

DEPARTMENT OF
ELECTRONICS &
INSTRUMENTATION
ENGINEERING



SHRI G. S.
INSTITUTE OF
TECHNOLOGY
& SCIENCE,
INDORE, M.P.

NEWS LETTER

JULY-DEC 2024

NAAC 'A' GRADE
ACCREDITED



VISION

The department is committed to provide a holistic education that transforms the students into responsible engineers and facilitates them to build successful careers and excel in the field of Electronics and Instrumentation with social ethical standards.

MISSION

To prepare emerging Electronics and Instrumentation engineers to possess good communication skills with the ability to work in multi-disciplinary groups, lead teams and understand their professional and ethical responsibilities for serving the needs of the society.



The science of today is the technology of tomorrow. Engineering is not merely knowing and being knowledgeable; engineering is not merely analysis; engineering is not merely the possession of the capacity to get elegant solutions to non-existent engineering problems; engineering is practicing the art of the organized forcing of technological change. Engineers operate at the interface between science and society.

— Gordon S. Brown

EI PULSE - DEPARTMENTAL NEWS & UPDATES

NAAC Accreditation Team Visit: Elevating Standards of Excellence

The National Assessment and Accreditation Council (NAAC) conducted a visit to the Electronics & Instrumentation Department at SGSITS, Indore, on 22-23 August, 2024, as part of its evaluation process.

The department showcased its academic excellence, research contributions, and state-of-the-art laboratories. Faculty members highlighted ongoing projects, student achievements, and collaborations with industry. Students from the department actively participated in welcoming the team at the institute level. The NAAC team interacted with students and staff to assess the overall learning environment, infrastructure, and quality of education. This visit aimed to ensure that the department meets the required standards for accreditation and continues to provide quality education and research opportunities.



NAAC team interaction with department faculty members



Dr. Rajesh Khatri, HOD E&I, interacting with NAAC team



NAAC team inspecting departmental lab

Welcome to New Beginnings: First-Year Induction Programme 2024



Mr. Ayush Gurkha, esteemed alumnus of E&I Department (Batch of 2022), with the newly inducted students



Ist year students on SGSITS campus visit



Students showcasing their talent



Dr. Ajay Sharma, a psychologist, sharing his valuable insights on managing stress



Dr. P. P. Bansod discussing exciting opportunities in the field of E&I

The Department enthusiastically welcomed the 1st year students of the 2024 batch with a comprehensive two-day induction program on 12th-13th September, for over 90 students.

The HOD's address focused on the abundant career opportunities in the field, the importance of innovative projects, and the benefits of multidisciplinary learning.

Dr. Ajay Sharma, a renowned neuro psychologist delivered an insightful lecture on managing the stress that comes with student life. He offered practical advice and coping mechanisms, emphasizing the importance of maintaining mental well-being while navigating the academic pressures and challenges students face.

Esteemed alumnus Mr. Ayush Gurkha, a successful graduate of Electronics & Instrumentation Engineering, shared his personal journey and offered valuable guidance on the wide range of career opportunities available to graduates in the field. His insights provided students with a clearer vision of their potential career paths.

To further strengthen the community spirit, 2nd and 3rd-year students organized interactive activities such as skits and talent showcases. Students were also introduced to completed research projects, ongoing research endeavors, and advanced laboratories. The presence of mentors further contributed to creating a sense of belonging, inspiring students to engage with and contribute to the department's legacy of excellence.

Tribute to Teachers



Faculty of E&I Department with their students

The 2nd and 3rd-year students organized a vibrant and memorable Teachers' Day celebration to honor the invaluable contributions of their educators. The event included heartfelt speeches where students shared their admiration and gratitude for the teachers' unwavering dedication and guidance. A special group singing performance added a personal touch, with students expressing their appreciation through music. The celebration fostered a spirit of respect and reverence, highlighting the essential role teachers play in shaping the next generation of innovators. It was a joyous occasion that not only acknowledged their hard work but also strengthened the bond between students and teachers, making them feel truly valued.

Educational Visit: Government School Students Explore the Department



Faculty imparting hands-on knowledge to school students



Department faculty members with the young visitors

A group of government school students recently visited the Department, gaining valuable insights into the practical applications of science and engineering. The visit featured engaging interactive sessions, live demonstrations, and guided tours of various state-of-the-art laboratories. These activities offered students a hands-on learning experience, sparking their curiosity and fostering a deeper interest in pursuing careers in science and engineering fields.

C2S HIGHLIGHTS

Unlocking Opportunities: Summer Internship in VLSI Design Using Cadence



Dr. Rajesh Khatri, HOD-E&I, with students undertaking internship

The Department conducted a summer internship of 8 weeks, focused on VLSI design using Cadence tools. This hands-on experience allowed participants to delve into the intricacies of VLSI design methodologies and tools. This program provided students with hands-on experience in circuit design, simulation, and layout.

MeitY Department Visit: Empowering Innovation

The Department hosted a significant visit from the Ministry of Electronics and Information Technology (MeitY). The visit aimed to review ongoing departmental research project of C2S and explore potential collaborations in the fields of digital innovation and instrumentation. MeitY representatives engaged with faculty, staff, and students to gain insights into the department's technological advancements, research initiatives, and academic framework.



Dr. P. P. Bansod & welcoming MeitY members

Instruction Enhancement Program for Progress

Dr. R.C. Gurjar successfully completed the IEP program on FPGA-based SOC Design, which covered DIR-V Architecture & Applications. This program was organized by NIELIT, Calicut, under the C2S project. It provided an in-depth understanding of FPGA technologies, with a focus on the DIR-V architecture and its diverse applications in System-on-Chip (SOC) design. Dr. Gurjar's participation has further enhanced his expertise in this rapidly evolving and essential field of technology.



Dr. R. C. Gurjar @ NIELIT, Calicut

FACULTY ACCOMPLISHMENTS

Expert Lecture at PIMR

Dr. R. C. Gurjar recently delivered an insightful expert lecture at PIMR on emerging trends and challenges in next-generation semiconductor technologies under ATAL FDP. He highlighted key advancements in materials, manufacturing processes, and applications, while addressing the industry's evolving landscape. Students gained valuable knowledge about the future of semiconductors and the skills needed to thrive in this dynamic field.



Dr. R. C. Gurjar @ PIMR, Indore

Leading with Expertise: Session Chaired by Dr. Rajesh Khatri

Dr. Rajesh Khatri, HOD E&I, chaired a session at the prestigious International Conference on Innovation, Incubation, and IPR (ICI3 2024) at the Acropolis Group of Institutions, Indore. His insightful moderation enriched the discussions, encouraging participants to explore novel approaches in different domains



Dr. Rajesh Khatri, HOD E&I, @ ICI3 2024

Alumni Visit



Alumni of 1999 Batch with teachers of EI dept. @ Alumni Day Dec24



An Alumni Visit is a distinguished event where former students reconnect with faculty, staff, and current students. It offers alumni the opportunity to observe departmental advancements and participate in celebrations marking the college's founding, strengthening ties with the academic community.

PIONEERS IN PROGRESS: STUDENT HIGHLIGHTS

The Placement Pulse: Student Success Stories

The Department is celebrating a remarkable achievement in its placement session, with Bhakti Rohira becoming one of the first students to secure a placement with the highest package of 16 LPA. This outstanding accomplishment sets a new benchmark for future batches. Within the first six months of the placement season, 50% of eligible students have already been successfully placed in prestigious companies such as LTIMindtree, Adani, Genpact, and others that have visited the campus, offering a wide range of opportunities. The strong placement record reflects the department's commitment to preparing students for successful careers in the industry.



Bhakti Rohira



Kanika Mukati



Aditi Khatik



Samruddhi Shahapurkar



Riddhi Panchotiya



Neetesh Patel



Ashwin Kumar Singh



Tanishq Jaiswal



Krishna Heda



Sunny Singh

Student Research Showcase: Published Papers

Sanika Borgaonkar attended the International Conference on Electromagnetics in Advanced Applications (ICEAA) 2024 & presented a scientific contribution entitled "Analysis of Coaxial Microstrip Patch Antenna Using Artificial Neural Network".



Sanika Borgaonkar

BIS Club Connect: Bridging Campus and Industry



BIS club members gaining hands-on experience @ Kalpana Industries



BIS club members on exposure visit @ Kalpana Industries

The BIS Club organized an industrial visit to Kalpana Industries for 2nd and 3rd-year students, aiming to bridge the gap between academic learning and real-world applications, particularly in alignment with Bureau of Indian Standards (BIS).

During the visit, students gained valuable insights into the BIS-compliant footwear manufacturing process, including IS15298 standards for safety and quality. They observed the meticulous steps of material selection, innovative production techniques, and the importance of adhering to regulatory standards to ensure consumer safety and product durability.

One student remarked, "The visit provided a clear understanding of how industry standards are implemented to create reliable and safe products for the market."

This enriching experience highlighted the critical role of standards in manufacturing and offered students a practical perspective on how theoretical concepts are applied in industries. Such initiatives are instrumental in fostering a deeper connection between academic knowledge and industrial practices.

Creative Coders: Students Tackle Challenges at Hackathons

Kudos to our talented students for their remarkable participation in the various Hackathons, showcasing innovation, teamwork, and dedication in developing impactful solutions to real-world challenges.

- Dipesh Prajapat (III year) & team participated in the VersionBeta 7.0 Hackathon held at MANIT, Bhopal competing with talented teams from across India, including Udaipur, Mumbai, and Jodhpur, our team made it to the Top 10. Their solution, Meal-Mate, was designed to address food wastage in hotels and hostel messes while promoting sustainable practices.
- Atharva Nagpure, Diksha Jain, Soumy Dhiran, Dhruvad Gupta, Nandita Yadav, Gautam Patel, Suyasha Gourh and Vaidik Akhre participated in Smart India Hackathon held in October.
- Gaurav Ray (II Year), in collaboration with CodeFoster, organized an interactive session to introduce freshers and sophomores to Competitive Programming, Machine Learning, Open Source, and Web Development.



Dipesh Prajapat & team @ VersionBeta 7.0 Hackathon



Gaurav Ray with CodeFoster team

Internship Spotlight: Real-World Learning

As part of the department's curriculum, 3rd year students have undertaken internships across various industries.

- Deepesh Kumar completed a four-week summer internship in the Instrumentation Department at GAIL (India) Limited, Vijaipur, where he worked on a project titled "Green Hydrogen Plant."
- Deepak Chourasiya completed a one-month internship focused on "iQ-F/iQ-R/GOT2000/Robot" in partnership with Mitsubishi Electric India at Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore.
- Nainish Rai pursued a two-month internship as a blockchain developer with Monet Work, based in Dubai, UAE.

Skill-Building & Personal Development



Kaushiki & Khushwant @ IIT Indore

- Kaushiki Dhoble attended a VLSI workshop at IIT, Indore, gaining valuable insights.
- Khushwant Kawle participated in a VLSI workshop at IIT, Indore, enhancing his knowledge and skills in advanced VLSI technologies.
- Vishwa Hinge successfully completed a Digital Marketing course through IBM Skill Build.

Excellence in Learning: NPTEL Certifications Earned

Mitul Agrawal successfully completed the NPTEL course on Artificial Intelligence: Search Methods for Problem Solving and secured a spot in the top 1% of learners, showcasing outstanding academic excellence. This accomplishment inspires peers to strive for excellence in their respective fields.



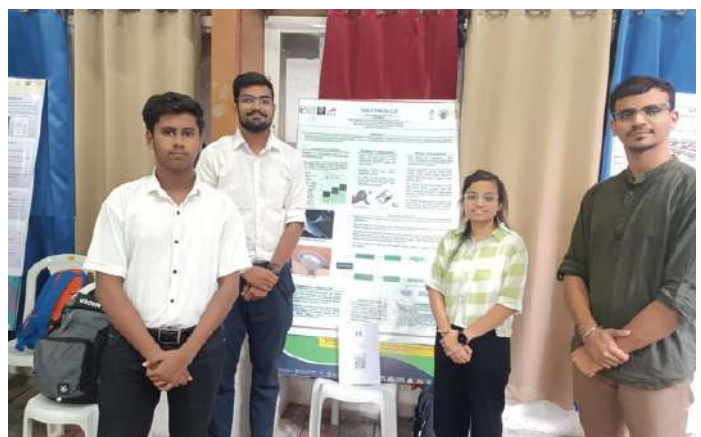
Mitul Agrawal

EXPRESSIONS OF CULTURE: STUDENTS IN ACTION

Achievements & Social Welfare



Arin - GSRACERS @ BAJA SAE



Team Raven @ Ideathon 3.0

- Arin, member of team GSRACERS, participated in BAJA SAE mechanical segment at Pithampur, BAJA SAE electrical segment at Hyderabad.
- Rudra Agarwal, Tanvi Chouhan, Divyansh Tyagi, & Prince Shivhare (Ist Year students), presented their idea as Team Raven in Ideathon 3.0 & secured 2nd position.
- Madhur Kuwal, Vaidik Akhre & Unnati Bhavsar, II year students, contributed with their part in the society welfare by participating in blood donation camp organised by MGM Medical College.

Athletic Triumphs: Student Sports Highlights



Prince & Kashish @ RGPV Inter College Athletics Meet



Prince Kumar @ RGPV State Level Boxing Tournament

- Prince Kumar showcased exceptional athletic talent at the RGPV State-Level Gymnastics Tournament, winning a gold medal and earning a spot in the Indian University Nationals in Amritsar this January. At the RGPV Inter College Athletics Meet 2024-25, he secured a gold in karate and a bronze in long jump. Additionally, he represented the Indore Nodal Team at the RGPV State Boxing Tournament, winning a silver medal.
- Kashish Mahore made her mark by winning the gold medal in karate at the RGPV Inter-College Athletics Meet 2024-25. She also represented SGSITS in the RGPV State Boxing Tournament, securing a gold medal and earning a spot in the All India University National Boxing Tournament. Additionally, she won gold in both the 5km and 10km runs at the RGPV Nodal Tournament.
- Rajvir Gautam secured a silver medal the RGPV State Level Taekwondo Tournament & qualified for nationals.
- Nandan Sisodiya (II year) represented SGSITS in RGPV nodal level Inter College Tournament in table tennis and secured 2nd position.



Kashish Mahore, gold medalist @ RGPV Nodals



Nandan Sisodiya @ RGPV Nodal Tournament

Student Excellence in Event Management

- Prince Kumar successfully managed the Virsa Vista event, organized by the Alumni Club.
- Rajvir Gautam volunteered to organize the E-Summit 2024.
- Suyasha Gourth volunteered at multiple events, including Navrang (Garba event), Streetscape (Road painting), and Aayam (Cultural Fest).
- Atharva Nagpure coordinated events Spise and Eclipse under Club Ojaswa.
- Representing various clubs at the Induction Program 2024 were Harsh Jain, Supreet Prajapati, and Snigdha Gangele.
- Vedansh Sharma organized Tumse Na Ho Paayega under E-Cell, promoting innovation and entrepreneurship.
- Madhur Kuwal hosted an entrepreneurial event with E-Cell.
- Vaidansh Suryawanshi coordinated Sepia: A Whirl of Visuals, presented by Club Pratibimb.
- Arpit Tiwari (II Year) performed at club Kshitij even Dastaan. He also enthralled the NAAC Peer Team with his classical performance.



Prof. D. S. Ajnar & Harsh Jain (IIIrd year) representing Club Plug-In @ Ist year Induction Programme 2024



E&I volunteers @ welcoming ceremony of NAAC peer team