



# Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)  
Old Bombay Road, Gachibowli, Hyderabad – 500 032. T.S, India

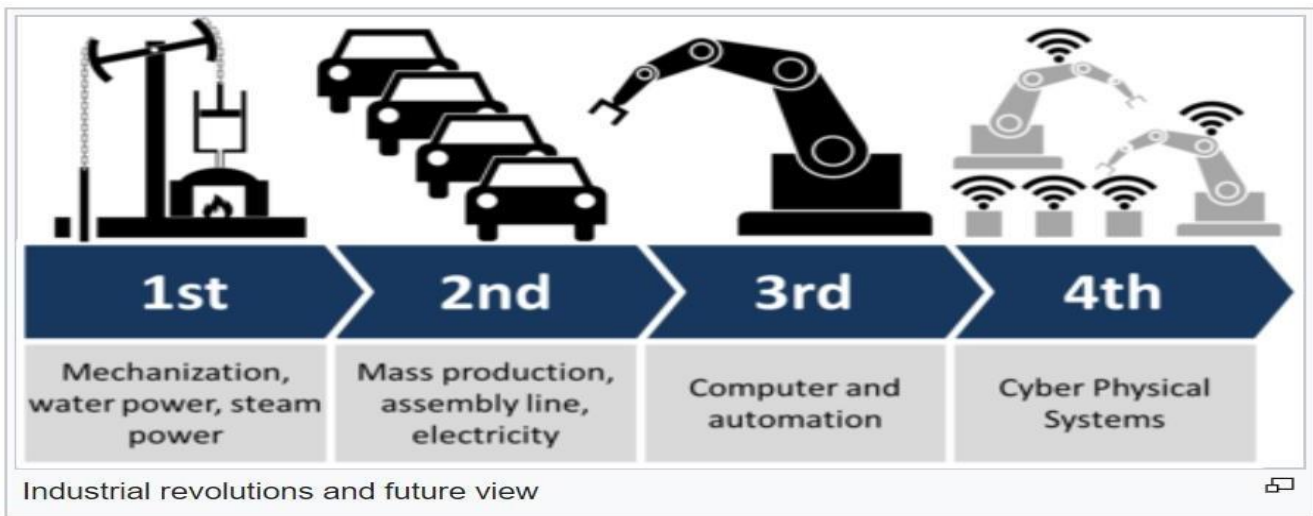
## Quality & Productivity Division

Continuing Professional Development Programme on

## Industry 5.0 Quality Aspects

14 – 17 July 2025

(Hybrid Mode)



(An ISO 9001:2015, ISO 14001:2015, ISO/IEC 17025:2017, ISO 45001:2018, ISO 50001:2018 Certified, AICTE & CEA Recognized Institution)

Centre for Promotion of Professional Excellence

## INTRODUCTION

**Industry 5.0** is a name given to the current trend of automation and data exchange in manufacturing technologies. It includes cyber-physical systems, the Internet of things (IoT), cloud computing and cognitive computing. Industry 5.0 is commonly referred to as the fifth industrial revolution.

Industry 5.0 fosters what has been called a "**smart factory**". Within modular structured smart factories, **cyber- physical systems** monitor physical processes, create a virtual copy of the physical world and make decentralized decisions. Over the Internet of Things (IoT), cyber-physical systems communicate and cooperate with each other and with humans in real-time both internally and across organizational services offered and used by participants of the value chain.

## ENABLING OBJECTIVES

- Understand Industry 5.0 components such as: Automation, Data Exchanges, Cloud, Cyber-physical systems, Robots, AI, Big Data, Deep Machine Learning, Internet of Things
- List key requirements for qualifying a factory or system as Industry 5.0
- Explore Impact of Lean manufacturing, Cloud Computing, Cyber Security, IoT etc.
- Strategize change management plan to support Industry 5.0 and innovation
- Become aware of data security issues and IT security principles.

## COVERAGE

- **The Development of Industry 4.0 will be covered.**
- **History of Development of Industry from 1.0 to 4.0 transformation process will covered**
- Demystifying Quality Aspects 5.0
- Leading Quality Aspects 5.0
- Leadership Capabilities thru' Quality Aspects 5.0
- Key Quality 5.0 Technologies
- Aligning Industry 5.0 and Strategies
- Design Principles of Industry 5.0
- Automation Pyramid and new Business Models in Industry 5.0
- Building Blocks of Industry 5.0 – Cyber Physical Systems

## METHODOLOGY

The Programme will be conducted in an interactive environment providing greater scope for discussions. Emphasis will be on a highly participative style of learning. The faculty will act as provocateurs and resource persons and demonstrate application oriented studies in a professional manner.

## TARGET PARTICIPANTS

Engineers & Managers from all Functions in Engineering / Manufacturing / Quality Control / Business Excellence / Administration / Materials Management / Planning / Maintenance & Outsourcing from all Government, Public and Private sector organizations. Professionals seeking up-to-date knowledge of the methods, principles and practice the latest trends in technology.

## PROGRAMME VENUE, DATES & TIMINGS

**Venue:** Engineering Staff College of India (ESCI) Campus, Beside CARE Hospital, Gachi Bowli, Hyderabad - 500032. Telangana State, India.

**Dates:** 14 – 17 July, 2025 (4 Days)

**Timings:** On the first day Registration will commence at 09.45 hrs. On all other days the Programme timings will be from 09.45 – 17.15 hrs. with breaks in between for tea and lunch.

### **COURSE DIRECTOR (S)**

**Dr. U S JYOTHI, FIE**

Sr. Faculty & Head I/c  
Quality & Productivity Division,  
Engineering Staff College of India  
Old Bombay Road, Gachibowli, Hyderabad - 500032  
Mob: 9959224748 / Ph: 040-66304110/4113  
Email: qp@escihyd.org

**Dr. KATTI BHARATH, M.Tech, Ph.D (NIT-Warangal)**

Faculty & Course Director  
Management & Technology Division,  
Engineering Staff College of India  
Mob: 7799114919 / Ph: 040-66304110/4113  
Email: qp@escihyd.org

### **FACULTY**

Apart from core internal faculty, experts from industry, consulting firms, government organizations, academic and research institutions and others will share the sessions.

### **COURSE FEE**

**Rs. 22,000/- (Residential) + 18% GST** per participant. Fee includes, course material, course kit, twin- sharing / single AC accommodation as per availability, breakfast, lunch, dinner, tea/coffee and snacks during the actual days of Training Programme.

**Rs. 14,000/- + 18% GST** per participant. Fee includes Experts Online Support and Reading Material Softcopy (**Online mode**)

### **DISCOUNT**

**Non Residential Discount:** 10% discount will be allowed if participant is non-residential (Participants who are attending offline only).

**GSTIN:** 36AAATT3439Q1ZV; **PAN Card No:** AAATT3439Q

Programme fee is to be paid in favour of “**IE(I)-Engineering Staff College of India**” in the form of demand draft payable at Hyderabad.

Alternatively, the payment may be made by Electronic Fund Transfer (EFT) to ESCI – **SB A/c No. 912010049234564** with **Axis Bank Ltd.**, Gachibowli branch, Old Mumbai Highway, Cyberhills Colony, P Janardhan Reddy Nagar, Gachibowli, Hyderabad – 500032, T.S., by NEFT/ RTGS/ IFSC Code No. UTIB0000733 – MICR No.500211020.

While using EFT method of payment, please ensure to communicate us your company name, **our invoice reference and Programme title.**

### **REGISTRATION**

To register, manually please send your nominations giving details of name, designation, contact address, email address, mobile no, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to Email: qp@escihyd.org

## **CERTIFICATE**

A certificate of participation will be awarded to each participant on successful completion of the Programme.

## **GENERAL INFORMATION**

- ESCI encourages participants to present case studies from their respective organizations.
- ESCI provides complimentary accommodation and boarding to the participants one day before commencement (Check-in at 1200 hrs.) and one day after conclusion (Check-out at 1200 hrs.) of the Programme duration. Overstay charges will be applicable as per ESCI rules (subject to availability of accommodation)
- Well-developed Information Centre and Internet facilities are available to the participants.