"THROTTLERS" Model Aircraft

Introduction

On December 17, 1903, Orville Wright piloted the first powered airplane 20 feet above a wind-swept beach in North Carolina. The flight lasted 12 seconds and covered 120 feet.

Since then the world of heavier-than-air flight has seen many revolutionary changes like jet engines, flights faster than sound and trans-atmospheric flight. Even then the basics of aeronautics have been engines with good thrust to weight ratio, control surfaces for stability and manoeuvre and most important the aerodynamics to make the structure fly.

This may, discover the thrill of a miniature IC-engine powered flight built on balsa wood by your own hands going airborne over the **Aayam'12 Suresh Gyan Vihar University, Jaipur.** Let the roar of the engines add to the musical excellence of the festival and salute the pioneers of heavier-than-air human flight.

Content Outline

- The aim of this workshop is to introduce participants with basics of aero modelling. Participants would be making a balsa wood aircraft.
- The workshop would be divided into multiple sessions.
- First session would consist of theory lessons where topics like Introduction to Aero modelling, Basics of flight mechanics, Common terminology, Control surfaces, Types of aircrafts, Types of gliders, parts of aircraft, basics of IC engine and explanation of structure of model adopted would be covered. It should be noted that these topics would be covered only till the depth required for the workshop.

- Second session would be devoted to making of the aircraft. Instructors would be present to help participants whenever required.
- Third session would be devoted to help the students fly their Model Aircrafts.

After the workshop you will be able to-

- Hands on design your own Glider, using balsa wood.
- Flight your glider on free flight.
- To stunt on air as your imaginations are flight.
- Learn no. of methods of aero spacing models.
- Design many types of models in glider.
- Learn about no of technologies used in DRDO and air force.
- Participate aero modeling competitions like IIT Technfest, Aayam'11, CLUB FIRST Aero fest, Texas throttles U.S.A. etc.

Content of the workshop-

- Introduction to basic aero dynamic effects used in.
- Balsa wood glider kit assembling.
- Maintaining center of gravity in glider.
- Placing ailerons, elevator and Fuse lass.
- Giving complete aero dynamic effect to your glider.
- Fuel used in IC engine and their chemical ratio.
- Making fully air resistant plane body.
- How to design your glider with air friendly.

Eligibility

Participants having a valid ID card of their respective educational institutions are eligible for the Model Aircrafts workshop.

Registration- Register online in a team. **Register.clubfirst.org/workshop.php**

Team Specifications-

A team may consist of **Minimum 1 and Maximum 6 members.** Participants from different colleges may form a team.

Payment Details-(Workshop is Free of cost fee)

The cost of the Aircraft is Worth 16000/- per team. (Including Balsa wood Kit, Engine, Rc Remote, ESE, Battery, Mini Tool Kit)
(Which market cost is 19000/-)

Mode of payment:

Pay cash in Club First Account A/C Information is below-
A/C Name- "Club First techno Edusolutions Pvt.Ltd."
Bank Name- ICICI A/C Number- 096905000560

- All the payment should be made before the starting of the workshop.

Contacts:-

For any query and registration
CLUB FIRST (+91 8058496808)
Aayam'12 Office
E&C Department, Suresh Gyan Vihar University
Mahal Jagatpura, Jaipur (Rajasthan).

Certificate Criterion-

All participants should be present in all the sessions. Failing this, no certificate shall be awarded to the participant. Certificate will be provided Two Days Aero Modelling Workshop.