



**Indian Institute of Technology Patna
Department of Electrical Engineering**



SERB-Sponsored Two-Day Hybrid Workshop
On
**Recent Advances in Emitter Identification for
UAV/Drone Applications**
(December 10-11, 2023)

Sponsored By:

Science and Engineering Research Board (SERB)- SSR
Activity

Coordinator:

**Dr. Udit Satija, Assistant Professor,
Department of EE, IIT Patna**

Course Description:

Explore the cutting-edge field of emitter identification for Unmanned Aerial Vehicles (UAVs) and drones in this dynamic and comprehensive course. Designed for professionals and enthusiasts in the fields of aerospace, engineering, and technology, this course delves into the latest advancements in path planning, identification techniques, design considerations, energy harvesting, and communication strategies specific to UAV applications. This course combines theoretical insights with practical applications, providing participants with the knowledge and skills needed to navigate the rapidly evolving landscape of UAV technology.

Course Objectives:

The course content is designed for participants to motivate them to learn about advances in drone technology, and recent deep learning and signal processing techniques for emitter identification, drone design, path planning, energy harvesting, drone identification and classification. The course will uncover following contents:

- ❖ Specific emitter identification techniques
- ❖ Drone design and programming
- ❖ Drone path planning
- ❖ Energy harvesting in drone communication
- ❖ Drone detection and classification techniques
- ❖ Miscellaneous topics in drone technology

Target Audience:

The course is suitable for Ph.D. students, faculty members in colleges and universities, Scientists in R&D organizations and technical professionals interested in this domain.

Resource Persons:

- Dr. Barathram Ramkumar, Associate Professor, School of Electrical Sciences, IIT Bhubaneswar
- Dr. Sumit Gautam, Assistant Professor, IIT Indore
- Dr. Udit Satija, Assistant Professor, IIT Patna
- Shri Saket Kumar Jha, Scientist-D/Principal Technical Officer, CDAC Patna

Seats: 25. Preference will be given to offline participants

Important Dates:

Course dates: December 10-11, 2023

Last date of Registration : 08th December 2023

Confirmation and Invitation link : 09th December 2023

Registration:

Registration is completely FREE.

Registration Link:

<https://forms.gle/Max6PkHsARas2ypLA>

Accommodation and food:

Accommodation and food charges have to be borne by the participants only if they physically attending the workshop. Accommodation will be available in campus based on the availability.

For any query please contact:

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