



Report of One Week FDP on Recent Trends in Smart Manufacturing and Industrial Automation

Duration: 06-10 April, 2026 (One Week)

Time: 3:00 P.M-5.00 PM

Mode of FDP: Online via MS Teams

Organized by: Mechatronics Department

Faculty Coordinators: Dr.Ravi Gandhi, Mr.Pathik Patel, Dr. Amlan Das

Target Audience: PG/PhD Scholars, Researchers and Academicians.

Introduction:

A one-week Online Faculty Development Program (FDP) on “**Recent Trends in Smart Manufacturing and Industrial Automation**” was organized by the **Mechatronics Department, G H Patel College of Engineering and Technology (GCET), CVM University** from **6th to 10th April 2026**. The program was conducted in online mode during **03:00 PM to 05:00 PM (IST)** and aimed at bringing together **research scholars, industry professionals, and faculty members**. The FDP focused on emerging technological advancements in smart manufacturing, industrial automation, and robotics, emphasizing the integration of modern tools such as Artificial Intelligence (AI), Machine Learning (ML), and collaborative robotic systems in industrial environments. The sessions were designed to bridge the gap between academic knowledge and industrial practices.

Objectives of the FDP:

- To provide fundamental and advanced knowledge of **smart manufacturing systems**.
- To familiarize participants with **industrial automation technologies** such as PLC, SCADA, and DCS.
- To explore the role of **robotics and automation** in modern industrial applications.
- To introduce emerging technologies like **Artificial Intelligence and Machine Learning** in manufacturing and robotics.
- To enhance participants’ understanding of **collaborative robotics (cobots)** and their industrial significance.
- To create a platform for interaction between **academia and industry experts**.
- To upgrade the teaching and research capabilities of faculty members in the domain of automation and smart systems.

Themes:

- Robotics and Industrial Automation
- Industrial Automation using PLC, SCADA, and DCS
- Emerging Trends in Smart Manufacturing
- Artificial Intelligence and Machine Learning for Robotics and Manufacturing
- Collaborative Robotics (Cobots) in Modern Industry

PHOTOGRAPHS:

The poster features the logos of CVM University and GCET. The main title is "ONE WEEK ONLINE FACULTY DEVELOPMENT PROGRAM (FDP) ON RECENT TRENDS IN SMART MANUFACTURING AND INDUSTRIAL AUTOMATION". It lists program details such as duration (6-10 April 2026), mode (online), time (03:00 PM to 5:00 PM IST), target audience (research scholars, industry personnel, faculty), registration fees (nil), and certificates provided (yes). Key topics include Robotics and Industrial Automation, Industrial Automation using PLC, SCADA, DCS, Emerging Trends in Smart Manufacturing, Artificial Intelligence and Machine Learning For Robotics and Manufacturing, and Collaborative Robotics (Cobots) in Modern Industry. A QR code is provided for registration.

Organised by
Mechatronics Department
G H Patel College of Engineering and Technology
The Charutar Vidya Mandal (CVM) University

GCET
G H PATEL COLLEGE OF
ENGINEERING & TECHNOLOGY

ONE WEEK ONLINE FACULTY DEVELOPMENT PROGRAM (FDP) ON
RECENT TRENDS IN SMART MANUFACTURING
AND INDUSTRIAL AUTOMATION

PROGRAM DETAILS

- DURATION:** 6-10, April 2026
- MODE:** Online
- TIME:** 03:00 PM to 5:00 PM (IST)
- TARGET AUDIENCE:** Research Scholars, Industry Personnel and Faculty Members
- REGISTRATION FEES:** NIL
- CERTIFICATES PROVIDED:** YES

KEY TOPICS

- Robotics and Industrial Automation
- Industrial Automation using PLC, SCADA, DCS
- Emerging Trends in Smart Manufacturing
- Artificial Intelligence and Machine Learning For Robotics and Manufacturing
- Collaborative Robotics (Cobots) in Modern Industry

FOR REGISTRATION:

Fig.1 FDP Poster



Fig.2 FDP attended by the faculty members of Mechatronics Department

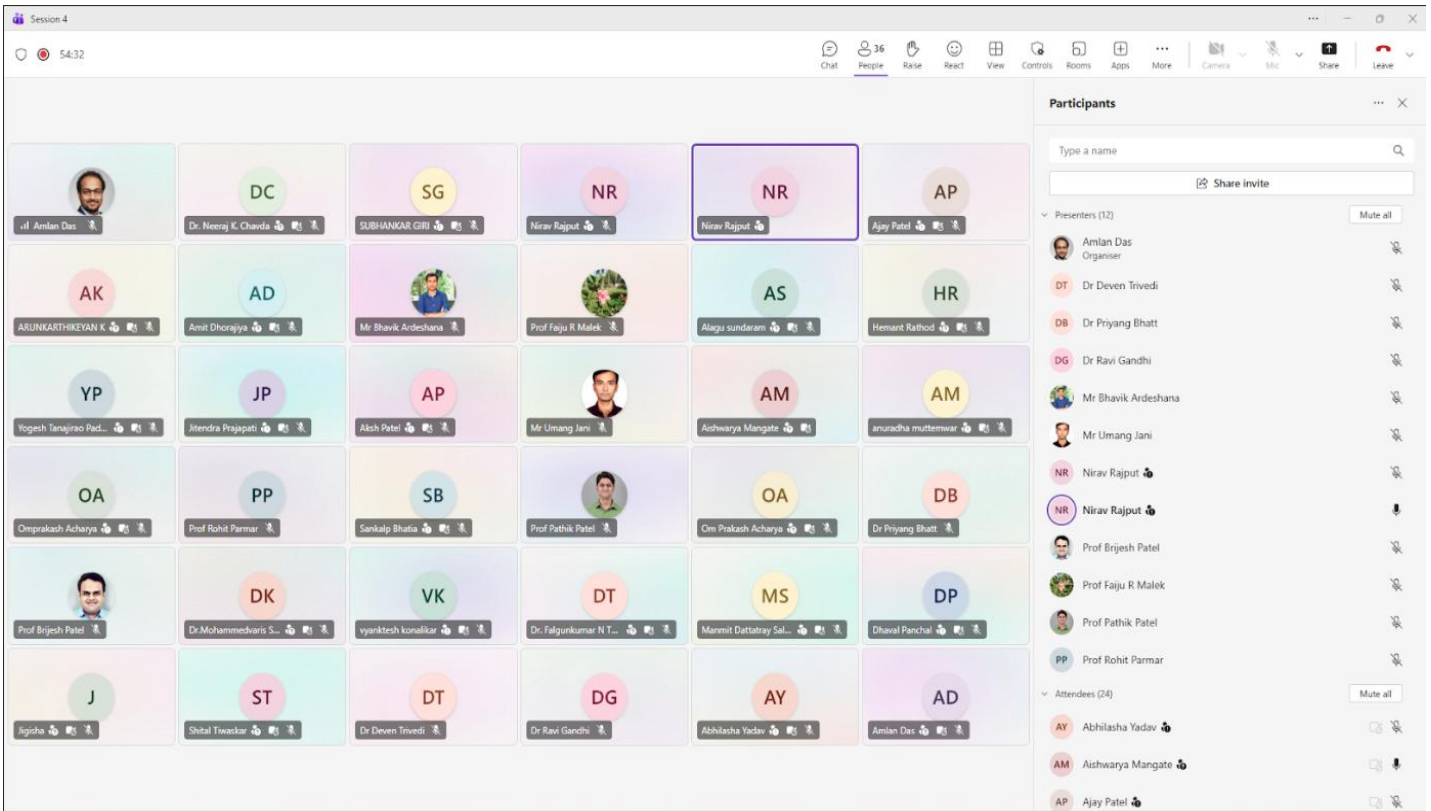


Fig.3 Online Participation via MS Teams

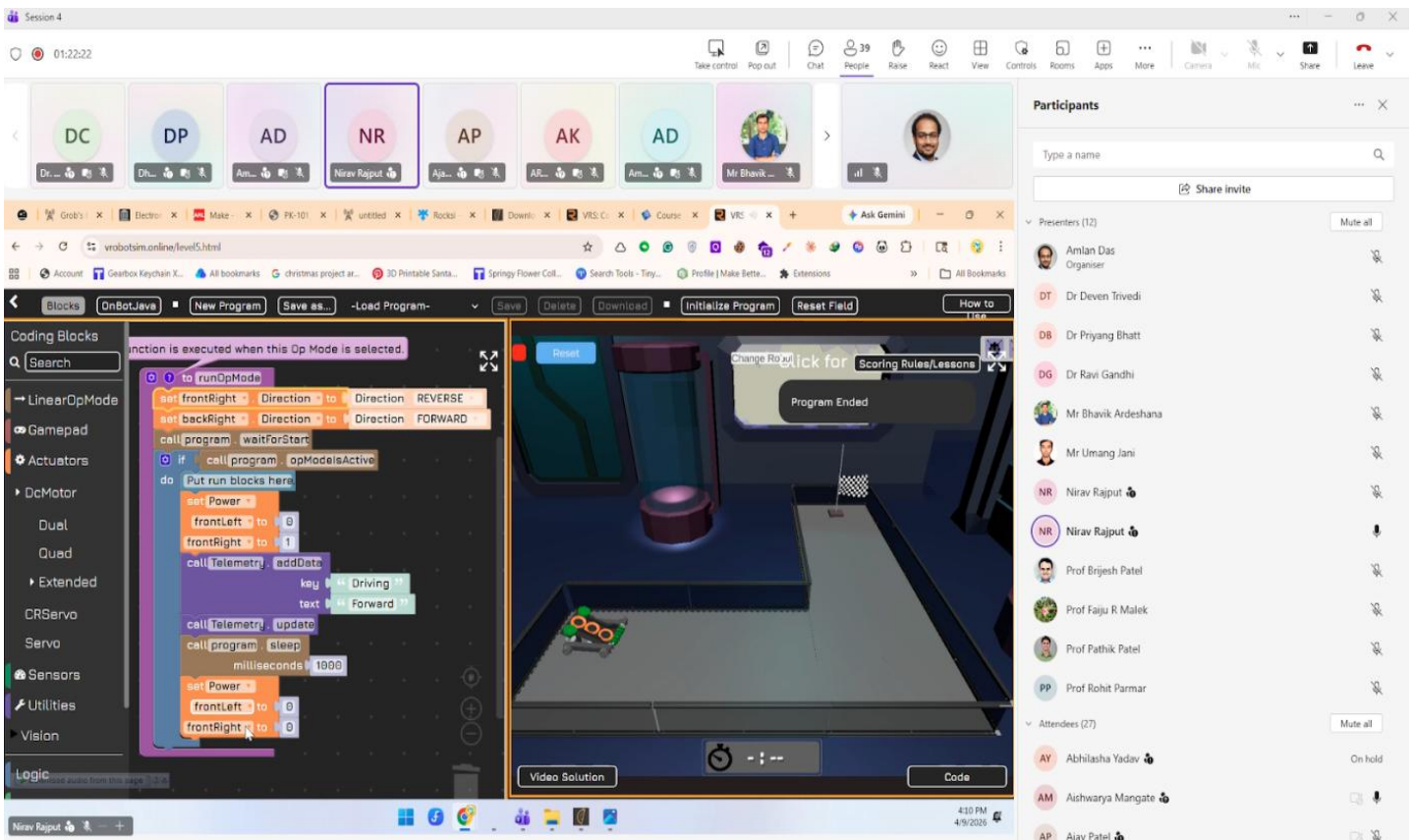


Fig.4 Robot Programming during Online Session