

Department Of Electrical Engineering Newsletter May 2023



IF YOU WANT TO FIND THE SECRET OF THE UNIVERSE, THINK IN TERMS OF ENERGY, FREQUENCY AND VIBRATION.

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



Department Of Electrical Engineering Newsletter May 2023

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.



Department Of Electrical Engineering Newsletter May 2023

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.



IVA INSTITUTE OF TECHNOLOGY Department Of Electrical Engineering

Newsletter May 2023

- <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



Department Of Electrical Engineering Newsletter May 2023

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



Department Of Electrical Engineering Newsletter May 2023

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



Department Of Electrical Engineering Newsletter May 2023

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



Department Of Electrical Engineering Newsletter May 2023

Departmental Faculties

Teaching Staff Members:

Name	Dr. Deepak Sajnekar
Designation	Associate Professor
Qualification	Ph.D. in control system, M.E
Experience	Teaching :- 24 Years
Total Experience	24 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
Designation Qualification Experience Total Experience	Assistant Professor M. Tech :- Power Electronics & Drives Teaching :- 11 Years 11 Years

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



Department Of Electrical Engineering Newsletter May 2023

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

Name	Prof. Rahul Vijay Abhyankar
Designation	Assistant Professor
Qualification	M.E. :- Power System Engineering
Experience	Teaching :- 7.5Years
Total Experience	7.5 Years

Name	Prof. Ritesh Ramesh Chavan
Designation	Assistant Professor
Qualification	M.Tech. :- Power System Engineering
Experience	Teaching :-4 Years Industrial :- 3.5 Years
Total Experience	7.5 Years

Name	Prof. Sangita Raju Kamble
Designation	Assistant Professor
Qualification	M.Tech. :- P.E.P.S
Experience	Teaching :- 5 Years Industrial :- 2
Total Experience	7 Years

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



Department Of Electrical Engineering Newsletter May 2023

Non-teaching Staff Members:

Name	Santosh Ashok Joshi
Designation	Lab Assistant
Qualification	M. Sc. Electronics & Communication (Pursuing)
Experience	Lab :- 17 Years Industrial : - 4 Years
Total Experience	21 Years

Name	Vaibhav Yashwant Patil
Designation	Lab Assistant
Qualification	I.T.I, NCVT & B.A
Experience	Lab :- 10 Years Industrial :- 5 Years
Total Experience	Years : - 15 Years

Name	Lav Sham Jadhav		
Designation	Lab Assistant		
Qualification	Diploma in Electrical Engineering		
Experience	Lab :- 1.2 Years Industrial :- 2.1 Years		
Total Experience	Years : - 3.3 Years		

Name	Sanjay Gajanan Mohite	
Designation	Peon	
Qualification	S.S.C	
Experience	Lab :- 21 Years Industrial :- 00 Years	
Total Experience	Years : - 21 Years	



Toppers List

B.E Toppers (Semester VII)

1.11	1 Salaraha		and the second of the second o
Sr.	Rank	Name	CGPI
No.			
1.	First	Danesh Patil &	8.89
		Prerna Ramteke	TYX IP
2.	Second	Rinkal Patil	8.86
			AL D
3.	Third	Anuj Kap	8.84

T.E Toppers (Semester V)

Sr. No.	Rank	Name	CGPI
1.	First	Harsh Shukla	8.12
2.	Second	Mayur Pathare	8.07
3.	Third	Akash Naik	7.66

S.E Toppers (Semester III)

Sr. No.	Rank	Name	CGPI
1.	First	Omkar Kargutkar	9.25
 2.	Second	Roshan Joil	7.75
3.	Third	Rushikesh Pawar	7.42



Department Of Electrical Engineering Newsletter May 2023

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.

• SE, TE & BE commencement of even semester

On **9th January 2023**, the even semester for S.E (Semester IV), T.E (Semester V) & B.E (Semester VII) students commenced. all students were instructed to attend the college as per the scheduled lectures and practicals.

• 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.

GPS Map Camera



Thane, Maharashtra, India FVF5+G8C, Chandansar, Thane, Maharashtra 401303, India Lat 19.474042° Long 72.85848° 16/01/23 01:10 PM GMT +05:30



Department Of Electrical Engineering Newsletter May 2023

• Guest Lecture

On 23rd January 2023, a guest lecture was arranged for TE students conducted by Mr. Manish Wete on the topic of Electrical Safety at 2:00 p.m.

CPS Map Camera Thane, Maharashtra, India FVF5+G8C, Chandansar, Thane, Maharashtra 401303, India Lat 19.474042° Long 72.85848° 23/01/23 02:21 PM GMT +05:30





Department Of Electrical Engineering Newsletter May 2023

• DSE Theory examination

From 25th January to 15th February 2023, regular semester III of the theory examination commenced as per the university schedule.

•Industry Institute Meet

On **27th January 2023**, Industry Institute Meet session was arranged for SE, TE & BE students from all departments conducted by experts from reputed industries on the topic of guidance on startup & entrepreneurship culture, Additional skills required, Expectations of the industries from fresh engineers, and suggestion from the panelist at 2:00 p.m. in the seminar Hall.

CIIA Innovation Exhibition Project Competition

From **2nd February to 3rd February 2023**, CIIA Innovation Exhibition cums project competition in Worli was organized for B.E Students. There was two groups of our college from the Department of Electrical Engineering. The table was given to individual groups and one table was representing our college.





• NSS Camp

From **4th February to 10th February 2023,** S.E & T.E students participated in NSS Camp. this was to support students to show performance in extracurricular activities on a social platform to develop their personalities. NSS Camp of VIVA INSTITUTE OF TECHNOLOGY commenced on the 04th of February under the program officer of the NSS unit Mr. Ashish Shetty and other unit staff members at Makwana Farm House, Bhatane.

• Industrial Visit

On **15th February 2023**, B.E Students had an industrial visit to the HVDC substation at Padgha to give practical clarification of the Transformers guided by Mr. Sunil Pawar (Chief Engineer) and coordinated by Prof. Rahul.



Department Of Electrical Engineering Newsletter May 2023





Department Of Electrical Engineering Newsletter May 2023

• Health checkup NSS

On 16th February 2023, a Health checkup camp was organized for all students and staff of every department in the institute.

• Feedback-I

On 17th February 2023, faculty feedback-I was taken from the department's SE, TE & BE students.

• UT-I

From 24th February to 28th February 2023, TE & BE students appeared for unit test -1 of semesters VI & VIII as scheduled.

• UT-I

From 2nd March to 4th March 2023, SE students appeared for unit test -1 of semester IV as scheduled.

• NCRENB

From **3rd March to 4th March 2023**, BE students and faculty members from every department proactively participated in NCRENB as scheduled.





Department Of Electrical Engineering Newsletter May 2023

GPS Map Camera

Virar, Maharashtra, India

At VIVA INSTITUTE OF TECHNOLOGY Shirgaon, Veer Savarkar Road, Vasai,Thane, FVF5+CG3, Chandansar, Virar, Maharashtra 401303, India Lat 19.473959° Long 72.858761° 04/03/23 09:42 AM GMT +05:30

NCREBE Committee members



VIVA INSTITUTE OF TECHNOLOGY Department Of Electrical Engineering

Newsletter May 2023

• Women's Day Celebration

On **8th March 2023**, Women's Day was celebrated with a beautiful and thoughtful speech by guests Dr. Trupti Patil and Prof. Bhagyshree Netke. She explained the role of women and their greatness in every sphere of our lives and to encourage women's empowerment organized an Extempore Competition in the seminar hall and the Programme was concluded by singing the national anthem.

WDC-Street Play-23





FVF5+G8C, Chandansar, Thane, Maharashtra 401303, India Lat 19.474429° Long 72.858005° 08/03/23 10:54 AM

WDC-Donation Drive-23



At Shirgaon, Veer Savarkar Road, Vasai,Thane, FVF5+CG3 Chandansar, Virar, Maharashtra 401303, India Lat 19.474173° Long 72.85995° 08/03/23 11:53 AM GMT +05:30



GPS Map Camera



Department Of Electrical Engineering Newsletter May 2023

Industrial Visit

On **9th March 2023**, T.E Students had an industrial visit to Carshed at Virar(W) to give practical clarification of the local train guided by Mr. Manish S. and coordinated by Prof. Anojkumar Yadav and Prof. Chitralekha Vangala.







Nala Sopara, Maharashtra, India CRJ8+XPV, Oswal Nagari, Nalasopara East, Nala Sopara, Maharashtra 401209, India Lat 19.432747° Long 72.815192° 09/03/23 03:05 PM GMT +05:30



Department Of Electrical Engineering Newsletter May 2023

Workshop on Arduino

On 15th & 16th March 2023, T.E Students had a workshop on Arduino and its programming by an expert lecturer and founder of crypto Mr. Yadnesh Zagade.



GPS Map Camera

Thane, Maharashtra, India FVF5+G8C, Chandansar, Thane, Maharashtra 401303, India Lat 19.474359° Long 72.858289° 15/03/23 10:56 AM GMT +05:30





VIVA INSTITUTE OF TECHNOLOGY Department Of Electrical Engineering

Newsletter May 2023

• Webinar

On **21st March 2023**, S.E and T.E students had a webinar on Recent Trends in Industrial Automation. by expert Mr. Amit Rao

<complex-block>

21/03/23 11:37 AM GMT +05:30



Virar, Maharashtra, India Shirgaon, Veer Sawarkar road, Virar (East) Tal- Vasai Dist- Palghar Maharashtra Lat 19.472921° Long 72.857217° 21/03/23 11:31 AM GMT +05:30



Department Of Electrical Engineering Newsletter May 2023

Industrial Visit

On **23rd March 2023**, S.E & T.E Students had an industrial visit to the Adani power plant at Dahanu to give practical clarification of the generation of electricity guided by Mr.Dhiraj Chauhann (Expert Engineer) coordinated by Prof.Mukesh Mishra and Prof. Kavita Mahskar.







Department Of Electrical Engineering Newsletter May 2023

• Convocation and Alumni meet 2022-23

On 1st April 2023, convocation and alumni meet 2022-23 was scheduled in the auditorium at 9:30 a.m. addressed by the Principal and all departmental HODs.





Google

Virar, Maharashtra, India Viva institute of technology shirgaon.virar(E)401305 Lat 19.473799° Long 72.858565° 01/04/23 11:32 AM GMT +05:30

💽 GPS Map Camera



Department Of Electrical Engineering Newsletter May 2023

• Departmental Meeting

On 1st April 2023, the departmental meeting was held agenda was to update the new format for report writing.

• Technovation Project Competition

On 6th April 2023, the Technovation Project Exhibition was arranged for S.E, T.E & B.E students to showcase their skills at the college level.



Shirgaon, Maharashtra, India Viva Institute of technology FVC5+CC6, Shirgaon, Maharashtra 401303, India Lat 19.470972° Long 72.861209° 06/04/23 03:37 PM GMT +05:30

💽 GPS Map Camera





Department Of Electrical Engineering Newsletter May 2023

• Feedback - II

On 17th April 2023, students from SE, TE & BE gave feedback - II on their respective subjects.

• UT-II

From 17th April to 19th April 2023, SE, TE & BE students appeared for unit test -2 of semesters IV, VI & VIII as scheduled.

• Subject choice

On 18th April 2023, students from SE gave a subject choice for the coming semester -V from their respective optional subjects.

• Subject choice

On 19th April 2023, students from TE gave subject choice for the coming semester -VII from their respective optional subjects.

• Submission of Term Work

From 19th April to 21st April 2023, students from SE, TE & BE submissions were scheduled for their practical and file corrections.

• Term End

On **21st of April 2023**, 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.

•Oral and Practical Examination

From the 24th of April to the 28th of April 2023, the oral and practical examinations were scheduled for semesters IV, VI & VIII.

• Theory examination

From 10th May 2023, regular semesters IV, VI, and VIII of theory examination commenced as per the university schedule.

• NAAC Work.

On 1st May 2023, Maharashtra Day was non-instructional working purely dedicated to NAAC work of their respective criteria as per the notice schedule.

• NAAC Work.

On 5th May 2023, Buddha Purnima was non-instructional working purely dedicated to NAAC work of their respective criteria as per the notice schedule.

• NAAC Work.

On 13th May 2023, the 2nd Saturday was non-instructional working purely dedicated to NAAC work of their respective criteria as per the notice schedule.



Department Of Electrical Engineering Newsletter May 2023

• Internal Academic Audit.

On 12th June 2023, the Internal Academic Audit was scheduled as per the notice in the department.

• Fire Safety Training Program.

On 13th June 2023, the Fire Safety Training Program was organized for all teaching and non-teaching staff as per the notice circulated.

• External Academic Audit.

On 20th June 2023, the External Academic Audit of the year 2018-19, 2019-20, 2020-21 and 2021-22 was scheduled as per the notice in the department.

• STTP

From **26th June** to **1st July 2023**, AICTE-ISTE Approved Five Days Short Term Training Program was conducted STTP on "QUALITY EXCELLENCE THROUGH ACCREDITATION " organized by the Internal Quality Assurance Cell (IQAC) of VIVA INSTITUTE OF TECHNOLOGY in seminar hall.

Details of the speakers are as follows:

Sr. no.	Торіс	Resource Person	Date	Email ID
1	Quality Assurance in Engineering Educatio n- An overview.	Dr. Vikas Gupta	26/06/2023	
2	NAAC RAF and its relevance to NEP	Dr. Shankar B. Kadam	27/06/2023	sbkadam@vishwaniketan.edu.in
3	Curricular Aspects and Teaching Learning	Dr. Shashikant S. Patil	29/06/2023	sspatil@vishwaniketan.edu.in
4	Institutionalization of best practices	Dr. Shashikant S. Patil	30/06/2023	sspatil@vishwaniketan.edu.in
5	Strategic Planning and Management	Dr. Joanne Gomes	01/07/2023	igomes@sfit.ac.in



VIVA INSTITUTE OF TECHNOLOGY Department Of Electrical Engineering Newsletter May 2023

All the speakers were well received by the attendees. The attendees gave very good feedback to all the speakers. Participants from all department participated in the week (5 days) training program.

Higher education plays a crucial role in the growth and nation development in social, economic, cultural, scientific, and political respects. Education empowers people to transform from human beings to human resources. In the present context of globalization, quality higher education is needed to uplift creativity, talent, adaptability, and research mindset. In order to fully utilize the outcomes of education, it is important to ensure that education is meeting the minimum prescribed standards to fulfill ever-changing requirements worldwide. Accreditation, a powerful tool of quality assurance, is used to assess the national system of higher education. Accreditation is considered a quality stamp, which ensures that an accredited institution/program has undergone a rigorous process of external peer evaluation based on predefined standards/principles and complies with the minimum requirements. This paper focuses on the outcomes of accreditation to enhance excellence in higher education institutions (HEIs) based on a literature review and empirical research. Previous studies in various national contexts are reviewed here, based on which, the question of whether accreditation can really enhance the excellence of HEIs is answered and factors behind it are explored.

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