

About the Program

NIT Rourkela is going to organize a training program related to capacity building for human resource development in unmanned aircraft systems in India under a project funded by MeitY.

Contents

- AI / ML for path planning of drones.
- Image processing for motion control of drone system.
- Fabrication techniques and testing.
- Integration and working of sensors used in drone systems.

Session Delivery

- Sessions will be taken by NIT Rourkela faculty and eminent researchers in the field.
- For this inter-disciplinary event, all faculty members, working professionals, industrial staff/final and pre-final year students and research scholars interested in this technology can apply.
- Certificates will be issued after completion of the event.

Registration

All students: Rs.1500/-, Others: Rs.2000/-

Registration includes bachelor accommodation on sharing basis at institute guest houses/student hostels along with lecture notes & refreshments. All interested should apply through the following google form well before 25th Aug. 2023

<https://forms.gle/tmfqYccUoyjoBuWc9>

All the fee is to be paid on **CONTINUING education, NIT Rourkela**, Bank account: **36734418111**, payable at SBI, NIT Campus, IFSC: SBIN0002109.

Objectives of the event

Today drones and unmanned aerial vehicles are widely used in several applications. The motion control techniques of drones play a vital role to properly execute its action. This bootcamp gives awareness of the implementation of various AI/ML techniques for the motion control of drones for their better performance. There will be several laboratory sessions on Programming, Interfacing and Fabrication of the components during this program. This 5-day workshop is helpful for academicians, industrial experts, students and interested professionals in this area. Eminent speakers from premier institutions and industries will deliver the lectures on the advanced topics on Motion Control of Unmanned Aerial Systems.

NIT Rourkela is organizing several such events and this 5-day workshop with planned sessions would help the participants in improving their computational and fabrication/testing skills in on-going technology.

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MINISTRY OF
ELECTRONICS AND
INFORMATION TECHNOLOGY



Boot-camp on

**Applied Artificial Intelligence
for Motion Control of
Unmanned Aerial Systems**

(02-06th September 2023)

Organized jointly by

Department of Industrial Design

&

Department of Mechanical Engineering

National Institute of Technology

Rourkela, Odisha-769008