

REGISTRATION FORM

A One Week Online

AICTE-ISTE Sponsored Induction /

Refresher Programme on

“Industrial Automation and Control ”
(IA&C-2021)

First phase Online: 8 -13 February 2021

Second phase Online: 8-13 March 2021

Third Phase Online: 5-10 April 2021

Name : _____

Designation : _____

Department : _____

Institution Name: _____

Address: _____

Pincode: _____

Mobile: _____

E-Mail: _____

ISTE Life Membership : _____

Signature of Applicant

Signature of Head
of Institution

Eligibility: This programme is designed for faculties of EEE, ECE and MECH departments from AICTE approved educational institutions.

Important Dates:

Last date for First Phase registration: **04-02-2021**

Last date for Second phase registration: **04-03-2021**

Last date for Third phase registration: **31-03-2021**

Registration: Participants are requested to register by filling the registration form and sending the same to the Coordinator. The number of participants are limited to 100. The selection is based on first come first serve basis. Priority will be given to ISTE Life Members.

Test & Certificate: Test will be conducted at the end of Programme and digital certificates will be issued to participants who have attended the programme with a minimum of 80% attendance and scored a minimum of 60% in the test. The participants are also required to submit feedback for each session using the feed back link that will be provided to them.

The Google form links for Registration:

1st Phase-<https://bit.ly/35vplue>

2nd Phase- <https://bit.ly/35ztnln>

3rd Phase-<https://bit.ly/38yvCY8>

ADDRESS FOR ALL CORRESPONDENCE

Dr. N. Ravi Sankara Reddy, Coordinator

Department of Electrical & Electronics Engineering

G. Pulla Reddy Engineering College (Autonomous)

KURNOOL - 518 007, Andhra Pradesh, India.

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Organized by
Dept of Electrical & Electronics
Engineering



G. Pulla Reddy Engineering College
(Autonomous)

Accredited by NBA of AICTE and NAAC
of UGC

& Affiliated to JNTUA, Ananthapuramu
KURNOOL – 518007

ABOUT THE COLLEGE

The College is the brainchild of the renowned philanthropist, Late Sri G. Pulla Reddy. Established in 1985 and managed by G. Pulla Reddy Charities Trust. The college is affiliated to Jawaharlal Nehru Technological University Anantapur, Ananthapuramu and approved by AICTE & accredited by NBA of AICTE and NAAC of UGC. The college offers Under Graduate Programmes in seven Engineering branches and three Post Graduate programmes. The college is situated on Kurnool – Chittoor National Highway No.18. Kurnool is well connected by Rail and Road. The places of interest nearby are Srisailam, Alampur, Mahanandi, Mantralayam and Belum Caves.

ABOUT THE DEPARTMENT

The department of Electrical & Electronics Engineering was started in 1994. The department has excellent infrastructure facilities, laboratories and faculty. Also the department offers Labview Academy programmes and various industry related trainings.

ABOUT THE WORKSHOP

Industrial Automation is today a key pillar of every manufacturing organization strategy. Usage of robots, AI and latest generation software to execute routine tasks and minimizing human involvement is proving to be extremely cost effective solution to the challenges of modern manufacturing. It helps in increasing quality, reliability and production rate and reducing overall cost of production. Use of industrial automation minimizes human errors. With the reduction of human errors, uniformity & product quality can be improved. Industrial automation enables the process variables to be maintained at desired values with the help of closed-loop control techniques. Automated machines or robots can work in hazardous working conditions and reduce manual error. It Provides knowledge of the different systems available and their applications, enabling engineers to design automation solutions to solve real industry problems. It Includes

case studies and practical information on key items that need to be considered when procuring automation systems.

RESOURCE PERSONS:

Mr. R. Venugopal, M.D. VENJAY INSTITUTE OF AUTOMATION, Bengaluru, Karnataka
Mr. J.Vamshi Krishna Reddy, AOL, Hyderabad, T.S.

TOPICS TO BE COVERED

- Introduction to automations and different generations, controller, PLC, DCS, CNC, Robotics, Data Acquisition.
- **Electrical part of automation:** Introduction to single line diagram and electrical part of automation like switchgears and starters. Understanding of VCB, ACB, MCCB, OLR, ELR, MPCB and different types of electrical protection involved in automation.
- **Electronics part of automation:** Like sensors and transducers, Live demonstration using the actual sensors, limit switches, Variable frequency drives motors etc networking of devices, role of IOT in automation. Hardware architecture etc.,
- **Mechanical part of automation.:** Different type of conveying like Belt conveyor, chain conveyor, ball screws, lead screws, rack and pinion etc., Dense phase conveying, hydraulics/pneumatics
- Different types of programming tools involved in automation. Ladder and FBD programming and its advantage.
- Encoders and their methods of interfacing.
- Introduction to SCADA and HMI and their various aspects.
- Create an application of bottle filling in SCADA
- Live demonstration of sheet cutting, variable frequency drives, etc.
- Creation and live demonstration of cuber using SCADA and PLC programming.
- One session on Art of living.

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Chairman: Sri. P. Subba Reddy

Chief Patron: Dr. B. Sreenivasa Reddy,
Principal, GPREC, Kurnool

Patron: Dr. T. Bramhananda Reddy
Prof & Head, EEE Dept.

Coordinator: Dr. N. Ravi Shankar Reddy,
Associate Professor, EEE Dept.

Advisory Committee:

Dr. Y. V. Siva Reddy, Professor, EEE Dept.

Dr. K. Sri Gowri, Professor, EEE Dept.

Dr. M. Siva Sathyanarayana, Asso.Prof, EEE Dept.

Dr. V. Ananthalakshmi, Asso. Prof, EEE Dept.

Dr. G. Sateesh, Asso. Prof, EEE Dept.

Dr. G. Kishor, Asso. Prof, EEE Dept.

Dr. Abid Nayeemuddin, Asso. Prof, EEE Dept.

Dr. M. Harshavardhan Reddy, Asso. Prof, EEE Dept.

Dr. B. Urmila, Asso. Prof, EEE Dept.

Dr. C. Harinatha Reddy, Asso. Prof, EEE Dept.

Online Facility Coordinator:

A. Pradeep Kumar Yadav, Asst. Prof. EEE Dept.

Organizing Committee:

All Assistant Professors of EEE Dept.