AeroTHON 2023
BENGALURU
Uncrewed Aircraft System (UAS) Design, Build and Fly Contest

#AeroTHON2023
Indian government is on a mission to make India, a Uncrewed Aircraft System (UAS)/Drone hub by 2030 under Atmanirbhar Bharat Abhiyan. India’s UAS market is estimated to be INR 500 billion (USD 6.8 billion) in next five years. UAS are being used across diverse areas such as defense, construction, infrastructure, mining, oil & gas, telecom, agriculture/farming, media & entertainment, law enforcement, surveillance, security, safety, disaster management, geospatial mapping, land survey, the progress and condition monitoring through aerial photography and thermal imaging. Expansion of the application is expected in a widespread Consumer market synchronizing with the pace of progress in technological innovations with reduced costs. Drone-facilitated last mile delivery for the retail, healthcare and logistics sectors will soon become the reality.

To make the students industry ready for the development of UAS, SAEINDIA’s Aerospace Forum has been organising AeroTHON, a competition of design, build and Flying of a UAS, nurturing hundreds of teams in the past three years. With the astonishing success of AeroTHON2021 and 2022, AeroTHON2023 has been organized to provide an opportunity for the students to develop their skills in designing, building, flying a Uncrewed Aerial Vehicle (UAV) with a insightful mentorship from industry professionals. The event has two phases; a design phase and a concluding phase of build and flying of UAS meeting the specified mission requirements in a flying event.

SAEINDIA AEROSPACE FORUM

The Aerospace Forum is a team of dedicated individuals representing a broad spectrum of knowledge and skills in the aerospace industry who defines the strategy and direction of the forum. Overall objective of the group is “To develop a strong community of interest, leading to a healthy aerospace ecosystem in India”. Numerous events and activities were organized by the Aerospace Forum over a decade, some independently and a few in collaboration with the like minded groups.

SAEINDIA team has been collaborating with SAE International for the development of aerospace standards. The Indian team is actively involved in in G-51 Electronic Transactions for Aerospace (ETA) technical committee, G-54, the Artificial Intelligence in Aviation Committee and HM-1, the Integrated Vehicle Management committee.

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The contest has TWO Phases

Phase 1:
Design and Technical Presentation
- Innovative designs presentation from the participant teams
- Innovative designs evaluation by industry and academic experts
- Top 20 teams shortlisted for Phase 2

Phase 2:
Flight Test with a final presentation highlighting readiness to Fly and Awards
- Building the prototype of the UAV
- Technical presentation on the prototype and readiness to Fly the UAV
- Flight Test
- Awarding prizes to 7 teams

Key Event Dates

<table>
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<tr>
<th>Key Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Registration open</td>
<td>20 Feb 2023</td>
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<tr>
<td>Registration close</td>
<td>20 Mar 2023</td>
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<tr>
<td>Phase 1 Design Report submission by students</td>
<td>04 Jun 2023</td>
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<tr>
<td>Phase 1 Presentation Submission</td>
<td>22 Jun 2023</td>
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<tr>
<td>Phase 1 Students present designs to Judges (Industry and Academic experts)</td>
<td>24 Jun 2023</td>
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<td>Phase 1 Judges review reports &amp; finalize scores</td>
<td>26 – 29 Jun 2023</td>
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<td>Phase 1 Winners announcement</td>
<td>30 Jun 2023</td>
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<td>Phase 2: Physical prototype build</td>
<td>01 Jul 2023 – 17 Nov 2023</td>
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<tr>
<td>Phase 2: Physical prototype inspection &amp; Flying</td>
<td>18 Nov 2023</td>
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<tr>
<td>Phase 2: Flying competition</td>
<td>19 Nov 2023</td>
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<td>Awards Ceremony</td>
<td>19 Nov 2023</td>
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## Sponsorship

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<tr>
<th>Sponsor Category</th>
<th>Sponsorship Value</th>
<th>LOGO Presence</th>
<th>Stall Space at finals Venue</th>
<th>Social Media Posts</th>
<th>Webinar with Students</th>
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<tr>
<td><strong>Title Sponsor</strong></td>
<td>Rs. 4,00,000</td>
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<td>Large 18 Sqm</td>
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For Sponsorship, Contact

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For Team Registration, Contact

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### Registration Guidelines

- **Registration Fee:** Rs. 15,000 + 18% GST per team
- Teams can be formed with a minimum of 5 students and a maximum of 10 students of multiple disciplines with one faculty advisor.
- It is mandatory for participating students to become student members of SAEIndia. It is encouraged to take up the membership under +1 scheme as membership status continues for one more year after the completion of graduation.
- Though not mandatory, Faculty are encouraged to become a Faculty Member of SAEIndia and avail the benefits available for the faculty member of SAEINDIA.
- Visit: [https://www.saeindia.org/become-a-member/](https://www.saeindia.org/become-a-member/) to sign up for SAEINDIA membership.

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