

## 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 succeeded 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, 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.

## ABOUT 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.

## ABOUT VISAKHAPATNAM

Visakhapatnam is a port city in the Indian state of Andhra Pradesh. It is located on the eastern shore of India, nestled among the hills of the Eastern Ghats and facing the Bay of Bengal to the east. The city is home to several state owned heavy industries, one the most advanced steel plant and has one of the country's largest ports and its oldest shipyard. It has the only natural harbor on the eastern coast of India. Andhra University, a prominent seat of education in Andhra Pradesh, is located here.



## ORGANIZING COMMITTEE

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Prof. E. A. Narayana,  
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### Convener

Dr. K. Vaisakh,  
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## REGISTRATION

Registration fees per Author per paper:

**Industries and Govt. Organizations** : Rs 3000/-  
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## ONLINE TRANSFER DETAILS:

Name of the account holder : Dr.K.Vaisakh

Account number : 10228086340

IFSC Code : SBIN0003170

Branch : SBI, AU Engg College

Campus, Andhra University, Visakhapatnam, A.P.

## SUBMISSION OF PAPERS

Authors are requested to submit soft copy of full paper (IEEE format not exceeding 6 pages) to email: [nceppecs2016@gmail.com](mailto:nceppecs2016@gmail.com). The paper must be accompanied by complete details of authors, their affiliation and email ID. *All the accepted and registered papers will be published in Conference proceedings. High quality research papers will be recommended for publication in journals.*

## KEY DATES(3<sup>rd</sup> Call for Papers)

Full Paper Submission : 30.04.2016

Notification of Acceptance (by email) : 02.05.2016

Final paper submission : 03.05.2016

Registration : 03.05.2016

Registration fee Rs 500/- extra after : 03.05.2016

## ADDRESS FOR CORRESPONDENCE

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CONFERENCE TOPICS

TRACK-I: Power Systems:

- Renewable energy technologies
- Distributed generation and micro grid
- Power generation, transmission & distribution
- Intelligent energy
- Power system instrumentation
- Power system protection
- High voltage & insulation engineering
- Power system planning and reliability
- Power system operation and management
- Power system analysis, simulation and control
- Electrical energy market, management & economics
- FACTS controllers & HVDC system
- Power quality issues and management
- Power electronics & solid state devices
- PLC & SCADA systems
- Wide area monitoring and network control
- Network communication and control
- Signal processing applications in power systems
- Design, development and placement of smart sensors in power system
- Grid optimization
- Static and dynamic component modeling
- Power system stability and control
- Impact of distributed generation on security and reliability of power systems
- Grid challenges: Planning, interconnection, operation and control
- Transmission planning under market and regulatory uncertainty
- Protection, special schemes and control integration
- 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 mitigation
- 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
- Energy storage design for electric power under uncertainty
- 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
- SP based applications for power systems
- Energy conservation & harvesting
- Optimal & economic management of power system

TRACK-II: Power Electronics:

- Motor Drives and Motion Control
- Analysis and Design of Electrical Machines
- Hard switching and soft switching static power converters
- Biomedical Power Electronics
- Power Electronics in Emerging Technologies
- Power Electronics & Energy Conversion
- Distributed Generation & Micro Grids
- Grid Interactive Systems in Hybrid Renewable Systems
- FACTS and HVDC Applications in Green Energy
- Systems Measurement & Instrumentation Systems
- Green Buildings / Zero Energy Buildings
- Power System Protection
- Power Quality & Energy Efficiency
- Energy Storage Systems & Technologies
- Electrochemical Power Sources
- Energy and Environment
- Organic Electronics - Materials & Applications
- Communication Protocols & Computer Networking for Energy Applications
- Energy Harvesting
- Aerospace Power Applications
- Control Systems for Energy Conversion & Management
- Optimization & Computational Techniques for Green Energy Systems
- Electric & Hybrid Vehicles Prediction
- Forecasting and Reliability Evaluation for Green Energy Systems
- Policies and Strategies for Renewable Energy Systems
- Renewable Energy Standards
- Advanced power semiconductor devices

TRACK-III: Control Systems:

- Control Algorithms - Design & Applications
- Fault Diagnosis and Fault Tolerant Control
- Automated Guided Vehicles
- State Estimation and System Identification
- Intelligent Mechatronics
- Process Automation
- Intelligent and AI Based Control
- Grid Computing
- Signal and Image Processing
- Computational Optimization
- Industrial systems and applications
- Control and Automation Engineering
- Linear/Nonlinear control
- Adaptive & optimal control
- Network based control
- Model predictive control
- Intelligent control
- Embedded systems and Networking
- Wireless sensor networking
- VLSI design
- Embedded systems
- Microprocessor based control
- Image and signal processing
- Navigation control and algorithm
- Robotics and Communication
- Sensors and Instrumentation
- MEMS and NANO sensor
- Sensor fusion and Optical Sensor
- Biometric sensor, Medical system and Control
- Neural network based controllers

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ORGANIZED BY

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ANDHRA UNIVERSITY COLLEGE OF  
ENGINEERING (A),  
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