Department of Electronics Engineering

NEWSLETTER

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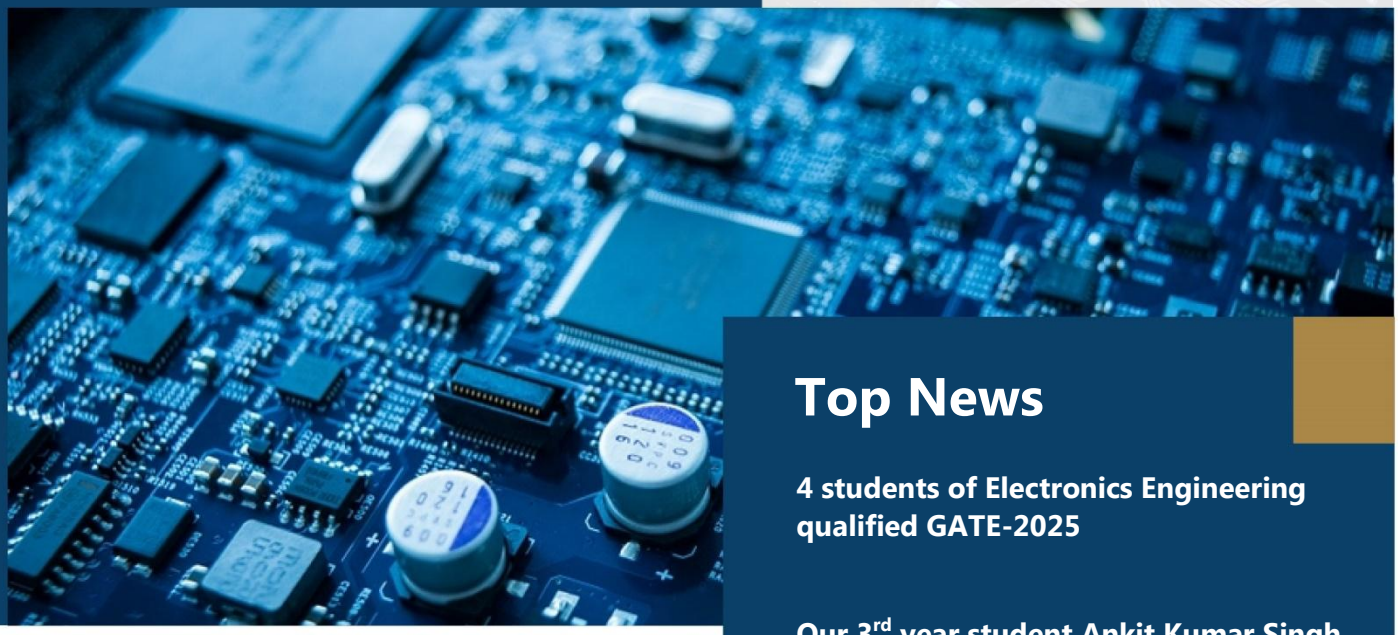

Top News

4 students of Electronics Engineering qualified GATE-2025

Our 3rd year student Ankit Kumar Singh awarded scholarship from Cummins India Foundation [CIF].

TECHNOVISION-2025:
A 2-DAY ANNUAL TECH FEST
Our students presented technical papers & posters in Technovision-2025

Vision

To contribute in service of humanity and nations development by fulfilling the needs of industry and society through technically enriched and competent professionals with social values, entrepreneurship skill, leadership quality and capability of research in the area of Electronics and Instrumentation/ Electronics and Communication.

Mission

M1: By offering well balanced curriculum to impart quality technical knowledge.
M2: By providing them facilities for hands on practice and research.
M3: Inculcating Social values, leadership, ethics, self-confidence, entrepreneurship skills and providing platform to explore their creativity and hidden talents.

Message from HoD

In the current technology landscape, Electronics as an industry is quickly outpacing other streams in terms of growth and potential. With rapid development in nano-meter thin semiconductor technology, ultra high-speed communication, automative engineering, automation, etc the branch has opened up a vast sea of opportunities for engineers globally.

As a department, we need to leverage this growth and capitalise on these opportunities. With the likes of digital highways, seamless connectivity, intelligent cellular networks, digital governance, etc., electronics as a part of big tech, now plays a pivotal role in the global economy.

India being one of the major potential markets as well as lucrative suppliers to tech companies around the world, it is quickly becoming a hotbed for foreign MNCs looking for talent in multiple spaces, be it VLSI, fabrication, defence hardware, drone tech, etc.

For an engineering student in this landscape, focusing on your craft, perfecting both technical and soft skills will enable you access to these spaces, creating immense learning opportunities and a strong career track.

Dr. Ashutosh Datar
HoD, Department of Electronics Engineering

Programme Outcomes/Objectives

Programme Outcomes (POs)

Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **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.
3. **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.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool 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.
6. **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.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **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.
11. **Project management and 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.
12. **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.

Programme Educational Objectives (PEOs)

1. **PEO 1.** To prepare graduates with strong foundation in Engineering, Science and Technology for successful career choice in both public and private sectors in the field of electronics & communication engineering.
2. **PEO 2.** To prepare students to crack various state/national level competitive examinations like GATE, IES etc. and to prepare for higher studies or to become researcher or successful entrepreneurs in life.
3. **PEO 3.** To inculcate a sense of ethics, professionalism and effective communication skills amongst graduates.

Activities

Students selected for BIS Outreach Quality Connect Campaign as Manak Mitra

The Department of Electronics Engineering at SATI, Vidisha, in collaboration with the Bureau of Indian Standards (BIS), Bhopal, is going to organize the BIS Outreach Quality Connect Campaign. The institute has signed a Memorandum of Understanding (MoU) with BIS, Bhopal, and has taken proactive steps by establishing BIS Clubs in five departments, including the Department of Electronics Engineering. These clubs aim to promote awareness and knowledge of Indian Standards among students and faculty members.

As a key initiative under the BIS outreach program, selected students forming 2 teams from BIS Electronics Club, SATI are appointed as 'BIS Manak Mitra.' This designation provided them with an opportunity to educate consumers about Indian Standards, aligning with the celebrations of World Consumer Rights Day 2025. As part of their responsibilities, the students have to conduct a BIS awareness campaign in Ganj Basoda Tehsil of Vidisha district. Two Teams are as follows:

Name	Enrollment No
# Team 1	
Yash Thakur	0108EC241063
Shreyashi Jain	0108EC241053
Hemendra Vyas	0108EC241020
Himanshu Dantule	0108EC241023
Prakhar Sharma	0108EI241002
# Team 2	
Farheen Mansoori	0108EC241018
Naitik Rahane	0108EC241033
Nikita Harode	0108EC241034
Ankur Pandey	0108EC241008
Harsh Sharma	0108EC241019

Technovision-2025 : A Celebration of Innovation and Excellence

Dynamic Ideas Come Only from Young Minds: Dr. Y.K. Jain

The two-day technical festival Technovision-2025 was successfully organized at Samrat Ashok Technological Institute (SATI) on 21-22 February 2025, with a grand closing and prize distribution ceremony. Addressing the gathering, Dr. Y.K. Jain, Director of SATI, emphasized the significance of innovation, research, and adherence to standards. "Dynamic ideas come only from young minds. It is the youth who dare to innovate by taking risks. However, researchers must ensure that their innovations align with industry standards, as only then can the quality of a product be determined and sustained in the market," he remarked. Dr. Jain expressed his pride in recognizing and awarding the future researchers and innovators who participated in this prestigious event. Following his address, the official booklet of paper presentations was released.

The program began with the traditional lamp lighting ceremony and Saraswati Vandana. Dr. Neelesh Mehra, the Organizing Secretary, welcomed the guests and participants, highlighting that Technovision has consistently provided a platform for young minds to explore cutting-edge research and innovation. He encouraged all participants and congratulated the winners.

Dr. Ashish Manoria, Mentor of the BIS Mechanical Club, stressed the importance of industry standards in research and development. He noted that without defined benchmarks, it is difficult to gauge whether an innovation is heading in the right direction. "The design of any creative idea should be presented with proper standards to ensure its feasibility and applicability," he added.

Dr. Ashutosh Datar, Mentor of the BIS Electronics Club, highlighted that Technovision-2025 fostered a highly competitive environment, leading to exceptional innovations by young engineers. He encouraged students to further refine their ideas and continue their research journey, as youth-driven creativity forms the foundation of groundbreaking advancements.

The event saw participation from esteemed dignitaries, including Dean Academics Dr. Alok Jain, Head of Civil Engineering Dr. Rajiv Jain, Head of Electrical Engineering Prof. C.S. Sharma, along with department heads, faculty members, organizing committee members, and students. The winners were awarded certificates and trophies in a festive atmosphere.

Paper Presentation Winners from Electronics Engineering: Manish Kharche & Harish Maitre

With an exciting lineup of competitions and research presentations, Technovision-2025 once again proved to be a hub of innovation, collaboration, and excellence. The festival ended on a high note, with students leaving inspired and motivated to pursue future research and technological advancements.

Student Achievements

GATE-2025

Our following bright students qualified GATE-2025:

1. **Shraddha Tiwari**
2. **Shaswat Sharnagat**
3. **Raj Raghuwanshi**
4. **Abhishek Ahirwar**

This achievement reflects the dedication, talent, and perseverance of our students. We are immensely proud of their success. Heartiest congratulations to all selected students!

Your success inspires the entire Electronics family.

CUMMINS SCHOLARSHIP

Congratulations to our proud III year student Ankit Kumar Singh who have been awarded scholarship from Cummins India Foundation [CIF] under the 'Cummins Scholarship Program; Nurturing Brilliance' which is for supporting meritorious students. Cummins also entrusts these scholars to its senior employees, who as mentors provide guidance to selected students through the entire duration of the course. Laptop is also provided to facilitate smooth e-learning. They were selected amongst the 200 students at PAN India level. Our HoD Dr. Ashutosh Datar said that the Cummins Scholarship will not only support him financially but will also shape him into confident professional. Heartiest Congratulations !!

We are proud of you !

Articles/achievements for the subsequent editions can be submitted at **newsletter.electronics@satiengg.in**