INDIAN INSTITUTE OF TECHNOLOGY, IIT (Mandi)



AstraX - 2020

In association with

SKY AEROSPACE



ENGINEERING RESEARCH &SKILL DEVELOPMENT ORGANIZATION -BANGALORE, INDIA

Conducting

AstraX'20

INDIA'S FIRST EVER LIVE PRACTICAL WORKSHOP ON

RC F22 RAPTOR FIGHTER AIRCRAFT MAKING & FLIGHT SKY TEST

GET READY TO MAKE YOUR OWN RC FIGHTER AIRCRAFT ON March 13th &14th - 2020

Venue -Indian Institute of Technology (IIT, Mandi)





AIRCRAFT DESIGN



ELECTRONICS
CONTROL SYSTEM

FLIGHT TEST ON SKY

@ IIT Mandi







Workshop Date – March 13th &14th ,2020 Fees – 999/Student

To book your ticket - Login http://www.theskyaerospace.com

Booking starts from – 4th Feb (Tuesday)

For further quaries Contact: +91-9677803678, Mail ID: info@theskyaerospace.com

Highlights of this Aeronautics Workshop?

- Aircraft Design session by Aerospace Engineering Industrial Experts
- Live RC KIT Making Training to all students
- RC Materials given to all Individual Team
- Aim of the Workshop At End of the Workshop ,Every Students Team should have to Make their
- Own RC Plane
- Fly Test Only by RC Pilot

Selected Best students from March 13th Workshop will get 30% fee concession for

Five days Aeronautics Internship Program ,Starts from December April 25th @Bangalore campus

PRIZE MONEY FOR BEST STUDENTS

- Best Aircraf Making Team
- Best Flight Performance Team
- Best Student For Objective Type Contest

WORK SCHEDULE -DAY -1

ACTIVITY	TECHNICAL CORE	TRAINING METHODOLOGY	THEME
INAGURATION			
*Secrets of Science Behind Birds Fly *Design of Paper Plane Aero science	Aerodynamics of Light weight Aircraft	Bird Models Depron Wing Visual File 2D- Presentation	
Design and Selection of Aircraft Aerodynamic Parts	Wing Position – Shape –NACA Airfoil Science – Fuselage –Tail configuration -	Aircraft configuration- Visual Presentation	

DAY-2

ACTIVITY TECHNICAL CORE TRAINING THEME METHODOLOGY

Aerodynamics – Fighter Aircraft

Aerodynamic Forces- Analysis Lift-Drag-Thrust Design Ratio Drag polar

Drag Divergence

Aircraft Model Airfoil

Video File

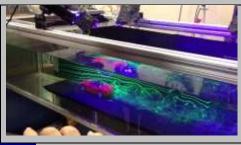


Entire Aircraft Design

2D Drawing Sheet Model-Cutting

> Measurement Engineering Graphics

Raw Material – Practical Session



Aero Design Contest

ACTIVITY	TECHNICAL CORE	TRAINING	THEME
		METHODOLOGY	
Aircraft Avionics – Electrical Engg			
	Electronic and	Technical_	

Servo Motors Flight Controller ESC-Speed Electronic and Electrical Power Unit &Control

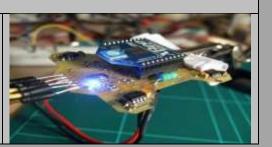
Presentation
Live components
Model

Video Fie

Entire Electrical circuit Engineering

Connections Board Pins

Circuit Board Design Layout Raw Material Practical Session



ACTIVITY E.TECHNICAL CORE

TRAINING METHODOLOGY

THEME

Flight Mechanics & Maneuver

Range –Climb

Endurance

Flight Mechanics

Stability Yaw- Roll- Pitch Flight Maneuver through Computer simulation Flight Simulator Software
Touch &Feel
Practical Session

Live components Model



Sky Test of RC Plane Live Feel of Flying
with Hand Pilot
Control of
Transmitter –
Machine

RC –Piloting



Certificate Distribution

FLIGHT TEST-DAY 02





KIT INCLUDES – HIGH STRENGTH DEPRON MATERIAL FOR AIRCRAFT PARTS, ELECTRONICS, PROPELLER,

TRANSMITTER, RECEIVER, PROPELLER, MOTOR, CONTROL SYSTEM

NATIONAL LEVEL WORKSHOP CERTIFICATE WILL BE ISSUED ON THE SAME DATE OF EVENT