

5th Edition

AeroTHON 2025

Theme: Surveillance and Disaster Management**Jun 14, 2025 (Phase1)****Nov 14-15, 2025 (Phase2)**

PDP Series Topic List - AeroTHON 2025

S.No	PDP Topics
1	History and evolution of Drones/Unmanned Aircraft Systems
2	Drones/Unmanned Aircraft Systems Components and Systems
3	Drones/Unmanned Aircraft Systems Design Principles & Preliminary Design Calculations
4	Drones/Unmanned Aircraft Systems Development Cycle, Actuators for Drone Payload Release Mechanisms
5	Drones/Unmanned Aircraft Systems Structural Analysis
6	Drones/Unmanned Aircraft Systems CFD Analysis
7	Flight Dynamics & Control: Theory, Design, and Implementation
8	Unmanned Aircraft Systems: Hardware and Software Simulation Techniques
9	Drone Safety and Regulations
10	Drone Flying Techniques
11	Drone-Based Computer Vision, AI & Machine Learning, and Deep Learning Techniques
12	Drone Applications using NVIDIA Jetson, Raspberry Pi, and other platforms
13	Controller Selection or Design
14	Project Management
15	Drones/Unmanned Aircraft Systems Engineering & Integration
16	Workshop on Structural Analysis of Drones using ANSYS MECHANICAL
17	Workshop Aerodynamic Analysis of Drones using ANSYS FLUENT