



JNTU UCES
HYDERABAD
GATEWAY TO EXCELLENCE



**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of Education Initiative)



JTBI
JNTU Technology
Business Incubator



**Ministry of
Education**
Government of India



AICTE
All India Council of Technical Education



**MoE's
INNOVATION CELL**
(GOVERNMENT OF INDIA)

JNTU UNIVERSITY COLLEGE OF ENGINEERING SULTANPUR

(Constituent College of JNTU Hyderabad)

Sultanpur (V), Choutkur (M), Sangareddy (D) – 502 273, Telangana

Organized by
IIC JNTU UCES & JTBI

DroneXplore

Fundamentals, Simulation and Autonomous UAV Systems

A 2-DAY HANDS-ON WORKSHOP

 Learn from Experts

 Hands-on Simulation

 Autonomous Navigation

 Real-flight Experience

 Industry Insights

DAY-1

SESSION-1

10:00 AM – 1:00 PM



Advances in UAV Technology: Fundamentals, Applications, and Industry Landscape

- ✓ Flight mechanics & fundamentals of flight
- ✓ Use cases and UAV Ecosystem
- ✓ Technology Trends: Anti-drone Systems & Drone Swarms

SESSION-2

2:00 PM – 5:00 PM

Hands-on Session with UAV Simulation

- ✓ Waypoint mission planning for UAVs
- ✓ Simulation of UAV flight mission



DAY-2

SESSION-1

10:00 AM – 1:00 PM



The Good, The Bad & The Optimal Positioning for Autonomous Navigation of UAVs

- ✓ Navigation, Guidance & Control Principles
- ✓ INS-GPS Integration
- ✓ Computer Vision and SLAM based techniques

 INS-GPS INTEGRATION

 COMPUTER VISION

 SLAM MAPPING

SESSION-2

2:00 PM – 5:00 PM

Hands-on Real-flight Experience with Multi-rotor UAV



-  Safety First
-  Expert Guidance
-  Real-world Experience
-  E-Certificate for all Participants

DATES
5th & 6th
August 2026

VENUE
JNTU UCES,
Sultanpur

E-CERTIFICATE
for all Participants

EXPLORE. LEARN. SIMULATE. FLY. INNOVATE.

Be a part of the future of Autonomous UAV Systems!

Registration Link

<https://forms.gle/Pfb2PtXve8JBWmxKA>