Late Shri. Vishnu Waman Thakur Charitable Trust's
VIVA INSTITUTE OF TECHNOLOGY
(Approved by AICTE, New Delhi, DTE, Govt. of Maharashtra and Affiliated to the University of Mumbai)
Computer Engineering Department

BOOTSTRAP

2017-18

THE NEWSLETTER OF COMPUTER ENGINEERING DEPARTMENT

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EDITOR: Computer Engineering Department Publication Team

The computer engineering department was established in 2009. The department offers regular undergraduate program in "Computer Engineering" having intake of 60.

Our vision is to develop competent citizens who will be valuable contributors in the field of technology and science. And, our mission is to create an environment which will stimulate research, creativity and innovation and to provide students with comprehensive knowledge of the latest developments in Computer Engineering.

The department has young dynamic, qualified teaching and non-teaching faculties with well-equipped laboratories. The teaching faculties are actively involved and also encourage students in research and publishing papers in reputed journals and conferences. The faculty and students have presented and published research papers in reputed conferences and journals like IEEE, IJCA, NCRENB, etc.

The department has taken conscious efforts to keep the faculty and students up to date with the change in the technologies and tools. The faculty members and the students are involved in the organisation of guest lectures, seminars, workshops, conferences, etc. the CSI-VIVA TECH provides a great platform for the students to showcase their knowledge. For this technical events have been undertaken by the department on constant basis.

VISION

VIVA Institute of Technology strives to impart total quality education by means of equip students with knowledge and skills in their chosen stream, inculcate cultural and ethical values, identify hidden talents, provide opportunities for students to realize their full potential and thus shape them into future leaders, entrepreneurs and above all good human beings.

MISSION

To develop the standard of the institute above bench mark level, providing students with advanced knowledge and latest technology in the chosen discipline by tapping their hidden and obvious potential, moulding them into good and responsible citizens by playing a meaningful role in industry and society.

VISION (COMPUTER ENGINEERING DEPARTMENT)

- To develop competent citizens who will be valuable contributors in the field of computer engineering.

MISSION (COMPUTER ENGINEERING DEPARTMENT)

- To create an environment which will stimulate research and innovation.
- To provide students with comprehensive knowledge of the latest developments in the field of Computer Engineering.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)
COMPUTER ENGINEERING DEPARTMENT

- Graduates will have successful career in their chosen field.
- Graduates will work on new and emerging technologies.
- Graduates will pursue higher studies at reputed institutions nationally/internationally.

PROGRAM SPECIFIC OUTCOMES (PSOs)
COMPUTER ENGINEERING DEPARTMENT

- Students will be able to draft and publish research papers at the national or the international level.
- Students will be able to undertake research based projects.
- Students will be able to organise / participate / conduct events like seminars / workshops / conferences.

PROGRAMME OUTCOMES

Engineering Graduates will be able to:

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 analyse 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 modelling 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.

Departmental Advisory committee for 2017-18

Sr. No.	Name	Designation
1	Ashwini Save	HOD, Computer Engineering Department
2	Tatwadarshi P. N.	NBA Head
3	Janhavi Sangoi	Project Head
4	Umesh Mohite	CSI Head
5	Sunita Naik	NBA Task Force 1
6	Reshma Chaudhari	NBA Task Force 1
7	Sumedh Pundkar	Academician
8	Vibhavari Nagarhalli	Industry Expert (TCS)
9	Ankit Sangoi	Industry Expert
10	Krishnanand Gaitonde	Parent
11	Yashwant Bhalerao	Parent
12	Purva Mestry	Alumni
13	Sonal Mehta	Alumni
14	Kunal Mestry	Student
15	Sarjak Chawda	Student

Student testimonials

Name: Sonal Mehta

Batch: 2016

Designation: Associate Software Engineer with Tech Mahindra

I take this opportunity to express all my appreciation & a "Big Thank You" to the most enthusiastic department of VIVA Institute of technology for all the significant contribution over the years. Computer Department's meticulous approach brought a lot of calming influence in handling various kind of events & programs. Its program does more than just impart knowledge and skill, however the culture of the department and the mentoring styles of the faculty make students excited about becoming scholars. In my four years of amazing journey,

I got the opportunity to contribute my efforts in Computer Society of India(CSI); Every year spent with the CSI team made me more and more excited about becoming a true professional; also participating is such programmes carves your personality. It's impossible to overstate the importance of that sense of intrinsic enthusiasm, as one factor that unites the most accomplished scholars in our field is that they love what they do.

Faculty members clearly love what they do — and that passion gets transferred to their students. There's simply no better place to earn a degree from this college.

Name: Palak S. Shah

Batch: 2016

Designation: L2 Production Support at L & T Infotech for CitiBank Project

The professors of department pointed out common pitfalls and were easily approachable if students had difficulty understating a concept without any delay. Some of the Professors are really kind and their innovative style of teaching is really what made learning more interesting. My grades have gone up a lot continuously as the classes are not so big, so the professor has more time to focus on each student.

The Department helped me develop a positive attitude towards my studies and discover more about myself. Staff make sure every class is fun, educational and interactive. Personally, the structured hours allowed me to plan out what I wanted to study that specific day while continuous assessments kept me on my toes.

Being surrounded by motivated, like-minded people was beneficial for me as it drove me to work much harder and achieve what I wanted to achieve. And I am delighted to read about my department and college's ongoing success and expansion in local and national media.

Name: Nitin Bhimsen Daddikar

Batch: 2017

Designation: Associate UI/UX Developer at Verdantis Technologies Pvt. Ltd.

I belong to the computer engineering department at VIVA Institute of technology. It's been great being a part of this group as it has always helped me in improving my skills. They always backed me for going the distance and never be afraid to innovate.

The department always helped all the students including me to overcome any obstacle and reach the milestones. It's my pleasure to be a part of this department and I am thankful to each and every one from this department for helping me in the course.

Name: Shruti Joshi

Batch: 2016

Designation: Software Engineer at Mastek Ltd.

The best thing about Viva Comps Dept. is that students feel energetic and enthusiastic towards education and career. The faculty here has been simply amazing, always approachable and welcome any questions. The institute staff is very supportive.

Those four years of my life were not just full of hard work, but they were undoubtedly full of such lessons and experiences which made me a better person day by day. I left my college with diverse personality enhancements and such intangible assets which are now a part of my attitude. This also has to do with me being a part of the CSI community and able to contribute to it.

I would take this opportunity to thank the most happening faculty that helped us to establish ourselves in the corporate world with ease. Journey of engineering life in a college like this is what one looks forward to.

Name: Himanshu Wadekar

Batch: 2017

Designation:

I can positively say that computer engineering department has made me a better person. It has helped me develop a positive attitude towards my studies and discover more about myself. Teachers are very caring and interested in student's well-being. The thing I admire the most is the support I received from the department. I wouldn't have been able to achieve what I have achieved without the supportive environment.

Name: Aishwarya Babu

Batch: 2017

Designation:

I couldn't have asked for more; the teachers were so helpful to me, whenever there was anything I needed or didn't understand they were always there without delay. Along with academic, they even make sure that students are active in different curricular activities. The environment not only helped me in imbibing knowledge but also in developing my overall personality, fueling confidence in me.

Name: Tasmay Raikar

Batch: 2017

Designation:

I am student of the Computer Engineering Department at VIVA Institute of Technology. This department has provided me good faculties and helped me a lot in completing my Engg course. They always inspired me to develop different aspects of my personality to be more competitive and balanced individual. They provided me a mix of both academics stuff and co-curricular activities. I am grateful to everyone from this department for their guidance and support.

Name: Durgesh Tiwari

Batch: 2017

Designation:

As a Computer Engineering student department provides a wide arena of the field and thus I get to learn something new with every subject. The entire study environment makes it easy for a student to learn and inculcate the spirit to stand out amongst the talented and hard-working students. What amazes me is the plethora of extracurricular activities that the Institute offers hence compelling every student to explore and pursue his/her extra talents. The Institute manages both the areas extremely well and a student always finds himself in a pool of never ending opportunities, be it technical or non-technical.

Name: Vinayak Prabhu

Batch: 2017

Designation:

Myself Vinayak Prabhu from the computer engineering department at VIVA Institute of Technology batch 2013-17. This department has been a great step towards my success story in engineering. They stood with me since the first day guiding me towards my goal. The amount of effort they have put in, to help me and many other students like me, is commendable. I'm thankful to each and every one from this department for bringing out the best in me!

Name: Sumit Mangela

Batch: 2017

Designation:

I was a part of the computer engineering department at Viva Institute of Technology. The three years I have spent as a student there helped me to develop new skills as well as improving the existing ones. All the staff members of the department were always supportive and facilitated the growth of every student of the department. It was a great pleasure to be a part of this department and I would like to express gratitude to each and every one from the department for guiding me towards my future.

Department Faculty

Name: Prof. Ashwini Save

Designation: HOD

Qualification: PhD. Comp. Engg. (Pursuing), ME Comp. Engg., BE Inft, PGDBA

Experience: 9 yrs

Research Interests: Data warehouse, Data Mining, Software Engg, Cyber Security, Project Mgmt

Name: Prof. Pallavi Vartak

Designation: Asst. Prof.

Qualification: ME Inft, BE Comp. Engg

Experience: 7.3 yrs

Research Interests: Image Processing, HCI, Project Mgmt

Name: Prof. Sunita Naik

Designation: Asst. Prof.

Qualification: ME Comp. Engg., BE Inft.

Experience: 11 yrs

Research Interests: Data warehouse, Data Mining, Image Processing, Distributed Computing

Name: Prof. Janhavi Sangoi

Designation: Asst. Prof.

Qualification: ME Comp. Engg., BE(Inft)

Experience: 7 yrs

Research Interests: Data warehouse, Data Mining, Security

Name: Prof. Reshma Chaudhari

Designation: Asst. Prof.

Qualification: ME EXTC , BE EXTC

Experience: 5 yrs

Research Interests: Mobile Communication, Digital Signal Processing

Name: Prof. Tatwadarshi P. Nagarhalli

Designation: Asst. Prof.

Qualification: PhD Sanskrit (pursuing), ME Comp. Engg. , MA Sanskrit, PGDBA, BE(Inft)

Experience: 8 yrs

Research Interests: Security, Artificial Intelligence, Machine Learning, Data Mining, Project Mgmt, NLP

Name: Prof. Dnyneshwar Bhabad

Designation: Asst. Prof.

Qualification: ME Comp. Engg (Pursuing), BE Comp. Engg.

Experience: 5 yrs

Research Interests: Data Mining, Big Data, Cloud Computing, IOT

Name: Prof. Umesh Mohite

Designation: Asst. Prof.

Qualification: ME Comp. Engg. (Pursuing), BE Comp. Engg

Experience: 5 yrs

Research Interests: Microprocessor, Programming, dotNet

Name: Prof. Vinit Raut

Designation: Asst. Prof.

Qualification: ME (Comp. Engg.), BE (Comp)

Experience: 8 yrs

Research Interests: Data Structures, Algorithms, Image Processing

Name: Prof. Saniket Kudoo

Designation: Asst. Prof.

Qualification: ME Comp. Engg., BE Comp. Engg.

Experience: 4 yrs

Research Interests: Cloud Computing, Mobile Computing, N/W Security, Computer N/W

Name: Prof. Bhushan Talekar

Designation: Asst. Prof.

Qualification: ME Comp. Engg., BE Inft

Experience: 6.4 yrs

Research Interests: Software Engineering, Data Mining, Reality Mining, Deep Learning

Name: Prof. Pratiksha Deshmukh

Designation: Asst. Prof.

Qualification: ME Comp. Engg., BE Comp. Engg.

Experience: 4 yrs

Research Interests: E-Commerce and Networking

Name: Prof. Akshata Raut

Designation: Asst. Prof.

Qualification: ME Comp. Engg. (Pursuing), BE Comp. Engg.

Experience: 4 yrs

Research Interests: Data Mining and Sentiment Analysis.

Name: Prof. Monali Pimpale

Designation: Asst. Prof.

Qualification: ME Comp. Engg., BE Inft.

Experience: 5 yrs 11 Months

Research Interests: Networking and Machine Learning

Name: Prof. Bhavika Thakur

Designation: Asst. Prof.

Qualification: ME Comp. Network and Info. Sec., BE Comp Science and Technology

Experience: 6 yrs

Research Interests: Network Security and Computer Network

Recent Publications by Faculty

Sr. No.	Name of the faculty	Paper Title	Published / Presented
1	Ashwini Save	• Analysis Of Cross Domain Sentiment Techniques	ICEECCOT Dec 2017
		• Analysis Of Cross Domain Sentiment Techniques	IEEE Dec 2017
		• Data Pre-processing For Efficient Sentimental Analysis	ICICCT - April 2018
		• Twitter Sentiment Analysis Using Data Pre-Processing And Exploiting Emoticons: A Survey	NCRENB Mar 2018
		• Sentiment Analysis Using Neural Networks: A New Approach	ICICCT - April 2018
		• Tweet Summarization : A New Approach	ICICCT - April 2018
2	Pallavi Vartak	• Data Security Using Compressed Classical Technique	NCRENB MAR 2018
		• Lossless Image Compression Using Hybrid Algorithm: A Survey	NCRENB MAR 2018
		• Graphical Password Authentication Using Emoji's	NCRENB MAR 2018
		• Compressed Classical Technique For Data Security	ICSCET-18
3	Sunita Naik	• Hybrid Technique For Intelligent Text Mining	ICEMTE-2017

		• Estimating The Frequent Products In Shopping Cart Using Data Mining	ICICCT - April 2018
		• Secure Data Transmission Using Lifi	ICICCT - April 2018
4	Janhavi Thakur	• Security Enhancement On Web Server For Preventing Double Attack	NCRENB MAR 2018
		• Enhanced Mechanism For Session Password Authentication	NCRENB MAR 2018
		• Security Enhancement On Web Server For Preventing Double Attack	IJARIIT
		• Enhanced Mechanism For Session Password Authentication	IJARIIT
5	Reshma Chaudhary	• An Approach For Exploring Vulnerability And Preventing Security Exploits	NCRENB MAR 2018
		• Study Of Measuring RF Power In Field	NCRENB MAR 2018
		• An Innovative Approach For De-Duplication In Cloud Computing: A Survey	NCRENB MAR 2018
		• An Approach For Exploring Vulnerability And Preventing Security Exploits	IJARIIT
		• Study Of Measuring RF Power In Field	IJARIIT
		• An Innovative Approach For De-Duplication In Cloud Computing: A Survey	IJARIIT
	Tatwadarshi P.N.	• Advance Steganography Using Dynamic Octa Pixel Value Differencing • (Http://Ieeexplore.Ieee.Org/Document/8275989/)	IEEE Xplore

		• Providing Storage As A Service On Cloud Using Open stack • (Http://Ieeexplore.Ieee.Org/Document/8276013/)	IEEE Xplore
		• A New Approach To Video Steganography Using Pixel Pattern Matching And Key Segmentation • (Http://Ieeexplore.Ieee.Org/Document/8276009/)	IEEE Xplore
		•	
		• A Cross Lingual Technique For Hiding Hindi Text • (Http://Ieeexplore.Ieee.Org/Document/8275979/)	IEEE Xplore
		• Hybrid Approach To Resist Shoulder Surfing Attack	ARSSS International Conference,
		• An Innovative Machine Learning Approach For Object Detection And Recognition	ICICCT – 18,
		• An Intelligent System For Aiding Farming Process	ICICCT – 18,
		• Analysis Of Anti-Shoulder Surfing Attack Techniques (Https://Www.Ijariit.Com/Conferences/Ncrenb-	NCRENB MAR 2018
		• A Survey On Internet Of Things Based Smart City (Https://Www.Ijariit.Com/Conferences/Ncrenb-2018/)	NCRENB MAR 2018
		• Analysis Of Anti-Shoulder Surfing Attack Techniques (Https://Www.Ijariit.Com/Conferences/Ncrenb-	IJARIIT
		• A Survey On Internet Of Things Based Smart City (Https://Www.Ijariit.Com/Conferences/Ncrenb-2018/)	IJARIIT
7	Dnyaneshwar Bhabad	• Multimedia Based Information Retrieval Approach Based On ASR & OCR And Video Recommendation System	CTCEEC-2017
		• Innovative Approach For Identification Of Suspicious Images	ICCMC-2018

		• Anticipation Of Student Admission In Institutes Using Decision Tree Algorithms: A Survey	NCRENB MAR 2018
		• Efficient Approach For Identifying Phishing Websites	NCRENB MAR 2018
		• Anticipation Of Student Admission In Institutes Using Decision Tree Algorithms: A Survey	IJARIIT
		• Efficient Approach For Identifying Phishing Websites	IJARIIT
8	Umesh Mohite	• Repository File Transfer : A New Compound File Encryption Technique	NCRENB MAR 2018
		• Rainfall Prediction A Novel Approach	ICEMTE -18
		• Rainfall Prediction A Novel Approach	IJRITC C 2018
		• E – Ration • Distribution System	ICCTCT-18
		• Repository File Transfer : A New Compound File • Encryption Technique	IJARIIT
		• Image Steganography With Dual Layer Security Using Fragment And Unite Technique	IJRITC C 2018
9	Vinit Raut	• Diminution Of Shill Bidding Effect In Real Time Online Auction System	NCRENB MAR 2018
		• A Hybrid Concept Of Keyless Algorithm And Compression Scheme For Encrypted Stego-Image	NCRENB MAR 2018
		• Diminution Of Shill Bidding Effect In Real Time Online Auction System	IJARIIT

		•	
		• A Hybrid Concept Of Keyless Algorithm And Compression Scheme For Encrypted Stego-Image	IJARIIT
10	Saniket kudoo	• Physical And Logical Design Approch For Building Blocks Of Iot.	NCRENB MAR 2018
		• Physical And Logical Design Approch For Building Blocks Of Iot.	IJARIIT
11	Bhushan Talekar	• None	-
12	Pariksha Deshmukh	• Analysis Of Grey Hole Attack On Lln's Using Rpl	NCRENB MAR 2018
		• Analysis Of Grey Hole Attack On Lln's Using Rpl	IJARIIT
13	Akshata Raut	• Network Management Automation, Challenges And Solutions	IJARIIT
		• Network Management Automation, Challenges And Solutions	NCRENB MAR 2018
14	Monali Pimpale	• Network Management Automation, Challenges And Solutions	NCRENB MAR 2018
		• Network Management Automation, Challenges And Solutions	IJARIIT
15	Bhavika Thakur	• Analysis of challenges in the area of quality of service (QoS) support in mobile ad-hoc network (MANET)	ICNCCT May 2018

Faculty role and responsibilities

Prof. Ashwini Save	• Head of Department
Prof. Pallavi Vartak	• Anti-Ragging and Grievances • Discipline • Alumni
Prof. Sunita Naik	• Exam • Time-Table
Prof. Janhavi Sangoi	• Project • Time-Table
Prof. Reshma Chaudhari	• Result Analysis
Prof. Tatwadarshi P. N.	• NBA • Publications • Website
Prof. Dnyneshwar Bhabad	• Notices and Minutes of Meeting • Department Placement
Prof. Umesh Mohite	• CSI • Lab Head
Prof. Vinit Raut	• Google Drive • Virtual Lab
Prof. Saniket Kudoo	• Term Test • Weak and Bright Students
Prof. Bhushan Talekar	• TPO
Prof. Pratiksha Dekhmukh	• Mentor

Prof. Akshata Raut	• Files • Notice Board • Term Test
Prof. Monali Pimpale	• Department Library

Training programmes / Seminars / Workshops attended by Faculty

Sr. No.	Name	Training Programme
1	Ashwini Save	• Workshop on PYTHON • Seminar on Parallel and Distributed Systems • Workshop on Big Data and HADOOP • Short Term Training Programme on Machine Learning and Deep Learning
2	Pallavi Vartak	• Workshop on PYTHON • Seminar on Parallel and Distributed Systems • Workshop on Big Data and HADOOP • Short Term Training Programme on Machine Learning and Deep Learning
3	Sunita Naik	• Workshop on PYTHON • Seminar on Parallel and Distributed Systems • Workshop on Big Data and HADOOP • Short Term Training Programme on Machine Learning and Deep Learning
4	Janhavi Thakur	• Workshop on PYTHON

		• Seminar on Parallel and Distributed Systems • Workshop on Big Data and HADOOP • Short Term Training Programme on Machine Learning and Deep Learning
5	Reshma Chaudhary	• Workshop on PYTHON • Seminar on Parallel and Distributed Systems • Workshop on Big Data and HADOOP • Short Term Training Programme on Machine Learning and Deep Learning
6	Tatwadarshi P.N.	• Workshop on PYTHON • Seminar on Parallel and Distributed Systems • Workshop on Big Data and HADOOP • Short Term Training Programme on Machine Learning and Deep Learning
7	Dnyaneshwar Bhabad	• Workshop on PYTHON • Seminar on Parallel and Distributed Systems • Workshop on Big Data and HADOOP • Short Term Training Programme on Machine Learning and Deep Learning
8	Umesh Mohite	• Workshop on PYTHON • Seminar on Parallel and Distributed Systems • Workshop on Big Data and HADOOP • Short Term Training Programme on Machine Learning and Deep Learning
9	Vinit Raut	• Workshop on PYTHON • Seminar on Parallel and Distributed Systems

		• Workshop on Big Data and HADOOP • Short Term Training Programme on Machine Learning and Deep Learning
10	Saniket kudoo	• Workshop on PYTHON • Seminar on Parallel and Distributed Systems • Workshop on Big Data and HADOOP • Short Term Training Programme on Machine Learning and Deep Learning
11	Bhushan Talekar	• Workshop on PYTHON • Seminar on Parallel and Distributed Systems • Workshop on Big Data and HADOOP • Short Term Training Programme on Machine Learning and Deep Learning
12	Pratiksha Deshmukh	• Workshop on PYTHON • Seminar on Parallel and Distributed Systems • Workshop on Big Data and HADOOP • Short Term Training Programme on Machine Learning and Deep Learning
13	Akshata Raut	• Workshop on PYTHON • Seminar on Parallel and Distributed Systems • Workshop on Big Data and HADOOP • Short Term Training Programme on Machine Learning and Deep Learning
14	Monali Pimpale	• Workshop on PYTHON • Seminar on Parallel and Distributed Systems • Workshop on Big Data and HADOOP

		• Short Term Training Programme on Machine Learning and Deep Learning.
15	Bhavika Thakur	• Workshop on PYTHON • Seminar on Parallel and Distributed Systems • Workshop on Big Data and HADOOP • Short Term Training Programme on Machine Learning and Deep Learning.

Laboratories

No.	Laboratory Name	Lab No.	Location
	Server Room		
1	Database Management System Lab	E1	A-302
2	Data Structures & Algorithm Lab	E2	A-303
3	Software Engineering & Web Engineering Lab	E3	A-304
4	Network Lab	E4	A-305
5	Project Lab	E5	A-306
6	Programming Lab	E5	A-307
7	Operating System Lab	E32	A-308
8	Language Lab	E33	A-309
9	System Security Lab	E8	A-204
10	Digital Logic and Design Analysis Lab	E16	B-203

Class Room Details

No	Class	Room No.
1	S.E. Comp.Engg	B-302
2	T.E. Comp.Engg	B-303
3	B.E. Comp.Engg	B-301

Faculty development initiatives

1. Department Library

The department strives to provide with the best possible opportunity for the staff and the students to enhance their knowledge, departmental library is one initiative taken by the department in this regard. The departmental library is managed by a staff in-charge. The library gives easy access to the books and research projects for both the faculty and students. Currently the departmental library has over 300 books.

2. Appraisal System

An effective performance appraisal system is a vital instrument for gauging and improving the performance and contribution of the faculty. The institute has a well-defined appraisal and well formatted appraisal system and it is effectively implemented in the department. Every teaching faculty submits self-appraisal forms to the head of the department. The head of the department evaluates the self-appraisal from filled by the faculty and comments on the performance of the faculty. This form is then sent to the principal. In presence of head of department principal conducts one to one meeting with all the teachers gives feedback/suggestions/comments on the performance. The performance appraisal is carried out in each semester. In every academic year awareness is also created among the faculty about the importance of performance appraisal, in the department.

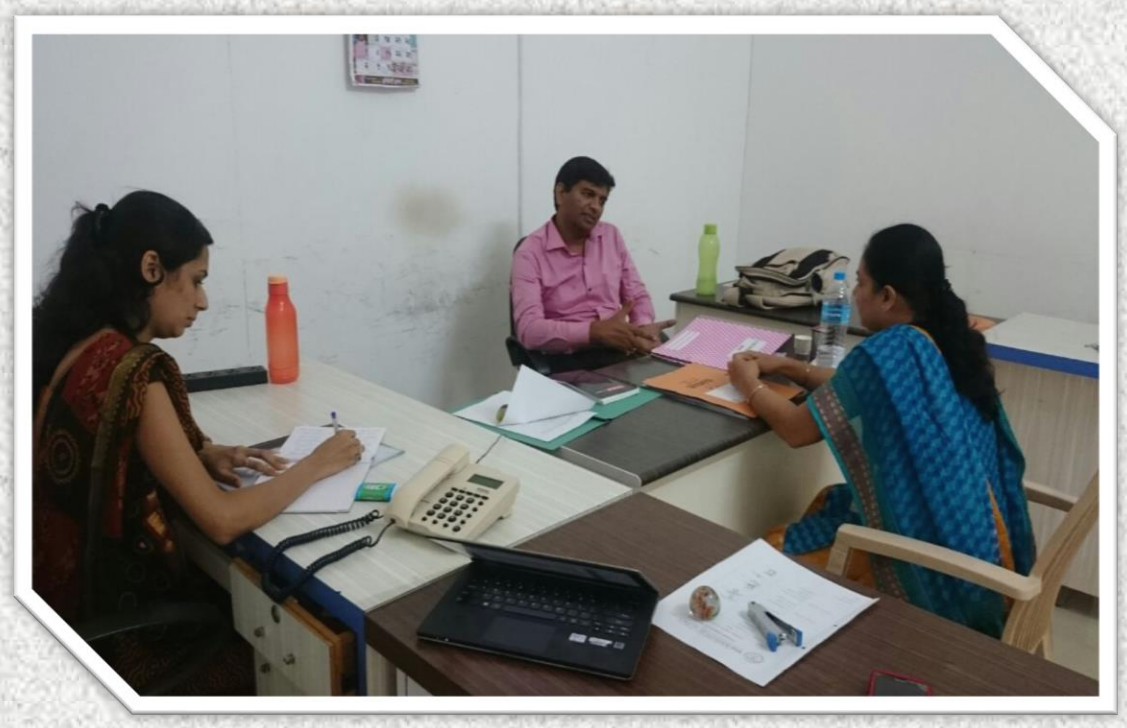
3. Feedback System

According to the schedule mentioned in academic calendar, HOD of department takes offline feedback from students. Students are provided with a copy of feedback form which assesses the staff on the basis of parameters. Parameters used to assess the faculties are Way of teaching, Extent of understanding the subject & satisfaction, Ability to clear the doubts, Attitude towards the students, Punctuality, Interaction during lecture, Motivation.

Students also give comments about faculties in a written form. Ratings are calculated on the basis of score and comments given by the students. Depending on the comments and ratings by the students, HOD communicates and guides the staff regarding further improvements through corrective actions. Second meeting with the students is conducted in the same semester to assess the effectiveness of the corrective action undertaken.

4. Academic Audit

Academic audit for academic year 2016-2017 was conducted in the department on 15st Sept, 2017. The auditor was Prof. Sumedh Pundkar, H.O.D Computer Science & Technology, Usha Mittal Institute of Technology (UMIT), SNDT Women's University. The audit was conducted on following grounds, Teaching plan and its adherence, Result analysis, Feedback analysis, Quality of Assignments, Quality of Experiments, Quality of Term Test Question Papers, Quality of notes and other teaching tools, Subject Knowledge, Contribution at college/department level, Publications/Achievements,STTP/ Workshop attended.The auditor conducted one-on-one discussion with all the teaching faculty and gave feedback for their performance and work for the academic year as well.



5. Short term Training Programme

Things like growing volumes and varieties of available data, computational processing that is cheaper and more powerful, affordable data storage and complex nature of applications are responsible for resurging interest in machine learning and deep learning.

All of these things mean it's possible to quickly and automatically produce models that can analyze bigger, more complex data and deliver faster, more accurate results, even on a very large scale. And by building precise models, an organization has a better chance of identifying profitable opportunities, or avoiding unknown risks. Machine learning and Deep learning play a very vital role in the data analysis and building a model for prediction or classification with the help of past data.

Due to this reason, the STTP was organized by the Computer Engineering Department, VIVA Institute of Technology on "Machine Learning and Deep Learning". The speakers were invited from the reputed educational institutes as well as relevant industries.

STTP on Machine Learning and Deep Learning

The objectives of the AICTE- ISTE Approved STTP were

- To familiarize with the basic concepts of ML and DL.
- To help the participants in implementation of algorithms of ML and DL
- To help the participants in working with various tools required for ML and DL
- To get an idea for further research in ML and DL

The AICTE-ISTE approved STTP was conducted from 07th May, to 11th May, 2018 in , Computer Engineering Department, VIVA Institute of Technology. The inauguration was attended by Principal Dr. B. K. Mohan, Dr. Sanjay Shitole , Dr. Arun Kumar, and all other participants.

Details of all the resource person is as given below.

Sr. No.	Name	Designation	Organization
1	Dr. B K Mohan	Professor	IIT Bombay
2.	Dr. Sanjay S. Shitole	Head of the Department and Associate Professor in	Usha Mittal Institute of Technology for Women,
3.	Mr. Santosh Chapaneri	Assistant Professor	St. Francis Institute of Technology
4.	Mr. Divesh Kubal	Senior Machine Learning & Deep Learning	eClerx Services
5.	Mr. Santosh Panigrahi	Artificial Intelligence Analyst	GrayMatrix Solutions

Detailed contents which were covered in the STTP are mentioned below.

Sr.	Date	Topics Covered
1	07th May 2018	Basics of Machine Learning and Deep Learning, Introduction to ANN and CNN.
2	08th May 2018	Introduction to Python using Jupyter Notebook, Machine Learning Algorithms, Data Analytics,
3	09th May 2018	Deep learning: concepts and its applications, Word embedding in NLP, Prediction with CNN.
4	10th May 2018	Parameter Tuning, Introduction to R (Data frame, Importing and Exporting Data, Data manipulation.
5	11th May 2018	Revision of the learned contents, Training evaluation test & valedictory function.

All the speakers were well received by the attendees. The attendees gave very good feedback for to all the speakers. A total of 23 participants participated in the One week AICTE-ISTE approved training programme.

6. Parents Meet'17

Introduction of Computer Engineering Department was given. Parents were introduced with departmental laboratories and facilities. They were made aware of different Department initiatives such as Mentor system, Meetings under mentor system, Cumulative attendance system & terms regarding Attendance. Syllabus of respective classes also Policies regarding K.T. and year drop for student, the Examination pattern, internal exams and university exam schedule and Weightage were discussed.

College timing, ID card is compulsory in the college premises, Mobile phones are not allowed in college premises and Instructions regarding dress code were given. Placement Selection Process, Activities conducted for training the students, previous placement records. We plan industrial visits only for one day.

Parents were requested to Understand the structure of engineering course, Stay connected with mentors and other teachers, Communicate with students regularly regarding academic activities .Motivate students for participating in the co-curricular, extra-curricular activities. Staff members have interacted with parents to solve their doubts. Details were discussed.

Valuable suggestions were taken from parents. All the parents interacted with respective mentors and assessed their student's progress.

7. Technical Magazine

(http://www.viva-technology.org/New/Tech-Next)

A Biannual Technology Review Magazine

We live in a time where technology is an indispensable part of our everyday life. It is impossible to imagine our daily routines without these technologies, right from the coffee maker machine to the mobile devices to the computers; especially internet has become a necessity. And these technologies have undergone and undergo, changes and updations on a very frequent basis. For this reason a Technical magazine is like a holy book for the people who follow technology as a passion.

Steve Ballmer says “The number one benefit of information technology is that it empowers people to do what they want to do. It lets people be creative. It lets people be productive. It lets people learn things they didn't think they could learn before, and so in a sense it is all about potential.”

Keeping this in mind the Computer Engineering Department, VIVA Institute of Technology published the first Technical Magazine in the institute called the ‘TECH-NEXT: A Biannual Technology Review Magazine’ to empower the Faculty and Students to be creative and productive; providing a platform to showcase their knowledge about the new technologies which are becoming or which will become an integrated part of our life, and help others to learn about these technologies.

TECH-NEXT is a Technology Review Magazine Published by Computer Engineering Department of VIVA Institute of Technology. The Magazine is published twice in a year. The Magazine was launched on 23rd September 2016 in the presence of Management members of VIVA Trust, Principal of VIVA Institute of Technology and staff members of Computer Engineering Department.

The department was also able to secure International Standard Serial Number (Online) for the technical magazine as well, **ISSN (Online): 2456-5105**.

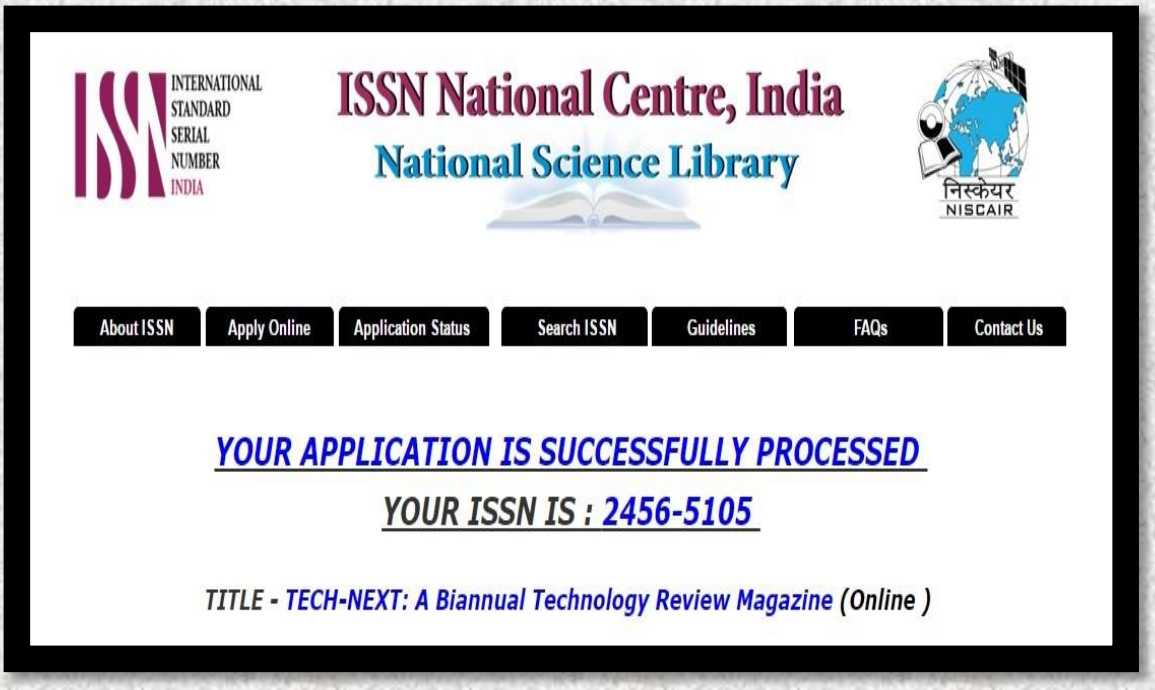
Initiatives for students and CSI

1. Technical Magazine

TECH-NEXT is a Technology Review Magazine Published by Computer Engineering Department of VIVA Institute of Technology. The Magazine is published twice in a year. The Magazine was launched on 23rd September 2016 in the presence of Management members of VIVA Trust, Principal of VIVA Institute of Technology and staff members of Computer Engineering Department.

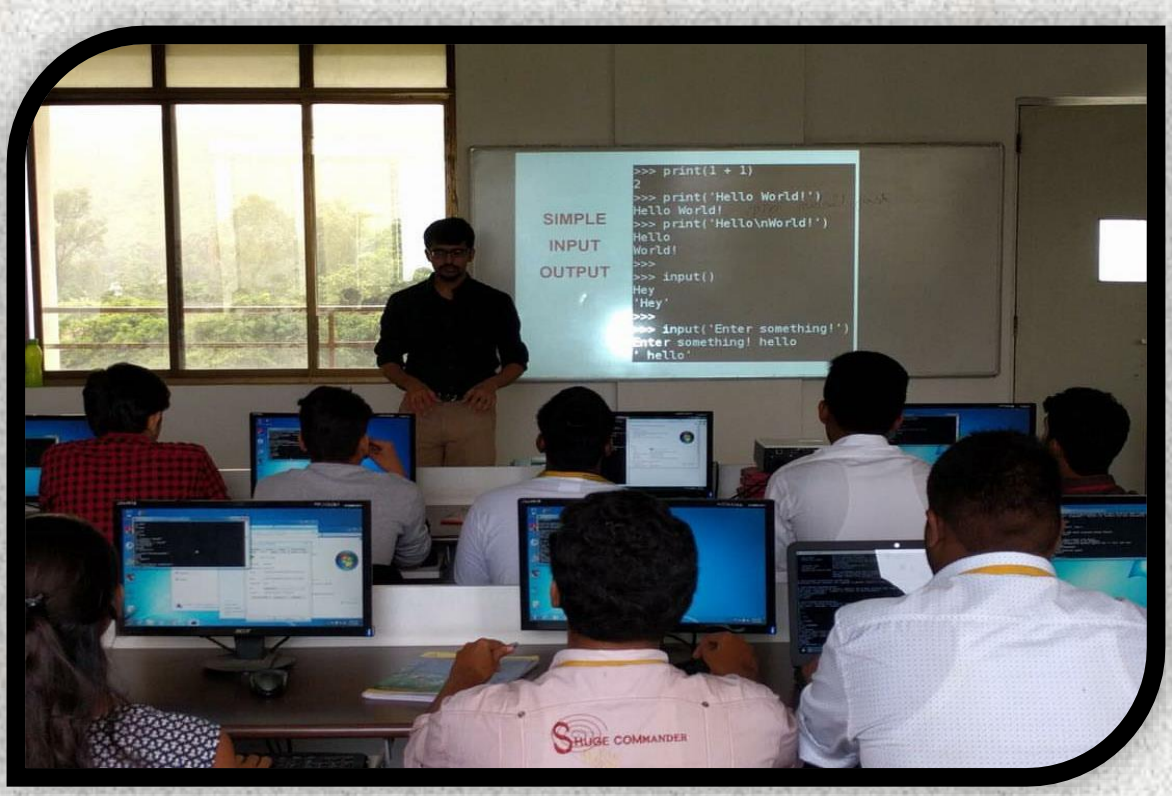
Having secured International Standard Serial Number (Online), **ISSN (Online): 2456-5105**, it provides a great platform for the students to share and acquire knowledge about the new technologies that are going to shape the future of the generation.

Students took great interest in this initiative and in the first issue of the second volume majority of the technical articles published were from the students. In the second volume more than 90% of the articles have been contributed by the students.



2. Python

The CSI-VIVA successfully organized the One day workshop on Python at VIVA Institute of Technology on 2018. The workshop was conducted by Prof. Dnyaneshwar Bhabad was attended by third year Computer Engineering students. He has vast knowledge about the subject. In the workshop, he covered all the basic topics required for anyone to understand Python. He discussed various basic methods used in Python language and explained them in various forms.



He covered various aspects of Python language, from basic logical and arithmetic operations to use of different functions. In this session, he also covered the uses of Idle software and use of command prompt in Python. He conducted the whole workshop using PPT's and by maintaining constant interaction with the students. He shared all his content and also his contact details for further queries.

Overall it was an interactive session.

3. **Source Code Testing** (Monthly Event-1)-**2017**

The CSI-VIVA successfully organized the event on Source Code Testing at Computer Engineering Department, VIVA Institute of Technology. The event was conducted by

CSI-VIVA and was attended by Computer Engineering students. The event was conducted to encourage students and to improve their programming skills.

It covered languages like C, JAVA, HTML, from basic programs to difficult level; programs were divided into levels for testing student's skills in particular languages. This event helped students to increase their core interest in these languages. There was large participation from students of S.E, T.E and B.E Computer Engineering. Winners were felicitated with Certificate.

Overall it was an interactive event.

4. **Graphical User Interface Designing** (Monthly)

The CSI-VIVA TECH successfully organized the event on Graphical User Interface Designing at Computer Engineering Department, VIVA Institute of Technology. The event was conducted by CSI-VIVA TECH and was attended by Computer Engineering students. This event was conducted in order to improve graphical skills of students.

The event was conducted in 2 two rounds; in the first round the participants had to find out the flaws from the given image of different graphical user interfaces provided year wise. Top 10 participants from respective class of S.E, T.E, and B.E were selected for the 2nd round.

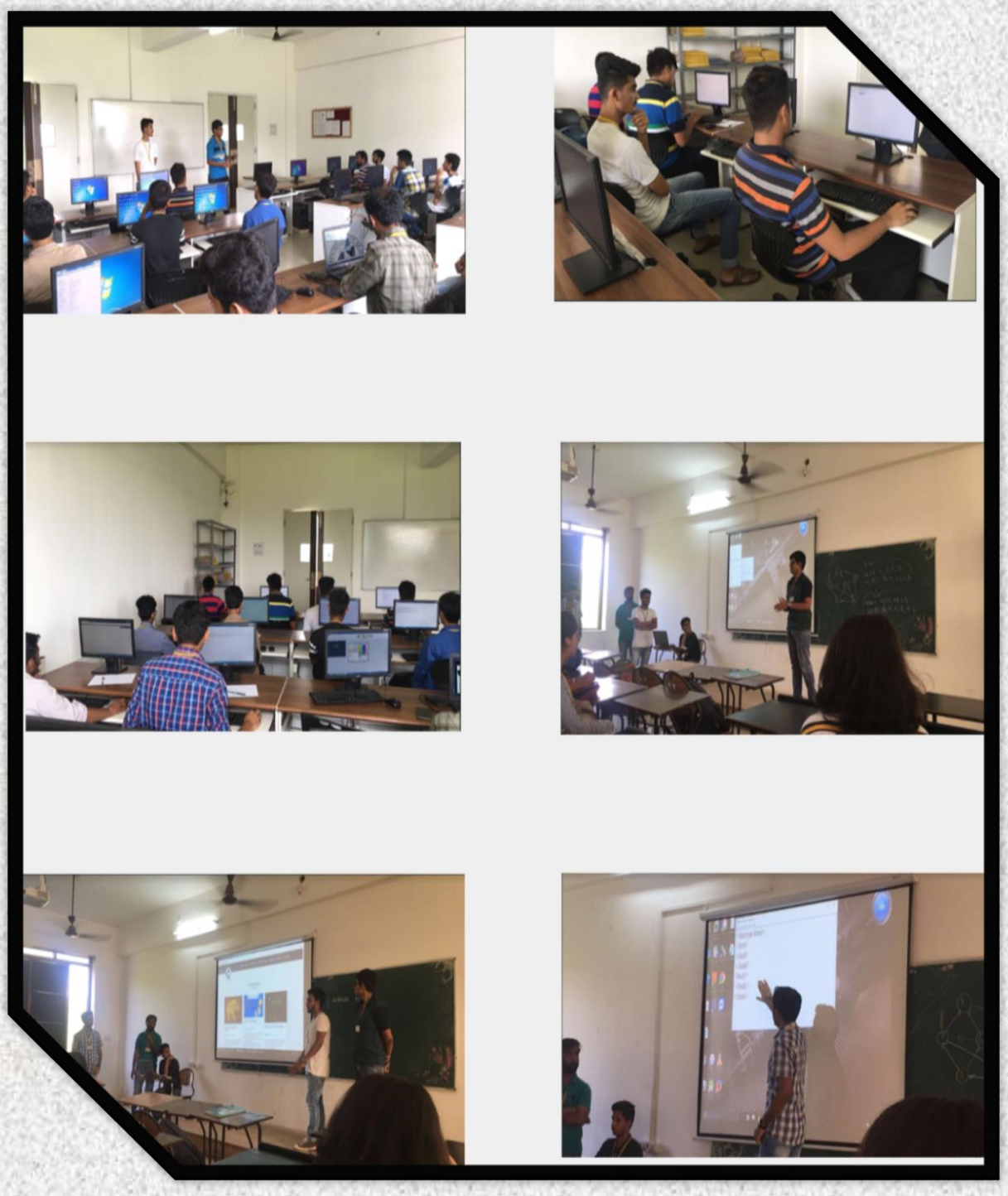
The 2nd round participants had to develop a front-end of application/website (prototype) on the basis of given topic using Google Draw online application within an hour. This event helped students to increase their core interest in developing GUI skills. There was large participation from students including S.E, T.E and B.E as well. The Winners were selected by the Staff members on basis of best prototype designed. Winners were felicitated with Certificate.


CL3 2

5. Web Development

The CSI-VIVA successfully organized the monthly event on Web Development at VIVA Institute of Technology. The event was conducted by the CSI Team and was attended by participants from the second, third and fourth year Computer Engineering students. CSI-VIVA conducted its first monthly event in July, 2017. This initiative under the CSI-VIVA was undertaken to impart knowledge, experience and learning to the students in the field of Computer Engineering. In the event, the students learned about the basics of Webpage Designing using HTML/CSS.

The students began with identifying HTML Tags used in a webpage provided to them in the form of an image. This helped them understand how HTML Tags are implemented and work on a webpage. The students were later compelled to design a Webpage by themselves. This helped the students understand Web Development from an industrial or corporate approach up to a certain level. The students learnt the various aspects of designing and creating a webpage, its basic structure and adding creativity to the Webpage. Overall it was an interactive session.



6. TECHCHASE-2017

The CSI-VIT successfully organized the Technical Festival of our college, "Techchase-2017" on 6th & 7th of October, 2017. Techchase was inaugurated by our respected principal Dr. Arun Kumar and Sanjeev Patil, Padhye Sir, Kutty Sir from management. The Principal of MCA and all staff members from Viva Institute of Technology graced the occasion. The inauguration was held in the Seminar Hall, on the 4th floor.

Total number of events: 33

Events under CSI: 08

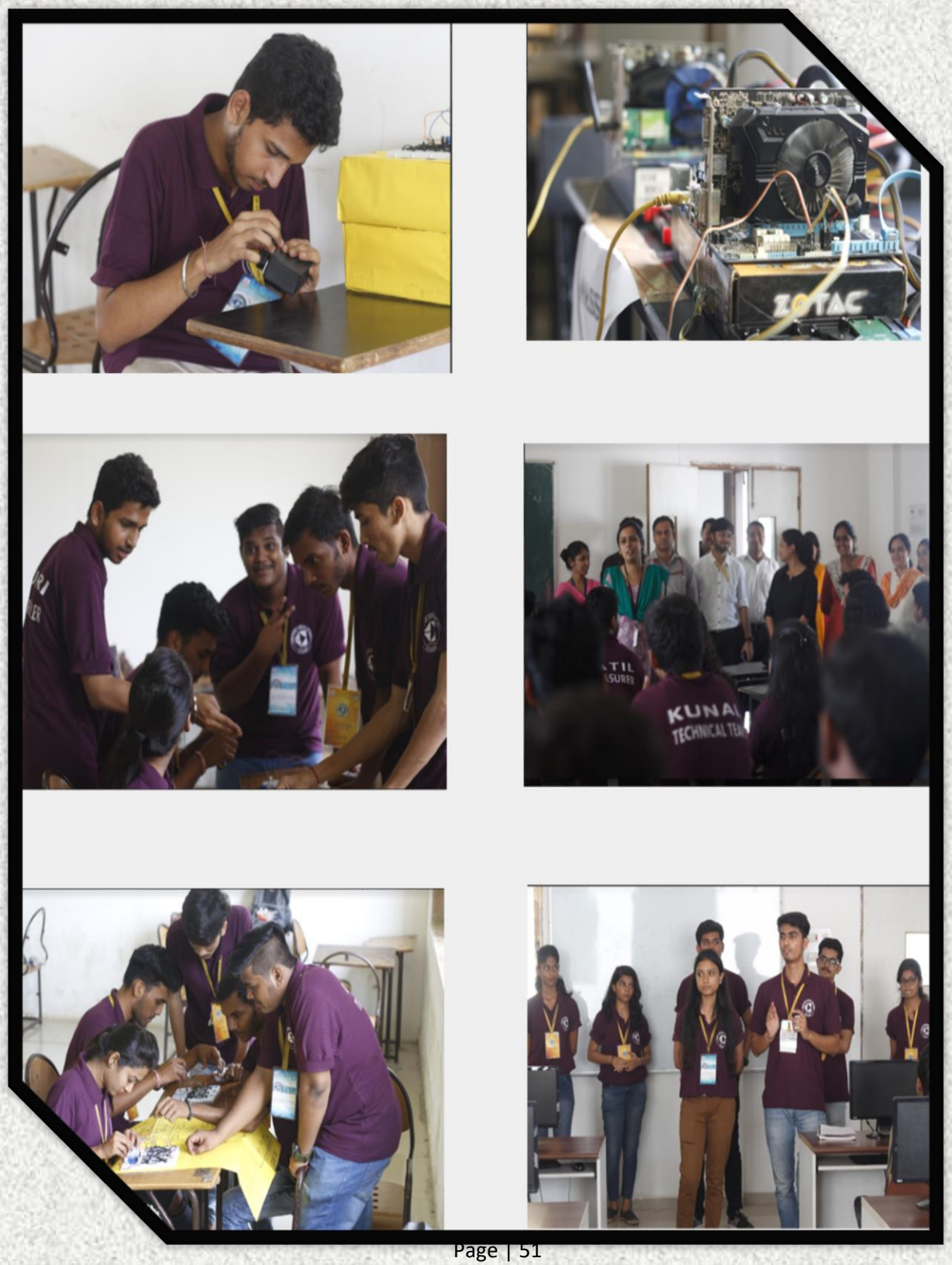
- Renovation with Innovation
- Crack the Network
- Cipher Decipher
- Technical Logo Quiz
- Blind Coding
- Bug Fixing
- Image Morphing
- Quizilla

The Response received for CSI-Viva-Tech events was enormous and overwhelming. The events received a positive response from the students. They encouraged and motivated the students for many more technical events in the future. Around 2,000 students and 85-100 volunteers had participated in TECHCHASE.

Every event had its own significance, be it Renovation with Innovation, or Crack the Network, or Cipher Decipher, or Technical Logo Quiz. Participants enjoyed it to the core!

Winners were awarded certificates and prizes. All the faculty members were involved in planning, guiding and motivating the students in various events.

It was an excellent platform for the students to exhibit their talents. It was a grand success. CSI-Viva-tech conducted the following events in Techchase:


ZOTAC

Winners were awarded certificates and cash prizes. All the faculty members were involved in planning, guiding and motivating the students in various events.
It was an excellent platform for the students to exhibit their talents. It was a grand success.

Overall it was an interactive and full of knowledge, it was a great platform to learn new things along with some fun involved.

7. Seminar on Parallel and Distributed Computing 2017

The CSI-VIVA successfully organized the seminar on "Parallel and Distributed Computing" at VIVA Institute of Technology. The workshop was conducted by Mr. Supratim Biswas and was attended by third and fourth year Computer Engineering students. He has conducted various workshops and seminars before and has experience in this field. He has vast knowledge about the subject and has experience in conducting workshops. In the seminar, he covered all the basic topics required for anyone to understand above mentioned techniques of computing. He discussed various algorithms and explained them with usage and efficiencies.

He covered various aspects of parallel computing as well as distributed computing, from basic environment issues operations to use of different functions. In this session, he also covered the different ideas about computing. He conducted the whole workshop using PPt's and by maintaining constant interaction with the students. He shared his content, knowledge and also his contact details for further queries. Overall it was an interactive session.

8. Workshop on Big Data HADOOP -2017

The CSI-VIVA successfully organized the workshop on Big Data HADOOP at VIVA Institute of Technology. The workshop was conducted by Mr. Anurag Mishra from Techcryptors and was attended by Computer Engineering Students from B.E and T.E. He has experience in various fields. He has a vast knowledge about this subject and also has experience in conducting workshops for the same. He has been conducting workshops all over the country including NIITs and IITs. In the workshop, he covered all the basic topics required about different ecosystems including HADOOP, HIVE, MySQL and SQOOP. He discussed various basic aspects of VMware software and explained functioning of the each ecosystems in VMware.

He covered various topics in VMware, from loading virtual machine to different stages of it in detail. In this session, he also covered how VMware can be a better option to run different ecosystems rather than using different software's for different ecosystems and demonstrated different ecosystems using the same. He conducted the whole workshop by maintaining constant interaction with the students. He shared all his information and also his contact details for further queries.

BE Projects 2017-18

Sr. No.	Guide Name	Project Title
1	Ashwini Save	• E-Ration Distribution System • Tweeter Summarization: A New Approach • Sentiment Analysis using Neural Networks: A New Approach • Rainfall Prediction Using Novel Approach • Repository File Sharing: A New Compound File Encryption Technique • Data Preprocessing For Efficient Sentiment Analysis

2	Pallavi Vartak	• Hotel Recommender System Using Hybridized Model • Data Security using Compressed Classical Technique • Password Authentication: An Enhanced Technique with Graphical Testimonial • Lossless Image Compression Using Hybrid Algorithm
3	Sunita Naik	• Sentiment Classification on Tweeter Data:A New Approach • An Innovative Approach for Deduplication in Cloud Computing • Secure Data Transmission using Li-Fi Technology • Hybrid Technique for Intelligent Text Mining • Estimating Frequent Product in Shopping Cart using Data Mining
4	Janhavi Sangoi	• Enhanced Mechanism For Session Password Authentication • Potent Approach For Identifying Phishing Sites • Secure Approach for Encrypting Data • Innovative Approach For Identification of Suspicious Images • Criterion Analysis For Anticipating College Admission • Security Enhancement on Web Server For Preventing Double Attack
5	Tatwadarshi P.N.	• Innovative Machine Learning Approach for Object Recognition • Intelligent System for Aiding Farming Process • Diminution of Shill Bidding Effect in Real Time Online Auction System • An Approach for Exploring Vulnerability and Preventing Security Exploits • A Hybrid Concept of Keyless Algorithm and Compression Scheme for Encrypted Stegno-image. • Hybrid Approach to Obviate Shoulder Surfing Vulnerability

Toppers

Academic Year 2017-18

BE

Rank	Student Name	CGPI/SGPI
1	Lade Shruti	8.64
2	Sheregar Abhishek	8.60
3	Wankhede Shreyas	8.48
3	Naik Siddhi	8.48

TE

Rank	Student Name	CGPI/SGPI
1	Jaiswal Brijeshkumar	9.58
1	Raut Neha	9.33
3	Raut Apurva	9.21

SE

Rank	Student Name	CGPI/SGPI
1	Mogaveera Prajwal	8.85
2	Thakur Rucha	8.69
3	Maity Pallavi	8.62

Contact

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Tel: 7770002544 (ext. 161/140)