ABOUT THE UNIVERSITY

Andhra University is one of the oldest educational institutions in the country. Andhra University was constituted in the year 1926. The 86-year-old institution is fortunate to have Sir C.R. Reddy as its founder Vice-Chancellor, as the steps taken by this visionary proved to be fruitful in the long run. Former President of India Dr. Sarvepalli Radhakrishnan was one of its Vice-Chancellors who succeed Dr. C. R. Reddy in 1931. The leaders of the university always believed that excellence in higher education is the best investment for the country and engaged the services to high standards for teaching and research. Keeping in pace with the global needs and challenges under the leadership and guidance of successive Vice-chancellors, the University is offering several new Courses of relevance and Contemporary significance. Andhra University has established an international image in academic excellence with the accreditation by NAAC with ‘A’ grade in April 2002 and is general University in the country to get ISO 9001: 2008 Certification in 2009. The University has five constituent colleges offering total 313 courses in various specializations and four AU Campuses at different locations and the University has well experienced and export faculty known world wide for their research contributions.

ABOUT THE AU COLLEGE OF ENGINEERING (A)

Andhra University is one of the top most universities in India for engineering. The College of engineering with three sections has been established at Visakhapatnam in 1953. By 1962 the Department of Chemical Technology has started. The sections of Basic Sciences were upgraded in 1964 to Departments in 1979. Over the years, the Andhra University College of Engineering grew from strength to strength and at present it has 15 Departments offering Undergraduate, Postgraduate and Research Programmes.

ABOUT THE DEPARTMENT

The Department of Electrical Engineering was started in 1955 as one of the three constituents of the Department of Engineering in Andhra University and grown to the status of full Department in 1969. Currently department offers a UG program in Electrical and Electronics Engineering and 3 PG programs. The Department also offers Ph.D programme to promote basic research activities in the various areas of Electrical Engineering. The consultancy service is also rendered by the department. The Department has well established with conventional laboratories like Electrical Machines, Networks, Measurements, Power Electronics, Microprocessor, Control system and Digital Electronics. The faculty of the department is involved in research activities in the areas of fault detection, power system stability, load flows, optimal power flows, modal reduction, decentralized fault detection and flexible AC transmission systems. The current focus of research is on Fuzzy logic and Neural Network Applications.

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- Power Electronics & Solid State Devices
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- Grid optimization
- Static and dynamic component modeling
- Power system stability and control
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- Grid challenges: Planning, interconnection, operation and control
- Transmission planning under market and regulatory uncertainty
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- Design of Power components and systems
- Intelligent monitoring of high voltage power equipment
- Black-out prevention and restoration
- Power system restructuring
- Power system economics
- Power electronics and drives
- Power quality monitoring and drives
- State Estimation
- Probabilistic Methods For Energy Markets and Asset Management
- Damage Assessment and Restoration Modeling of Power Systems after Earth Quakes
- Condition Monitoring, Failure Diagnosis and Reliability Centered Maintenance
- Probabilistic Approach for Analysis and Design of Electrical Machines and Drives
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- Power System Security
- International coordination towards fully functioning Interconnected Power Grid
- Energy Security and Sustainability Analysis
- OLTC Operations
- Shunt Capacitor Switching During Emergency
- Hybrid Power Systems
- Intelligent Energy Distribution and Management
- Energy Efficient and Power Saving Technology
- Soft Computing Techniques in Power System
- DSP based Applications for Power System
- Energy Conservation & Harvesting
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### NATIONAL CONFERENCE on ADVANCED POWER SYSTEM (NCPS) 2 – 3rd, MAY 2014

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### KEY DATES

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