

AADHRITA 2020

MVGR COLLEGE OF ENGINEERING (A)

RC AIRCRAFT DESIGN



EVENT DESCRIPTION:

This workshop gives an opportunity to understand the theory behind the functioning of aircraft and aircraft design. It makes you to innovate by coming up with your own design of an RC aircraft and fabricate it from scratch. An interactive lecture session and design session helps you design your own aircraft. All the components for fabrication would be provided to participants in groups of 5 but would be return back at the end.

ELIGIBILITY:

- Students interested in RC Aircraft Design.
- Students interested for a career in Aerospace and related fields of engineering.

COURSE HIGHLIGHTS:

- Design, build and test your RC Aircraft from the scratch.
- Learn all the introductory concepts of aeronautical engineering through aeromodelling.
- Introduction to design algorithm of an aircraft.
- Hands-on experience on the electronic and electrical instrumentation of an RC aircraft.

<https://youtu.be/y-1vMKdC2jM>

COURSE STRUCTURE:

Duration: 2 days

- Introductory lecture on aeromodelling – **2hours**
- Interactive design session – **2hours**
- Fabrication session – **8hours**

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- Testing session – All aircrafts designed by the participants are flown – **3.5hours**
- Certificate distribution – **0.5hours**

Topics Covered

- Basics of Flight & Aeronautics
- Different Systems in an Aircraft
- Stability & Control of an Aircraft
- Instrumentation in an RC Aircraft

Kit Content

- Brushless DC Motor
- Electronic Speed Controller
- Propeller
- Li-Po Battery
- Servo Motors
- Coroplast
- Styrofoam
- Control Rods
- Wing Holders
- Transmitter *
- Receiver *
- Working Tools *
- Other miscellaneous items

All the above components would be provided during the program to participants in groups of 5 but would be taken back at the end. This is being done to reduce the cost of the program and make it affordable for students who do not want to buy the take-away kit.

Take-away kit consists of all the above items excluding the items marked with *. Take-away kit can be purchased at the venue by paying an additional fee of ₹ 7,500. If you also want the transmitter and receiver, it would cost you an additional amount of ₹ 6,000

REGISTRATION FEE: 900/- per participant

CERTIFICATION:

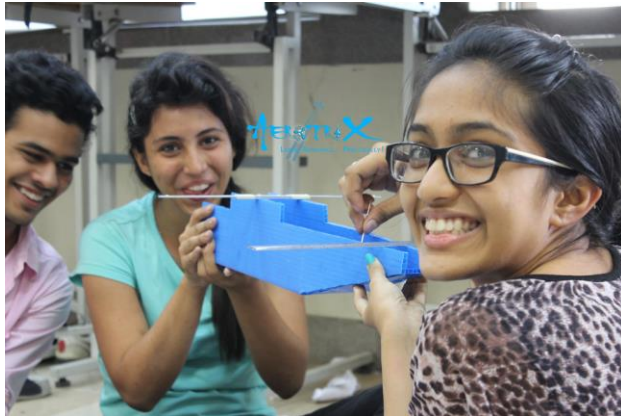
- “**Certification of Completion**” to all the students who successfully completed the workshop.
- “**Certificate of Completion with Distinction**” to the top performing participants in the workshop.
- The winners of the competition will be awarded with the **Kit**.

CONTACT DETAILS:

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YouTube link: <https://youtu.be/y-1vMKdC2jM>

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