

Dr. B.R. Ambedkar, National Institute of Technology Jalandhar, Punjab-144011

FIVE DAYS WEEKENDS (DECEMBER 18-22, 2023) BOOTCAMP ON EXPLORING DRONES: APPLICATIONS AND SECURITY MEASURES

UNDER THE PROJECT "CAPACITY BUILDING FOR HUMAN RESOURCES IN UNMANNED AIRCRAFT SYSTEM (DRONE & RELATED TECHNOLOGY)" SUPPORTED BY THE MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY

About Bootcamp

The aim of the Bootcamp is to provide participants with a comprehensive understanding of the evolving landscape of unmanned aerial vehicles (UAVs) in both their practical applications and the critical aspect of security. Through a combination of theoretical knowledge and hands-on exercises, participants will be equipped with the skills necessary to harness the potential of UAVs for various tasks and safeguard against potential security threats and challenges in this rapidly advancing field. The objectives of bootcamps are as follows:

- Gain a comprehensive understanding of UAV technologies, from foundational theories to advanced applications.
- Explore real-world use cases across industries, from agriculture to surveillance and beyond.
- Dive into the crucial aspect of UAV security, ensuring safe and responsible operation.
- Hands-on experience with UAV operation, flight planning, and simulation.
- Network with fellow enthusiasts and industry experts, fostering valuable connections.

Bootcamp Contents

Patron

Kanaujia

Prof. Binod Kumar

(Director NITJ)

- Principles of UAV Flight: Aerodynamics, Propulsion, and Control
- UAV Components, Systems Overview, and Applications
- UAV Flight Planning and Operation
- Advanced UAV Concepts, Emerging Trends and Innovation
- Security challenges of UAVs
- Swarm Intelligence and Collaborative UAVs
- AI and Machine Learning in UAVs

Co-ordinators

- Prof. Arun Khosla
- Dr. H. Chore
- Dr. O. P. Verma

Who Can Attend?

• Studying in 1st year/ Second semester onwards of B.E. / B.Tech./ equivalent (or)

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- Pursuing B.Sc. / BCA / equivalent (or)
- Studying in Postgraduate- M.E. / M.Tech. / M.Sc. / MCA / equivalent (or)
- PhD Research scholars from the relevant stream (or)
- Faculty / Working Professionals / Staff from Industry / Govt. organization (with above educational qualification)

Resourse Persons

• Experts from academia and industry in Unmanned Aerial Vehicles & related technologies

Registration

 Registration Fee Rs 250/- (Excluding GST) for external Participants Rs. 250/- for internal participants (Limited seats available)

Bootcamp Registration Link

https://www.nitj.ac.in/events_registration/

bootcamp2023/login

or

(Scan QR-Code to Register)

"Hands-On Sessions" Limited Seats Available



Contact Details

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