

Placement Record '25

RELIANCE: ADITYA JAIN PRANAY PATILKAR RISHABH TIWARI SIDDHARTH KHERONIYA	
ADANI : ABHIGYAN PUROHIT ADARSH GUPTA ADITYA GUPTA ANUJ PARDHI ARPAN KUMAR MARSKOLE GAURAV PANDEY MOHIT KORI PLAKSHA LAHAVASIA PRANAY PATILKAR PRANJAL SAVLA RAJESHWAR THAKRE	
HAVELLS: ADITYA JAIN	
QUANTIPHI: DHRUVA AGRAWAL UDIT SURVE	
DELOITTE: SAKSHI JAIN SUSHRUT SHAH TANAY RAIKHERE	
INFOSYS: ISHA CHAPLOD ISHIKA AGARWAL DEVANSH TANWAR MAYANK SINGH VISHAL SAHU	
LARSEN & TOUBRO: ANSHIKA SHUKLA ISHA CHAPLOD PLAKSHA LAHAVASIA RAJESHWAR THAKRE ANIRUDDH SHARMA SAKSHAM DARIYA	
SHAKTI PUMPS: ANIRUDDH SHARMA SIDDHARTH KHERONIYA SAKSHAM DARIYA	
APPALTO: ADITYA JAIN SACHIN GAREWAL NIDHI VYAS	
GENPACT: AMRITA PANDEY SHIV PRAKASH	

Achievements

Ayush Kushwaha, a National-Level Judge certified by the Karate Association of India (July 2024), has brought immense pride to SGSITS and the Electrical Engineering Department by winning the gold medal in the RGPV State Boxing Championship. As a National-Qualified Boxer and Mentor, he trained 35+ first-year students, with 9 of them winning Gold Medals and earning selection for the "All India University Boxing Championship" (January 18, 2025, Bhatinda, Punjab). Along with contributions in World's largest self defence workshop as a trainer certified by World book of records, London.



First-year student Priyanshu Pratik participated in IDEATHON 3.0 presenting the idea Flora Fuel and receiving the Jury Award. The event was jointly organized by IIC and E-Cell from 20th to 27th November 2024. Prof. Mayuri Sunhare jointly supported and coordinated with him throughout the event.

Know Your Lab

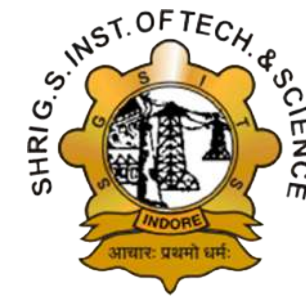
Power Electronics Lab

The Power Electronics lab offers facilities to assess static switches' performance and analyze single/three-phase converters using UJT, TCA-785, and microprocessor-based gate firing circuits. It includes experiment kits for switching-aid circuits, AC voltage controllers, SCR commutation, choppers, inverters, and switching regulators. Advanced digital controllers support research on DC motor drives, BLDC, induction, and switched reluctance motors. The lab features power quality improvement setups, a solar water pumping system, and a photovoltaic supply system.



Valuable Contributions :

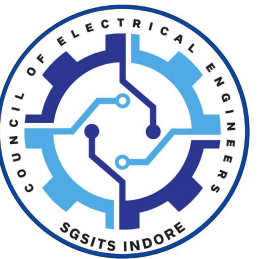
Dr. H K Verma (Professor, EED), Dr. Sandeep Bhongade (HOD, EED), Prof. R.S. Mandloi (Mentor, CEE), Prof. Deepti Rai (Professor Incharge, Publications) Rajswi Manjri (Editor-In-Chief), Ansh Shrivastava, Jatin Gaur, Dev Datt Dat, Aashish Tripathi, Shikhar Kumar Saranker, Reshender Pratap Singh, Sameeksha Wase, Sameeksha Verma, Abhishek Singh Chouhan, Varun Pareta, Ayush Kushwaha, Mudit Wankhede



NEWSLETTER

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Departmental News

MATLAB & Simulink Workshop on Inductor Design

The Department of Electrical Engineering at SGSITS organized a one-day workshop on "Inductor Design and Simulation with MATLAB & Simulink" on October 14th, 2024. The workshop featured Mr. Anshuman Prakash, Senior Application Engineer at MATLAB, ARK Info Solutions, as the keynote speaker. He explained the simulation of inductor design in an accessible manner and shared practical approaches. The workshop was coordinated by Dr. Sandeep Bhongade, along with Professors Deepti Rai and Ankit Singh. Additionally, the Department Head Dr. Arun Parakh and faculty members Prof. MPS Chawla, Prof. S L Sisodia, and Prof. R. S. Mandloi were present to support the event.



Poster Exhibition

On December 11, 2024, the Electrical Engineering Department of SGSITS hosted a Poster Exhibition exclusively for 3rd-year students. Faculty members offered valuable insights and encouragement to the participants. With enthusiastic participation and expert guidance, the event highlighted the creativity and technical acumen of the students, reflecting the department's commitment to academic excellence. External judges were Prof. Lalit Purohit & Prof. Manish Panchal. Internal judges were Dr. Shailendra Sharma and Dr. Sandeep Bhongade. Faculty coordinators were Dr. Arun Parakh, Prof. R S Mandloi, Prof. Rinki Rajpal and Prof. Purva Trivedi.



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HOD Message

The Electrical Engineering Department integrates scientific principles with practically oriented research, providing systems and processes that themselves create ways of acquiring new knowledge. The department has been constantly encouraging its students to engage in extracurricular and co-curricular activities essential for development, nurturing of team spirit and developing organizational skills.

Ansys Workshop

The Department of Electrical Engineering successfully hosted a two-day workshop on "ANSYS Multiphysics Simulation Solutions for Electric Vehicles" on July 25th and 26th, 2024, at the Golden Jubilee Auditorium, SGSITS Campus. This workshop was designed for 3rd and 4th-year students of EE, EC, ME, IPE, and EI, covering essential topics such as ANSYS Solutions to EV and Motor Design using Maxwell, Power Electronic Converter Design using ANSYS Twin Builder, Battery Modelling using ANSYS Fluent, and EV Powertrain Model using ANSYS Twin Builder. Faculty members were present to guide and facilitate the sessions.








PLC and SCADA Workshop

The Electrical Engineering Department of SGSITS, in collaboration with ANKR, organized a one-day workshop on Industrial Automation, PLC and SCADA on September 28, 2024. Designed exclusively for 2nd and 3rd-year Electrical Engineering students, the workshop provided valuable insights into modern industrial automation. Industry professionals from ANKR conducted hands-on sessions on Programmable Logic Controllers (PLC) and Supervisory Control and Data Acquisition (SCADA), helping students understand real-world applications.



Publications

- Dr. S L Sisodiya, published a book "Sparks of change: Revolutionizing transportation with EVs" in August, 2024. 
- Dr. Arun Parakh, language reviewed "Microcontrollers and Applications" which is the first hindi translated book in microcontroller field by AICTE in September, 2024. 
- Prof. M P S Chawla, SCIE'JOURNAL' "Springer nature Microsystem Technologies - An Accurate Parameters Identification of Solar PV Models", October 2024. 
- A. Singh and Dr. S. Bhongade, "Enhancing Electric Vehicle Charging Stations with Renewable Energy Integration through Advanced Control Algorithms," 2024 IEEE Third International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), Delhi, India. 
- Prof. R S Mandloi, "A Performance Based Comparative Analysis of Isolated DC to DC Converters", published by IJRAR in September, 2024. 

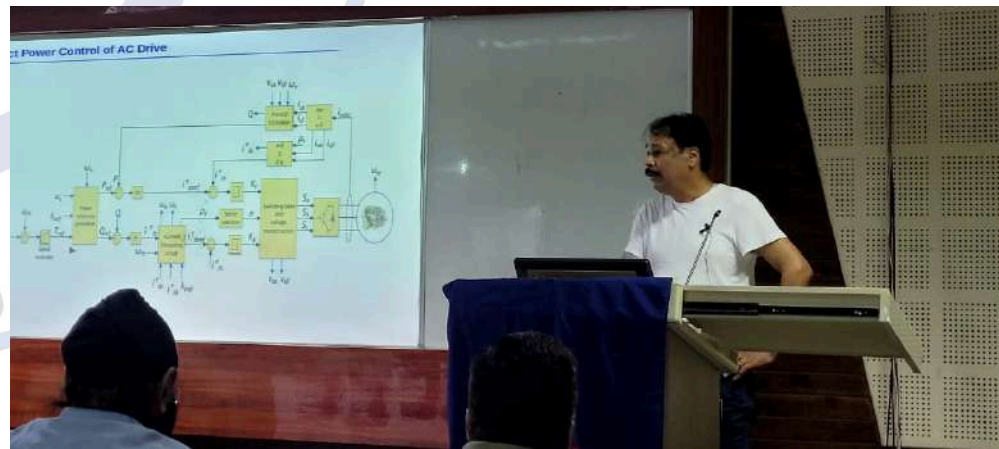
Faculty Achievements

- Prof. M P S Chawla was Guest of Honor in IEEE International Conference - ICTBIG 2024 and Session Chair organised at Symbiosis University, Indore on 13th December, 2024.

IEEE Events

Expert lecture by Dr. Sanjeet Kumar Dwivedi

The department of Electrical Engineering at SGSITS, Indore, in collaboration with the IEEE-PELS Student Branch Chapter successfully organized an expert lecture on "Simple and Robust Methods for Estimation of Induction Motor and Permanent Magnet Synchronous Motor Parameters" on 14th August, 2024. The session was graced by Dr. Sanjeet Kumar Dwivedi, a senior consultant at Wind Energy Business, RDT Engineers, Denmark, who shared his extensive expertise in motor parameters estimation techniques. The lecture delved into efficient and robust methods for parameters estimation of Induction Motors and Permanent Magnet performance, energy efficiency, and reliability.





Engineer's Day Celebration

A Plantation Program for Environmental Protection was conducted with Dr. R. S. Tare, Retired Professor at SGSITS, as the guest expert. The event emphasized the role of engineers in sustainability and environmental conservation on 15th September, 2024.





These events contributed to technical learning, industrial awareness, and environmental consciousness among students and faculty.



Expert Lectures

- Dr. Sandeep Bhongade, expert lecture on "Frequency control scheme in restructured power system" at Medicaps University on 9th October, 2024. 
- Prof. M P S Chawla, technical talk on "Innovations towards digital & computer evolution" at IIT Indore on 1st October, 2024. 

Certifications

- Prof. Vineet Mishra, was certified for his successful participation in the Training of Trainers (ToT) Program on "Grid Connected Rooftop Solar System", organised by National Power Training Institute in October, 2024. 
- Prof. Mayuri Sunhare, successfully completed the TechBridge-Skill Development for Semiconductor Excellence program. This initiative was launched by MSDE under the SANKALP Scheme and implemented by the National Skill Development Corporation on 11 December, 2024. 

PhD Students

- On 24/07/2024 Mr. Pemendra Pardhi has successfully defended his PhD work in offline mode at RGPV bhopal under the guidance of Dr. Shailendra Sharma. 
- On 29/07/2024 Mr. Ashutosh Kashiv PhD work under the guidance of Dr. H K Verma. 

IEEE Day Celebration

An expert session was conducted with Dr. Chinmay Jain, Chief Technical Officer at Shakti Pump, on "Industrial Awareness in Power Electronics, Electrical Machines, and Embedded Systems." He highlighted the significance of drives in the industry and their impact on modern engineering applications.



Council of Electrical Engineers (CEE) Events

Teachers Day Celebration

On 5th September 2024, the Council of Electrical Engineering (CEE) at SGSITS, Indore, organized a heartfelt celebration to honor the teachers and mentors who have played a pivotal role in shaping the future of students. The event, held in the lecture hall, was a beautiful tribute to the invaluable contributions of educators in the field of Electrical Engineering. The faculty members were also presented with tokens of appreciation as plants were distributed to teachers by the students of CEE, symbolizing the respect and admiration students have for their teachers. In addition, the event highlighted the achievements and milestones of the Electrical Engineering department, reflecting the collective efforts of both teachers and students. The event also acted as a platform for a number of tributes the students had for the teachers, involving dance performances, heartwarming recitations and some fun activities for the teachers to share a laugh. The atmosphere was filled with a sense of gratitude, camaraderie, and respect as everyone acknowledged the commitment and passion of the teachers. The event concluded with a vote of thanks from the CEE Joint Secretary, who expressed sincere appreciation for the dedication shown by the faculty members in nurturing the minds of future engineers.



EED Induction Program



The Department of Electrical Engineering at SGSITS, Indore, successfully organized the EED Induction Program on September 12th and 13th, 2024. The program aimed at welcoming the new batch of students into the world of Electrical Engineering and was a grand success, filled with engaging and thought-provoking sessions. The students were inspired by talks from distinguished alumni - Ms. Anshika Singh, Mr. Ashish Jain, and Mr. Sankalp Ved - who shared their success stories and provided guidance to the budding engineers. A significant highlight of the program was the introduction to the COUNCIL OF ELECTRICAL ENGINEERING (CEE) wherein the students dived into the work of CEE and their events. CEE members carried out several fun activities, which ignited a sense of attachment in students for their departments club & helped them to know their peers following with smiles all around. The program concluded with a heartfelt vote of thanks by the Head of the Department, Prof. Arun Parakh, who expressed his appreciation for the students' enthusiasm and commitment. The program was expertly coordinated by Ms. Mayuri Sunhare.

1st Year Co-curricular Activities

The co-curricular program for first-year Electrical Engineering students, was designed to foster comprehensive growth through a series of events:

1. **Impromptu Activity** - Each volunteer was given a surprise topic and just 60 seconds to prepare before presenting their thoughts to the audience.
2. **Brainstorming Picture Writing** - Presented with a captivating image, they crafted unique stories, blending imagination and creativity.
3. **AAPAR ID creation and awareness** - The session aimed to educate students about the importance of Aadhaar and assist them in generating their unique ID.
4. **Energy Literacy training program** - This program aims to raise awareness on sustainable energy solutions and innovative climate actions.

