



## Five Days Online FACULTY DEVELOPMENT PROGRAMME on

# INDUSTRY 4.0: READINESS, SKILLS AND FUTURE DIRECTIONS

September 22 - 26, 2025

Organized by

Department of Information Technology  
MCKV Institute of Engineering

### OBJECTIVE

The objective of organizing a Faculty Development Program (FDP) on **Industry 4.0** is to equip academicians with contemporary knowledge, tools, and practices that align with the rapidly evolving industrial landscape. The FDP aims to bridge the gap between academic learning and industry requirements by familiarizing faculty members with emerging technologies such as Artificial Intelligence, Internet of Things (IoT), Big Data Analytics, Cyber-Physical Systems, Robotics, Cloud Computing, and Smart Manufacturing. By engaging in expert-led sessions, hands-on demonstrations, and collaborative discussions, participants are expected to gain deeper insights into how these technologies reshape business models, production systems, and workforce skills.

### OUTCOME

The expected outcome of this FDP is the development of a future-ready academic community capable of integrating Industry 4.0 concepts into curriculum design, research, and innovation practices. Faculty members will be better positioned to guide students in applying theoretical knowledge to real-world challenges, fostering an ecosystem of problem-solving, entrepreneurship, and industry collaboration. Ultimately, this initiative will strengthen academia-industry linkages, enhance employability skills of students, and contribute to building a workforce aligned with the vision of a digitally empowered and technologically advanced economy.

### LIST OF SESSIONS

#### Day1:

**Session 1:** Speaker – Mr. Subhendu De  
Principal Software Engineer, Azure Reliability,  
Microsoft India.

**Topic:** Site Reliability with AI.

**Session2:** Assignment

#### Day2:

**Session1:** Speaker - Mr. Sushanta Sinha  
Enterprise Agile Coach, Industry Expert Session

**Topic:** Agility and Mindset of Abundance.

**Session2:** Assignment

#### Day 3:

**Session1:** Speaker - Dr. Tirthankar Dasgupta  
Senior Scientist, TCS Research

**Topic:** Multimodal Knowledge Acquisition and Reasoning for Enterprise Intelligence.

**Session2:** Assignment

#### Day 4:

**Session1:** Speaker - Mr. Sourav Bhattacharyya  
Principal Architect Technology, Cognizant

**Topic:** Join your AI Colleagues: Architecting the Autonomous Businesses of Tomorrow.

**Session2:** Assignment

#### Day 5:

**Session1:** Speaker - Mr. Monoj Saha  
Solution Architect, Accenture

**Topic:** The Coming Wave: AI, Agents and Autonomous Systems.

**Session2:** Valedictory and Vote of Thanks & Online Examination

### INSTITUTE DETAILS

MCKV Institute of Engineering is one of the top engineering colleges in West Bengal. It was established more than two decades ago, in 1999, with a vision to foster the spirit of technological learning and its application. Since its very first year of birth, the institution has been creating the right kind of opportunities and ambience for educating young minds in the digital era. MCKV Institute of Engineering has been accredited by NAAC with an 'A'-Grade, and is currently an autonomous Engineering college affiliated to Maulana Abul Kalam Azad University of Technology, in West Bengal. The institution has been approved by the All India Council for Technical Education (AICTE). It offers core and applied engineering programmes in Mechanical Engineering, Electrical Engineering, Computer Science & Engineering, Electronics and Communication Engineering, Information Technology and last but not the least, in the very niche stream of Automobile Engineering.

Apart from the B.Tech courses, an M.Tech course in Electronics and Communication Engineering (with specialization in Communication) has been offered for last ten years to encourage students in higher studies. Gaining confidence from its illustrious track record, and with the support of the freedom offered through the autonomous status, MCKVIE has recently launched three new B.Tech courses in CSE (Data Science), and CSE (AI&ML), along with a PG course in the field of Management (MBA, with 4 different specializations). The curricula of all these courses have been designed to accommodate the trending needs of the industries.

## ABOUT THE DEPARTMENT

Information Technology is a branch of study that has emerged over a little more than the last two decades. While the term “Computer Science” is usually reserved for the more theoretical, academic aspects of computing, the term “Information Technology” encompasses more of the applications dealing with real-life human activities and non-computerized business processes like knowledge management. Keeping, precisely, the above important aspects of computer science and communication technology tied together in the curriculum, the department of Information Technology was introduced in 1999, at the same time of the inception of MCKVIE. Enriched with highly qualified Faculty members and equipped with state-of-the-art computer labs the Department has been producing highly trained and competent software engineers who have already proved their quality and worth in the job market, education and even in research work.

## DETAIL OF SESSIONS

- Feature Mining on Computational Biology
- Agility and Mindset of Abundance
- Industry 4.0: Future Directions
- Join your AI Colleagues: Architecting the Autonomous Businesses of Tomorrow.
- The Coming Wave: AI, Agents and Autonomous Systems.

## PARTICIPATION

Participants must be faculty members of different Colleges and Universities.

## RESOURCE PERSONS

The resource persons for the FDP are from reputed MNCs / Industries.

## REGISTRATION FEE AND TIME

No registration will be charged from any participant. fees FDP timings are from 10:00 AM to 4:00 PM on Day – 1 and from 10:30 AM to 4:00 PM on remaining 4 days. Please register yourself latest by **19<sup>th</sup> September, 2025**. The **Registration Link** and **QR Code** are given below for registration:

<https://forms.gle/A6neBU4DcVWk34cD7>



## ADVISORY COMMITTEE

- Mr. Kishan Kr. Kejriwal  
Chairman, MCKV Group
- Mr. Abhay Kejriwal  
Trustee Member, MCKV Group
- Prof. (Dr.) Partha Sarathi Chakraborty  
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- Prof. (Dr.) Satadal Saha  
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## DETAILS OF THE COORDINATORS

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[Recognized by NAAC under the UGC Act, 1956, "A"  
Grade Autonomous Institution, Approved by AICTE and  
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