

**AICTE Training and Learning (ATAL) Academy
Online Faculty Development Program (FDP)**

On

**‘Practice Managers for Industry 4.0’
(26th August 2021 – 30th August 2021)**



IIM SIRMAUR
KNOWLEDGE . LEADERSHIP

**Organized by
Indian Institute of Management
Sirmaur**



The global manufacturing sector was familiarized with the various industrial revolution. Currently in the fourth industrial revolution phase, were blended with high technological production strategies and intelligent decision support systems. The principle of Industry 4.0, unlike the traditionally hierarchical and centralized manufacturing system, exhibits a decentralized architecture in which autonomous industrial things connect. These autonomous things interact among themselves with a connected decision support system (DSS) to self-diagnose and self-responses in the overall manufacturing scenario. The technologies that are incorporated for the decision-making are the Internet of Technology (IoT), Cloud Computing, and Big Data. The overall framework of these technologies is connected under a common platform called Cyber-Physical System (CPS). Cyber-physical system (CPS) is a backbone of Industry 4.0, where the physical world and virtual space are linked for a live communication environment of the shop floor. CPS provides a live virtual copy of industrial things. The robust analytical decision-making system represents the real data captured from the various sensor devices attached to industrial things. This programme will discuss the ecosystem of the Industry 4.0 framework and explore the disruptive

management practices of Industry 4.0 with various opportunities and challenges for the leading leaders.

OBJECTIVES

1. Provides the opportunities to the participant to explore the management practices and various challenges, solutions and opportunities observed by practice leaders in Industry 4.0.
2. To understand the major requirements, technological adoption, and implementation issues in the context of Industry 4.0.
3. This programme benefits the Academician, Practitioners, Research organization, Students, and the Start-ups to understand the exact expectations of practitioners in smart manufacturing.
4. To enhance the managerial skills of the participants to prepare them to shoulder higher responsibilities in the context of Industry 4.0

TOPICS TO BE COVERED

1. Industry 4.0: Background and Overview
2. Knowledge and Skills of Employees and

Managerial Staff for the Industry 4.0
Implementation

3. Adoption Patterns of Industry 4.0
Technologies in Indian Perspective
4. Smart Manufacturing and its Benefits and
Requirements
5. Smart Supply Chain Management
6. Logistics and Transportation

TARGETED PARTICIPANTS

1. Academicians
2. Practitioners
3. Start-ups, SMEs and Industrialist
4. Research Scholars
5. Masters and Graduates level students

Note: There is no registration fee for this FDP.

For FDP registration, please visit
<https://atalacademy.aicte-india.org/signup>

RESOURCE PERSON

Domain-Specific Industry Experts and Faculty members from various reputed institutions are the primary resource persons for conducting the sessions.

ABOUT THE INSTITUTE

IIM Sirmaur is situated in the verdant surroundings of Himalayas (located in Paonta Sahib and nearby to Dehradun). IIM Sirmaur provides an ideal setting to educate and train the best minds of the country, away from the hustle and bustle of metropolitan cities. IIM Sirmaur is one of the 3rd generation IIMs set up by MHRD, Govt. of India. Paonta Sahib is among the major industrial towns of Himachal Pradesh.

The town is an important religious place for the Sikhs, and it attracts pilgrims from around the world. The campus is equipped with modern facilities and latest technology to provide an excellent learning environment for the students. The institute has state-of-the-art classrooms equipped with overhead projectors and modern furniture, fully equipped conference rooms with video-conferencing facility, a 24x7 library and a computer lab with latest configuration machines as well as access to various software and databases.

PATRON

Prof. (Dr.) Neelu Rohmetra
Director, IIM Sirmaur

FDP COORDINATOR

Dr. M. Pachayappan (Coordinator)
Assistant Professor
Operations and Supply Chain
Management
Indian Institute of Management Sirmaur
Rampur Ghat Road, Kunja Matralion Paonta
Sahib – 173025
Email: pachayappan@iimsirmaur.ac.in

SESSION SCHEDULE

Date and Year	Forenoon		Afternoon
	Session 1 (9:00 AM to 11:00 AM)	Session 2 (11:30 AM to 1:30 PM)	Session 3 (2:30 PM to 4: 30 PM)
August 26, 2021	Introduction and Background	Industry 4.0: Concepts, Technologies, and Challenges from an Indian perspective	
August 27, 2021	Knowledge and Skills of Employees and Managerial Staff for the Industry 4.0 Implementation		
August 28, 2021	Smart Manufacturing and Industrial Application		Smart Supply Chain
August 29, 2021	Logistics and Transportation in Industry 4.0		
August 30, 2021	Compulsory Session	Assessment, Feedback, and Valediction	