



VIVA INSTITUTE OF TECHNOLOGY
Department of Electrical Engineering
Newsletter May 2024

NEWSLETTER
MAY 2023-24



I have not failed, but found 1000 ways to not make a light bulb.

THOMAS EDISON



VIVA INSTITUTE OF TECHNOLOGY

Department of Electrical Engineering

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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.

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 student 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.



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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.
- **Ethics:** 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.



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



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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 student's 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. Measurement Lab
5. Communication Lab
6. PSPS Lab
7. Project Lab
8. BEE Lab
9. Computer Lab
10. Simulation 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 one-step 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 your 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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Teaching Staff Members:

Name	Dr. Deepak Sajnekar
Designation	Associate Professor
Qualification	Ph.D. in control system, M. E
Experience	Teaching: - 25 Years
Total Experience	25 Years

Name	Prof. Bhushan Sharad Save
Designation	Assistant Professor (HOD)
Qualification	M.E.: - EXTC
Experience	Teaching: - 18 Years Industrial: - 1 Year
Total Experience	19 Years

Name	Prof. Anoj Kumar Yadav
Designation	Assistant Professor
Qualification	M. Tech: - Power Electronics & Drives
Experience	Teaching: - 13 Years
Total Experience	13 Years

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

Name	Prof. Sangita Raju Kamble
Designation	Assistant Professor
Qualification	MTech.: - P.E.P. S
Experience	Teaching: - 6 Years Industrial: - 2
Total Experience	8 Years



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Name	Prof. Tejas Sankpal
Designation	Assistant Professor
Qualification	M.E Pursuing
Experience	Teaching: - 2 Years Industrial: - 1
Total Experience	3 Years

Name	Prof. Amit Kumar Vishwakarma
Designation	Assistant Professor
Qualification	B. E
Experience	Teaching: - 1Years Industrial: - 1
Total Experience	2 Years

Name	Prof. Sapna Gahlot
Designation	Assistant Professor
Qualification	M.Tech :- Power Electronics & Drives
Experience	Teaching :- 3.5 Years Industrial :- 0
Total Experience	3.5 Years

Name	Prof. Reema Gupta
Designation	Assistant Professor
Qualification	M.E Pursuing
Experience	Teaching: - 2 Years Industrial: - 1
Total Experience	3 Years



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Non-teaching Staff Members:

Name	Santosh Ashok Joshi
Designation	Lab Assistant
Qualification	M. Sc. Electronics & Communication (Pursuing)
Experience	Lab: - 18 Years Industrial: - 4 Years
Total Experience	22 Years

Name	Vaibhav Yashwant Patil
Designation	Lab Assistant
Qualification	I.T.I, NCVT & B. A
Experience	Lab: - 11 Years Industrial: - 5 Years
Total Experience	Years: - 16 Years

Name	Lav Sham Jadhav
Designation	Lab Assistant
Qualification	Diploma in Electrical Engineering
Experience	Lab: - 2.2 Years Industrial: - 2.1 Years
Total Experience	Years: - 4.3 Years

Name	Sanjay Gajanan Mohite
Designation	Peon
Qualification	S.S.C
Experience	Lab: - 22 Years Industrial: - 00 Years
Total Experience	Years: - 22 Years



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Toppers List

B.E Toppers (Semester VII)

Sr No	Rank	Name	CGPI
1.	First	Saroj Raj Pradeep	7.62
2.	Second	Patel Jay Dilip	7.43
3.	Third	Patil Bhagyashri Prabhakar	7.38

T.E Toppers (Semester V)

Sr No	Rank	Name	CGPI
1.	First	Joil Roshan Shamsundar	8.86
2.	Second	Kargutkar Omkar Vijay	8.5
3.	Third	Urumkar Kartik Shreedhar	7.27

S.E Toppers (Semester III)

Sr. No.	Rank	Name	CGPI
1.	First	Lihitkar Ankita Gautam	6.75
2.	Second	Shaikh Mustafaiz Mohd.	6.42
3.	Third	Pandya Tejas Maheshbhai	5.83



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Welcome to the Electrical Engineering Department, where innovation sparks and dreams of electrifying the future come to life. This year the department conducted various events and activities to emphasize student overall development and improvement. Beyond the classroom, departments spearhead research endeavors, contributing to the advancement of knowledge. This includes academic as well as extracurricular activities. Students are motivated to participate and present papers at national-level conferences. Industrial visits are also arranged occasionally to get exposure to the industrial environment. Guest lectures are also organized by inviting resource persons from industries. The faculty development program, approved by ISTE, is also organized for their skill development.

● Faculty Development Program

From **2nd January to 6th January 2024**, a five-day short term training Faculty Development Program (FDP) on Scientific Research Papers and Intellectual Property Rights was conducted by the Indian Society for Technical Education (ISTE) in collaboration with Mumbai University. This program helps the faculty members to write high-quality research papers and understand intellectual property rights.



Highlights from ISTE's FDP on Scientific Research Papers and Intellectual Property Rights

● Departmental Meeting

On **5th January 2024**, the departmental meeting was held focusing on the commencement of the Even Semester including course outlines, examination schedules planning of bridge courses, and preparations for upcoming cultural events including registration and participant coordination to make Hitaishi 2024 successful.



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- **Commencement of Even semester 2023-24**

On **8th January 2024**, the commencement of the even semester for students of Second Year (SE), Third Year (TE), and Fourth Year (BE). All students were instructed to attend the college as per lectures and practical schedules. The guideline was provided to students on course registration. The faculty member provided guidance on using digital platforms for online learning.

- **Training and Placement Drive**

On **10th January 2024**, the training and placement drive bridged the gap between academics and industry, providing our students an invaluable opportunity to start their careers. The placement drive was conducted in collaboration with Axis Electricals for Bachelor of Engineering (BE) students. The placement drive is planned to support students in securing employment opportunities.



Axis Electricals Collaborates for BE Students' Placement Drive

- **Hitaishi 2024**

From **15th January to 19th January 2024**, the Cultural event and Sports Week were held to celebrate the diverse talents of students, faculty, and other staff members. The cultural event and extracurricular activities witnessed a vibrant atmosphere.



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Celebrating Talent and Spirit in Cultural Event and Sports Week

• Training and Placement Drive

On **23rd January & 24th January 2024**, the training and placement drive bridged the gap between academics and industry, providing our students an invaluable opportunity to start their careers. The training and placement drive was conducted in collaboration with ARROW Electricals and PROP. Check Up for Bachelor of Engineering (BE) students for their career and professional development.



ARROW Electricals and PROP. Check Up Collaborates for BE Students' Placement Drive



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- **BIS Activity**

On **25th January & 29th January 2024**, Bureau of Indian Standards (BIS) activity was conducted for Second Year (SE) and Third Year (TE) students to know the standards formulations of electrical equipment. The activity improves problem-solving skills and prepares students for challenges in the business environment.

- **Mini Project Review 1**

On **30th January & 31st January 2024**, the review was conducted to evaluate the initial findings and objectives of the mini-project under the guidance of the allotted panel undertaken by TE students. The faculty provide valuable feedback and further suggestions for their project.

- **Major Project Review 1**

On **1st February & 2nd February 2024**, the review was conducted to evaluate research objectives and primary findings related to a major project under the guidance of an allotted panel undertaken by BE students. The faculty members provide feedback and suggestions for further development.

- **Departmental Meeting**

On **3rd February 2024**, a departmental meeting was held to discuss the key strategies related to NBA and NCRENB. The clear and follow-up actions were highlighted to monitor progress and timely task completion related to NBA (National Board of Accreditation) Follow-up and NCRENB (National Conference on Role of Engineers in National Building) 2024.

- **Mentor Meeting**

Every Monday mentor meeting was conducted by mentors regarding student queries and performance. The faculty helps the students to identify areas where they can improve or develop further. This could involve discussing specific skills, knowledge gaps, or behaviors that need attention.

- **Mini Project Review 1**

From **7th February to 9th February 2024**, the review was conducted to evaluate the initial findings and objectives of the mini-project under the guidance of the allotted panel undertaken by SE students. The faculty provide valuable feedback and further suggestions for their project.

- **Student Feedback 1**

On **8th February 2024**, the feedback session was conducted for Second Year (SE), Third Year (TE), and Fourth Year (BE) students to express their opinions and suggestions regarding teaching methodology, and course content. Suggestions taken through feedback, improve communication channels between students and faculty.



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● Display Defaulter list

Every month defaulter list is displayed as a reminder of the shortage of attendance of Second Year (SE), Third Year (TE), and Fourth Year (BE) students. Students are advised to maintain 75% attendance and take necessary actions to improve their academic requirements. The department is committed to maintaining transparency throughout the academic for the well-being and academic success of all students.

● Letter to Parents

After the defaulter list is displayed, a letter is issued by the department to update parents on their ward's academic progress and overall performance, achievements, and areas of improvement of Second Year (SE), Third Year (TE), and Fourth Year (BE) students. The department is committed to maintaining open lines of communication with parents and ensuring involvement in their child's educational journey.

● IA 1

From **21st February to 23rd February 2024**, Internal assessment 1 (IA1) was conducted for Second Year (SE), Third Year (TE), and Fourth Year (BE) students of semesters IV, VI, and VIII to evaluate the student's knowledge regarding course material as per Mumbai University schedule.

● Industrial Visit

On **23rd February 2024**, Bachelor of Engineering (B.E) students had an industrial visit to the Amul Dairy at Virar, they observed various stages of milk processing, packaging, and quality control measures. The practical knowledge of automation, packaging, and PLC was guided by Mr. Baby D'Souza (Production Manager).



B.E Students Visit Amul Dairy for Practical Learning in Milk Processing and Automation



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● Display Result of IA 1

On **28th February 2024**, the Internal Assessment (IA1) result displayed that Second Year (SE), Third Year (TE), and Fourth Year (BE) students showed performance and identified areas for improvement. The examination evaluated the student's academic progress. Counseling sessions were conducted for slow learners to address any challenges they encountered during IA1. The display of results and counseling sessions aimed to identify the strengths and areas for improvement of the student.

● Remedial Lectures

From **27th February to 7th March 2024**, the remedial lectures were conducted for academic improvement regarding subjects of Second Year (SE), Third Year (TE), and Fourth Year (BE) students. The lectures are provided to students for extra help in understanding the subjects. These lectures covered the specific areas of difficulty identified through assessments.

● NSS Event 2024

From **28th February to 7th March 2024**, the NSS event was conducted at Makwana Farm House Bhatane following activities like team making, street play, distribution of AYUSH medicines, rally on the importance of voting, and visit to an orphanage for book donation under the program officer of the NSS unit Mr. Sushil Mishra and other unit staff.





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NSS Event Promotes Civic Engagement and Social Responsibility

• Departmental Meeting

On **6th March 2024**, the departmental meeting was held to discuss the Course Outcomes (CO) and Program Outcomes (PO) for the odd semester 2023-24. Faculty members gave feedback on the existing CO-PO framework. The meeting focused on achieving greater efficiency and accuracy in documentation processes for continuous improvement and excellence.

• Seminar

On **6th March 2024**, an online seminar was conducted on Python, a widely used programming language in coding and software development. The seminar was delivered by Mr. Mathivanan Balakrishnan, Head of Research Publications and Quality Assurance of ICT Academy.

• Seminar

On **11th March 2024**, the online seminar was conducted on Technical Paper Writing covering topics such as structure, clarity, and guidelines to produce high-quality research papers. The seminar was delivered by Mr. G. Narendra, a Software Engineer at Python Developer.

• Mini Project Review 2

From **13th March to 14th March 2024**, the review was conducted to evaluate the progress and outcomes of the mini-project under the guidance of the allotted panel undertaken by TE students. The faculty provide valuable feedback and further suggestions for their project.



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● NCRENB 2024

From 15th March to 16th March 2024, the National Conference on “Role of Engineers in National Building” was conducted for the faculty members and students to exchange knowledge and discuss advancement in technology. The NCRENB 2024 provides a platform to present research papers regarding projects or research.



Participants' Exchange Knowledge and Technology Advancement



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● External Academic Audit

On **15th March 2024**, an External Academic Audit was conducted by Dr. Sunyana Jadhav, Assistant Professor at Vidyavardini's College of Engineering and Technology. The audit process included documentation reviewed.



External Academic Audit Conducted by Dr. Sunyana Jadhav

● Departmental Meeting

On **16th March 2024**, the departmental meeting was held regarding Convocation for pass out batch 2022-23 and the Alumni meet 2024. Detailed discussion was held regarding the agenda and guest invitations for the convocation aiming to ensure a meaningful event for our graduating students. Plans for alumni meet focused on celebrating the achievements of our esteemed graduates. The meeting also provided an opportunity to introduce the newly joined faculty members to the departmental team.

● Mini Project Review 2

From **19th March to 21st March 2024**, the review was conducted to evaluate the progress and outcomes of the mini-project under the guidance of the allotted panel undertaken by SE students. The faculty provide valuable feedback and further suggestions for their project.

● Major Project Review 2

On **22nd March 2024**, the review was conducted to evaluate research objectives and outcomes related to a major project under the guidance of an allotted panel undertaken by BE students. The faculty members gave suggestions regarding simulation and hardware models.



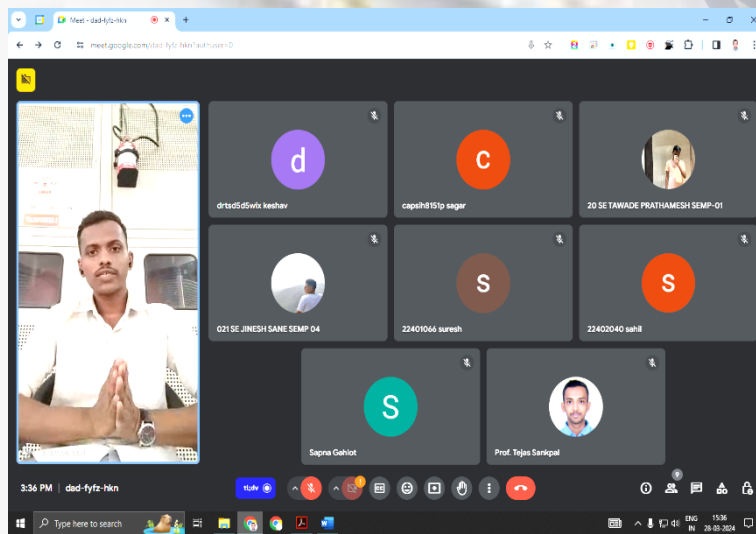
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● Guest Lecture

On **28th March 2024**, a guest lecture was organized for the Second Year (SE) and Third Year (TE) students conducted by the department on “Comparative Analysis of Electrical Traction System for Modern Metros”. The guest speaker Mr. Pramod Patil, Field Engineer at SKYLARK (Garuda Enterprises) shared the latest advancements and technologies in electrical traction systems used in modern metro transportation.



Guest Lecture by Mr. Pramod Patil benefitting SE and TE Students

● Industrial Visit

On **5th April 2024**, S.E. Students had an industrial visit to Deltron Electronics at Vasai to give brief and advancement knowledge of transformer manufacturing and operation of the Transformers guided by Mr. Chintan Shah (Managing Director).



SE Students Explore Transformer Manufacturing at Deltron Electronics



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• Technovation 2023-24

On 5th April 2024, Technovation 2024, an intercollegiate project competition was held and provided a platform for the students to present their projects. The industry person Mr. Pawan Kumar Jaiswal, Deputy Manager in the analysis division in Diagnostic Technology India Pvt. Ltd., and Mr. Rohit Kushwah, R&D Engineer at Prolific System & Technologies Pvt. Ltd. evaluated the project based on criteria such as research and innovation.



Students Project Judged by Mr. Pawan Kumar Jaiswal and Mr. Rohit Kushwaha



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● Alumni Meet 2024 and Convocation 2023-24

On 6th April 2024, the alumni meet 2024, and the convocation ceremony of batch 2022-23 was conducted for the pass-out students. Both events celebrated the graduated student's hard work and dedication and reconnected students with old friends. Graduates were conferred with their degrees as a symbol of years of study, growth, and personal development.



Highlights from Alumni Meet and Convocation Ceremony



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● Guest Lecture

On 8th April 2024, a guest lecture was organized for Second Year (SE), Third Year (TE) & Fourth Year (BE) students by the department on “Entrepreneurial Opportunities”. The guest speaker Mr. Pratik Jhunjhunwala, Managing Director at CRP Control-Engineer shared valuable experiences and challenges of entrepreneurship. The lecture covered topics such as idea generation, planning, and strategies.



Guest Lecture by Mr. Pratik Jhunjhunwala for SE, TE, and BE Students

● Student Feedback 2

On 10th April 2024, the feedback session was conducted for Second Year (SE), Third Year (TE) & Fourth Year (BE) students to express their opinions and suggestions regarding teaching methodology and infrastructure facilities. Suggestions taken through feedback improve communication channels between students and faculty.

● Guest Lecture

On 12th April 2024, a guest lecture was organized for Second Year (SE), Third Year (TE) & Fourth Year (BE) students by the department on “Modern Cable Management Solutions with Heat Shrinkable Products.” The guest speaker Mr. Jaychand Bind, Engineer-Technical at Gala Shrink Fit delivered the latest advancements in cable management technology and the benefits and uses of heat shrinkable products in industries.



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Guest Lecture by Mr. Jaychand Bind for SE, TE, and BE Students

- **IA 2**
From **15th April to 18th April 2024**, internal assessment 2 was conducted for Second Year (SE), Third Year (TE) & Fourth Year (BE) students of semesters IV, VI, and VIII to evaluate the student knowledge regarding course material as per Mumbai University scheduled.
- **Subject Choice Meeting**
On **15th April 2024**, a subject choice meeting was conducted for Second Year (SE) and Third Year (TE) students for the upcoming V and VII semesters from their respective optional subjects. The faculty member provided detailed information about the curriculum, learning outcomes, and career prospects associated with various subject options. The focus was on the importance of balancing core subjects and elective subjects.
- **Course Exit Survey**
On **16th April 2024**, a course exit survey was taken from Third Year (TE) and Fourth Year (BE) students in the department. The survey was conducted to take feedback regarding course content, teaching methodologies, and academic support provided by the department. The survey process was confidential to ensure students felt comfortable sharing their opinions.



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● Program Exit Survey

On **16th April 2024**, a program exit survey was taken from fourth Year (BE) students in the Department of Electrical Engineering. The survey feedback helps to monitor strengths and areas for improvement in the Fourth Year (BE) program. The survey included the effectiveness of teaching methodologies, adequacy of resources, industry exposure, and support services provided by the department.

● Course Exit Survey

On **18th April 2024**, a course exit survey was taken from Second Year (SE) students in the department. The survey was conducted to take feedback regarding course content, teaching methodologies, and academic support provided by the department. The survey process was confidential to ensure students felt comfortable sharing their opinions.

● Display the Result of IA 2

On **19th April 2024**, the Internal Assessment (IA2) result displayed of Second Year (SE), Third Year (TE) and Fourth Year (BE) shows student performance and identify areas for improvement. The examination evaluated the student's academic progress.

● Submission of Term Work

On **19th April 2024**, the submission of term work was organized for Second Year (SE), Third Year (TE), and Fourth Year (BE) students including term work, assignments, projects, and other academic activities. The faculty members provided necessary guidance and support to ensure the completion and submission of term work.

● Term End

On **19th April 2024**, there was a term end for Second Year (SE), Third Year (TE) and Fourth Year (BE) students. Along with the syllabus, projects, assignments, and practical sessions of semesters IV, VI, and VIII completed before term end.

● Remedial Lectures

From **22nd April to 26th April 2024**, the remedial lectures were conducted for academic improvement regarding subjects of Second Year (SE), Third Year (TE), and Fourth Year (BE) students. The lectures are provided to students for extra help in understanding the subjects. These lectures covered the specific areas of difficulty identified through assessments.

● Retest

From **22nd April to 25th April 2024**, the retest was conducted for Second Year (SE), Third Year (TE), and Fourth Year (BE) students who failed or were either absent in internal assessments 1 and 2. The retest offers students a second chance to improve their grades and learning. Faculty members provided additional support and resources to help students prepare for the retest.



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• Oral and Practical examination

From **22nd April** to **26th April 2024**, students appeared for an oral (viva) and practical examination of semesters IV, VI, and VIII as scheduled. The examination aimed to evaluate students' ability to apply theoretical concepts to real-world scenarios.

• Vacation

On **30th April 2024**, vacation slot was allotted to the faculty as per guidelines and the term end. The faculty member allowed to take their vacation slots. The vacation slots help the faculty member to promote relaxation, personal growth and quality time with their family. The department expresses gratitude to faculty members for their hard work and dedication.

• Departmental Meeting

On **9th May 2024**, the departmental meeting was focused on course file submission, exam duty allocation, and training for non-teaching lab execution. Faculty members discussed and finalized the procedures and deadlines for course file submission. Exam duties were allocated to ensure the smooth conduct of the examination. Training sessions for non-teaching lab execution were organized to enhance staff proficiency in laboratory management and safety protocols.

• STTP

From **6th May** to **13th May 2024**, the University of Mumbai and ISTE Approved One-week Short Term Training Program was conducted on "**Foundations of Computing and Data Analysis**" organized by Department of Electrical Engineering and Electronics and Telecommunication Engineering Department" together.

Details of the speakers are as follows:

Sr. no.	Name of the Speaker	Designation	Topic
1.	Dr. Brijesh Joshi	Associate Professor	Basics of Software Engineering
2	Ms. Esha Prakash	Data Science Domain Expert	Data Analysis and Visualization in Power BI
3	Dr. Harshali Patil	Associate Professor	Cyber Security
4	Mrs. Sonia Dubey	Assistant Professor	Computer Network Fundamentals
5	Mr. Nirav Patel	Training and Development Manager	IoT Emerging Technology and Database Fundamentals



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All the speakers were well received by the attendees. The attendees gave very good feedback to all the speakers. A total of participants participated in the week-long training program.

- **Basics of Software Engineering**



Session on Basics of Software Engineering by Dr. Brijesh Joshi

Dr. Brijesh Joshi, associate professor in the field of software engineering, integrates technical expertise with strategic planning and execution. According to Dr. Joshi, this initial phase sets the foundation for the entire process, ensuring that the software aligns closely with user needs and organizational goals. Software design is about creating robust architectures that support scalability, maintainability, and efficiency. The approach also stresses the significance of deployment strategies tailored to the specific context of the software use, whether in traditional on-premises environments or modern cloud-based deployments.

Maintenance is not just about fixing bugs but about continuous improvement and adaptation to evolving requirements. He emphasizes the role of effective communication and collaboration among team members and stakeholders to ensure that all aspects of software engineering—from initial concept to ongoing maintenance are aligned with the broader strategic objectives of the organization.



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- **Data Analysis and Visualization in Power BI**



Session on Data Analysis and Visualization by Ms. Esha Prakash

Ms. Esha Prakash, a data science domain expert, brings a comprehensive approach to data analysis and visualization through Power BI. Power BI offers a robust platform for integrating data from various sources, cleaning and transforming it into meaningful datasets that facilitate analysis. Data analysis involves applying statistical techniques and machine learning algorithms to uncover patterns trends, and correlations within the data. The importance of storytelling through data visualization, using Power BI's capabilities to create compelling narratives that communicate findings effectively to stakeholders. Her approach highlights the iterative nature of data analysis, where continuous refinement and validation of insights are crucial to ensure accuracy and relevance.

Her guidance inspires data scientists and analysts to harness the full potential of Power BI, transforming complex data into actionable intelligence that drives innovation and competitive advantage in today's data-driven world.



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- **Cyber Security**



Session on Cyber Security by Dr. Harshali Patil

Dr. Harshali Patil, an esteemed Associate Professor brings a wealth of knowledge and expertise to the field. Her approach emphasizes a proactive against evolving cyber threats, focusing on preventive measures, detection, and response strategies. Dr. Patil advocates for a comprehensive understanding of cyber security principles, including risk assessment, vulnerability management, and threat intelligence.

Dr. Patil underscores the importance of establishing robust security protocols and frameworks tailored to the specific needs of organizations. This includes mechanisms and access controls to safeguard sensitive data and systems from unauthorized access and cyberattacks.

- **Computer Network Fundamentals**

Mrs. Sonia Dubey covers the basics of network architecture, including the roles of routers, switches, firewalls, and other network devices. She explores the OSI (Open Systems Interconnection) and TCP/IP models, providing insights into how data is transmitted, routed, and managed at different layers of the network stack.

Mrs. Dubey includes discussions on network addressing, subnetting, and the allocation of IP addresses, essential for configuring devices to connect within local area networks (LAN) and wide area networks (WAN). She emphasizes the importance of network security principles, such as encryption, authentication, and intrusion detection, to protect data integrity and privacy.



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Session on Computer Network Fundamentals by Mrs. Sonia Dubey

She includes network performance optimization techniques, such as Quality of Services (QoS) and traffic management, to ensure reliable and efficient network operations.

- **IoT Emerging Technology and Database Fundamentals**



Session on IoT Emerging Technology and Database Fundamentals by Mr. Nirav Patil



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Mr. Nirav Patil, a Training and Development Manager, underscores the transformative potential of IoT, where everyday devices and sensors are interconnected through the internet, enabling data collection, analysis, and automation on a scale previously unimaginable. IoT fundamentals include the architecture, protocols, and applications that drive this technology forward. He emphasizes the importance of understanding IoT ecosystems, including edge computing, cloud integration, and security considerations, to harness its full potential in various industries such as healthcare, manufacturing, and smart cities.

Mr. Patil covers the essential concepts of database management systems (DBMS), relational database design, and SQL for data manipulation and retrieval. He highlights the role of databases as foundational components in storing, reliability, and data integrity.

● Theory examination

From **14th May 2024**, regular semesters IV, VI, and VIII of the theory examination commenced as per the university schedule. The examinations were planned and executed to ensure adherence to academic standards. Faculty members contributed their expertise to prepare examination papers that evaluate student's understanding and application of course materials.



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The end of this semester is not just a conclusion but a celebration of all that has been accomplished. It is a testament to the collective efforts of students, faculty, and staff who have navigated challenges and embraced opportunities for growth. Looking forward, we can carry the lessons learned and the experiences gained into future endeavors, with renewed enthusiasm and confidence. The culmination of this semester serves as a powerful reminder of the progress made and the potential that lies ahead. Congratulations to everyone for their dedication and achievements. Here's to continuing the journey of learning and striving for excellence in the semesters to come.

!!Thank You!