JGi JAIN
DEEMED-TO-BE UNIVERSITY
FACULTY OF ENGINEERING AND TECHNOLOGY

CSIR-NAL | SIATI | CoreEL Technologies — Enabling Excellence

School of Aerospace Engineering

Organises
A workshop on

Advances in UAV Technology

Date – **25 - 27** October 2024

Venue – JAIN Global Campus, Kanakapura Taluk, Ramanagara District - 562 112

Scan here

Event Webpage

Registration Form

set.jainuniversity.ac.in

About JAIN (Deemed-to-be University)

Boasting its illustrious history of developing talent, JAIN (Deemed-to-be University) is considered an institution that can provide overall development and growth to a student. Promoted by JAIN Trust (JAIN University Trust) and based out of Bengaluru, Karnataka, the University is known for its education, entrepreneurship, research and sports. What makes JAIN (Deemed-to-be University) exceptional and unique is its outlook towards life, values, and beliefs. Its quest for a student-friendly and industry-specific curriculum has enabled continued success and resilience. This, in turn, has made the University one among the top universities in India.

About JAIN (Deemed-to-be University) – Faculty of Engineering and Technology

JAIN (Deemed-to-be University) – Faculty of Engineering and Technology has spanned a decade with curriculum and activities that have enabled students for industry employment. JU-FET offers undergraduate (B. Tech) and postgraduate (M. Tech), and diverse programmes that focus on delivering world-class educational experiences to students. The distinctive and high-quality academic and experience-centric skills training supports students in a smooth transition towards goals and success.

About the School of Aerospace Engineering

Established in 2009, the School of Aerospace Engineering is a collaborative body between JAIN (Deemed-to-be University) and the Society of Indian Aerospace Technologies and Industries (SIATI). The department offers engineering courses related to the field of aerospace. JU-FET steps in to prepare students via research-oriented professions and innovation in the aerospace sector.

Events

- Seminar
- Exhibition
- MATLAB Workshop
- Fixed Wing UAV Challenge
- Multicopter Competition

Important Dates

Start of Registration	**05.04.2024**
Intimation of Acceptance	**10.10.2024**
Seminar Dates	**25.10.24** & **26.10.24**
Workshop Date	**26.10.24**
Event Dates	**25.10.24** to **27.10.24**
Expo Dates	**25.10.24** to **27.10.24**

Registration Fee

Seminar	**Rs. 1000/person**
MATLAB Workshop	**Rs. 1500/person**
Fixed Wing UAV Competition	**Rs. 5000/team**
Multicopter Competition	**Rs. 5000/team**

Account Information

Name	**JAIN UNIVERSITY**
A/c No	**60143268072**
Bank	**Bank of Maharashtra**
Branch	**J P Nagar 6th Phase**
IFSC Code	**MAHB0001155**
MICR Code	**560014013**

Sponsored Partner

Platinum	**Rs. 2,00,000 (Stall Space* + Advertisement + Banner)**
Gold	**Rs. 1,00,000 (Stall Space* + Advertisement+ Banner)**
Silver	**Rs. 50,000 (Stall Space* + Advertisement)**
Bronze	**Rs.10,000 (Stall Space* - 3 m X 3 m)**

CSIR-NAL

National Seminar

On

Recent Advances in UAV/MAV Technology

Topics Discussed in the Seminar

- UAV Design and Development
- UAV Testing and Research
- Application of UAV in the Defense Sector
- Autonomous UAV
- Regulatory Requirements and Ethical Consideration
- Future Trends and Innovation in UAV Technology
- Artificial Intelligence for UAV
- Propulsion, Battery and Flight Control system
- Advanced Manufacturing Technologies including 3D Printing
- Precision Agriculture using drones

Resource People

- Industry Expert from Government Bodies
- Expert from Private Industries
- Strat-ups
- Leading UAV Researchers from National Institutes

Coordinators

Name - **Dr. Ashish Kumar Gupta**

Contact - **+91-63637 43982**

Multicopter Competition

Build a multicopter UAV that can automatically take-off and land to target indoor locations using a drone camera
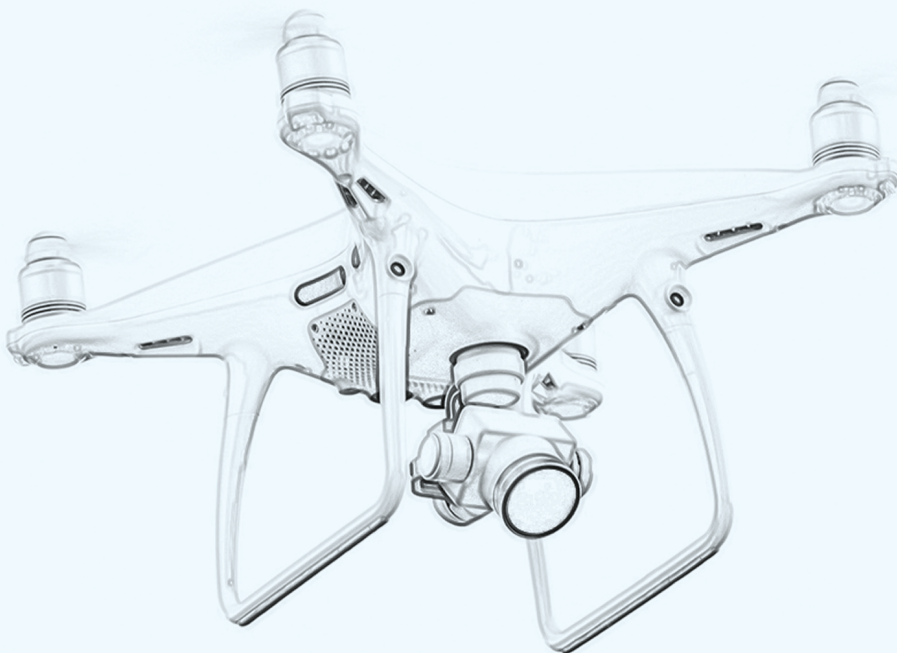
- The competition is intended to UG, PG and Diploma students.
- The team size could be maximum of 5 members
- Readymade drones are not allowed in the event
- Design Report submission (maximum of 15 pages) – Online
- Presentation and Flight Round – Offline
- For more details on Rules and Regulation of the Event check the event webpage

Co-ordinators

Name - **Prof. Naveenkumar R**

Contact - **+91-9482644156**

Last Date for Registration - **10-10-2024**
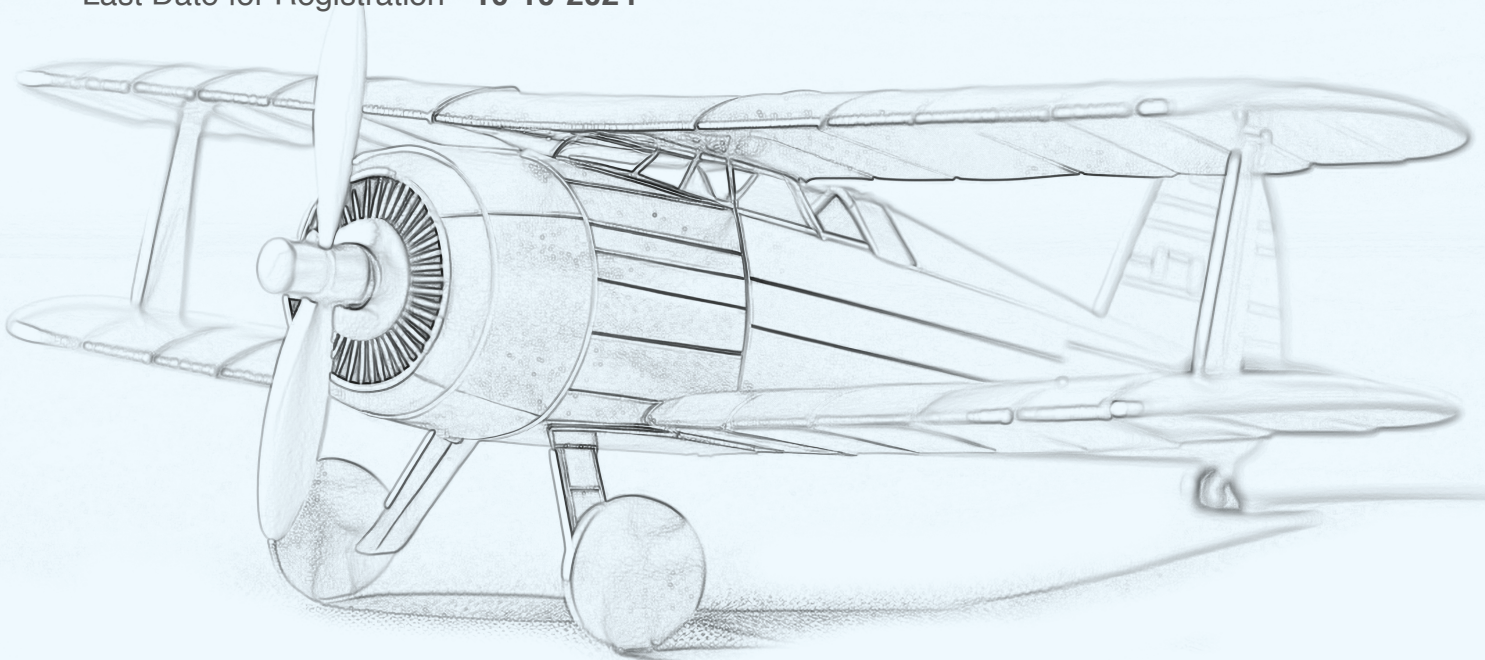
Fixed Wing UAV Challenge

- The competition is intended to UG, PG and Diploma students.
- The team size could be maximum of 5 members
- Build a fixed wing UAV that can lift and deliver maximum weight possible within the wing span of 1.2 m and chord length of 25 cm.
- Automatic or manual delivery of payload in the target zone using parachute
- Readymade drones are not allowed in the event
- Design Report submission (maximum of 15 pages) – Online
- Presentation and Flight round – Offline
- For more details on Rules and Regulation of the Event check the event webpage

Coordinators
Name - **Prof. Naveenkumar R**
Contact - **+91-9482644156**
Last Date for Registration - **10-10-2024**

MATLAB Workshop on
Assisted UAV Navigation using AI/ML

In this workshop, we'll explore how AI is reshaping the landscape of UAVs, driving advancements in autonomy, decision-making, and operational efficiency. The hands on sessions will focus on -

- UAV workflows and Model-based design
- Vehicle modeling and simulation
- Computer vision and AI
- AI-Map using UAV camera and Deep Learning

Workshop Highlights

- Pre-workshop online training sessions
- Access to MATLAB Learner License for Training

Registration Fee: **Rs. 1500 (Kit, Lunch and GST)**

45 Seats Only (Limited)

Last Date for Registration: **22-09-2024**

Coordinators - **Dr. K Rajasekar**

Contact - **+91 8015082515**

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Dr. Chenraj Roychand Chancellor

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