

AICTE Sponsored
Two week FDP on
“Advanced Industrial Automation”
1st to 12th January 2018

Registration Form

Name:

Designation:

Organization/Institution:

Mailing Address:

Mobile No.:

E-Mail ID:

Signature of
Participant

Signature and Seal of
Head of the Institution

Mailing Address

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Organizing Coordinators

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**AICTE Sponsored
Two week
Faculty Development Programme
on**

“ADVANCED INDUSTRIAL AUTOMATION”

1st to 12th January 2018

Organized by



**Department of Mechanical Engineering
CMR Institute of Technology,
Bangalore - 560 037, Karnataka**

CMR Institute of Technology

The CMR Institute of Technology, established in the year 2000, is one of the leading technical institutions in Bangalore with **NAAC A+** grade. It is affiliated to Visvesvaraya Technological University, Belgaum, recognized by All India Council for Technical Education, New Delhi and accredited by National Board of Accreditation. The institute is consistently ranked among the top 10 colleges under Visvesvaraya Technological University.

Department of Mechanical Engineering

The Department of Mechanical Engineering was established in the year 2009 and has state-of-the-art laboratories with equipment having digitized outputs and interfacing with computers, facilitating research and consultancy. The Department of Mechanical Engineering currently offers UG programme with an intake of 120 students. The department is equipped with the best of faculty in the fields of Design, Thermal, Manufacturing, Mechatronics and Industrial Management. Special emphasis is provided for slow learners in the form of intensive coaching and best of attention is paid to potential rank holders.

About FDP

This FDP is to make aspiring engineers acquainted with the conceptual as well as practical knowledge of Industrial Automation and latest technologies being used to achieve industrial automation.

Objective

- To inculcate basic fundamentals of advanced automation in Faculty, researchers, and engineers from industries and provide them with a platform to work on.
- To inculcate knowledge on use control systems such as computers, PLCs, Micro-controllers to control machinery and processes to reduce the need for human sensory and mental requirements
- Technical know-how to automate industry via industrial automation.

Course Content

1. PLC (Introduction, types, hardware and software, micro and modular PLCs, logic development tricks, important instructions, industrial programs and industrial automation devices)
2. HMI (Introduction, hardware and software, operator panel and touch panel, HMI screen development, PLC interface, security level and P/W protection)
3. SCADA (Introduction, different tag creation, drive configuration, tags configuration, screens development, device tagging and PLC communication)
4. DRIVES (Introduction, parameter setting, multi speed, wiring, PLC interface)
5. ANALOG (Introduction, complete industrial

concept and D/A, wiring, PLC interface, Buffer memory and data reading program),

6. Interfacing Project (Industrial interfacing of PLC, HMI, SCADA and DRIVE with a good program)

Eligibility

Faculty members from AICTE recognized institutions, Research scholars pursuing Ph.D in the area of Mechanical Engineering and persons from industry are eligible to attend FDP.

Registration

The registration is free for all participants. However, it is restricted to 50 participants only. Last date to send duly filled registration form is 24th Dec. 2017.

Resource Persons

Experts from IISc, NIT, BARC, NAL, HAL, CMTI and other research organizations.

Accommodation and Travel

Free accommodation will be provided in the college hostel. The outstation participants are eligible for TA by shortest route as per AICTE norms.