



इलेक्ट्रॉनिकी एवं  
सूचना प्रौद्योगिकी मंत्रालय  
MINISTRY OF  
ELECTRONICS AND  
INFORMATION TECHNOLOGY

सत्यमेव जयते



## 5-Day bootcamp on

## Advances in Design-Optimization of Drone systems

(19<sup>th</sup>-23<sup>rd</sup> October 2024)



### About the program

Aeromechanics Lab, NIT Rourkela will be organizing five-day workshop (Bootcamp) on "Advances in Design-optimization of Drone systems" for the benefit of Research Scholars & PG, UG students as well as Diploma students under the "Capacity Building for Human Resource Development in Drone and Related Technology" project by MeitY. During this event, there will be theory and practical sessions and expert lectures will be delivered. Every batch contains only 30 participants. The lab acquired some cutting edge equipment for demonstrations. Mechanical & electronics design with aerodynamic principles is the target.

### Main Topics of focus

- Introduction to Aeromechanics of Drones and optimization issues
- Advanced optimization systems for Indoor Drone Applications
- Machine learning-based Optimization for UAV design
- Thrust and torque optimization for drone Applications
- Practical on Matlab optimization toolbox, hands-on drone flying etc.

### Registration

All interested participants are requested to register for this event through the following link: <http://surl.li/mgikgl> There is no registration fee. The participants will be given training certificate at the end of program. Outstation participants can add requirement for the accommodation (if required) in the campus in registration form. It is on nominal payment basis.

### Organizing team

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**Training Location / Address:**

**Aeromechanics Lab, ME, NIT Rourkela, Department of Mechanical Engineering**



**LAST DATE**  
**14<sup>TH</sup> October 2024**