

SAEINDIA
Society of Automotive Engineers INDIA

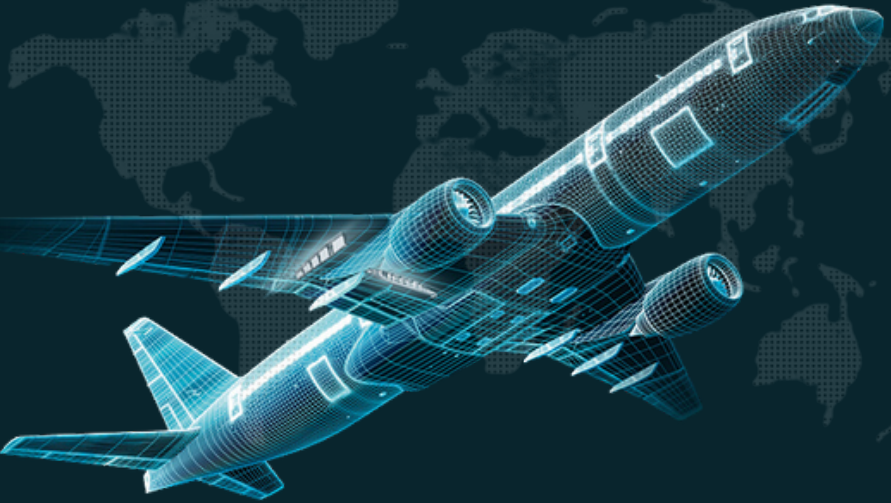
SAEINDIA
AEROSPACE

SAEINDIA AEROSPACE FORUM

AEROTHON

VIRTUAL AERO DESIGN CONTEST

12 & 13 JUNE, 2021



Co - Sponsor

Ansys | **Infosys**

Academia Partner

 **HINDUSTAN**
INSTITUTE OF TECHNOLOGY & SCIENCE
(DEEMED TO BE UNIVERSITY)

OBJECTIVE

- To provide a platform for students interested in aerospace and related engineering disciplines to demonstrate their aircraft design expertise.
- To evaluate aircraft design skills of students.
- To find and groom young talent with aircraft design knowledge & skills.

PROGRAM STRUCTURE

Program is conducted in 2 phases : Preliminary round of design submission and Final round of AEROTHON.

CLOSURE OF SUBMISSION OF DESIGN TO
AEROTHON AS PART OF PRELIMINARY ROUND
MAY 15, 2021

FINAL ROUND
JUNE 12 & 13, 2021

- This round invites innovative designs from the participant teams by May 15 2021.
- The innovative designs will be evaluated, and top five teams will be selected for the final round

- Top five teams will go through design contest with 24 hrs duration similar to Hackathon.
- Top 3 teams will be selected as winners of the contest

PRELIMINARY ROUND

- Each team should submit a technical report on the design of the air vehicle.
- The technical report should contain design details, 2D drawings, 3D models and supplemental Technical Data Sheet. The technical design report shall not exceed 30 pages. If the design report exceeds 30 pages the judges will only use first 30 pages for evaluation.
- The report shall be typewritten and double-spaced. Tables, charts and graphs are exempt from the 30 pages limit. For single-spaced reports, only the first 15 pages will be considered.
- The report font shall be 12 pt. proportional; or 10 char/in. non-proportional font.
- The report margins shall be: 1" Left, 0.5" right, 0.5" top, and 0.5" bottom.
- Each page, except the cover page, Certificate of Compliance, 2D Drawing and technical data sheet shall include a page number.
- All report pages shall be A4 portrait format.
- The report shall include a table of contents, table of figures, table of tables, table of references and table of acronyms.
- The document should be submitted electronically and no handwritten documents will be accepted.
- Detailed guidelines and air vehicle specifications are available in the event website.

Evaluation Guidelines - Preliminary Round

| S.No | Parameter | Score |
|------|---------------------------------------|-------|
| 1 | Technical Content | 60 |
| 2 | Practical Application and Feasibility | 10 |
| 3 | Innovation | 20 |
| 4 | Originality | 10 |

Evaluation Guidelines - Final Round

| S.No | Parameter | Scope |
|------|---------------------------------------|-------|
| 1 | Technical Content | 40 |
| 2 | Practical Application and Feasibility | 10 |
| 3 | Innovation | 20 |
| 4 | Originality | 10 |
| 5 | Presentation | 20 |

Technical content will be evaluated considering below parameters:

- Vehicle configuration and sizing
- Aerodynamic design and analysis
- Weight and balance
- Structural design and analysis
- Propulsion selection
- Performance and stability
- 2D drawings and 3D models

IMPORTANT DATES:

| Timeline | Schedule |
|--|-------------------|
| Curtain Raiser | 28 March 2021 |
| Registration closure for AEROTHON contest | 15 April 2021 |
| Closure of submission of Design to AEROTHON as part of Preliminary Round | 15 May 2021 |
| Announcement of teams selected for final round | 31 May 2021 |
| Final round | 12 & 13 June 2021 |

REGISTRATION:

- Team can comprise maximum of 7 students and 2 faculty advisors.
- Students have to be members of SAEINDIA. Faculty advisors are advised to become members of SAEINDIA, though it is not mandatory.
- Visit: <https://www.saeindia.org/become-a-member> to sign up for SAEINDIA membership.
- Registration fee for AEROTHON is Rs. 5000/- +18% GST per team.
- To register for AEROTHON visit : <https://saeindia.glueup.com/event/aerathon-virtual-aero-design-contest-33371/>

PRIZE AMOUNT:

- **1st prize - Rs. 1,00,000/-**
- **2nd Prize - Rs. 75,000/-**
- **3rd Prize - Rs. 50,000/-**
- Every participating team will be recognized with a certificate of participation from SAEINDIA.

SPONSORSHIP OPPORTUNITIES :

Co-Sponsor - Rs.1,00,000:

- Guest of honour address.
- 1 nomination for the jury panel (based on merit).
- Social Media promotion – 6 posts.
- Web-Banner advertisement in our website for 1 month.
- Logo in all communication collaterals.
- Marketing collaterals distributed to all participating colleges.

Associate Sponsor - Rs.50,000:

- One nomination for the jury panel (based on merit).
- Social Media promotion – 3 posts.
- Logo in all communication collateral.
- Marketing collaterals distributed to all participating colleges.



SAEINDIA
No 1/17Ceebros Arcade,
3rd Cross, Kasturba Nagar, Adyar
Chennai -600 020.



seshadri@saeindia.org



+91 75500 07903