

Department Of Electrical Engineering Newsletter December 2022



IF YOU WANT TO FINID THIE SECRET OF THE UNIVERSE, THUNK IN TERMS OF ENERGY, FREQUENCY AND VIBRATION.

-----Nikola Tesla-----



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VISION, MISSION AND PROGRAM EDUCATIONAL

OBJECTIVE

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.



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Program Educational Objectives:

- > 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.

Program Outcomes:

- Engineering Knowledge: Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
- 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.
- 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.
- 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.
- 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.
- 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.
- Environment & Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, demonstrate the knowledge of, and need for sustainable development.



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- <u>Ethics:</u> Apply ethical principles and commit to professional ethics, responsibilities, and norms of engineering practice.
- Individual & Team work: Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.
- <u>Communication</u>: Communicate effectively on complex engineering activities with the engineering community and with society, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 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.
- 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

- > The ability to analyze, design and implement problems in Electrical systems.
- > To identify research fields and focus on research methodology and publish research paper in conferences.
- The ability to utilize statistics/probability, transform methods, discrete mathematics, or applied differential equations in support of electrical/electronic(s) system



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About the Department:

The department is well established with number of experienced faculty members. The department moves with a mission to produce competent and disciplined electrical engineers.

Departmental laboratories are spacious and adequately equipped. The various faculties of department have presented/published papers in National/International Conferences and journals. Department organizes workshops/seminars in different areas. For all round development of students various expert lectures, industrial visits are periodically organized. The academic results are excellent.

Department of Electrical Engineering aims to establish and concentrate in various areas of electrical engineering such as power quality, energy management, audit etc. and to offer value added services to industries as well as society.

Laboratories:

Departmental has six well-established laboratories and highly updated and advanced equipment that will help to enhance the student's technical knowledge to improve their technical skill that can be utilized to explore their knowledge in the outside industrial world.

List of laboratories

- 1. DC Machines Lab
- 2. AC Machines Lab
- 3. Power Electronics Lab
- 4. Simulation Lab
- 5. Communication Engineering Lab
- 6. Project & Engineering Lab
- 7. Project Lab
- 8. BEE Lab
- 9. Power System Protection and Switchgear Lab
- 10. Electrical Networks Lab
- 11. Measurement Lab



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Message by Principal

Dear All,

It gives me an immense pleasure to welcome you to VIVA Institute of Technology, Virar affiliated to University of Mumbai, governed by Vishnu Waman Thakur Charitable Trust. We believe in the fact that "Education is a journey from Information to Knowledge and from Knowledge to Wisdom. The Engineering graduate should be capable to apply knowledge to real time engineering problems and provide solutions, which are technically sound as well as economically viable. Only creative minds can accomplish this task.

A Newsletter mirrors the success story of an institution and act as a great medium to reach out to the outer world. It reflects upon the persistent and committed efforts made by faculty, and students for taking the institution onestep ahead. Continuing the same tradition, this issue of newsletter, reflects upon commendable contribution made by all members of Electrical engineering department in their fields of expertise as well as for the overall growth of the institute. I congratulate everyone for their value adding work for the institution and do expect the same in times to come. I also congratulate the editorial team for bringing out present issue of newsletter.

VIVA Institute of Technology nurtures a unique system of education for creating dynamic leaders in the corporate sector, entrepreneurs, academicians, researchers and professionals who contribute to the development of society and nation at large. It has an aesthetically designed and elegantly built campus furnished with state of art equipment and facilities. Here, education is not only focusing on 4 years B.E. degree course but also creating a platform for students to realize their dreams, hone their cognition, sharpen their competence and carve out a wholesome personality.

Wishing you all the best for the fruitful learning journey at VIVA Institute of Technology and for a bright future!

Principal

Dr. Arun kumar



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HOD's Message

The Aim of Electrical engineering department is to provide quality education. The process of learning is extremely important in life. What you learn, how you learn and where you learn, play crucial role in developing yours intellectual capability, besides career. I am proud to see that the students and faculty of our department have put in appreciable effort into creating this newsletter. This newsletter highlights the academic and non-academic activities of both, faculty and students of the Department of Electrical Engineering. I congratulate the editorial team for their brilliant and original efforts. I wish all the students and faculty a great academic career.

H.O.D - Prof. Bhushan Save



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Departmental Faculties

<u>Teaching Staff Members:</u>

Name	Dr. Deepak Sajnekar
Designation	Associate Professor
Qualification	Ph.D. in control system, M.E
Experience	Teaching :- 23 Years
Total Experience	23 Years

Name	Prof. Bhushan Sharad Save
Designation	Assistant Professor (HOD)
Qualification	M.E. :- EXTC
Experience	Teaching :- 17 Years Industrial :- 1 Year
Total Experience	18 Years

Name	Prof. Anoj Kumar Yadav
Designation	Assistant Professor
Qualification	M. Tech :- Power Electronics & Drives
Experience	Teaching :- 12 Years
Total Experience	12 Years

Name	Prof. MukeshKumar Mishra
Designation	Assistant Professor
Qualification	M. Tech :- Power Electronics & Drives
Experience	Teaching :- 11 Years
Total Experience	11 Years

Name	Prof. Chitralekha Rambabu Vangala
Designation	Assistant Professor
Qualification	M.E. :- Electrical Power System
Experience	Teaching :- 10 Years
Total Experience	10 Years



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Name	Prof. Kavita Ganpat Mhaskar
Designation	Assistant Professor
Qualification	M.E. :- Electrical Power System
Experience	Teaching :- 10 Years
Total Experience	10 Years

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Name	Prof. Rahul Vijay Abhyankar
Designation	Assistant Professor
Qualification	M.E. :- Power System Engineering
Experience	Teaching :- 6 Years
Total Experience	6 Years

Name	Prof. Ritesh Ramesh Chavan
Designation	Assistant Professor
Qualification	M.Tech. :- Power System Engineering
Experience	Teaching :-3.5 Years Industrial :- 3.5 Years
Total Experience	7 Years

Name	Prof. Sangita Raju Kamble
Designation	Assistant Professor
Qualification	M.Tech. :- P.E.P.S
Experience	Teaching :- 4.5 Years Industrial :- 2
Total Experience	6.5 Years

Name	Prof. Tejas Sankpal
Designation	Assistant Professor
Qualification	M.E Pursuing
Experience	Teaching :- 1 Years Industrial :- 1
Total Experience	2 Years



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Non-teaching Staff Members:

Name	Santosh Ashok Joshi
Designation	Lab Assistant
Qualification	M. Sc. Electronics & Communication (Pursuing)
Experience	Lab :- 16.5 Years Industrial : - 4 Years
Total Experience	20.5 Years

Name	Vaibhav Yashwant Patil
Designation	Lab Assistant
Qualification	I.T.I, NCVT & B.A
Experience	Lab :- 9.5 Years Industrial :- 5 Years
Total Experience	Years : - 14.5 Years

Name	Lav Sham Jadhav		
Designation Lab Assistant			
Qualification	Diploma in Electrical Engineering		
Experience Lab :- 1 Years Industrial :- 2 Years			
Total Experience	Years : - 3 Years		

Name	Sanjay Gajanan Mohite		
Designation	Peon		
Qualification	S.S.C		
Experience	Lab :- 20.5 Years Industrial :- 00 Years		
Total Experience	Years : - 20.5 Years		



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Toppers List

B.E Toppers (Semester VIII)

	Sr. No.	Rank	Name	CGPI
	F.	First	Suyash Manohar Gosavi and Chetana Narayan Thakare	9.72
N. 10 1 1 1	2.	Second	Pratik Bipin Makvana and Pratham Pandharinath Rawool	9.60
	3.	Third	Sangita Premnarayan Chauhan	9.56

T.E Toppers (Semester VI)

Sr.	Rank	Name	CGPI
No.			
1.	First	Amitkumar Vishwakarma and	9.39
		Dhanesh Sunil Patil	/
2.	Second	Prerna Pramod Ramteke	9.35
3.	Third	Anuj Ramakant Kap	9.33

S.E Toppers (Semester IV)

3	Sr.	Rank	Name	CGPI
1	No.			
	1.	First	Harsh Rajesh Shukla	9.25
4	2.	Second	Raj Pradeep Saroj	9.12
-	3.	Third	Dhruy Atul Gohil	8.88



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Departmental Activities

Every year our department conducts various events and activities to emphasize student's overall development and improvement. These include academic as well as extra curriculum activities. Students are motivated to participate and present papers in national conference. Industrial visits are also arranged time to time for getting exposure of industrial environment. Guest lectures are also organized by inviting resource person from industries of high repute. Faculty development program, approved by ISTE, is also organized for their skill development.

• TE & BE commencement of odd semester

On 11th July the odd semester for T.E (Sem V) & B.E (Sem VII) students commenced. All students were instructed to attend the college as per lectures and practicals scheduled.

• **BE Project Evaluation.**

On 12th July the BE Project Evaluation was arranged with project topics and guides allotted to the groups.

• **BE Project Evaluation.**

From **19th to 20th July** the BE Project Evaluation was scheduled. The final evaluation and approval is done by project coordinators Prof. Mishra and Prof. Abhyankar.

• SE Commencement of odd semester

On **20th July** the odd semester (SEM III) for regular students commenced as per instructions from the principal office.

• TE Project Evaluation.

From **21st to 22nd of July** the TE Project Evaluation was scheduled and project guides are allotted to groups.

• Industrial Visit

On **20th July**, an industrial visit to Deltron Electronics at Vasai was organized for T.E Students to gain practical knowledge about Transformers. During IV, students were guided by Mr. Deepak Shah (CEO) and coordinated by Prof. Yadav and Prof. Kamble.



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T.E students visited Deltron Electronics Vasai



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Industrial Visit

On **29th July**, our department had organized a one day industrial visit at Amul Dairy, Kanher, Virar-East for B.E & S.E students. Our students were guided by Mr. Ashutosh Shah, Plant In-charge and coordinated by Prof. Mishra & Prof. Vangala. During this visit, students gained knowledge about Amul dairy including history of Amul, Product range, Production department, Industrial applications of subject refrigeration and Air-Conditioning, application of industrial automations and to study the overview basics of SCADA System.



B.E students at Amul Dairy, Virar.



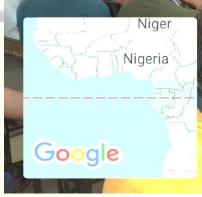
S.E students at Amul, Virar.



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• Guest Lecture

On 1st August 2022, guest lecture was arranged for SE, TE & BE students conducted by Mr.Narendra Bawankar on the topic of PLC & SCADA at 11 a.m.



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Guest Lecture by Mr.Narendra Bawankar in SE, TE & BE



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• Parents Teacher Meeting

On **6th** August 2022 parents teachers meeting 2022-23 was scheduled for SE, TE & BE students as per the academic calendar and during the meeting Department activities, student progress, and performance were discussed. The Parents were invited to this meeting well in advance. The meeting was conducted inside the second-year classroom from 9.15 AM to 11.00 AM. The meeting started with a Welcome and Introduction speech followed by a department presentation by HOD. It was followed by interaction with Parents and a Vote of Thanks at the end. Parents also visited Practical laboratories after the meeting.





Electrical teaching staff proactively participated in Parents Teachers meeting 2022-23



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• Departmental Meeting

On 6th August 2022, departmental meeting was held. Agenda was a parent-teacher meeting and training for non-teaching staff; points were noted by Prof. Sangita Kamble to maintain the meeting minutes.

• Training for non-teaching staff.

On 6th August 2022, training session was arranged by the institute for nonteaching staff to explore their skills at their workplaces.



Dr.Arun Kumar (Principal), Prof. Anojkumar and Prof. Nitesh Kumar sharing their knowledge with non-teaching staff.



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• Departmental Meeting

On 12th August 2022, the departmental meeting was held agenda was to centralize the unit test question paper format.

• Unit Test-I

From 26th August to 30th August 2022 SE, TE & BE students appeared for unit test -1 of semesters III, V & VII as per scheduled.

• Departmental Meeting

On **29th August 2022,** the departmental meeting was held agenda was on bloom level and performance index for unit test questions.

• Mid Term break

From **31st August to 5th September 2022**, the mid-term break of 6 days on occurrence of Shree Ganesh Chaturthi.

• NAAC Work.

On 10th September 2022, Saturday was working purely dedicated to NAAC's work of their respective criteria.

• Departmental Meeting

On 21st September 2022, the departmental meeting was held agenda was teaching and learning methodology.

• NAAC Work.

On **24th September 2022**, again Saturday was working purely dedicated to NAAC's work of their respective criteria as per the notice scheduled.

• Hands-on training session.

On 24th September 2022, Hands-on session was "conducted" by Prof. Ritesh arranged in the department.



Hands on session by Prof. Ritesh Chavan in Dept of Electrical Engineering



• Tech Chase 2022-23.

From **30th September to 31st September 2022,** Tech Chase was organized by the institute to explore students' talent in multiple activities and events at the college level.



The TECH CHASE 2022-23 started at 10:00 am in our institute. The institute organized a number of competitions for the Tech chase 2022-23 department wise. Many technical competition were organized too, participation from all classes and all department was very good. At 10:00 am after a brief speech from our Vice principal Archana Ingle mam, the programs started and we all participated with a lot of excitement. A number of students performed very well and won multiple prizes. A total of 20 prizes were distributed by our honorable guest and vice principal mam with gifts and certificates. On dated 31st October at 4:30 pm the program ended with lots of prizes and happy faces. At last we all participated in the closing ceremony of our Tech chase. We hope to see such healthy competing event in near future too. We thank our institute faculty and vice principal mam for giving the opportunity to students to attend this energetic event Tech chase 2022-23.





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Students participated in Electric buzz wire game arranged by electrical students.



Students participated in Magnet ball race arranged by electrical students.



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Students participated in Black line robot arranged by electrical students.



Electrical Department team in Electronics department



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• Dusshera 2022-23.

On **4th October 2022,** Dussehra was celebrated by performing Saraswati Pooja in the department. Students from SE, TE & BE proactively celebrated dussehra in the department Saraswati pooja in the Electrical department





B.E students gifted handmade Sarasvati frame to the Electrical department.



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• Guest Lecture

On 14th October 2022, guest lecture was arranged for BE students conducted by Mr.Akash Yadav on the topic implementation of power electronic devices on PCB at 11 a.m.





Guest Lecture by Mr.Akash Yadav in BE.



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• Term End

On 14th of October 2022 was a term end for SE, TE & BE students. Along with the syllabus of the semester - III, V & VII completed before term ended & this was the last academic day for the students.

• Unit Test-II

From 17th October to 19th October 2022 SE, TE & BE students appeared for unit tests -2 of semesters III, V & VII as per scheduled.

• Submission and Term work

From 20th October to 21st October 2022, submission and term work was scheduled with followed given rubrics.

• Course exit survey

On 21st October 2022, a course exit survey was taken from SE, TE & BE students in the department.

• Retest

From 27th October to 28th October 2022, a retest was scheduled for those students who failed unit tests 1 & 2.

• Oral and practical examination

From **31st October to 04th November 2022,** students appeared for an oral (viva) and practical examination of semesters III, V & VII as per scheduled.

• Remedial Lectures

From 1st November to 2nd November 2022, students appeared for remedial lectures SE, TE & BE the timetable scheduled by Prof. Chitra Vangala.

• Vacation

On 7th November vacation slot was allotted to the faculty as per guidelines and the term ended.

• DSE commencement of the new term

On **21st November** the odd semester (SEM-III) for DSE (direct second-year) students commenced through a cap round allotment.

• Theory examination

From **21st November** regular semesters III, V, and VII of theory examination commenced as per the university schedule.

• DSE project group Followup

On 1st December DSE students submitted final project topics to the second-year project in charge Prof. Tejas Sankpal as per the given schedule by the department.

• DSE UT-I

From 23rd December to 26th December 2022, DSE students appeared for unit test -1 of semesters III as per scheduled.



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• STTP

From **2nd January to 6th January 2023** AICTE-ISTE Approved Five Days Short Term Training Program was conducted STTP on "Machine learning and Data science application" scheduled in Electrical Engineering and Electronics Engineering Department" together.

Details of the speakers are as follows:

Sr no	Name of the Speaker	Designation	Contact no	Email ID
1.	Dr. Sujata Kulkarni	Associate Professor (SPIT)	26287250/26707 440 EXT: 386	sujata_kulkarni@spit.ac.in
2	Mrs. Sindhu Nair	Asst. Professor(DJSCE)	8623402112	Sindhu.nair@djsce.ac.in
3	Mrs. Samidha Kurle	Professor	8291650396	Samidhakurle@gmail.com
4	Mr. Yadnesh Zagade	Senior research and developer, CEO & Founder of Tech Cryptors	7900172288	techcryptors@gmail.com

All the speakers were well received by the attendees. The attendees gave very good feedback to all the speakers. A total of 25 participants participated in the week (5 days) training program.

An intelligent computers uses Al to think like a human and perform tasks on its own. Machine learning is how a computers system develops its intelligence. One way to train a computer to mimic human reasoning is to use a neutral network, which is a series of algorithms that are modeled after the human brain was introduced by speakers through their immense knowledge to the all Electrical and Electronics faculty members.





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Day 1: Dr. Sujata Kulkarni addresses Electrical and Electronics engineering department faculty members.



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Day 2 & 3: Professor Sindhu Nair addresses Electrical and Electronics engineering department faculty members.



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Day 4: Professor Samidha Kurle addresses Electrical and Electronics engineering department faculty members.



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Day 5: CEO of Tech Crypotors Yadensh Zagade addresses Electrical and Electronics engineering department faculty members.



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• DSE Submission and Term work

From 9th January to 13th January 2023, submission and term work was scheduled with followed given rubrics.

• DSE UT-II

From 13th January to 16th January 2023 DSE students appeared for unit test -2 of semesters III as per scheduled.

• DSE Feedback

On 16th January 2023, faculty feedback was taken from DSE students in the department.

• DSE Remedial Lectures

From 16th January to 17th January 2023, Plan for remedial lectures for DSE students instructed by Prof. Bhushan Save and the timetable scheduled by Prof. Chitra.

• DSE Retest

From 17th January to 19th January 2023, a retest was scheduled for those students who failed unit tests 1 & 2.

• DSE Oral and practical examination

From 17th January to 19th January 2023, DSE students appeared for an oral (viva) and practical examination of semesters III as per scheduled.

• Course exit survey

On 18th January 2023, a course exit survey was taken from DSE students in the department.

Annual function

From 17th January to 21st January 2023, an annual event *Hitaishi 2K23* was organized at the college level. This event included sports (indoor and outdoor) and cultural activities for students of regular SE, TE & BE to showcase their talent. This event refreshed students by temporarily distancing them from academics.

• DSE Theory examination

From 25th January 2023 regular semester III of the theory examination commenced as per the university schedule.

<u>!!Thank You</u>!!