

Title: 5-Day Faculty Development Program (FDP) – "AEROSYNC 2026: Exploring IoT and Drone Technologies in Real-World Applications"

Venue: C.V. Raman Auditorium, Room No. 122 & 121

Date: 03/08/2026 – 07/08/2026

Time: 10:00 a.m. – 01:00 p.m. (Morning Session) & 02:00 p.m. – 05:00 p.m. (Afternoon Session)

Resource Persons:

1. Prof. (Dr.) Debashis De, Professor, Department of Computer Science & Engineering, MAKAUT
2. Prof. (Dr.) Sriyankar Acharyya, Professor, Department of Computer Science & Engineering, MAKAUT
3. Prof. (Dr.) Ankush Ghosh, Adjunct Professor, Department of Electronics & Communication Engineering, SurTech
4. Mr. Sourabh Kumar, Founder & CEO, Livid Design Inc.
5. Mr. Shouvik Bhunia, Assistant Manager & Operation Head, Drone Tech Lab

Organized by:

1. Department of Electrical Engineering,
2. Computer Science Engineering & Allied Departments,
3. Electronics & Communication Engineering,
4. AICTE Sponsored Idea Lab, SurTech,
5. IQAC, SurTech
6. IIC, SurTech

Coordinated by:

1. Dr. Sayantan Chakraborty, HoD, Electrical Engineering
2. Dr. Amrut Ranjan Jena, HoD, Computer Science & Engineering
3. Dr. Anirban Neogi, HoD, Electronics & Communication Engineering; Convener, IQAC
4. Ms. Madhusmita Mishra, HoD, CSE (AI & ML)

Supported by:

1. Dr. Arindam Sadhu, Assistant Professor, Electronics & Communication Engineering; In-Charge, Idea Lab; Convener, IIC; Convener, R&D Cell
2. Mr. Suvendu Mondal, Assistant Professor, Electrical Engineering

No of Participants: 56



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Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex

(Formerly Known as Dr. Sudhir Chandra Sur Degree Engineering College)

540, DumDum Road, Surer Math (Near Dum Dum Jn. Station), Kolkata-700074

Phone: +91 22 25603889, 25603898, 65330375

Website: www.surtech.edu.in; Email: info@dsec.ac.in

Objective: To provide participants with comprehensive knowledge and practical exposure to IoT-enabled and AI-driven drone technologies through an effective blend of theoretical sessions and hands-on laboratory activities. The FDP aimed to enhance participants' understanding of embedded systems, sensor integration, cloud connectivity, computer vision, autonomous operations, and technology commercialization while encouraging interdisciplinary research and innovation.

Brief overview of the event:

The Department of Electrical Engineering, Computer Science Engineering & Allied Departments, Electronics & Communication Engineering, in association with the AICTE Sponsored Idea Lab, organized a **Five-Day Faculty Development Program (FDP)** titled "**AEROSYNC 2026: Exploring IoT and Drone Technologies in Real-World Applications**" from **3rd August to 7th August 2026** at the SurTech Campus.

The FDP was designed to bridge the gap between emerging technologies and practical implementation by offering expert lectures, demonstrations, and extensive hands-on laboratory sessions. The inaugural sessions introduced participants to the evolution of IoT ecosystems, communication protocols, networking architectures, and hardware prototyping platforms.

Subsequent sessions focused on IoT hardware components, sensor interfacing, cloud-based application development, real-world IoT deployments, and integrated monitoring systems. Participants also explored aerial robotics, drone hardware, telemetry systems, flight controller integration, and live drone demonstrations conducted at the SurTech Ground.

The concluding sessions emphasized technology entrepreneurship, startup ecosystems, intellectual property rights, funded research opportunities, and commercialization of IoT and drone-based innovations. The FDP concluded with an interactive panel discussion, participant feedback session, certificate distribution, felicitation of the experts, and the valedictory ceremony.

Outcome: The FDP significantly enhanced participants' understanding of IoT, artificial intelligence, embedded systems, and drone technologies through a balanced combination of theoretical concepts and practical implementation. Participants acquired hands-on experience with ESP32, Raspberry Pi, IoT sensors, flight controllers, and drone platforms. The program also encouraged interdisciplinary collaboration, research orientation, innovation, entrepreneurship, and the development of real-world technology solutions aligned with Industry 4.0 requirements.

A few glimpses of the event:



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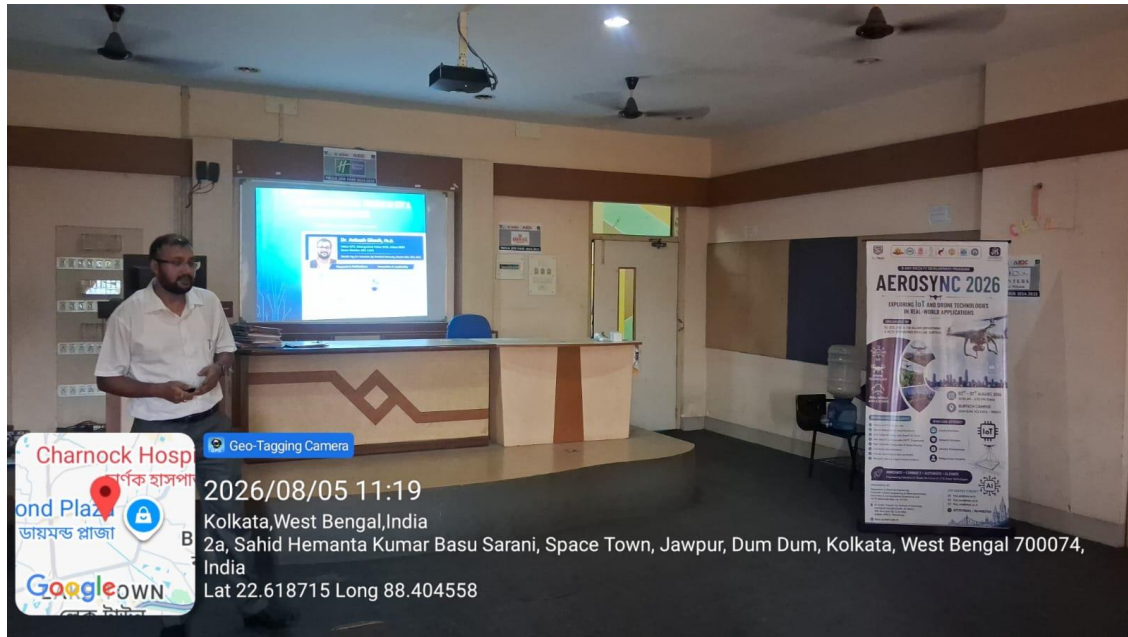
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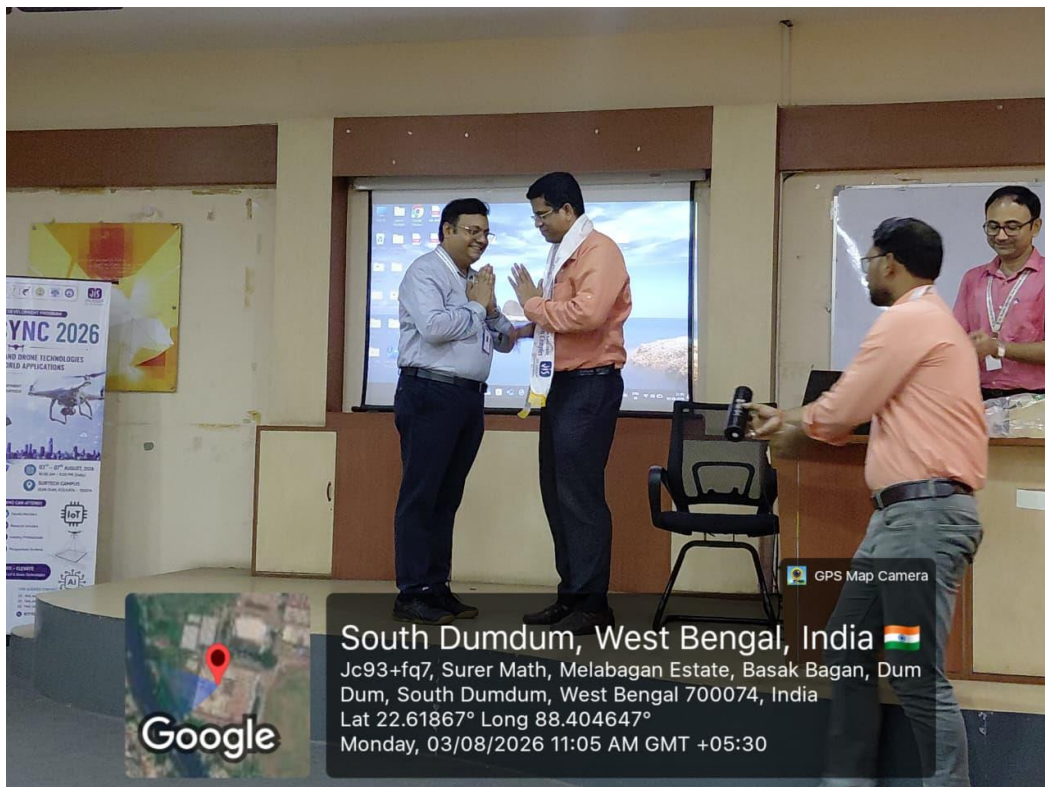
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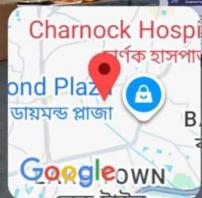


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 Geo-Tagging Camera

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South Dumdum, West Bengal, India

SPEEDYCURE HEALTHCARE 432,jessor road nursery, Seth Bagan Rd, Surer Math,
Melabagan Estate, Nagerbazar, Dum Dum, South Dumdum, West Bengal 700074, India
Lat 22.61869 Long 88.404592



GPS Map Camera

South Dumdum, West Bengal, India 🇮🇳

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Dum, South Dumdum, West Bengal 700074, India

Lat 22.61878° Long 88.404548°

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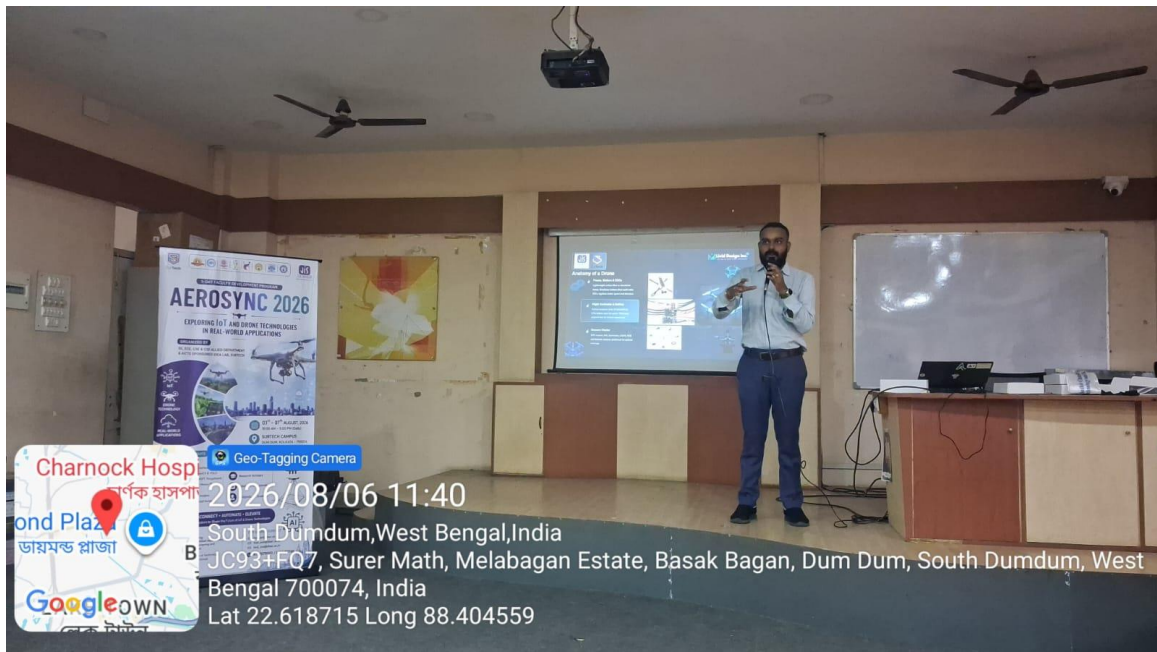
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