ABOUT THE FDP

The Faculty Development Programme (FDP) on "Computational Methods in IoT and Machine Learning for Advancing Communication Processes towards Sustainable Development" is designed to strengthen the connection between fundamental scientific understanding and advanced computational technologies. It focuses on how analytical thinking, logical reasoning, and quantitative methods — often forming the core of foundational courses in engineering — can be effectively applied to the evolving fields of IoT and Machine Learning. This programme emphasizes the application of computational methods for the development of intelligent and efficient communication processes, contributing directly to the vision of Sustainable Development. Participants will gain insights into how the theoretical concepts they teach, and research can be utilized to design, model, and optimize real-world systems that promote energy efficiency, smart connectivity, and technological sustainability. Through expert lectures, interactive sessions, and demonstrations, the FDP seeks to enhance pedagogical approaches, inspire interdisciplinary collaboration, and encourage faculty to integrate emerging technologies into their academic and research practices — thereby preparing future engineers and researchers to address the global challenges of sustainable technological advancement.

DURATION OF FDP

5 Days from 6th to 10th January 2026

REGISTRATION FEE:

100/- per participant

ABOUT THE INSTITUTE

Netaji Subhash Engineering College (NSEC), Kolkata, established in 1998, is a reputed self-financing institute committed to excellence in engineering and management education. Accredited by NAAC, with four NBA-accredited B.Tech programs, NSEC offers advanced computing facilities, a rich digital library, experienced faculty, and strong industry linkage. The institute hosts an NPTEL local chapter, Innovation Council, and Business Incubation Centre, fostering a culture of research, innovation, and entrepreneurship.

ABOUT THE BESH DEPARTMENT

The Department of Basic Engineering Sciences and Humanities offers core courses in Mathematics, Physics, Chemistry, English, Statistics, Biology, Environmental Science, and Political Science. It plays a crucial role in delivering essential scientific knowledge and communication skills to engineering students, promoting their academic and personal growth. Emphasizing value-based education, the department strengthens students' understanding of basic sciences for interdisciplinary applications in technology and engineering. It is equipped with five well-equipped laboratories—Chemistry, Physics, Environmental Science, and two Language Labs. With a team of dedicated and experienced faculty, the department fosters research and innovation in emerging fields such as supercomputing, AI, and data science.

IEEE
KOLKATA SECTION

TECHNO INDIA GROUP
A Satyam Roychowdhury initiative

A FIVE-DAY FDP (HYBRID MODE)
on

"Computational Methods in IoT and Machine Learning for Advancing Communication Processes towards Sustainable Development"

6th to 10th January 2026

with Technical Co-Sponsorship from IEEE, Kolkata Section

Organized by:

Department of Basic Engineering Sciences and Humanities

Netaji Subhash Engineering College

Techno City, Garia,
West Bengal 700152, India

*NBA (Programmes) & NAAC Accredited

Approved by AICTE New Delhi, Affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal.

https://www.nsec.ac.in/

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PATRON

Prof. Suman Chatterjee
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ADVISORY COMMITTEE

Prof.(Dr.) Amal K. Ghosh, Principal, NSEC
Prof. S. Roy, Dean-Academic Affairs, NSEC

TECHNICAL ADVISOR

Dr. Tridibesh Nag,
Vice Chair, MDC, IEEE India Council

INSTRUCTIONS FOR PARTICIPANTS

➢ The faculty members of the AICTE & UGC approved institutions, research scholars, participants from Government, Industry Professionals and staff of host institution.

➢ Mode of Conduct:

The FDP will be conducted in hybrid mode.
- Day 1 (6th January) and Day 5 (10th January) will have offline sessions, along with an option to join online (subject to seat availability).
- Days 2, 3, and 4 (7th–9th January) will be conducted entirely online for all participants.

➢ To Know Visit:

https://drive.google.com/file/d/1CvbROlpmWGTvFcOuWl4EKBMX6KYteikT/view?usp=drive_link

➢ Proposed Schedule At:

https://drive.google.com/file/d/1cgw_if7Z4wh3-6bBwOEtEEuNkwrvyJ0P/view?usp=drive_link

CERTIFICATION

- A test shall be conducted (online) by coordinator at the end of the program. Participants must attempt and submit the Google Form for evaluation.
- A minimum score of 50% in the evaluation is required to qualify for the Programme Completion Certificate under Technical Co-Sponsorship from IEEE.
- A minimum of 80% attendance throughout the FDP is mandatory for receiving the certificate of completion.
- All participants must submit online feedback for each session.
- Failure to meet the attendance or evaluation criteria will lead to denial of the certificate of completion.

CONVENER & CO-CONVENER

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Dr. Souvik Sengupta
Associate Professor
Dept. CSE; Aliah University

Dr Rajdeep Chakraborty
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Mr. Tuhin Kumar Mukherjee
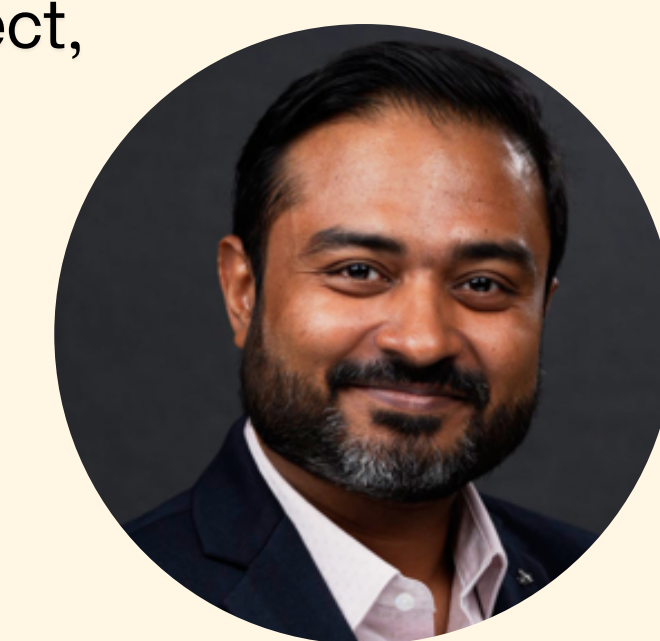Senior Data Architect,
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Co-Founder &
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