

#### ABOUT ANNA UNIVERSITY

Anna University was established on 4th September 1978. It offers higher education in Engineering, Technology and allied Sciences relevant to the current and projected needs of the society. Besides promoting research and disseminating knowledge gained there from, it fosters cooperation between the academic and industrial communities.

#### ABOUT MIT CAMPUS

In 1949, Shri.C.Rajam, gave the newly independent India, Madras Institute of Technology, so that MIT could establish the strong technical base it needed to take its place in the world. It was merged with Anna University in the year 1978. Sixty years hence, while it continues to be a pioneer in courses that it gave birth to, it is already renowned for producing the remarkable scientific community in more nascent courses such as Instrumentation Engineering and Aerospace Engineering, etc.

#### ABOUT THE DEPARTMENT

The Department of Instrumentation Engineering was established in the year 1949. The core strength of the Instrumentation Engineering Department MIT Campus, Anna University is Process Control & Instrumentation. The Department had received generous funding support from DST-FIST, DST-PURSE, UGC-UPE, UGC-SAP-DRS-I and TEQIP to establish state-of-the-art Research Laboratories. The UG programme offered by the Department has been accredited by NBA for 6 years. The Department shall strive towards becoming trend setter and a facilitator in Electronics, Instrumentation and Control Engineering for higher learning, research and consultancy.

### ORGANIZING COMMITTEE

Chief Patron : Dr.R.Velraj  
Vice Chancellor  
Anna University

Chief Patron : Dr.G.Ravikumar  
Registrar (i/c)  
Anna University

Chair : Dr.T.Thyagarajan  
Dean, MIT Campus  
Anna University

Co-Chair : Dr. N.Pappa  
Head of the Department  
Dept. of Instrumentation Engg.  
MIT Campus  
Anna University

Dr. D.Sridharan  
Director, CFD  
Anna University

Coordinator : Dr. N.Vinoth  
Assistant Professor  
Dept. of Instrumentation Engg.  
MIT Campus  
Anna University



**AICTE Training and Learning (ATAL)  
Academy**

**Sponsored  
Online Faculty Development  
Programme on**

**Hands-on training with  
Industrial Automation Systems  
(15-11-2021 - 19-11-2021)**

**Coordinator  
Dr. N.VINOTH**

**Organized by**



**Department of Instrumentation  
Engineering,  
MIT Campus  
Anna University, Chennai-600 044**



## About the FDP

The objective of this course is to provide a forum for faculty to exchange ideas on the state-of-the-art research and development and identify future research needs in this interdisciplinary emerging field. In the present course, opportunities will be provided for establishing confidence in working in the area of Industrial Automation.

To provide exposure to Wireless/IoT/Cloud based industrial automation. Resource persons will be contributing their valuable insights on the above topics. Simulation training in areas of PLC, DCS, SCADA and HMI will be provided.

## Course Contents

- PLC and DCS concepts
- IEC-61131-3 based programming Techniques
- IIoT Based Industrial Automation
- Robotics
- OPC UA overview
- Simulation Experience in PLC softwares
- SCADA and HMI Programming
- Protocols and its interfaces

Sessions will be delivered and handled by experts from esteemed institutions and leading automation companies namely Emerson, Mitsubishi Electric, Yokogawa etc..

## Eligibility

The faculty members of the AICTE approved institutions, Research scholars, PG students and professionals from Government Organisations and Industries. Number of participants is limited to 200. There is no registration fee for the participants. Participants will be selected on first come first-serve basis.

## Online Platform

The entire programme will be conducted through online mode. The details of the online platform and meeting link will be communicated to the selected participants through their registered e-mail. The certificate shall be issued to those participants who have attended the programme with minimum 80% attendance and scored minimum 60% mark in the test.

## Registration

Registration is to be done only through <https://www.aicte-india.org/atal>  
For Registration, kindly make a login and select  
Application Number: 1614215885,  
Thrust area: Engineering  
Sub thrust area: Industrial Automation,  
Contact: The Coordinator  
Department of Instrumentation Engg,  
MIT Campus, Anna University  
9488027209  
[vinothbalaji@rediffmail.com](mailto:vinothbalaji@rediffmail.com)  
[vinothbalaji@annauniv.edu](mailto:vinothbalaji@annauniv.edu)



Siemens PCS7 and Invensys DCS



Schneider Electric Modular PLC



Mitsubishi Electric Factory Automation

**Faculty Development Programme on**  
**Hands on Training with Industrial Automation Systems**  
**15.11.2021 to 19.11.2021**  
**Programme Schedule**

Date & Day	Session I 10:00 – 11:30		Session II 11:45 – 1:15		Session III 2:30 – 4:30
<b>15.11.2021</b> <b>(Monday)</b>	Inaugural 9:30-10:00 Overview of recent trends in Industrial Automation <b>-Mr.Shivkumar</b> Vice President at MEL Systems and Services Ltd. Chennai	<b>Tea Break</b>	Overview of Industrial PLC and its programming Hands on session in PLC Ladder programming <b>-Mr.Himanshu Kumar</b> Indwell Automation, Mangaluru	<b>Lunch Break</b>	Training in Interfacing of PLC. <b>-Mr.Himanshu Kumar</b> Indwell Automation, Mangaluru
<b>16.11.2021</b> <b>(Tuesday)</b>	Description of various interfaces and protocols used for communication with DCS <b>-Mr. B.Saravanan</b> , Director, BrixEn, Hitech Pvt Ltd., Chennai		Hands on session in Schneider PLC on other programming Techniques ((IEC-61131-3)) <b>-Dr.A.Ganesh Ram</b> , Assistant Professor,MIT		Robotics: Advances and Applications <b>-Dr. Vijay Kumar Dalla</b> Assistant Professor Department of Mechanical Engineering, NIT Jamshedpur
<b>17.11.2021</b> <b>(Wednesday)</b>	Advancements in Industrial Automation - <b>Mr.Selvakumar</b> , Founder and President of Selva LLC, USA and Selva Engineering and Automation, India.		Overview about SCADA and HMI - <b>Dr.G.A.Rathy</b> , Associate Professor, Department of Electrical, Electronics & Communication Engineering, NITTTR, Chennai		Centum VP DCS Concept & Overview- <b>Mr.B.S.Manoj</b> , Technical Trainer, Yokagowa Pvt. Ltd.
<b>18.11.2021</b> <b>(Thursday)</b>	Overview of Mitsubishi RCP - <b>Mr.Prasanth</b> , Senior Engineer, Mitsubishi Electric, Chennai		Mitsubishi PLC programming - <b>Mr. Prashanth</b> , Sr.Engg, Mitsubishi Electric		Hands on session in Siemens PCS7 DCS - <b>Mr.V.Devakumar</b> , Manager Automation, PRIDE Technologies, Chennai.
<b>19.11.2021</b> <b>(Friday)</b>	Automation in refinery process - <b>Mr.Varun Chowdary</b> , Assistant Manager, IOCL		Importance of meditation in tackling mental and emotional stress <b>-Mr.Prakash</b> , Heartfullnuss Organization		Evaluation test and feedback forms and Valedictory.