

Newsletter

VOLUME 02 | JUNE - DECEMBER 2024

Department of Electrical and Electronics Engineering



Academic Collaborations

SIEMENS

TVS Training & Services

Our Centers

Center for
Emerging Energy
Technologies

ELECTRIFY CLUB

ABOUT SRU

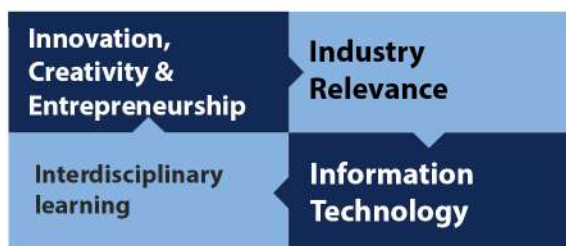
outstanding contribution from faculty and students include patents, research publications, sponsored projects and research programs

Vision

To accelerate the pace of transformation and advancement of the regional innovation ecosystem through academic excellence, industry relevance, and social responsibility.

Innovative Experiences for Next Generation Change Makers

SR University has been built on the strong foundation set by SR Engineering College over the past 22 years. The college has provided innovative entrepreneurial learning ecosystem in Telangana, facilitating students to think out of the box and come up with creative solutions to modern day challenges. The core values that are common to each program offered at our University are as follows:



SR Educational Academy
TELANGANA • ANDHRA PRADESH • KARNATAKA
5 Decades of Educational Leadership

Governs 185 Educational Institutions in South India with 1 Lac students and 5 Lac Alumni.

Founded in 1974, SR Educational Academy is close to a half-a-century of experience in the field of Education

The Academy established **Sri Rajeshwara Educational Society** in 1991.

SR UNIVERSITY

SR International Institute of Technology

SUMATHI REDDY INSTITUTE OF TECHNOLOGY FOR WOMEN
Learning at its best

SR digi SCHOOL
Experience a new joy of learning!

SR Junior College

dimples
NEW AGE

SR PRIME SCHOOLS
DAY & RESIDENTIAL

Centers of Excellence



- Center for Experiential Learning
- Technical Centers
- Innovation, Creativity & Entrepreneurship
- Research & Development



- Center for Materials & Manufacturing
- Center for AI & Deep Learning
- Center for Embedded & IoT Systems
- Center for Construction Materials and Methods
- Center for Emerging Energy Technologies
- Center for Creative Cognition
- Nest for Entrepreneurship in Science & Technology
- Collaboratory for Social Innovation
- Center for Design
- R & D Cell
- Industry- Institute Partnership Cell



Dr. L. M. I. Leo Joseph

Dean, School of Engineering

Dean Message

It is with immense pride that I share the remarkable progress of the Department of Electrical and Electronics Engineering at SR University. Over the past six months, the department has achieved significant milestones in research, academic excellence, and industry collaborations.

With a strong focus on cutting-edge technologies such as renewable energy, power electronics, smart grids, and embedded systems, our faculty and scholars have contributed impactful research through high-impact journal publications, industry-funded projects, and collaborative initiatives. Students have actively participated in workshops, hackathons, and industrial visits, gaining invaluable hands-on experience that complements their academic learning. Our collaborations with leading companies, including our recent MoUs, have further strengthened industry connections, enhancing career opportunities for students.

As the department continues to grow, I encourage students and faculty to push the boundaries of innovation, strive for excellence, and work towards creating a sustainable future.



Dr. Md Mujahid Irfan

Associate Professor & HoD,
Electrical and Electronics Engineering

HoD Message

It is a moment of great pride to present the EEE Department Newsletter, reflecting the outstanding achievements of our faculty, students, and research scholars. Over the past months, our department has been at the forefront of innovation, fostering academic growth and technological advancements.

Our collaborations with industry leaders like Siemens and TVS TS are providing students with hands-on exposure to emerging trends such as automation, electric vehicle technology, and data-driven solutions for sustainable energy. We have also expanded our research initiatives through MoUs with Surya-Tech Hyderabad and Shubhitha S Energy Solutions, enabling joint research, internships, and skill development programs.

The department remains committed to the United Nations' Sustainable Development Goals, actively contributing to climate action and clean energy initiatives. With the rapid evolution of electric vehicle technology and the integration of AI in power systems, our students are being equipped with future-ready skills to take on leadership roles in the industry.

I congratulate the entire department for their continued success and look forward to more groundbreaking research and academic achievements in the coming months.

MoUs Signed for Research & Industry Collaboration

SR University & Surya-Tech Hyderabad: This partnership aims to enhance research and innovation in electrical engineering by providing students with hands-on experience through collaborative projects and industry exposure.



SR University & Shubhitha S Energy Solutions: Focused on advancing sustainable energy solutions, this MoU facilitates student training, industry-driven research, and skill development in renewable energy technologies.



Industrial Visits for Practical Exposure

Industrial Visit to Kakatiya Thermal Power Station, Chelpur on 22nd Aug, 2024

Students gained practical knowledge of thermal power generation, including operational processes, energy conversion techniques, and grid integration.



Industrial visit to Karimnagar Milk Products Company Limited (KMPCL) on 20th Sep, 2024

The visit provided insights into automation, quality control, and electrical systems used in large-scale dairy processing and production.

Heavy Water Plant, Manuguru

Industrial Visit to Heavy Water Plant, Manuguru on 13th Sep, 2024



Students explored nuclear energy production, reactor support systems, and safety protocols essential for energy generation and industrial applications.



Mulkanoor Dairy



Student Achievements



Sai Varshith was honored with a Gold Medal at SR University's 2nd Convocation for his exceptional academic performance during the academic year 2021-24, achieving a grade of 9.5 and demonstrating excellence and dedication in Electrical and Electronics Engineering.

Sheshu Gandhasiri was awarded a Silver Medal at SR University's 2nd Convocation in recognition of his outstanding academic achievements during the academic year 2021-24, achieving a grade of 9.57 and showcasing his commitment to excellence in engineering studies.



The winners of Yantra – Project Expo 2024 from the EEE Department showcased exceptional innovation and technical expertise through their projects, demonstrating practical solutions to real-world engineering challenges. Their achievements reflect the department's commitment to fostering creativity and hands-on learning.

Scholar's Achievements

M. Prashanth Kumar, a research scholar from the EEE Department, secured the second position in the poster presentation at the 18th National Frontiers of Engineering (NatFoE) Symposium on Innovations in Manufacturing Practices held at NIT Warangal. His presentation focused on Smart Grid Power Electronics Converters, Control, and Protection, showcasing advanced methodologies for enhancing grid efficiency and reliability. This achievement reflects the department's dedication to cutting-edge research and innovation in power systems.



Sruthi Nookala, a full-time research scholar from the EEE Department, was honored with a Token of Achievement by Dr. Md Mujahid Irfan (HoD, EEE) and Dr. Sachidanand Sen (Research Assistant Dean, EEE) for her recent SCIE Q2 journal publication. Her paper, published in Science and Technology for Energy Transition, focuses on decentralized frequency regulation in mixed energy sources using the Artificial Gorilla Troops Algorithm



M. Pavan Kumar, a full-time research scholar from the EEE Department, received the Best Paper Award at the Second International Conference on Emerging Technologies and Applications in Electrical Engineering (NIT Nagpur) for his paper titled "Dynamic Control and Stability Analysis of Bidirectional DC-DC Converter."

Faculty achievement



Dr. Chandan Kumar Shiva, faculty member of the EEE Department, was honored with a certificate by the Vice-Chancellor for his exemplary guidance in supervising a student's SCI publication, showcasing his dedication to academic and research excellence.

Dr. Sachidananda Sen and Dr. Vedik received the Best Paper Award in Track 1: Power Systems, Smart Grid, Smart City, Smart Systems, and Technologies at the 2024 IEEE Flagship International BIT Conference (BITCON-24).

Dr. Sachidananda Sen, along with Maneesh Kumar and J. Ajayan, has been awarded the Best Poster Award at the IEEE 4th International Conference on Sustainable Energy and Future Electric Transportation (SEFET-2024).

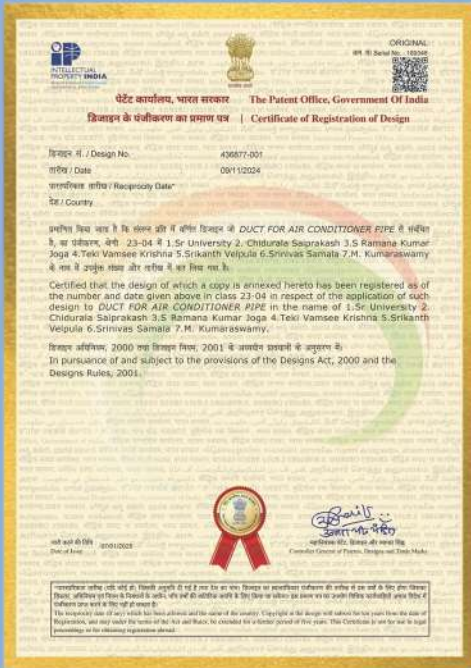
Congratulations to
ONE OF OUR
TOP 3
Research Achievers

Winners of
DECEMBER
MONTH



Dr. Sachidananda Sen
Associate Professor
School of Engineering

Dr. Sachidananda Sen from the Department of Electrical and Electronics Engineering (EEE) at SR University has been recognized as one of the Top 3 Researchers for the month of December. His dedication to research and innovation continues to make a significant impact in his field.



Patents Granted:

The EEE Department at SR University proudly celebrates the patent grant for "Duct for Air Conditioner Pipe," recognized in the Indian Patent Journal. Led by Dr. Chidurala Saiprakash Reddy and his team, this achievement reflects the department's commitment to research and innovation. SR University continues to support pioneering work, driving real-world engineering solutions

The EEE Department at SR University proudly announces the patent grant for "Currency Detection Wallet for Blind," developed under the Design for Social Impact course. Led by Dr. M.M. Irfan, this innovation highlights the department's commitment to technology-driven social impact. This achievement reflects SR University's dedication to fostering impactful research through initiatives like IUCEE, EPICS at Purdue, and EPICS in IEEE.



The Patent Office Journal No. 38/2024 Dated 20/09/2024		84631
(12) PATENT APPLICATION PUBLICATION	(21) Application No 20244168264 A	
(19) INDIA		
(22) Date of filing of Application : 10/09/2024	(43) Publication Date : 20/09/2024	
(54) Title of the invention : ELECTRICAL MACHINE PROTECTION SYSTEM WITH REAL-TIME MONITORING AND REMOTE		
(51) International classification	(71) Name of Applicant :	
(86) International Application No	SR UNIVERSITY	
(87) International Publication No	Address of Applicant : ANANTHASAGAR, HASANPARTHY (M),	
(61) Patent of Addition to	WARANGAL URBAN, TELANGANA - 506371, INDIA	
Application Number	Name of Applicant : NA	
Filing Date	(72) Name of Inventor :	
(62) Divisional to Application	1) BHARGAVA RAJABABU	
Number	Address of Applicant : SR UNIVERSITY, ANANTHASAGAR, WARANGAL,	
Filing Date	TELANGANA-506371, INDIA	
	2) RAJESHWARAO ARABELLI	
	Address of Applicant : SR UNIVERSITY, ANANTHASAGAR, WARANGAL,	
	TELANGANA-506371, INDIA	
	3) B. SATYAVANI	
	Address of Applicant : SR UNIVERSITY, ANANTHASAGAR, WARANGAL,	
	TELANGANA-506371, INDIA	
	4) DR. V. VENKATARAMANA	
	Address of Applicant : ANANTHASAGAR, WARANGAL,	
	TELANGANA-506371, INDIA	
	5) SRAM RAGHOTHAM RAO DESHMUKHI	
	Address of Applicant : SR UNIVERSITY, ANANTHASAGAR, WARANGAL,	
	TELANGANA-506371, INDIA	
(57) Abstract:		
ELECTRICAL MACHINE PROTECTION SYSTEM WITH REAL-TIME MONITORING AND REMOTE The present invention discloses an electrical machine protection system designed to monitor and safeguard electrical machines (generators and motors) from damage caused by overload currents, various types of faults, and mechanical vibrations. The system utilizes current sensors to detect stator and rotor faults, and a vibration sensor to measure mechanical vibrations. The collected data is processed by a microcontroller, which triggers visual and audible alerts through LED indicators and a buzzer, and sends notifications to a mobile device for remote monitoring and control. The system can also automatically disconnect the machine from the power supply under abnormal conditions to prevent further damage.		
No. of Pages : 8 No. of Claims : 1		

Patent Published:

The EEE Department at SR University is proud to announce the official publication of the patent "Electrical Machine Protection System with Real-Time Monitoring and Remote Access" on 20/09/2024. This innovation enhances machine safety, real-time monitoring, and remote accessibility, showcasing the department's commitment to advanced research.

Expert Talks & Workshops

Conducted an insightful session with Dr. Ankur Srivastava from the University of Connecticut, USA, as he explores secure and reliable grid technologies for next-gen transmission line protection using dynamic state estimation.

Conducted an insightful session with Join Madan Mohan Koukuntla, Managing Director of HIEE, for a career talk aimed at preparing students for industry internships.

INTERNSHIP CAREER TALK

LISTEN & ACT: PAVING YOUR WAY TO INDUSTRY



More info:  **04-06-2024**
 11.30 AM onwards

**MADAN MOHAN
KOUKUNTLA**
Managing Director - HIEE







RESEARCH TALK

on
"Demo Cum Tech-talk on
Power Quality Analysis and
Thermography of Electrical
Power Systems"

By
Dr. B. Koti Reddy
Energy Consultant (Hon),
IIT Hyderabad



More Info :

 August 13, 2024
 02.00 PM
 Faraday Hall, Block-II

 www.sru.edu.in

Dr. B. Koti Reddy lead a research-focused session on power quality analysis and thermography in electrical systems, demonstrating advanced diagnostic techniques.

- Conducted an insightful session with Dr. Saurav Raj from ICT Mumbai, as he guided attendees through an entry-level MATLAB tutorial, perfect for students interested in control systems.
- Former Principal Engineer at Dubai Municipality, Ippagunta Venkata Subba Rao presented on Industrial Control Systems, addressing real-world applications and challenges.
- Dr. A. Sudhakar, Professor and HoD at MLRIT Hyderabad discussed advancements in Power Electronics and Electric Drives, offering valuable insights for our EEE students and faculty.



BADDAM NIKITHA
(2005A21003)-IV EEE
student speaker



PAUL THOTTE
(2105A21L36)-IV EEE
student speaker



TECHXPLORE - I

UNVEILING THE FUTURE -
STUDENT TECHNICAL TALKS

Topic: Short-Term
Load Forecasting
Using AI Techniques



DEPT. OF EEE



TIME: 1.00PM - 3.00PM
16 FEB 2024



VENUE
FARADAY HALL,
BLOCK-II



DR. V. V. RAMANA
Assistant Dean Student Welfare
Dept. of EEE



v.venkataramana@sru.edu.in
8500962470

The Department of Electrical and Electronics Engineering hosted TechXplore-I, a student-driven technical talk under the theme "Unveiling the Future." Held on February 16, 2024, in Faraday Hall, this session focused on "Short-Term Load Forecasting Using AI Techniques." The talk was delivered by Baddam Nikitha and Paul Thotte, IV-year EEE students, who shared insights into leveraging AI for precise load forecasting.

Alumni Talk

The EEE Department at SR University was pleased to host Srinivas Polu, a distinguished alumnus and industry expert, for an insightful session with students. His talk provided valuable industry insights, helping bridge the gap between academics and real-world applications. Such interactions inspire students and strengthen alumni connections, fostering continuous learning and growth.

Alumni Talk

Job Opportunities in Electrical Industry



Mr. P. SRINIVAS
Manager (Electrical)
Orient Cement Limited



September 19, 2024



10.00 AM



Faraday Hall, Block-II



Expert Talks & Workshops Outside SRU

Dr. Buddhadeva Sahoo, our faculty member, delivered an expert talk on "Enhancing Operational Efficiency: Leveraging Digital Twin Technology in Smart Grid Systems" at GIET, Bhubaneswar, sharing valuable insights on smart grid advancements and innovative energy solutions.



**Gandhi Institute for Education & Technology,
Baniatangi, Khurda**

Expert Talk
On
**Enhancing Operational Efficiency:
Leveraging Digital Twin Technology in Smart Microgrid Systems**

Dr. Buddhadeva Sahoo
Department of Electrical and Electronics Engineering,
SR University, Warangal,
Telangana, India

November 16, 2024
11:00AM-12:00Noon

Organised by
Department of
Electrical
Engineering



ANURAG ENGINEERING COLLEGE
[AN AUTONOMOUS INSTITUTION]
Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad.
Ananthagiri V & M, Kodad, Suryapet(Dt), Telangana-508206

Department of Electrical & Electronics Engineering

A One Day Workshop
On
"EV Technology: Latest trends and future prospects"

Speaker
Dr.M.M.Irfan,
Head, Department of the EEE, SR University, Warangal

Time: 10:00AM to 4:00 PM
Auditorium, E-Block

Coordinator **Mr.BSRINU** Convener **Mr.T.RAGHU** Principal **Dr.T.SURESH KUMAR**



Dr. M.M. Irfan conducted a one-day workshop on "EV Technology: Latest Trends and Future Prospects" at Anurag Engineering College on October 20, 2024. He delivered sessions on EV powertrain design and charging trends, showcasing expertise in electric vehicle technology.

FDP Conducted

The EEE department successfully hosted the Faculty Development Program on "Sustainable Power Generation and Advanced Electrical Systems" (SPGAES) 2024, promoting innovation in renewable energy and advanced electrical systems. The program facilitated knowledge exchange among industry experts, faculty, and professionals on sustainable power solutions and emerging technologies.


The EEE department organized the Faculty Development Program on "Next-Gen Sustainability Innovation: Pioneering Electric Vehicles and Renewable Sources Integration" (EVRSI), emphasizing the transformative role of electric vehicles and renewable energy sources in achieving a sustainable future.

The EEE Department hosted a successful five-day online Faculty Development Program (FDP) on "EV Technology: Latest Trends and Future Prospects," covering key topics such as sustainable mobility, energy storage systems, BMS algorithms, and EV market opportunities. The program featured insightful sessions from esteemed experts, fostering knowledge exchange and industry collaboration.


Activities/Events

ACADEMIC ADVISING DAY
For the students of
EEE I Year II Semester


Assistance on

 December 26th & 27th

► Course Registration for upcoming semester

 10.00 am to 4.00 pm

► Academic Planning

 Venue: Block-II, Ground Floor

The Department of Electrical and Electronics Engineering at SR University successfully organized an Academic Advising Day for first-year, second-semester students on December 26th and 27th. This event provided essential guidance on course registration for the upcoming semester and academic planning to ensure a smooth and successful academic journey.

The Orientation Program for M.Tech Power Electronics students, held on October 25, 2024, successfully acquainted new entrants with the program's objectives and opportunities, fostering a strong start to their academic journey

Welcome to
ORIENTATION
PROGRAMME
M.Tech. Power Electronics

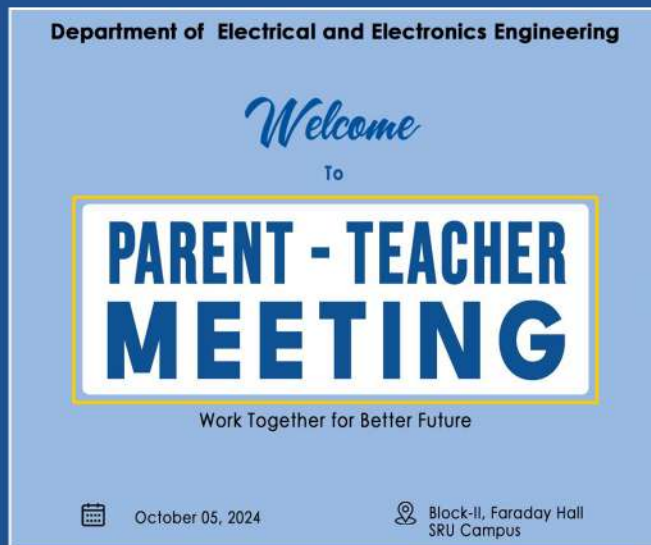
More info:

 25-10-2024

 10.30 AM

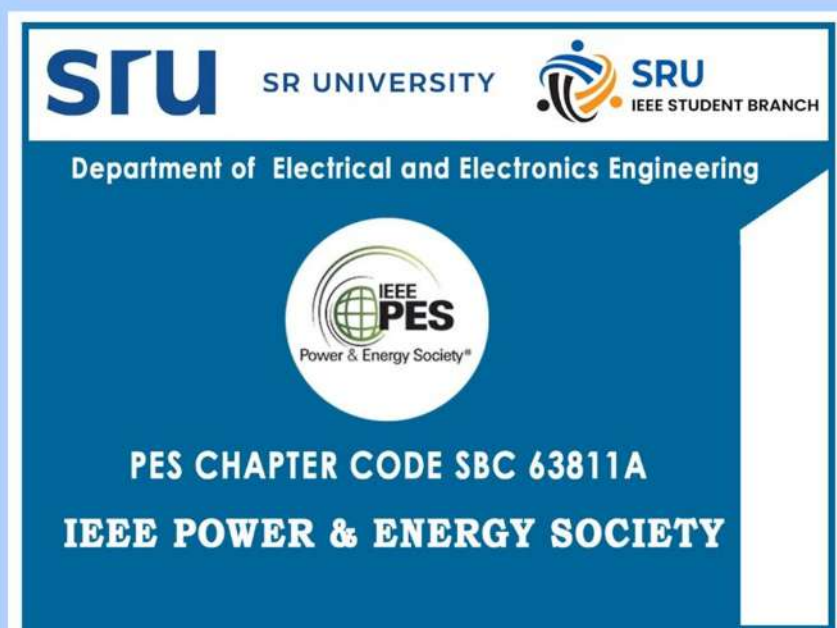
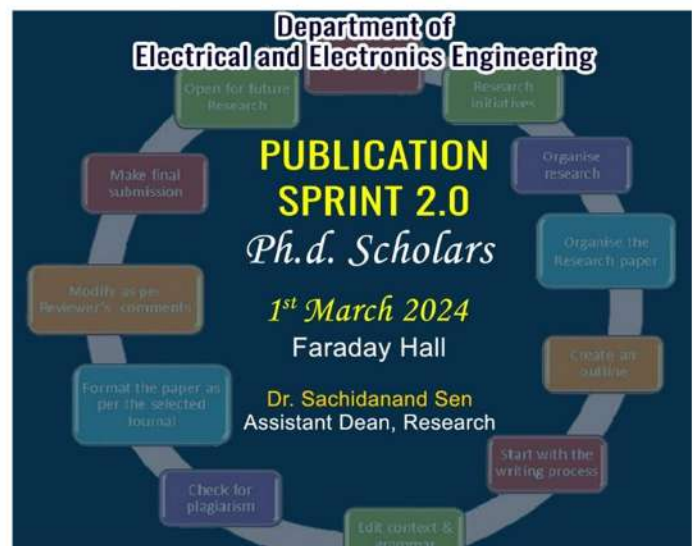
 Block-II, Faraday Hall

The EEE Department organized a productive Parent-Teacher Meeting on October 5, 2024, fostering strong collaboration between faculty and parents to support students' academic journeys and ensure a better future.



Research & Innovation

Ph.D. Publication Sprint 2.0: Provided expert guidance on research paper publication.



IEEE PES Chapter Launched

The inauguration of the IEEE Power & Energy Society (PES) Chapter fosters collaboration in energy research and industry networking.

Industry Training on E-Mobility with TVS TS

The EEE Department at SR University, in collaboration with TVS TS, conducted a five-day industry training on E-Mobility from November 5–9, 2024. Students gained hands-on experience in EV technology, battery pack assembly, and motor control under the guidance of trainer Jagan Kumar. This program bridged the gap between academics and industry, equipping students with essential skills for the future of e-mobility.



The EEE Department at SR University organized the ElectroWeb Hackathon 2024 on November 22, focusing on Python web app development for electrical engineering. Students developed innovative solutions, enhancing their coding and problem-solving skills. We thank Dr. Saiprakash Reddy and the team for their support in making this event a success.





The EEE department celebrated Ayudha Pooja in the month of October 2024, marking the spirit of the Dasara festival. This special occasion symbolizes our reverence for tools and instruments, signifying their role in our lives.

Yantra: The Revolutionary Expo 2024

The Department of Electrical and Electronics Engineering played a pivotal role in Yantra: The Revolutionary Expo 2K24, fostering innovation and technical excellence. The event provided a dynamic platform for students to showcase their groundbreaking projects, demonstrating creativity and expertise in emerging technologies. Through seamless coordination with students, faculty, and organizers, the department ensured smooth collaboration and successful project execution. This expo served as a catalyst for inspiring young minds, reinforcing the importance of research and innovation in the field of electrical and electronics engineering. We take pride in our contribution to this event and remain committed to nurturing future technological advancements.



Alumni Meet

Reconnected graduates with faculty and current students for knowledge exchange.



Placements

Congratulations



Muskan Fathima
EEE, Batch - 2025



Priyanka Ravula
EEE, Batch - 2025

Package with

12
LPA

Placed at



Muskan Fathima and Priyanka Ravula have been successfully placed at Schneider Electric with an impressive 12 LPA package.

EEE students have secured placements at Accenture with packages of 6.5 LPA and 4.5 LPA, highlighting their technical proficiency and industry readiness.

Package with

4.5
LPA



Ellandula Rishitha
(2105A21030) EEE, Batch - 2025



G. V. Manikanta
(2205A21L66) EEE, Batch - 2025

Placed at

accenture



Ramagiri Rakshitha
(2205A21L38) EEE, Batch - 2025



K. Shanthi Swaroop
(2105A21032) EEE, Batch - 2025



M. Shiva Krishna
(2105A21030) EEE, Batch - 2025

Package with

4.5
LPA

Placed at



Editorial Team



Faculty Coordinator:

Dr. Chidurala Saiprakash

Assistant Professor & Assistant Dean Placements

It is with great enthusiasm that we present this edition of our newsletter, capturing the remarkable achievements, collaborations, and innovations within our department. From groundbreaking MoUs and industry partnerships to hands-on workshops and expert talks, our faculty and students continue to push boundaries and make significant strides in academics and research.

This edition highlights our commitment to bridging the gap between academia and industry, ensuring that our students gain real-world exposure and stay at the forefront of technological advancements. We take immense pride in our faculty's contributions beyond campus, sharing their expertise across institutions, and our alumni returning to inspire the next generation.

As we continue to foster a culture of innovation and excellence, we invite you to stay connected,

Student Coordinators:



Chiliveru Pranay

(2305A21L11)



Ravula Satwik

(2305A21L39)



Chetti Aravind

(2305A21L09)