

# VIRTUAL TRAINING AND INTERNSHIP PROGRAM



+ 91 91501 12055



[www.skyline-space.com](http://www.skyline-space.com)  
[info@skyline-space.com](mailto:info@skyline-space.com)



Coimbatore, India

## **ABOUT SKYLINE**

Skyline Space is a leading space technology company specializing in the development and application of drone technology. We are committed to advancing the field of unmanned aerial vehicles (UAVs) and leveraging their capabilities to revolutionize industries such as aerial photography, surveying, agriculture, logistics, and more. As an intern at Skyline Space, you will have the opportunity to work alongside experienced professionals, gain experience with cutting-edge drone technology, and contribute to innovative projects that push the boundaries of what drones can achieve.

We are a dynamic space technology start-up, driven by a relentless pursuit of innovation and a fervent love for space exploration.

## **INTERNSHIP AND TRAINING PROGRAM**

As a Drone Technology Intern at Skyline Space, you will be part of our development team, where you will actively participate in various stages of drone technology projects. This internship will provide you with valuable exposure to the rapidly evolving field of UAVs, allowing you to develop skills in drone design, testing, data analysis, and application development. You will work on real-world projects that have the potential to make a significant impact on multiple industries.

Skyline is committed to creating a supportive and inclusive work environment, where interns are encouraged to ask questions, share ideas, and contribute to the team's success. We offer competitive compensation packages and flexible scheduling options to accommodate your academic commitments.

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## **What knowledge and skills will you acquire through our internship?**

As part of your role, you will have the chance to contribute to both ongoing and upcoming missions, which offers an excellent opportunity for personal and professional growth. During this time, you will also gain valuable knowledge and experience.

- Introduction to Flight Dynamics
- UAV Aerodynamics & Stability
- Single Rotor & Hybrid VTOL's
- Preliminary designs of drone
- Level of Autonomy in UAV
- Drone Geo-referencing
- UAV coordinate system
- Fixed wing drones
- Fundamental Equations

## **You will receive access to the necessary tools and resources.**

- Exclusive Course e-booklet from Skyline Space.
- Designing and Analysing Skills.
- Research Assistance.
- Career Guidance.
- Get and chance to publish your research work.
- Live interactive classes from working professionals and instructors.
- Get connected with industry peoples.
- Internship and Course completion certificate.
- Letter of recommendation.
- Chance to get a job opportunity with Skyline Space.

# SYLLABUS

## ANSYS

- VTOL Drone CFD Simulation
- Static Analysis of Beams
- Structural Analysis
- Thermal Analysis
- Modal Analysis
- Fluidic Propulsion of CFD

## SOLIDWORKS

- Quadcopter Frame Assembly
- 3D Modelling of Fixed wing UAV
- Blended Wing UAV Modelling
- Propellor Design
- Quadcopter Leg Designing
- NACA Propellor

## MATLAB & SIMULINK

- Introduction to MATLAB
- GUI of MATLAB
- Making your own functions
- Programming the drone with MATLAB

## **ARDUPILOT**

- Drone Virtual Flights
- Mission Planner

## **CASE STUDIES**

- ISRO RLV LEX
- Micro & Mini UAV's

## **Working on Live Project**

### **Eligibility**

All Engineering and Science department students.

1st Year student / 2nd Year student / 3rd Year student / 4th Year student / Passeded Out student /

Freshers / Job seekers / Working Professionals.

### **Important Details**

Monday to Friday – 18:00 IST Onwards.

Internship Period – 30 Days

Platform – Microsoft Teams.

Recorded Sessions will be provided.

Training Fess – INR 1500 / Per candidate (Inclusive of e – Certificate and GST).

## Contact Us

Mobile Number – +91 91501 12055, +91 63790 04960

E-mail – info@skyline-space.com

skylinespaceorg@gmail.com

## Visit Us

www.skyline-space.com