SKYY RIDER PRESENTS

INTERNSHIP ON DRONE & AIRCRAFT DESIGN (2 WEEKS & 4 WEEKS)

BENEFIT OF THE PROGRAM

- *Learn About basic and advanced concepts, design aspects of Drones and Aircraft.*
- *Interact with Experts and get career guidance*
- *This Internship includes several projects– Participants will execute several projects end of the internship*
- *Finest program for students seeking for higher study in foreign University in Aerospace*
- *One of the finest programs for Drone related jobs.*
- *Globally accepted Certificate, LOR after the program*

SKYY RIDER INSTITUTIONS
Contact us at: 8800889353
MAIL AT: info@skyyrider.com ,VISIT : www.skyyrider.com

PROGRAM DETAILS:

BASIC AIRCRAFT & DRONE DESIGN (2 WEEKS)

1. Aircraft and its details
2. Basics of Aerodynamics, Basic of Drones
3. Life, Drag, Equations
4. Basics of Drone Design(Quadcopter)
5. Formulate Propeller's Behaviour and Performance
6. Formulate Linear and Rotational Drone Dynamics Equations
7. Drone Actuation and control Equations
8. Develop Open-loop Drone model in Simulink
9. Basics of Control Theory
10. Automated altitude control using PID controller (Closed-loop)
11. Mini Project of Drone design

ADVANCED AIRCRAFT & DRONE DESIGN (4 WEEKS)

1. Aircraft and its details
2. Basics of Aerodynamics, Basic of Drones
3. Life, Drag, Equations
4. Basics of Drone Design(Quadcopter)
5. Formulate Propeller's Behaviour and Performance
6. Formulate Linear and Rotational Drone Dynamics Equations
7. Drone Actuation and control Equations
8. Develop Open-loop Drone model in Simulink
9. Basics of Control Theory
10. Automated altitude control using PID controller (Closed-loop)

11. Kinematics and Dynamics of a 6DOF system

12. 3D modeling of Drone

13. CFD analysis for Design of custom Propellers, in Ansys Fluent

14. Applied Control System

15. Global controller Architecture modeling in Simulink

16. MBD simulation of Drone in SimScape

17. 3D motion Visualisation of Drone in SimScape

18. MPC altitude controller

19. Feedback Controller

20. Trajectory Optimization

21. Major Project (Multiple Projects)

NOTE: There is Limited seats in each batch. Seats are offered based on first come first serve basis.

REGISTRATION PROCESS:

1. Students need to pay the registration fee at the link and get registered.

2. After the payment & registration, our training team will get in touch with students regarding batch details.

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