'S
VIVA INSTITUTE OF TECHNOLOGY
Shirgaon, Virar (E), Taluka-Vasai, District-Palghar, 401305, Maharashtra
Telephone: 7770002544 website- www.viva-technology.org
Department of Electrical Engineering
MAIN TERMWORK SHEET AY 2024-25



Signature
Prof. Reema Gupta

R. N. S. No.	NAME OF THE STUDENT	Quiz												CO MAPPING TERM TEST										TERM TEST			DEFAULTER				SIGN
		Quiz 1		Quiz 2		Quiz 3		Quiz 4		Quiz 5		Quiz 6		TOTAL		TEST1	TEST2	TEST3	AVG	DEF1	DEF2	DEF3	DEF4	%	%	%	%				
		Mk	Mk	Q1	Q2													Q3	Q4	Q5											
91	BANDRE PRANAY PARSHURAM PALL	2	2	0	2	2	2	2	2	2	2	2	2	2	10	5	3	8	4	4	18	16	17	0	24	37	37	<i>Bandre</i>			
92	BHOSALE CHETAN SADANAND SHAI	2	2	2	2	2	2	2	2	2	2	2	2	2	12	7	4	1	3	5	12	9	11	40	71	80	82	<i>Bhosale</i>			
93	BHOSKAR YASH SURESH SANGEETA	AB	AB	AB	AB	10	5	-	AB	AB	AB	15	AB	8	80	62	57	29	AB												
94	DAKNULE ARUN KIRAN ANITA	2	2	2	2	2	2	2	2	2	2	2	2	2	11	-	0	8	3	5	0	16	8	0	5	23	13	0	<i>Daknule</i>		
95	DEVAJALKAR RAHUL SHIVAM SUNDAR	2	2	2	2	2	2	2	2	2	2	2	2	2	12	1	2	2	6	-	5	11	8	69	33	56	39	<i>Deva</i>			
96	DHODARE NITYA SURENDRA	1	1	1	1	1	1	1	1	1	1	1	1	1	6	AB	AB	AB	10	-	5	AB	15	8	0	10	23	13	0	<i>Dhodare</i>	
97	DIVEKAR NIKHIL KISAN KIRAN	2	2	2	2	2	2	2	2	2	2	2	2	2	12	6	4	5	1	-	5	15	6	11	50	43	47	47	<i>Divekar</i>		
98	FATNAIK ASHISH UDAY	0	2	2	1	1	0	6	AB	AB	AB	7	4	5	AB	AB	AB	7	4	5	AB	16	8	0	5	0	16	0	<i>Fatnaik</i>		
99	GAWALI RAHUL RAMESH RAVINA	2	2	1	2	2	2	2	2	2	2	2	2	2	11	10	5	4	10	-	4	19	14	17	40	71	60	84	<i>Gawali</i>		
10	GAWDE PRATIK PANDURANG PRITYA	2	2	2	1	2	2	2	2	2	2	2	2	2	11	10	3	5	10	4	5	18	19	19	100	90	73	95	<i>Gawde</i>		
11	GAWDE SAMRUDDH SOMA SURESH	AB	AB	AB	AB	10	1	3	AB	AB	AB	14	AB	7	96	86	73	47	AB												
12	GATKAR SHARVESH SHIVAM SHIVAM	2	2	2	2	2	2	2	2	2	2	2	2	2	12	4	4	4	7	3	5	12	15	14	20	19	30	55	<i>Gatkar</i>		
13	GHORPADE RUSHIKESH R	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	0	0	0	0	0	AB											
14	GOKARANE TANAY MAHENDRA MON	2	2	2	2	2	2	2	2	2	2	2	2	2	12	7	-	5	9	5	4	12	18	15	58	52	63	74	<i>Gokarane</i>		
15	GUPTA OMPRAKASH LALJI PHOOLA	2	0	2	2	2	2	2	2	2	2	2	2	2	10	2	5	5	5	-	5	12	10	11	0	19	40	24	0	<i>Gupta</i>	
16	GURDADA KUNAL KUSHINA	2	2	1	2	2	2	2	2	2	2	2	2	2	10	3	4	-	6	-	5	7	11	9	0	5	0	5	<i>Gurdate</i>		
17	JADHAV OMRAJ SANJAY MADHURI	1	2	1	2	1	2	1	2	1	2	1	2	1	9	10	5	4	9	-	5	19	14	17	20	33	45	42	<i>Jadhav</i>		
18	JADHAV SURESH ASHOK KANTA	2	2	1	2	2	2	2	2	2	2	2	2	2	11	5	3	2	7	1	5	10	13	12	30	19	27	24	<i>Jadhav</i>		
19	JOIL ROSHAN SHAMSUNNAR BHAGY	2	2	2	2	2	2	2	2	2	2	2	2	2	12	9	5	5	8	5	5	19	18	19	80	40	41	95	<i>Joil</i>		
20	KARGUTKAR OMIKAS VITAY MEENA	2	2	2	2	2	2	2	2	2	2	2	2	2	12	10	5	5	10	5	5	20	20	20	60	60	60	60	0	<i>Kargutkar</i>	



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Shingon, Vnar (E), Taluka-Vasai, District-Palghar, 401305, Maharashtra
Telephone: 7770002544 website- www.viva-technology.org
Department of Electrical Engineering



MAIN TERMINAL SHEET AY 2024-25

Prof. Recma Gupta

SUBJECT: ED&C

SEM:- VII

R. N. NAME OF THE STUDENT	Quiz										TOTAL	CO MAPPING TERM TEST										TERM TEST			DEFAULTER				SIGN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	Quiz 1		Quiz 2		Quiz 3		Quiz 4		Quiz 5			Quiz 6		CO1	CO2	CO3	CO4	CO5	CO6	TEST1	TEST2	TEST3	TEST4	TEST5	TEST6	TEST7	TEST8	TEST9		TEST10	TEST11	TEST12	TEST13	TEST14	TEST15	TEST16	TEST17	TEST18	TEST19	TEST20	TEST21	TEST22	TEST23	TEST24	TEST25	TEST26	TEST27	TEST28	TEST29	TEST30	TEST31	TEST32	TEST33	TEST34	TEST35	TEST36	TEST37	TEST38	TEST39	TEST40	TEST41	TEST42	TEST43	TEST44	TEST45	TEST46	TEST47	TEST48	TEST49	TEST50	TEST51	TEST52	TEST53	TEST54	TEST55	TEST56	TEST57	TEST58	TEST59	TEST60	TEST61	TEST62	TEST63	TEST64	TEST65	TEST66	TEST67	TEST68	TEST69	TEST70	TEST71	TEST72	TEST73	TEST74	TEST75	TEST76	TEST77	TEST78	TEST79	TEST80	TEST81	TEST82	TEST83	TEST84	TEST85	TEST86	TEST87	TEST88	TEST89	TEST90	TEST91	TEST92	TEST93	TEST94	TEST95	TEST96	TEST97	TEST98	TEST99	TEST100	TEST101	TEST102	TEST103	TEST104	TEST105	TEST106	TEST107	TEST108	TEST109	TEST110	TEST111	TEST112	TEST113	TEST114	TEST115	TEST116	TEST117	TEST118	TEST119	TEST120	TEST121	TEST122	TEST123	TEST124	TEST125	TEST126	TEST127	TEST128	TEST129	TEST130	TEST131	TEST132	TEST133	TEST134	TEST135	TEST136	TEST137	TEST138	TEST139	TEST140	TEST141	TEST142	TEST143	TEST144	TEST145	TEST146	TEST147	TEST148	TEST149	TEST150	TEST151	TEST152	TEST153	TEST154	TEST155	TEST156	TEST157	TEST158	TEST159	TEST160	TEST161	TEST162	TEST163	TEST164	TEST165	TEST166	TEST167	TEST168	TEST169	TEST170	TEST171	TEST172	TEST173	TEST174	TEST175	TEST176	TEST177	TEST178	TEST179	TEST180	TEST181	TEST182	TEST183	TEST184	TEST185	TEST186	TEST187	TEST188	TEST189	TEST190	TEST191	TEST192	TEST193	TEST194	TEST195	TEST196	TEST197	TEST198	TEST199	TEST200	TEST201	TEST202	TEST203	TEST204	TEST205	TEST206	TEST207	TEST208	TEST209	TEST210	TEST211	TEST212	TEST213	TEST214	TEST215	TEST216	TEST217	TEST218	TEST219	TEST220	TEST221	TEST222	TEST223	TEST224	TEST225	TEST226	TEST227	TEST228	TEST229	TEST230	TEST231	TEST232	TEST233	TEST234	TEST235	TEST236	TEST237	TEST238	TEST239	TEST240	TEST241	TEST242	TEST243	TEST244	TEST245	TEST246	TEST247	TEST248	TEST249	TEST250	TEST251	TEST252	TEST253	TEST254	TEST255	TEST256	TEST257	TEST258	TEST259	TEST260	TEST261	TEST262	TEST263	TEST264	TEST265	TEST266	TEST267	TEST268	TEST269	TEST270	TEST271	TEST272	TEST273	TEST274	TEST275	TEST276	TEST277	TEST278	TEST279	TEST280	TEST281	TEST282	TEST283	TEST284	TEST285	TEST286	TEST287	TEST288	TEST289	TEST290	TEST291	TEST292	TEST293	TEST294	TEST295	TEST296	TEST297	TEST298	TEST299	TEST300	TEST301	TEST302	TEST303	TEST304	TEST305	TEST306	TEST307	TEST308	TEST309	TEST310	TEST311	TEST312	TEST313	TEST314	TEST315	TEST316	TEST317	TEST318	TEST319	TEST320	TEST321	TEST322	TEST323	TEST324	TEST325	TEST326	TEST327	TEST328	TEST329	TEST330	TEST331	TEST332	TEST333	TEST334	TEST335	TEST336	TEST337	TEST338	TEST339	TEST340	TEST341	TEST342	TEST343	TEST344	TEST345	TEST346	TEST347	TEST348	TEST349	TEST350	TEST351	TEST352	TEST353	TEST354	TEST355	TEST356	TEST357	TEST358	TEST359	TEST360	TEST361	TEST362	TEST363	TEST364	TEST365	TEST366	TEST367	TEST368	TEST369	TEST370	TEST371	TEST372	TEST373	TEST374	TEST375	TEST376	TEST377	TEST378	TEST379	TEST380	TEST381	TEST382	TEST383	TEST384	TEST385	TEST386	TEST387	TEST388	TEST389	TEST390	TEST391	TEST392	TEST393	TEST394	TEST395	TEST396	TEST397	TEST398	TEST399	TEST400	TEST401	TEST402	TEST403	TEST404	TEST405	TEST406	TEST407	TEST408	TEST409	TEST410	TEST411	TEST412	TEST413	TEST414	TEST415	TEST416	TEST417	TEST418	TEST419	TEST420	TEST421	TEST422	TEST423	TEST424	TEST425	TEST426	TEST427	TEST428	TEST429	TEST430	TEST431	TEST432	TEST433	TEST434	TEST435	TEST436	TEST437	TEST438	TEST439	TEST440	TEST441	TEST442	TEST443	TEST444	TEST445	TEST446	TEST447	TEST448	TEST449	TEST450	TEST451	TEST452	TEST453	TEST454	TEST455	TEST456	TEST457	TEST458	TEST459	TEST460	TEST461	TEST462	TEST463	TEST464	TEST465	TEST466	TEST467	TEST468	TEST469	TEST470	TEST471	TEST472	TEST473	TEST474	TEST475	TEST476	TEST477	TEST478	TEST479	TEST480	TEST481	TEST482	TEST483	TEST484	TEST485	TEST486	TEST487	TEST488	TEST489	TEST490	TEST491	TEST492	TEST493	TEST494	TEST495	TEST496	TEST497	TEST498	TEST499	TEST500	TEST501	TEST502	TEST503	TEST504	TEST505	TEST506	TEST507	TEST508	TEST509	TEST510	TEST511	TEST512	TEST513	TEST514	TEST515	TEST516	TEST517	TEST518	TEST519	TEST520	TEST521	TEST522	TEST523	TEST524	TEST525	TEST526	TEST527	TEST528	TEST529	TEST530	TEST531	TEST532	TEST533	TEST534	TEST535	TEST536	TEST537	TEST538	TEST539	TEST540	TEST541	TEST542	TEST543	TEST544	TEST545	TEST546	TEST547	TEST548	TEST549	TEST550	TEST551	TEST552	TEST553	TEST554	TEST555	TEST556	TEST557	TEST558	TEST559	TEST560	TEST561	TEST562	TEST563	TEST564	TEST565	TEST566	TEST567	TEST568	TEST569	TEST570	TEST571	TEST572	TEST573	TEST574	TEST575	TEST576	TEST577	TEST578	TEST579	TEST580	TEST581	TEST582	TEST583	TEST584	TEST585	TEST586	TEST587	TEST588	TEST589	TEST590	TEST591	TEST592	TEST593	TEST594	TEST595	TEST596	TEST597	TEST598	TEST599	TEST600	TEST601	TEST602	TEST603	TEST604	TEST605	TEST606	TEST607	TEST608	TEST609	TEST610	TEST611	TEST612	TEST613	TEST614	TEST615	TEST616	TEST617	TEST618	TEST619	TEST620	TEST621	TEST622	TEST623	TEST624	TEST625	TEST626	TEST627	TEST628	TEST629	TEST630	TEST631	TEST632	TEST633	TEST634	TEST635	TEST636	TEST637	TEST638	TEST639	TEST640	TEST641	TEST642	TEST643	TEST644	TEST645	TEST646	TEST647	TEST648	TEST649	TEST650	TEST651	TEST652	TEST653	TEST654	TEST655	TEST656	TEST657	TEST658	TEST659	TEST660	TEST661	TEST662	TEST663	TEST664	TEST665	TEST666	TEST667	TEST668	TEST669	TEST670	TEST671	TEST672	TEST673	TEST674	TEST675	TEST676	TEST677	TEST678	TEST679	TEST680	TEST681	TEST682	TEST683	TEST684	TEST685	TEST686	TEST687	TEST688	TEST689	TEST690	TEST691	TEST692	TEST693	TEST694	TEST695	TEST696	TEST697	TEST698	TEST699	TEST700	TEST701	TEST702	TEST703	TEST704	TEST705	TEST706	TEST707	TEST708	TEST709	TEST710	TEST711	TEST712	TEST713	TEST714	TEST715	TEST716	TEST717	TEST718	TEST719	TEST720	TEST721	TEST722	TEST723	TEST724	TEST725	TEST726	TEST727	TEST728	TEST729	TEST730	TEST731	TEST732	TEST733	TEST734	TEST735	TEST736	TEST737	TEST738	TEST739	TEST740	TEST741	TEST742	TEST743	TEST744	TEST745	TEST746	TEST747	TEST748	TEST749	TEST750	TEST751	TEST752	TEST753	TEST754	TEST755	TEST756	TEST757	TEST758	TEST759	TEST760	TEST761	TEST762	TEST763	TEST764	TEST765	TEST766	TEST767	TEST768	TEST769	TEST770	TEST771	TEST772	TEST773	TEST774	TEST775	TEST776	TEST777	TEST778	TEST779	TEST780	TEST781	TEST782	TEST783	TEST784	TEST785	TEST786	TEST787	TEST788	TEST789	TEST790	TEST791	TEST792	TEST793	TEST794	TEST795	TEST796	TEST797	TEST798	TEST799	TEST800	TEST801	TEST802	TEST803	TEST804	TEST805	TEST806	TEST807	TEST808	TEST809	TEST810	TEST811	TEST812	TEST813	TEST814	TEST815	TEST816	TEST817	TEST818	TEST819	TEST820	TEST821	TEST822	TEST823	TEST824	TEST825	TEST826	TEST827	TEST828	TEST829	TEST830	TEST831	TEST832	TEST833	TEST834	TEST835	TEST836	TEST837	TEST838	TEST839	TEST840	TEST841	TEST842	TEST843	TEST844	TEST845	TEST846	TEST847	TEST848	TEST849	TEST850	TEST851	TEST852	TEST853	TEST854	TEST855	TEST856	TEST857	TEST858	TEST859	TEST860	TEST861	TEST862	TEST863	TEST864	TEST865	TEST866	TEST867	TEST868	TEST869	TEST870	TEST871	TEST872	TEST873	TEST874	TEST875	TEST876	TEST877	TEST878	TEST879	TEST880	TEST881	TEST882	TEST883	TEST884	TEST885	TEST886	TEST887	TEST888	TEST889	TEST890	TEST891	TEST892	TEST893	TEST894	TEST895	TEST



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Department of Electrical Engineering

INTERNAL ASSESSMENT EVALUATION

SUBJECT:- ED&C

BE SEM VII AY 2024-25

Record of CO attainment (CO - A)

UNIT TEST - I

CO	CO 1	CO 2	CO 3	CO 4	CO 5	CO 6
Question No						
Q 1 A	10	--	--	--	--	--
Q 1 B	10	--	--	--	--	--
Q 2 A	--	5	--	--	--	--
Q 2 B	--	5	--	--	--	--
Q 3 A	--	--	5	--	--	--
Q 3 B	--	--	5	--	--	--

UNIT TEST - II

CO	CO 1	CO 2	CO 3	CO 4	CO 5	CO 6
Question No						
Q 1 A	--	--	--	--	10	--
Q 1 B	--	--	--	--	10	--
Q 2 A	--	--	--	5	--	--
Q 2 B	--	--	--	5	--	--
Q 3 A	--	--	--	--	--	5
Q 3 B	--	--	--	--	--	5

EVALUATION

Total number of students:	UNIT TEST - I	UNIT TEST - II
Marks < 40% (8)	41	41
40 % (8) ≤ Marks < 60% (12)	6	10
60 % (12) ≤ Marks < 80% (16)	15	16
80 % (16) ≤ Marks ≤ 100% (20)	20	14





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Department of Electrical Engineering

University Question Paper Mapping and Analysis

SUBJECT:- ED&C

BE SEM VII AY 2024-

Record of CO attainment (CO-A) and CO mapping (CO-M)

Question	CO1	CO2	CO3	CO4	CO5	CO6
Q.1 A			5			
Q.1 B		5				
Q.1 C					5	
Q.1 D						5
Q.2 A					10	
Q.2 B	10					
Q.3 A						10
Q.3 B		10				
Q.4 A			10			
Q.4 B				10		
Q.5 A	10					
Q.5 B					10	
Q.6 A						10
Q.6 B					10	

Particulars	Previous year	Current year
Number of Students Appeared	58	43
Number of Students Passed	47	41
Number of Students Failed	10	2
Percentage of Result	81	95
Maximum Marks obtained by student	48	77
Minimum Marks obtained by student	7	30
Number of students with marks greater than 48	0	28
Number of students with marks between 32 and 47	23	13

Gupta





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Telephone: 777002544 website: www.viva-technology.org

Department of Electrical Engineering

Report of Counseling with Fast Learner

Name of the Counselor:- Prof. Reema Gupta

Class/ semester, Academic year :- BE SEM VII 2024-25

Name of the subject in which student identified as Fast learner:- ED&C

Name of the event used to identify fast learners:- Unit test

Tasks assigned to fast Learner:- Solve University question paper

Sr No.	Name of Student	Marks
1	KARGUTKAR OMKAR	20
2	GAVALI RAHUL	19
3	JADHAV OMRAJ	19
4	JOIL ROSHAN	19
5	THAKUR SAHEEL	19
6	BANDRE PRANAY	18
7	GAWADE PRATIK	18
8	MORE SAMEER	18
9	PAIKARAY ABINASH	18
10	PATIL PRATIK	18

Prof. Reema Gupta
Subject In-charge





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Department of Electrical Engineering
Report on counseling with Slow Learner

Name of the Coneselor: Prof. Reema Gupta
Name of Student :- *Jadhav Supesh*
Roll No, Class / Semester, Academic year : *8* | BE, Semester VII , Academic year 2024-25
Name of the subject in which identified as slow learner:- ED&C
Name of the event used to identify slow learners :- Unit test -1
Date of counseling:- *28* | *8* | *24*
Student remark:- *Due to some personal reasons*
Suggestive remark of coneselor:- *Neep more preparation*

Jadhav
Signature of Student

Reema
Signature of Counselor

Department of Electrical Engineering
Report on counseling with Slow Learner

Name of the Coneselor: Prof. Reema Gupta
Name of Student :- *Kumar Sanjeev*
Roll No, Class / Semester, Academic year : *24* | BE, Semester VII , Academic year 2024-25
Name of the subject in which identified as slow learner:- ED&C
Name of the event used to identify slow learners :- Unit test -1
Date of counseling:- *28* | *8* | *24*
Student remark:- *ED&C is hard subject*
Suggestive remark of coneselor:- *solve university papers, make study Time table*

Kumar
Signature of Student

Reema
Signature of Counselor

Department of Electrical Engineering
Report on counseling with Slow Learner

Name of the Coneselor: Prof. Reema Gupta
Name of Student :- *Passekar Viraj*
Roll No, Class / Semester, Academic year : *33* | BE, Semester VII , Academic year 2024-25
Name of the subject in which identified as slow learner:- ED&C
Name of the event used to identify slow learners :- Unit test -2
Date of counseling:- *8* | *9* | *24*
Student remark:- *Due to some reason unable to cover whole chapter*
Suggestive remark of coneselor:- *Make time table & Studely follow it*

Viraj
Signature of Student

Reema
Signature of Counselor





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Department of Electrical Engineering
Report on counseling with Slow Learner

Name of the Counselor: Prof. Reema Gupta
Name of Student :- Darnule Anun
Roll No, Class / Semester, Academic year : 4/BE ,Semester VII , Academic year 2024-25
Name of the subject in which identified as slow learner:- ED&C
Name of the event used to identify slow learners :- Unit test-I
Date of counseling:- 4/09/24
Student remark:- Job student; did not get time to study.
Suggestive remark of counselor:- follow class notes & start study

Anun
Signature of Student

Gupta
Signature of Counselor

Department of Electrical Engineering
Report on counseling with Slow Learner

Name of the Counselor: Prof. Reema Gupta
Name of Student :- Dhayalkar Rahul
Roll No, Class / Semester, Academic year : 5/BE ,Semester VII , Academic year 2024-25
Name of the subject in which identified as slow learner:- ED&C
Name of the event used to identify slow learners :- Unit test-I
Date of counseling:- 5/9/24
Student remark:- health issue
Suggestive remark of counselor:- Focus for UT- II

Rahul
Signature of Student

Gupta
Signature of Counselor

Department of Electrical Engineering
Report on counseling with Slow Learner

Name of the Counselor: Prof. Reema Gupta
Name of Student :- Guruda Kunal
Roll No, Class / Semester, Academic year : 16/BE ,Semester VII , Academic year 2024-25
Name of the subject in which identified as slow learner:- ED&C
Name of the event used to identify slow learners :- Unit test -I
Date of counseling:- 03/10/24
Student remark:- Due to some personal reasons unable to do prepare for UT
Suggestive remark of counselor:- Start solving university paper for UT- II

Kguruda
Signature of Student

Gupta





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Department of Electrical Engineering
Report on counseling with Slow Learner

Name of the Counselor: Prof. Reema Gupta

Name of Student :- *Pautaskar Haresh*

Roll No, Class / Semester, Academic year : *40|BE, Semester VII , Academic year 2024-25*

Name of the subject in which identified as slow learner:- ED&C

Name of the event used to identify slow learners :- Unit test -I

Date of counseling:- *5/9/24*

Student remark:- *Due to short duration memory, unable to write in exam*

Suggestive remark of counselor:- *Prepare notes (own), Solve que. paper.*

[Signature]
Signature of Student

[Signature]
Signature of Counselor

Department of Electrical Engineering
Report on counseling with Slow Learner

Name of the Counselor: Prof. Reema Gupta

Name of Student :- *Shinde Rushikesh*

Roll No, Class / Semester, Academic year : *41|BE, Semester VII , Academic year 2024-25*

Name of the subject in which identified as slow learner:- ED&C

Name of the event used to identify slow learners :- Unit test -I

Date of counseling:- *5/9/24*

Student remark:- *Some family reasons, did not prepare*

Suggestive remark of counselor:- *Daily prepare notes (inr study)*

[Signature]
Signature of Student

[Signature]
Signature of Counselor

Department of Electrical Engineering
Report on counseling with Slow Learner

Name of the Counselor: Prof. Reema Gupta

Name of Student :-

Roll No, Class / Semester, Academic year : _____, Semester VII , Academic year 2024-25

Name of the subject in which identified as slow learner:- ED&C

Name of the event used to identify slow learners :- Unit test

Date of counseling:-

Student remark:-

Suggestive remark of counselor:-

Signature of Student

Signature of Counselor





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Tel: (0250)2026229, (0250)6454745. Telefax: (0250)2515275. Website: www.viva-technology.org

DEPARTMENT OF ELECTRICAL ENGINEERING

SEMESTER	VII	CLASS	BE
COURSE NO.	EEC702	Academic year	2024-25
COURSE NAME	Electrical Drives and Control		
NAME OF FACULTY	Prof. Reema Gupta		

COURSE OBJECTIVE

CEO1: To impart knowledge on basic concept of DC and AC drives, various speed control techniques involved with both DC and AC drives and advanced speed control techniques using power electronic converter used in industry.

PROGRAM OUTCOMES

PO1: Engineering Knowledge: apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

PO2: Problem Analysis: identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design & Development of Solutions: design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct Investigation of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.

PO5: Modern Tools Usage: create, select and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: The Engineer and Society: apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment & Sustainability: understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

PO9: Individual & Team work: function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.





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DEPARTMENT OF ELECTRICAL ENGINEERING

PO10: Communication: communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management & Finance: demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life-long Learning: recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES

PSO1: The ability to analyze, design and simulate electrical system and implement them in various application.

PSO2: The ability to apply engineering knowledge, technical skill and solution of complex problem in various field of electrical engineering.

COURSE OUTCOMES

At the end of the course student will be able to:		PO	PSO	Bloom level
EEC702.1	To understand the dynamics of electrical drive.	PO1	PSO 1	Understanding
EEC702.2	To understand the motor power rating calculation for a specific application for reliable operation.	PO1, PO2	PSO 1	Understanding
EEC702.3	To understand the modes of operation and close loop control of electrical drive.	PO1, PO3	PSO 1	Applying
EEC702.4	To analyse the speed control of DC drives in an energy efficient manner using power electronics.	PO1, PO2	PSO 2	Applying
EEC702.5	To analyse the speed control of induction motor drive using various methods.	PO1, PO2, PO3	PSO 2	Analyzing
EEC702.6	To learn the advance control techniques for AC drives.	PO1	PSO 1	Understanding





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DEPARTMENT OF ELECTRICAL ENGINEERING

MAPPING OF COURSE MODULES WITH COURSE OUTCOMES

COURSE MODULES	COURSE OUTCOMES					
	EEC702.1	EEC702.2	EEC702.3	EEC702.4	EEC702.5	EEC702.6
Electrical Drives: Introduction & Dynamics	3	--	--	--	--	--
Selection of Motor Power Rating	--	3	--	--	--	--
Control of Electrical Drives	--	--	3	--	--	--
DC Drives	--	--	--	3	--	--
AC Drives	--	--	--	--	3	--
Advanced control techniques	--	--	--	--	--	3

Enter correlation level 1, 2 or 3 as defined below

1: Slight (low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation put "--".

MAPPING OF COURSE MODULES WITH COURSE OUTCOMES

COURSE OUTCOME	PROGRAM OUTCOME												PSO	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
EEC702.1	3	--	--	--	--	--	--	--	--	--	--	--	3	--
EEC702.2	3	3	--	--	--	--	--	--	--	--	--	--	3	--
EEC702.3	3	--	2	--	--	--	--	--	--	--	--	--	3	--
EEC702.4	3	3	--	--	--	--	--	--	--	--	--	--	--	3
EEC702.5	3	3	2	--	--	--	--	--	--	--	--	--	--	3
EEC702.6	3	--	--	--	--	--	--	--	--	--	--	--	--	3

Modes of content delivery:

CONTENT DELIVERY

i.	Class room teaching	v.	Slides/Handouts/Notes
ii.	Tutorial	vi.	Simulations/Demonstrations
iii.	Lab experiment	vii.	Seminar
iv.	Self-learning Online Resources	viii.	--





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DEPARTMENT OF ELECTRICAL ENGINEERING

MAPPING COURSE OUTCOMES WITH CONTENT DELIVERY

Course Outcome	Modes of content delivery							
	i	ii	iii	iv	v	vi	vii	viii
EEC702.1	3	--	3	--	2	--	--	--
EEC702.2	3	--	3	--	2	--	--	--
EEC702.3	3	--	3	--	2	--	--	--
EEC702.4	3	--	3	--	2	--	--	--
EEC702.5	3	--	3	--	2	--	--	--
EEC702.6	3	--	3	--	2	--	--	--

ASSESSMENT TOOLS

COURSE OUTCOME	Direct Assessment Tools		Indirect Assessment Tools
	TOOL USED	Maximum Marks	
EEC702.1	Term Test – I	10	Course Exit Survey
EEC702.2	Term Test – I	5	
EEC702.3	Term Test – I	5	
EEC702.4	Term Test – II	5	
EEC702.5	Term Test – II	10	
EEC702.6	Term Test – II	5	
All course outcome	University Examination	80	

PERFORMANCE INDICATORS FOR ASSESSING COURSE OUTCOMES WITH ASSIGNMENT ASSESSMENT TOOLS

PERFORMANCE INDICATOR	Exceed Expectations (EE) (10)	Meet Expectations (ME) (7)	Below Expectations (BE) (4)
Assignment Completeness	The entire assignment was completed before deadline specified	The assignment was completed on deadline.	Partial/late submission of assignment.
Demonstrated Knowledge	Shows complete understanding of the questions, mathematical ideas and processes.	Shows considerable understanding of the problem, ideas, and processes.	Response shows a complete lack of understanding for the problem.





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Legibility	Very neat. Writing illustrates a lot of thought and preparation.	Mostly neat and legible. Writing illustrates some	Not legible. Hard to read. Ideas expressed are
------------	--	--	---

QUALITY OF EVALUATION

	Learning Level					
	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating
Term test	3	3	2	--	--	--
Assignment	3	3	--	--	--	--
Tutorials	--	--	--	--	--	--
Average	3	3	2	--	--	--

Enter correlation level 1,2 or 3 as defined below

1: Slight (low) 72: Moderate (Medium) 73: Substantial (High)

If there is no correlation put "--".

TARGET ATTAINMENT LEVEL

CO Attainment method	Attainment Level		
	1	2	3
University Examinations	40% student scoring more than 60% marks in the final examination	60% student scoring more than 60% marks in the final examination	Above 60% student scoring more than 60% marks in the final examination
Internal Assessment	50% students score more than class average in the internal assessment	51%- 70% students score more than class average in the internal assessment	71% students score more than class average in the internal assessment
Course exit survey	50% weightage average in course exit analysis	51%-70% weightage average in course exit analysis	Above 71% weightage average in course exit analysis





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ATTAINMENT OF COURSE OUTCOMES THROUGH INTERNAL ASSESSMENT

Course Outcome	Direct Assessment			Indirect Assessment
	TT1	TT2	AVG	
EEC702.1	46	--	46	81
EEC702.2	58	--	58	67
EEC702.3	69	--	69	81
EEC702.4	--	69	69	73
EEC702.5	--	77	77	77
EEC702.6	--	71	71	75

CONTRIBUTION TO PROGRAM OUTCOME

Course Outcome	PO	PSO	External Assessment			Internal Assessment			Overall Attainment (0.8X1+0.2X2) Y1
			Target level	%	Attainment Level X1	Target level	%	t Level X2	
EEC702.1	PO1	PSO 1	3	95	3	3	81	3	3
EEC702.2	PO1, PO2	PSO 1	3			3	67	2	2.8
EEC702.3	PO1, PO3	PSO 1	2.66			2.66	81	3	3
EEC702.4	PO1, PO2	PSO 2	3			3	73	3	3
EEC702.5	PO1, PO2, PO3	PSO 2	2.75			2.75	77	3	3
EEC702.6	PO1	PSO 2	3			3	75	3	3





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COURSE OUTCOME	PROGRAM OUTCOME												PSO	
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
TARGET	3	3	2	--	--	--	--	--	--	--	--	--	3	3
Direct attainment Y1	2.9	2.9	3	--	--	--	--	--	--	--	--	--	2.9	3
Indirect Attainment Y2	2.9	2.9	3	--	--	--	--	--	--	--	--	--	2.9	3
Overall attainment (0.8Y1+0.2Y2)	2.9	2.9	3	--	--	--	--	--	--	--	--	--	2.9	3

OBSERVATION AND ACTION TAKEN

EEC702.1, PO1	TARGET LEVEL	3
	ATTAINMENT LEVEL	2.9
	OBSERVATION	Students are able to To understand the dynamics of electrical drive
	ACTION	More online resources should be provided.
EEC702.2, PO1, PO2	TARGET LEVEL	3
	ATTAINMENT LEVEL	2.9
	OBSERVATION	Students are able to To understand the motor power rating calculation for a specific application for reliable operation.
	ACTION	Need to increase level
EEC702.3, PO1, PO3	TARGET LEVEL	3
	ATTAINMENT LEVEL	3
	OBSERVATION	Students are able to To understand the modes of operation and close loop control of electrical drive.
	ACTION	Need to increase level
EEC702.4, PO1, PO2	TARGET LEVEL	3
	ATTAINMENT LEVEL	2.9
	OBSERVATION	Students are able to To analyze the speed control of DC drives in an energy efficient manner using power electronics.
	ACTION	Need to explain the same process during industrial visit.
EEC702.5, PO1, PO2, PO3	TARGET LEVEL	2.9
	ATTAINMENT LEVEL	2.8
	OBSERVATION	Students are able to To analyses the speed control of induction motor drive using various methods.
	ACTION	More online resources should be provided.





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EEC702.6, PO1	TARGET LEVEL	3
	ATTAINMENT LEVEL	2.9
	OBSERVATION	Students are able to To learn the advance control techniques for AC drives.
	ACTION	Need to increase level

OBSERVATION AND ACTION TAKEN

EEC702.1, PSO 1	TARGET LEVEL	3
	ATTAINMENT LEVEL	2.9
	OBSERVATION	Students are able to identify and describe present state of energy security and its importance.
	ACTION	More online resources should be provided.
EEC702.2, PSO1	TARGET LEVEL	3
	ATTAINMENT LEVEL	2.9
	OBSERVATION	Students are able to To identify and describe the basic principles and methodologies adopted in energy audit of an utility.
	ACTION	Need to increase level
EEC702.3, PSO1	TARGET LEVEL	3
	ATTAINMENT LEVEL	2.9
	OBSERVATION	Students are able to to describe the energy performance evaluation of some common electrical installations and identify the energy saving opportunities.
	ACTION	Need to increase level
EEC702.4, PSO2	TARGET LEVEL	3
	ATTAINMENT LEVEL	3
	OBSERVATION	Students are able to To describe the energy performance evaluation of some common thermal installations and identify the energy saving opportunities
	ACTION	Need to explain the same process during industrial visit.
EEC702.5, PSO2	TARGET LEVEL	3
	ATTAINMENT LEVEL	3
	OBSERVATION	Students are able to To analyze the data collected during performance evaluation and recommend energy saving measures
	ACTION	More online resources should be provided.





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EEC702.6, PSO2	TARGET LEVEL	3
	ATTAINMENT LEVEL	3
	OBSERVATION	Students are able to To analyze the data collected during performance evaluation and recommend energy saving measures for green buildings.
	ACTION	Need to increase level

Sign of faculty

Sign of H.O.D

