

Department of Electronics Engineering NEWSLETTER

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Top News



Visit to 8th India Mobile Congress (IMC) and the World Telecommunication Standardization Assembly (WTSA), at Bharat Mandapam, New Delhi

Our EI Alumna Ms. Shravani Jena appeared in KBC-16

SATI Shines at Bhopal Vigyan Mela 2024!

Pranav Sable, I Sem, EC stood 6th in Tantra Fiesta, IIIT Nagpur

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.

Department offers immense scope to explore and expand your horizons.



Technical Quiz competition of Bureau of Indian Standards Club of Electronics Engineering Held



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.



Visit to 8th India Mobile Congress (IMC) and the World Telecommunication Standardization Assembly (WTSA), at Bharat Mandapam, New Delhi.

A Remarkable Interaction with Our Hon'ble Chairman H. H. Shrimant Jyotiraditya M. Scindia Ji

With the gracious support of our Hon'ble Chairman, H.H. Shrimant Jyotiraditya M. Scindia Ji, a delegation of 10 students and 2 faculty members from SATI had the privilege to participate in the 8th India Mobile Congress (IMC) and the World Telecommunication Standardization Assembly 2024 (WTSA) held from October 15–18, 2024, at Bharat Mandapam, New Delhi. This event showcased a unique convergence of the telecom, digital, and technology sectors under the esteemed leadership of Hon'ble Minister H.H. Shrimant Jyotiraditya M. Scindia Ji. The program was inaugurated by our Hon'ble Prime Minister Shri Narendra Modi Ji. The assembly is significant as it positions India at the forefront of global telecom standardisation.

The SATI delegation includes Dr. Abhishek Jain from Electronics Department and Prof. Sheena Kumar from IT Department, accompanied by students Rishu Pandey (Electronics Engineering), Shraddha Tiwari (Electronics Engineering), Chiranjeev Singh (Electronics Engineering), Tanish Rai, Chahak Sharma (CSE), Shrinath Asati, Mandvi Dangi, Sakshi Tiwari (AIADS), Dev Jadia, and Shreya Dwivedi (CSE, Blockchain).



On 17th October, Shrimant Jyotiraditya Scindia Ji met with the SATI delegation and engaged in discussions with the students about the limitless potential and future of communication technologies. He emphasized that information and communication technology (ICT) will pave the way for the future of the world.





Dr. Laxmikant Markhedkar, Secretary of the Maharaja Jiwajirao Education Society, expressed pride in SATI's invitation to this prestigious international event. He noted that it was a remarkable opportunity for SATI professors and students to witness the advancements in the field.

Our esteemed Director, Dr. Y. K. Jain, described the event as a significant initiative by the Government of India that will shape the future of technology. He congratulated the SATI delegation for participating in IMC-2024, where researchers and scientists from across the globe were convened.

The IMC, co-hosted with WTS-24, was a landmark event that brought together global tech leaders, offering delegates opportunities to engage in technical expos, workshops, and discussions on 5G, 6G, AI, IoT, cybersecurity technologies etc.

We are deeply grateful to our Hon'ble Chairman of the Board of Governors, H.H. Shrimant Jyotiraditya M. Scindia Ji for extending this valuable opportunity, which provided our students and faculty with profound exposure to the latest advancements and insights in the industry.

Our Director, Dr. Y. K. Jain, offered unwavering support in every aspect of the trip, ensuring a successful and enriching experience for our delegation. This support was instrumental in the seamless organization and implementation of our participation.

It is noteworthy that throughout the event, a variety of cutting-edge technologies and innovations were showcased. These include next-generation telecommunication technologies such as 5G, 6G, network automation, and smart solutions, along with advancements in artificial intelligence and machine learning. Experts conducted discussions and workshops on topics such as smart cities, connected devices, cybersecurity, digital payments, and blockchain, under the umbrella of the Internet of Things (IoT). Startups and innovators were also presented the latest trends and exploring collaborative opportunities.





Our EI Alumna in KBC-16

In the October month episode of Kaun Banega Crorepati 16, viewers saw our alumna Shravani Jena of Electronics & Instrumentation Engineering 2017 Batch from Odisha took the hotseat. Shravani, a Social Security Officer, passionately discusses her commitment to helping the underprivileged and shares her family's deep admiration for Mr. Bachchan. She reveals how her mother has been trying to participate in KBC since 2000, while her father, a die-hard Big B fan, watches every Bachchan film on the release day—dressing up like the superstar and capturing those moments with photographs at the theatre.



During a light-hearted conversation with Shravani, Big B shared a heartwarming story about his struggles with online shopping. He humorously admitted, "You all may have mastered online shopping, but I still haven't quite figured it out. Many people have tried to teach me, but I just don't get it." He continued, "You know that code that comes to your

phone when you need to provide it for delivery? The OTP. Well, I was told not to give my number, or else it would become a hassle. It became quite a challenge whenever I wanted to order something, so I gave my house help's number instead. Funny enough, he's even taught me how to shop online! He knows that when I return home after a shoot, it's usually around midnight. If I want to buy something at that time, what can I do? The phone is with him, and the OTP would go to his phone. So now, he leaves his phone in a box at my place, just in case I need to provide an OTP!"

With a laugh, Mr Bachchan added, "Slowly, I'm beginning to understand online shopping, but I haven't quite mastered it yet. And to this day, I haven't used that phone because I haven't bought anything! Then there's the other thing—the cart. They tell you to 'fill the cart.' Now, where am I supposed to fill it from? All of this is still very confusing to me. It's much easier to just go to a shop and tell the shopkeeper, Please give me this.

Technical Quiz competition of Bureau of Indian Standards Club of Electronics Engineering Held

Bureau of Indian Standards Club of Electronics Engineering Department organized the Technical Quiz competition on 11.12.2024 for the BIS members. The quiz competition was conducted as per the guidelines of BIS, Bhopal.

Our Director Dr. Y. K. Jain graced the event and awarded certificates and cash prizes to the winners of the competition. Prizes for first four winners were cash prizes of Rs.1000/750/500/250 respectively.



BIS mentor for the Electronics Engineering BIS Club is Dr. Ashutosh Datar, HoD, Electronics along with coordinator Dr. Abhishek Jain.



The winners of the competition from Electronics Engineering were Ankur Pandey, EC, I Sem, who secured the first prize with a cash award of ₹1000, Palak Jain, EC, I Sem, who took the second prize with ₹750, Shreyashi Jain, EC, I Sem, who won the third prize with ₹500, and Hemendra Vyas, EC, I Sem, who received a consolation prize of ₹250.





Faculty Achievements

Publications

Faculty Name	Name	Journal
Ms. Bharti Mehra & Dr. Ashutosh Datar	Evaluation of Quality of Service Parameters for IoT in Outdoor Environment	IEEE Explore

NPTEL/SWAYAM Certification

Faculty Name	NPTEL/SWAYAM Certification
Prof. Niraj Kumar	Digital Image Processing
Prof. Niraj Kumar	Introduction of Internet of Things
Prof. Niraj Kumar	Machine Learning
Prof. Niraj Kumar	Research Methodology

FDP/Workshops/Training Programmes

Name	Faculty Name	Organization	Date
ATAL Faculty Development Program on "Emerging Trends and Challenges in Next Generation Semiconductor Technologies (ETCNGST-2024)"	Niraj Kumar	Prestige Institute of Management And Research, Bhopal	30/09/2024 to 05/10/2024
AICTE Training And Learning (ATAL) Faculty Development Program on "IoT & Smart Infrastructure Development and Security"	Dr. Abhishek Jain, Niraj Kumar	Samrat Ashok Technological Institute, (Poly.), Vidisha	11/11/2024 to 16/11/2024
Workshop on Application on deep learning and generative AI in computer vision and NLP tasks	Niraj Kumar	MANIT Bhopal	02/12/2024 to 06/12/2024
FDP on "Crystal Growth, Semiconductor Processing and Manufacturing Technologies"	Niraj Kumar	Indian Institute of Technology, Dhanbad	16/12/2024 to 21/12/2024



Dr. Abhishek Jain awarded Ph.D. on the topic "Design Approach for Compression and High Fidelity Reconstructions of Signals" in Electronics & Communication Engineering under the guidance of Dr. Preety D. Swami, Professor, Electronics & Communication Department, UIT, RGPV, Bhopal and Dr. Ashutosh Datar, Professor and Head, Electronics Engineering Department, SATI, Vidisha.



Placements



S.No.	Name of Company	Name of Selected Student
1	Skill Forge	Abhishek Chaturvedi
2	Qspiders Training & Development Center	Anuj Deshpande
3	Ceasefire Pvt. Ltd.	Ashutosh Dubey
4	Pentagon Space Pvt Ltd	Chinmayi Shrivastava
5	Qspiders Training & Development Center	Chinmayi Shrivastava
6	Capgemini	Deshna Jain
7	Kodnets	Deshna Jain
8	Victory Terminal Finance Services	Deshna Jain
9	Qspiders Training & Development Center	Dolly Narware
10	Corizo	Himangi Thakur
11	Hexaware Technologies	Mahak Patel
12	Ceasefire Pvt. Ltd.	Mahak Patel
13	Victory Terminal Finance Services	Neelesh Tripathi
14	Skill Forge	Niket Vishwakarma
15	Kodnets	Prachi Giri
16	Motherson Sumi Wiring India Limited	Prachi Sataw
17	Qspiders Training & Development Center	Prachi Sataw
18	Qspiders Training & Development Center	Pushpraj Gour
19	Ceasefire Pvt. Ltd.	Pushpraj Gour
20	Corizo	Raghav Soni
21	Hexaware Technologies	Raghav Soni
22	Micron Semiconductor Technology India	Raghav Soni
23	Qspiders Training & Development Center	Raghav Soni
24	Teachnook	Raghav Soni
25	Pentagon Space Pvt Ltd	Raj Gour
26	Hexaware Technologies	Salman Farsee
27	Qualitykiosk Technologies Pvt Ltd	Salman Farsee
28	Motherson Sumi Wiring India Limited	Santosh Dahake
29	Qspiders Training & Development Center	Santosh Dahake
30	RAPIDOPS Solutions Pvt. Ltd.	Satyam Gupta
31	Planet Spark	Satyam Yadav
32	Victory Terminal Finance Services	Satyam Yadav
33	Kodnets	Shailesh Bhurre
34	Capgemini	Shilpa Singh
35	Qspiders Training & Development Center	Shweta Singh
36	TCS	Shweta Singh
37	Qspiders Training & Development Center	Somya Jyoti Singh
38	TCS	Somya Jyoti Singh
39	Victory Terminal Finance Services	Sourabh Narwariya
40	Kodnets	Sunil Kumar Kewat
41	Ceasefire Pvt. Ltd.	Sunil Malviya



Student Achievements

SATI Shines at Bhopal Vigyan Mela 2024! 🌟

From December 27 to December 30, 2024, our students showcased their talent and innovation at the Bhopal Vigyan Mela organized by MPCST at Jamboree Ground, Bhopal. Representing diverse domains, our teams exhibited groundbreaking projects aimed at solving real-world challenges. Manish Kharche (ECE, 3rd Year) along with team members developed Automatic Automobile Headlight Dimmer in Vehicles (Road Safety) under the invaluable guidance of Dr. D. K. Sakhya & Dr. Sunil Joshi playing a crucial role in the success.



Pranav Sable, I Sem, EC participated in the Tantra Fiesta, *ROBO RUMBLE* event held at IIIT Nagpur on 27th October 2024. Pranav qualified the first round, and secured 6th rank in the second round.

Congratulations Pranav for this achievement.

Shrawan Rajput, I Sem, EC also participated in the *ROBO RUMBLE* event on 25th October 2024 and received a certificate of participation.



Editorial Board

Advisor

Dr. Ashutosh Datar, HoD

Coordinator

Dr. Abhishek Jain

Members

Dr. Shilpa Datar, Dr. Suchi Mishra, Dr. Sweetie Jain

Best wishes to all
the placed
students for their
future endeavors.
We are proud
of you!



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