



**AICTE TRAINING AND LEARNING  
(ATAL)**

**SPONSORED**

**6-DAY**

**ONLINE FACULTY  
DEVELOPMENT PROGRAM**

**ON**

**AI IN PRECISION  
AGRICULTURE AND SMART  
HEALTHCARE FOR  
SOCIETY 5.0**

**ATAL FDP ID # 1730699551**

**3<sup>rd</sup> February, 2025 – 08<sup>th</sup> February 2025**

**Organized By**  
MAULANA ABUL KALAM AZAD  
UNIVERSITY OF TECHNOLOGY,  
WEST BENGAL



**Department of Computer Science & Engineering  
And**

**Department of Computer Applications**

**Maulana Abul Kalam Azad  
University of Technology,  
West Bengal**

NH. 12, Haringhata, 741249  
Nadia, West Bengal, India

## About the FDP

Society 5.0 integrates digital technologies like IoT, AI, and robotics to improve healthcare accessibility and quality, promote smart farming with precision agriculture and autonomous machinery, and support sustainable development goals. This six-day Faculty Development Program (FDP) focuses on applying AI, Machine Learning, IoT, and Cloud Computing in Precision Agriculture and Smart Healthcare. Participants will explore intelligent models, tools, and case studies for efficient big data processing, disease prediction, and system privacy and security. Designed for educators and professionals, the FDP aims to advance research in emerging technologies for a Society 5.0-driven future.

## Target Participants

Faculty Members, Research Scholars, PG Students [AICTE Approved Institutions], Industry Professionals

**FREE REGISTRATION**

To Register, please visit  
<https://atalacademy.aicte-india.org/signup>

## About the Organizing Institute

Maulana Abul Kalam Azad University of Technology, West Bengal (MAKAUT, WB) is the nodal State Government University which provides affiliation to more than 200 Colleges spread throughout the state offering courses in Engineering & Technology, Pharmacy, Architecture, Management, Applied Sciences and various professional courses. The University is recognized under Section 2(F) and 12(B) of the UGC Act. The courses offered by the University are approved by the All India Council for Technical Education (AICTE) and UGC.



## Certificate

The certificate shall be issued by ATAL Academy to those participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test conducted.

## Program Committee

### Chief Patron:

Hon'ble Vice Chancellor, MAKAUT, WB

### Advisory board:

The Registrar, MAKAUT, WB

The Finance Officer, MAKAUT, WB

The Information Scientist, MAKAUT, WB

Director, SCSE, MAKAUT, WB

Director, SIS&T, MAKAUT, WB

Hod, Dept. of CSE, MAKAUT, WB

Hod, Dept. of CA, MAKAUT, WB

## Organizing Committee

Department of Computer Science & Engineering

Department of Computer Applications

## FDP Coordinator

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Department of Computer Science & Engineering.

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## FDP Co-coordinator

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## Resource Persons (Academia)



**Prof. Sankhayan Choudhury**,  
Calcutta University



**Prof. Sriyankar Acharyya**,  
MAKAUT, WB



**Dr. Sriparna Saha**,  
IIT Patna



**Dr. Sandip Chakraborty**, IIT  
Kharagpur



**Dr. Oishila Bandyopadhyay**,  
IIIT Kalyani



**Dr. Dipanwita Thakur**, University  
of Calabria, Italy



**Dr. Samit Kumar Ghosh**, Khalifa  
University, UAE

## Resource Persons (Industry)



**Dr. Anwasha Khasnobish**, TCS



**Mr. Nitish Kundu**,  
XTEN Networks



**Mr. Tuhin Mukherjee**,  
Cappgemini



**Mr. Arijit Joarder**,  
Excelinx



**Dr. Abhijit Kumar**,  
AIIMS Kalyani



**Dr. Arindam Pal**,  
OPTYM

# Program Schedule

03.02.2025	04.02.2025	05.02.2025	06.02.2025	07.02.2025	08.02.2025
<p><u>6:00PM to 6:30PM</u> <b>Inaugural Session</b></p> <p>Welcome address by Chief Patron and Other Dignitaries Brief Overview of FDP by Coordinators</p>	<p><u>6:00PM to 7:30PM</u> <b>Session 3</b></p> <p>Topic: <b>Deep Learning and Explainable AI in disease Diagnosis</b> Name of the Expert: <b>Dr. Oishila Bandyopadhyay</b> Designation &amp; Organization: <b>Assistant Professor, Indian Institute of Information Technology Kalyani, India</b></p>	<p><u>6:00PM to 7:30PM</u> <b>Session 5</b></p> <p>Topic: <b>AI in Computational Genetics</b> Name of the Expert: <b>Prof (Dr.) Sriyankar Acharyya</b> Designation &amp; Organization: <b>Professor, Maulana Abul Kalam Azad University of Technology, WB., India</b></p>	<p><u>6:00PM to 7:30PM</u> <b>Session 7</b></p> <p>Topic: <b>Green Aware AI in Smart Healthcare</b> Name of the Expert: <b>Dr. Dipanwita Thakur</b> Designation &amp; Organization: <b>Assistant Professor, University of Calabria, Italy</b></p>	<p><u>6:00PM to 7:30PM</u> <b>Session 9</b></p> <p>Topic: <b>Role of Artificial Intelligence in Renal Healthcare</b> Name of the Expert: <b>Dr. Samit Kumar Ghosh</b> Designation &amp; Organization: <b>Post Doctoral Fellow, Khalifa University, United Arab Emirates</b></p>	<p><u>2:00PM to 3:30PM</u> <b>Session 11</b></p> <p>Topic: <b>An EcoSage Assistant: Towards Building a Multimodal Plant Care Dialogue Assistant</b> Name of the Expert: <b>Dr. Sriparna Saha</b> Designation &amp; Organization: <b>Associate Professor, Indian Institute of Technology Patna, India</b></p>
<p><u>6:30PM to 8:00PM</u> <b>Session 1</b></p> <p>Topic: <b>An issue in Precision Agriculture: Crop Yield Prediction</b> Name of the Expert: <b>Prof (Dr.) Sankhayan Choudhury</b> Designation &amp; Organization: <b>Professor, Calcutta University, India</b></p>	<p><u>7:30PM to 9:00PM</u> <b>Session 4</b></p> <p>Topic: <b>The Role of Security and Cyber Threat Mitigation in AI for Society 5.0</b> Name of the Expert: <b>Mr. Nitish Kundu</b> Designation &amp; Organization: <b>Director, XTEN Networks, SIIC IIT Kanpur</b></p>	<p><u>7:30PM to 9:00PM</u> <b>Session 6</b></p> <p>Topic: <b>Data Architecture and Analytics in Healthcare</b> Name of the Expert: <b>Mr. Tuhin Kumar Mukherjee</b> Designation &amp; Organization: <b>Senior Data Architect, Capgemini Technology Services India Pvt Ltd.</b></p>	<p><u>7:30PM to 9:00PM</u> <b>Session 8</b></p> <p>Topic: <b>Enterprise Architecture in Healthcare 5.0</b> Name of the Expert: <b>Mr. Arijit Joarder</b> Designation &amp; Organization: <b>Director, Excelinx</b></p>	<p><u>7:30PM to 9:00PM</u> <b>Session 10</b></p> <p>Topic: <b>Unobtrusive Smart Health Monitoring</b> Name of the Expert: <b>Dr. Anwesha Khasnobish</b> Designation &amp; Organization: <b>Scientist, TCS Research</b></p>	<p><u>3:30PM to 5:00PM</u> <b>Session 12</b></p> <p>Topic: <b>AI Algorithms for multi-robot task allocation</b> Name of the Expert: <b>Dr. Arindam Pal</b> Designation &amp; Organization: <b>Director of Data Science and Optimization, Optym, Sydney, New South Wales, Australia</b></p>