

do drones.

09 - 13 DEC
2025

do drones 2025.

Do Drones 2025, hosted by the Indian Institute of Science is a 5-day immersive workshop that takes participants from first principles to first flight.

Blending theory with guided practice, it builds proficiency in UAV Engineering, leading into multirotor and fixed-wing assembly, calibration, and testing.

The workshop culminates with expert sessions on BVLOS, AAM, UTM, and standardization, bridging technical learning with real-world UAV operations.

Designed and led by the Department of Aerospace Engineering's UAV Laboratory, this exclusive program offers a career-ready bridge from fundamentals to flight—with **limited seats** for a elite mentor-guided experience.

course coordinator.

Dr S N Omkar

Chairperson, Drone Standardisation committee (BIS)
Founder Treasurer, Automatic Control and Dynamic Optimization Society
Chief Research Scientist
Department of Aerospace Engineering
Indian Institute of Science, Bengaluru

Dr Omkar leads ground-breaking research in UAVs, autonomous navigation, satellite image analysis, and nature-inspired optimization.

Under Dr Omkar's direction, the UAV Laboratory pioneers practical drone technologies and aerodynamics with product-oriented projects ranging from flight-ready builds to fielded systems forming the technical backbone for this workshop.

Aligned with IISc's national skilling mission through HAL-IISc Skill Development Centre, reinforcing industry-relevant training pathways.

workshop at a glance.

01 *Foundations of Flight*
Learn the fundamentals of aerodynamics, propulsion, and UAV architecture that make controlled flight possible.

Autonomous Systems
Explore autopilots, control loops, navigation, AI, ROS, and mission planning that demonstrate autonomous flight behavior.

03 *Build, Simulate and fly*
Engage in full multirotor assembly, fixed-wing build, simulator-based flight, and trainer-assisted flying, translating classroom theory into real flight readiness.

Flight Operations & Testing
Experience a full-scale flight operation with waypoint missions, and fixed-wing tests, showcasing real-world precision & flight discipline.

05 *Industry & Certification*
Gain exposure to BVLOS, AAM and UTM frameworks, connect with industry experts, and earn an IISc-endorsed certificate of completion.

02

04

key takeaways.

Foundational Mastery

Expert-led grounding in UAV aerodynamics, propulsion, navigation, and control.

Precision Build

Build a multirotor, assemble a fixed-wing, integrate a Pixhawk-class controller.

Calibrate, tune & fly

Calibrate sensors, set failsafes and tune your drone along with a supervised outdoor flight.

Industry Workflows

Train on the tools used in labs & industry followed by professional logging.

Recognized Certificate

Certificate issued by IISc UAV Lab, co-endorsed by HAL Skill Development Center & MeitY.

Career Momentum

Engage mentors and guest experts for research tie-ups, opportunities, internships, and roles.

designed for.

Open to UG/PG students, faculty, and working professionals from *any discipline*—no UAV background needed. Learn to build, tune, and fly with IISc mentors; just bring a laptop.

course fees.*

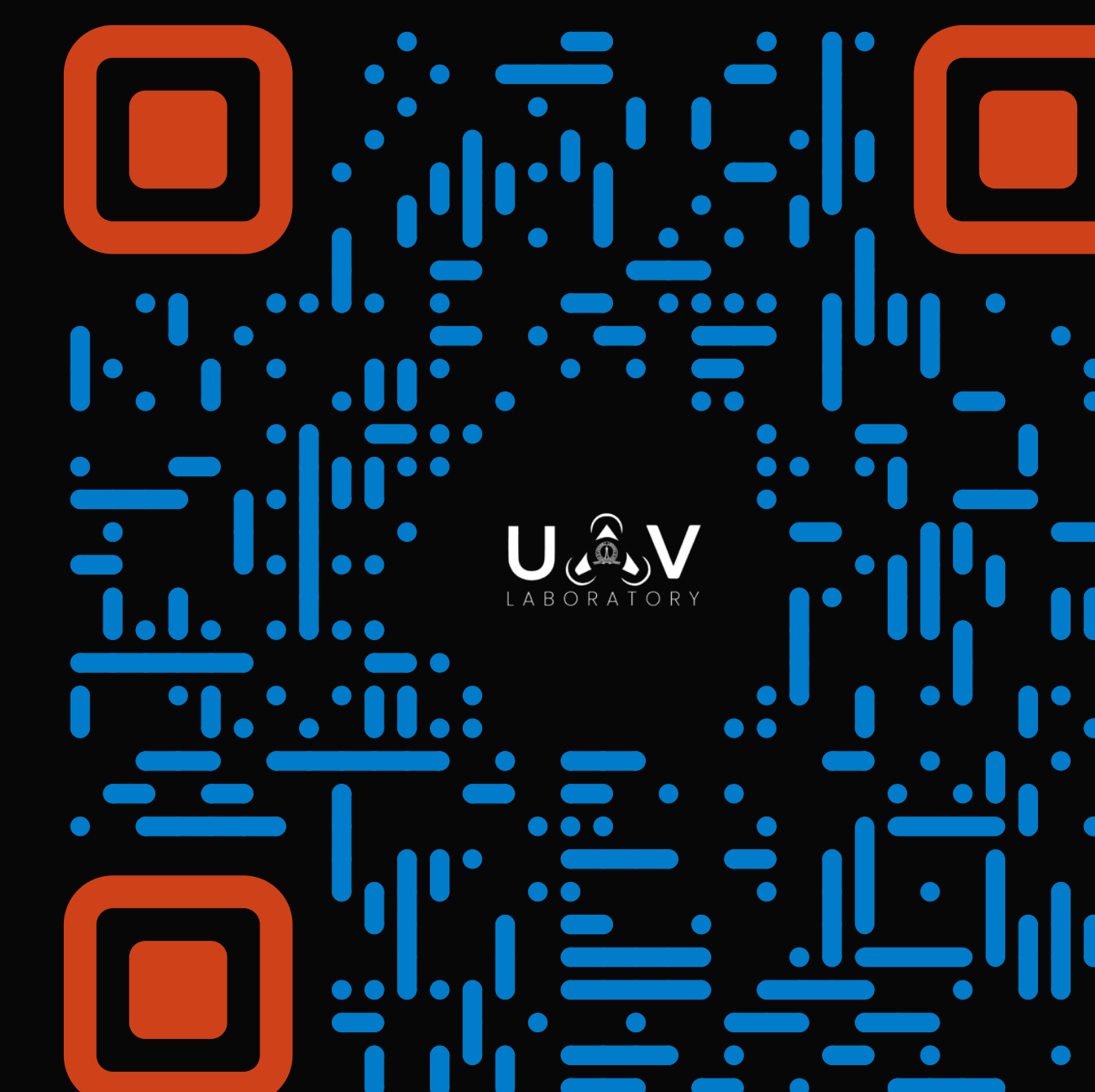
Student	₹6,000
Faculty	₹9,000
Working Professionals	₹12,000

*prices are not inclusive of taxes.

what's included.

-  Five transformative days of end-to-end *drone mastery* — from core theory to confident flight, mentored by IISc UAV experts.
-  Guided build experience with *multirotor and fixed-wing kits*.
-  *Flight simulation* sessions and precision tuning for real-world readiness.
-  *Prestigious certification* co-endorsd by IISc UAV Lab • HAL Skill Development Centre • MeitY.
-  *Lunch & refreshments* included.
-  Exclusive *networking pathways* with industry, academia, and a diverse national peer cohort.
-  Accommodation **not** provided.

register now!



Limited seats available to ensure personalized mentorship. Early registration is strongly advised.



Deadline
5th December 2025

workshop details.



Dates

December 09 - 13, 2025 (Tue -Sat)



Venue

AE Auditorium, Department of Aerospace Engineering,
Indian Institute of Science, Mathikere, Bengaluru - 560012



Website

dodrones.in



WhatsApp Channel

[UAV Laboratory, IISc — Events, Updates & Opportunities](#)



Instagram

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