RESEARCH

Research Areas

- Control Systems
- Electrical Machines and Drives
- Power Electronics
- Power Systems
- High Voltage Engineering
- Smart Grid Technologies

Research Publications

Driven by the spirit of research, our faculty members have published a large number of research papers in leading international journals including some of the reputed IEEE transaction, reputed research publications such as Elsevier, Springer etc., along with presenting research work at renowned conferences held in India and abroad.

Academic and Research Labs

Our Department is home to various state-of-the-art labs including:

- E-Mobility-based Integrated Electrical Machines and Drives Systems Laboratory, under development by RockWell Automation - USA, National Instruments -USA, and Kirloskar Electric Co. Ltd. - India
- Control Systems Laboratory by National Instruments, USA
- Advanced Control Systems Design Laboratory by National Instruments, USA
- Fundamentals of Electrical Engineering Laboratory
- Electrical Circuit Theory Laboratory
- Computational Research laboratory

Scope and Opportunities

- Grab a wide range of career opportunities in Power Industries, Manufacturing, Telecommunications, Government PSUs, R&D Units, IT, Electricity Boards/Utility Companies, Private Firms, and Start-ups.
- Chance to fulfil your master's and doctoral programmes in renowned institutes in India or abroad. Opportunities like this are not limited to Electrical Engineering but can also be carried out in the allied & emerging areas of Computer Science and Engineering, Electronics and Communication Engineering, and Mechanical Engineering.
- Pursue a career in R&D and Innovative Teaching after completing an M.Tech/M.S and Ph.D.

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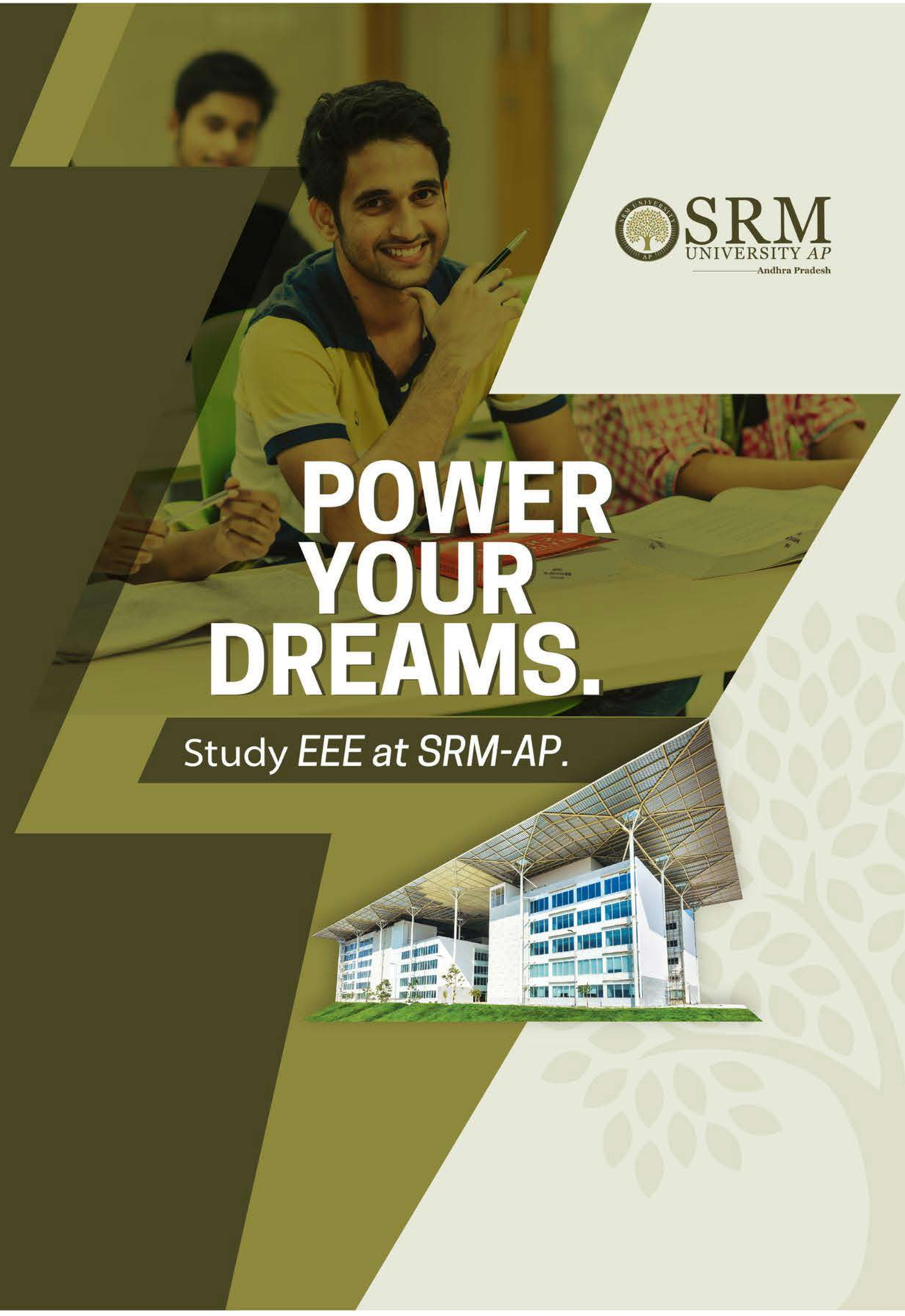

SRM UNIVERSITY AP
Andhra Pradesh

POWER YOUR DREAMS.

Study *EEE at SRM-AP.*

B.Tech (ELECTRICAL AND ELECTRONICS ENGINEERING)

4-Year Undergraduate Programme

Curriculum

The Electrical and Electronics Engineering curriculum is geared towards providing the student with a strong foundation in the discipline, and exposure to and understanding of the wide-ranging applications of this field, the skills of analysis and design for engineering new systems, and the competencies that will enable them to think out of the box and innovate, to address new and challenging problems. To earn a B. Tech. degree in Electrical and Electronics Engineering, a student should earn a minimum of 157 credits in the course of their study.

The credit requirements for their program of study is comprised of 4 parts:

- General Education Requirements
- Science and Engineering Requirements
- Electrical and Electronics Engineering Requirements
- Open Electives

Specialisations

- E-Mobility: Electric Drives and Embedded Systems for Control & Communication
- Energy Efficient Systems: Power Generation, Transmission, and HVDC
- Smart Grid: Renewable Energy Sources, AC/DC Micro-grids, Power Quality, and Automation & Control

Why study EEE at SRM-AP?

- Student Exchange Programmes: Gain international exposure with world-renowned universities including UC Berkeley, MIT Boston, University of Wisconsin–Madison, etc.
- Minor Courses: Pursue a minor in a specialization of your choice along with your major degree.
- Internships: Intern at leading international and national institutes, industries, and research and development laboratories.
- Invited Talks/Seminars: Get valuable insights through invited talks/seminars by professors and industry professionals.

ABOUT EEE DEPARTMENT

Overview

Designed under the expert guidance of academicians and industrialists alike, the curriculum focuses on both core and allied courses. Keeping in mind the current and upcoming industry requirements, it helps students acquire knowledge in core electrical engineering, electronics and communication systems, information technology, and other related fields. Most courses involve practical training in the lab followed by project work.

Vision

- To impart knowledge to students in science and technology, while equipping them to handle challenges faced by the 21st-century world.
- To instil the core values of professional integrity, academic freedom, spirit of enquiry, and service to humanity at large.

Mission

- To be recognised as a department for incubators and technology leaders through science parks while catering to industry-department interaction.
- To nurture scientific thought, research, and creativity in solving global techno-economic problems, resulting in products and processes for a better quality of life, an improved environment, and the progress of humanity.

Faculty

- The Department has a talented pool of highly accomplished regular and visiting faculty members, all of whom hold a Ph.D. from reputed institutes such as the IITs and BARC.
- Displaying a high level of dedication and enthusiasm towards both teaching and research, they have sound knowledge in emerging research areas such as Adaptive & Robust Control Schemes for Power Electronic & Drives Applications, High Voltage Pulse Power System, Electrical Machines and Drives, Control of Electric Vehicle and Energy Management, Power System Optimization and Active Distribution Networks, Home Energy Management and Smart Grid Technologies.

Dr. Tousif Khan N

Dr. Tousif Khan N, HoD-EEE has been selected for prestigious "APJ Abdul Kalam International Memorial Travel Award" in 2020.

Dr. Somesh Vinayak Tewari

Dr. Somesh Vinayak Tewari, has been awarded with Outstanding Doctoral Student Award award by HBNI-BARC, Mumbai in 2019.