



इलेक्ट्रॉनिक्स एवं
सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND
INFORMATION TECHNOLOGY



Five-Day Bootcamp on “Aeromechanics and Surveillance Applications of Unmanned Aerial Systems”



Nov 02nd to 06th 2026

Learn | Build | Test | Innovate | Fly



Funded by
Ministry of Electronics &
Information Technology (MeitY)



Under The Project
Capacity Building for Human Resources in
Unmanned Aircraft System (Drone & Related Technology)



Organized By
Department of Mechanical Engineering
NIT Rourkela



In association with
Parala Maharaja Engineering College,
Berhampur, Odisha



BOOTCAMP CONTENTS



Drone Design and Assembly:
Selection and integration of drone components, frame assembly, propulsion systems, power distribution, and payload installation.



Flight Controller Configuration and Sensor Calibration:
Hands-on training on configuring flight controllers, calibrating IMU, GPS, compass, ESCs, and radio communication systems.



Drone Automation and Autonomous Mission Planning:
Programming autonomous flight missions, waypoint navigation, return-to-home functions, and fail-safe mechanisms using ground control software.



Testing, Performance Evaluation, and Troubleshooting:
Pre-flight inspections, system diagnostics, flight testing, performance optimization, and troubleshooting of hardware and software issues.



Applications of Intelligent Drone Systems:
AI-enabled drone automation, computer vision integration, precision agriculture, infrastructure inspection, surveillance, mapping, and other emerging UAV applications.



WHO CAN APPLY?

Students of B.Tech (All Branches) / M.Tech / MCA / Diploma / Research Scholars / Faculty Members and Working Professionals with interest in Drones and Unmanned Aerial Systems.



VENUE

Parala Maharaja
Engineering College,
Berhampur, Odisha



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Drones for a Safer, Smarter and Sustainable Tomorrow



Innovate | Collaborate | Create | Elevate