

### ABOUT THE ORGANIZATION

Andhra University was constituted in the year 1926 and is one of the oldest Universities in India. The 92-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 Radha Krishnan was one of its Vice Chancellors 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 of famous educationists to mention a few set 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 accreditation by "NAAC" with "A" grade and a general university in the country to get ISO 9001: 2008 Certification. The university has seven constituent colleges and four AU campuses. Presently it is among the top universities in India for engineering. Over the years, the Andhra University College of Engineering (A) grew from strength to strength and at present it has 15 departments offering UG, PG and Research programs.

### 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 course in Electrical and Electronics engineering and 3 PG programs. The Department also offers Ph.D. programme to promote basic research activities in the areas related to Electrical Engineering. The consultancy service is also rendered by the department. The Department is well

Established with conventional labs as well as advanced laboratories. The faculty of the department is involved in research activities in the areas of power systems, renewable energy systems, control systems, and advanced power electronic drives.

### OBJECTIVE OF THE WORKSHOP

Industrial automation and IIOT plays an important role in the upcoming industrial setups in solving the requirements of the process. It is the use of automatic control systems, such as computers or robots, and information technologies for handling different process and machineries in an industry to replace a human being. It is second step beyond mechanization in the scope of industrialization. PLC also known as industrial computer is the major component in industrial automation sector and HMI and SCADA master controls and visualizes the entire control process.

In view of this, it is proposed to train the faculty, research and post graduate scholars with foundations in programming and communications of automation tools like PLC, HMI and SCADA along with their applications in electrical drives, electric vehicles and renewable energy based copter drives in this one week workshop so that the participants can comfortably carryout their research work at the later stage.

### TOPICS FOR DISCUSSION:

Expert lectures and discussions will be mainly concentrating on the Fundamentals, Logic design, Programming and implementations of the following topics besides hands on training for every participant.

- Programmable Logic Controllers
- HMI
- SCADA
- AC Drives
- Analog (ADC and DAC Communication)
- Electric Vehicle Communication
- Quad copter modeling and design

### RESOURCE PERSONS:

Experts from Automation industry, R&D, various Academic institutions and Faculty of Andhra University

### HANDS ON TRAINING AND LECTURE NOTES:

To realize the objectives of the course, hands on training on PLC programming, HMI and SCADA interfacing, Drives etc., is arranged to all the participants. Lecture notes/ presentation slides will be made available to the participants.

(\*Participants are advised to bring their personal laptops)

### ELIGIBILITY:

Faculty members of Engineering / Polytechnic Colleges approved by AICTE / Industry / Researcher Scholars / PG students of all the branches are eligible to attend the course.

### REGISTRATION:

Registration fee for the course: **Rs 1000/-**

Participants can register by sending the registration form along with Demand Draft drawn in favor of Dr. N. Prema Kumar, A/C No. 30378051906, payable at SBI, AUCE Campus branch (IFSC # SBIN0003170), Visakhapatnam.

### ACCOMMODATION TO PARTICIPANTS:

Accommodation will be provided in AU Guest houses and in nearby hotels on Payment basis.

### IMPORTANT DATES:

Last date for Registration : November 3, 2018.

Intimation of Confirmation: November 5, 2018\*.

(\*After receiving the applications subjected to the limit on the participants)

**REGISTRATION FORM**  
**TEQIP- III Sponsored**  
**One Week Workshop on**  
**AUTOMATION TOOLS FOR ENGINEERING**  
**APPLICATIONS**  
**(ATEA - 2018)**

Name:

Designation:

College:

Address for Correspondence:

Phone:

e-mail:

Mobile number:

Details of registration:

Amount: Rs.

DD. No:

Date:

I declare that the details furnished above are correct to the best of my knowledge and belief. I also undertake to abide by the rules and other conditions prescribed during the course at A.U College of Engineering (Autonomous), Visakhapatnam.

Signature of  
Participant

Signature of Principal/  
HOD with stamp

**ORGANIZING COMMITTEE**

**Chief Patron:**

**Prof. G. Nageswara Rao**  
**Hon'ble Vice Chancellor, Andhra University**

**Patron:**

**Prof. P.S. Avadhani**  
**Principal, A.U. College of Engineering (A)**

**Chairman:**

**Prof. K. Vaisakh**  
**Head of Department of Electrical Engineering**

**Coordinators:**

**Prof. N. Prema Kumar**  
**Prof. Ch. V. V. S. Bhaskara Reddy**

**Advisory Committee:**

**Prof. G.V. Siva Krishna Rao,**  
**Prof. K. Rama Sudha,**  
**Prof. P. Mallikarjuna Rao,**  
**Prof. M. Gopichand Naik,**  
**Mr. K. Chandra Sekhar,**  
**Dr. K. Padma,**  
**Dr. R. Srinu Naik,**  
**Mr. B. Amarendra Reddy,**  
**Dr. R. Vijayasanthi.**

**Address for Correspondence:**

**Dr. N. Prema Kumar**  
**Professor, Electrical Engineering**  
**AU College of Engineering (A)**  
**Visakhapatnam-53003, A.P, India**  
**Mobile no.: +91 9490193294**  
**Email: auatea2018@gmail.com**  
**prof.prema.ee@andhrauniversity.edu.in**

**Contact for Information & Accommodation:**

**Mr. Y. Anil Kumar (Ph. D) : +91 9652852795**  
**Mrs. G. Anitha (Ph. D) : +91 99490 13395**

**Call for Participation**

**TEQIP- III Sponsored**  
**One Week Workshop**  
**On**

**AUTOMATION TOOLS FOR**  
**ENGINEERING APPLICATIONS**

**(ATEA - 2018)**

**November 09-13, 2018**

**Under**  
**Twinning Activity of TEQIP-III**  
**by**



**DEPARTMENT OF ELECTRICAL ENGINEERING**  
**AU COLLEGE OF ENGINEERING (Autonomous)**  
**ANDHRA UNIVERSITY**  
**VISAKHAPATNAM, ANDHRAPRADESH**

**&**

**GOVIND BALLABH PANT INSTITUTE OF**  
**ENGINEERING & TECHNOLOGY,**  
**PAURI GARHWAL, UTTARAKHAND**  
**(An Autonomous Institute of Government of**  
**Uttarakhand)**