



**RV COLLEGE OF ENGINEERING®**



# **DEPARTMENT OF AEROSPACE ENGINEERING**

in association with



Bangalore Branch

**THE AERONAUTICAL SOCIETY OF INDIA (AeSI)**

presents



**A E R O M A N I A  
2023**

**An AEROTECHNICAL Event by  
RV College of Engineering  
( 4<sup>th</sup> - 6<sup>th</sup> Jan )**

# RV College of Engineering



Established in 1963, with three engineering branches namely Civil, Mechanical and Electrical, today RVCE offers 13 Undergraduate Engineering programmes, 16 Master's Degree programmes, and Doctoral Studies.

Located 13 km from the heart of Bangalore City – the Silicon Valley of India, on Mysore Road and it provides an ideal ambiance to stimulate the teaching-learning process, helping in bringing out skilled and disciplined Engineers.

## Dept. of Aerospace Engineering

This Department was started in the year 2015 to offer a UG program in Aerospace Engineering.

Imparting quality education in Aerospace Engineering domain with emphasis on research, sustainability technologies, and entrepreneurship for societal symbiosis has been the primary motive.

The Department's main objective is to create expertise in specialized areas of Aerospace Engineering which includes Aerospace Structural Design, Aerodynamics, Propulsion Systems, Control Systems and others with a focus on research and innovation.





# **Aeronautical Society of India (AeSI)**

**The Aeronautical Society of India (AeSI) is the principal Society in India serving the professions in areas of aeronautics, aerospace and aviation. Its stated primary purpose is to "advance the sciences, engineering, technology, management of aerospace, aeronautics, and aviation and to foster and promote the professionalism of those engaged in these pursuits".**

## **About AERO MANIA**

**AERO MANIA is a 3-day Aero Technical fest to be conducted by the Department of Aerospace Engineering in association with the Aeronautical Society of India (AeSI) in RV College of Engineering, Bangalore from 4th January to 6th January 2023.**

**This event aims to bring together enthusiasts from various engineering colleges and to provide them a platform to learn, grow and showcase their creativity in this field.**





# WORKSHOPS

## RC PLANE

- An opportunity for students to understand the theory behind the functioning of an Aircraft and its designs.
- An interactive lecture and design session will help them in designing their own Aircraft from scratch.

Registration Fee : ₹1400

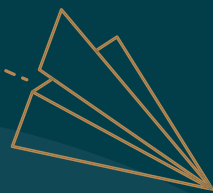
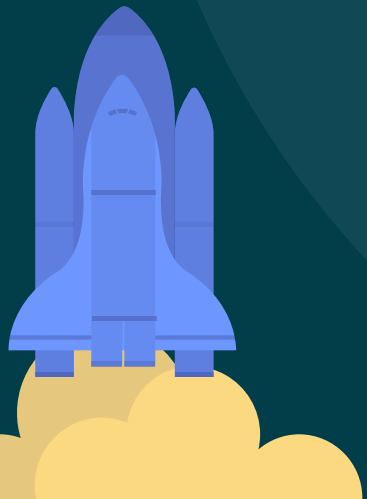
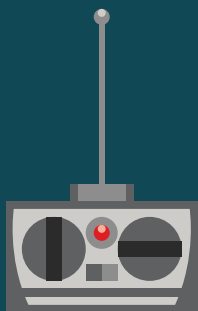
Team size : For individuals only

## OCTOBER SKY

- An interactive Workshop for students to learn practical science behind the working of a Rocket.
- The workshop will consist of Theory discussions, Q&A sessions, including building and launching of Model Rockets.

Registration Fee: ₹900

Team size : Upto 3 members





# FLAGSHIP EVENTS



## Aerial Endeavors

- ★ This contest is to expose students to the real-life work environment of engineers in the industry.
- ★ Students are expected to bring innovation in the Payload dropping method and mechanism to ensure a safe delivery of payload to the target point.



Registration Fee: ₹1000

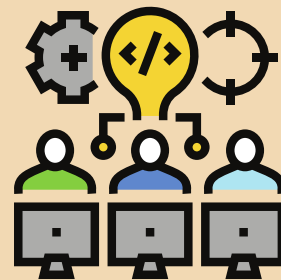
Prize Worth: ₹30,000

Team size: Upto 6 members



## Voyathon

- ★ This event mainly focuses on practical and interpersonal communication skills which play a huge role in an engineer's career.
- ★ A 12-hour event, where the students will be applying their knowledge to solve a real-world problem faced by the industry.



Registration Fee: ₹1500

Prize Worth: ₹70,000

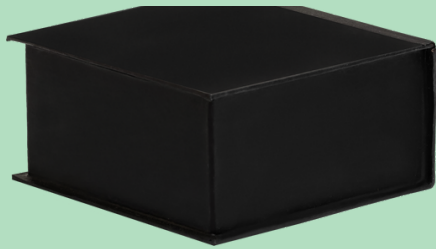
Team size: Upto 6 members

## Keynote Address By Speaker

- ★ Speakers from the Aeronautical Society of India will deliver talks on emerging topics in the Aerospace industry.

# STUDENT EVENTS

## BLACK BOX



It is an exciting event that exhibits student's critical thinking abilities.

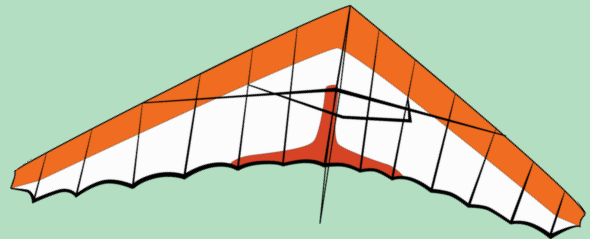
In this contest, each "Black box" is a problem statement that contains information/hints of a famous/noteworthy flight disaster that has happened in the past. Students should guess the reasons for the occurrence of the disaster.

Registration Fee: ₹300

Prize Worth: ₹3000

Team size: Max 2 members

## LET'S GLIDE



Let's Glide will enable students to understand basic Aerodynamics, Weight and Balance and also Modelling techniques. Then apply them in a competition to design and build the best Balsa Wood Glider.

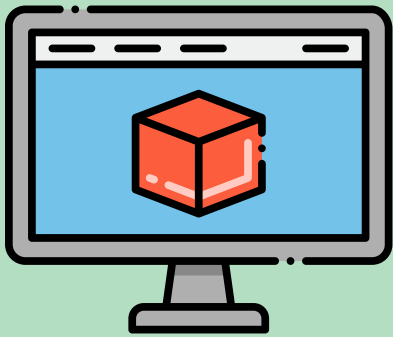
Registration Fee: ₹550

Prize Worth: ₹5000

Team size: Max 2 members

# STUDENT EVENTS

## CLASH OF CAD



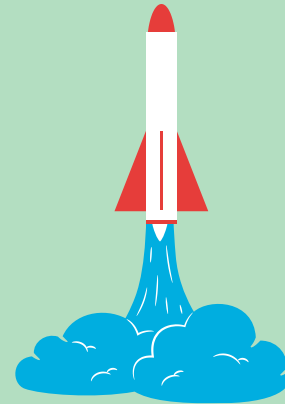
This competition revolves around converting a 2D Drawing into a 3D Model, and Calculate the accurate Mass of the part.

Registration Fee: ₹300

Prize Worth: ₹3000

Team size: Max 2 members

## AQUA LEAGUE



Water rocketry involves the fabrication of a rocket whose fuel for the flight is obtained by the use of water.

The Range, Time of Flight, and Accuracy of Launch are evaluated.

Registration Fee: ₹300

Prize Worth: ₹3000

Team size: Max 2 members

# STUDENT EVENTS

## AEROQUIZ



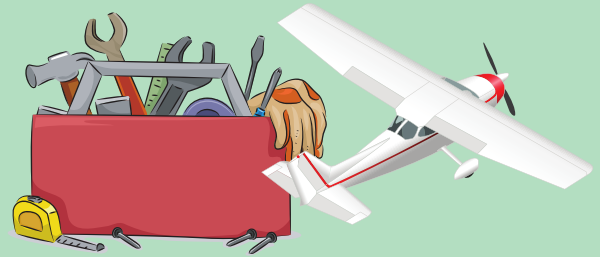
Aero Quiz aims to check students knowledge on Current Affairs in the field of Aeronautics & Aerospace.

Registration Fee: ₹150

Prize Worth: ₹3000

Team size: Max 2 members

## SCRATCH SQUASH



Scratch squash event shall enthrall students to prototype anything related to Aerospace field from scratch. To use their creativity and develop a model with the minimum materials provided.

Registration Fee: ₹300

Prize Worth: ₹3000

Team size: Max 2 members



# TAKE OFF EVENTS

[For individuals only]

## AEROGAMI



This event relates to making a plain sheet of paper fly as far as possible.

Registration Fee: ₹30

Prize Worth: ₹3000

## POSTER PRESENTATION



This event is to design a poster representing the Aerospace theme and to explain it.

Free Entry

Prize Worth: ₹3000



# ENTERTAINERS

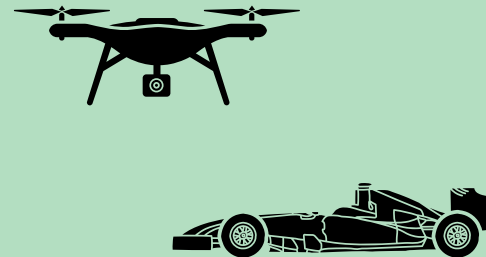
## FPV meetup

This event will be a good entertainment show using the floodlight FPVs.



## F1 v/s Drone

It will be an exclusive race to test out which is faster. Is it the Drone or is it the F1?



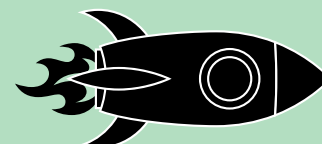
## Flight Simulator

This will let people enjoy the thrill of flying in an Aircraft virtually.



## Static Fire Test

This event will enable students to understand how Rocket testing is done for small scale projects.



# Contact Us

## FACULTY COORDINATORS

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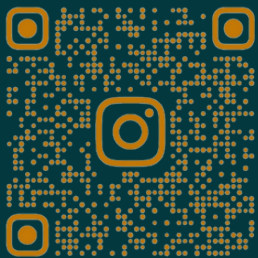


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