

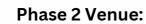




Aerothon S.J.C. Institute of

2023 Technology, Bengaluru Nov 17 & 18,2023

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







#AeroTHON2023





About AeroTHON

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-31 Electronic Transactions for Aerospace (ETA) technical committee, G-34, the Artificial Intelligence in Aviation Committee and HM-1, the Integrated Vehicle Management committee.

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OBJECTIVES



To inculcate an innovation mindset among the student community in emerging technologies like Uncrewed Aerial Vehicles (UAV)



To Incubate and nurture skills and capabilities of aero design in young minds and prepare them for Atmanirbhar Bharat in critical aerospace technologies.



To provide a platform for Aero-passionate students to demonstrate UAV design expertise



To help develop the next generation of entrepreneurs

CONTEST STRUCTURE

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

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



Sponsorship

Sponsor Category	Sponsorship Value	LOGO Presence				Stall Space	Social	Webinar	
		Promo	Venue Branding	Rule Book	Event Collaterals	Prize Plaque	at finals Venue	Media Posts	with Students
Title Sponsor	Rs. 4,00,000	Large	Large	Large	Large	Large	18 Sqm	4	4
Co-Sponsor	Rs. 3,00,000	Large	Large	Large	Large	Large	9 Sqm	3	4
Associate Sponsor	Rs. 2,00,000	Medium	Medium	Medium	Medium	Medium	6 Sqm	2	2
Supporting Sponsor	Rs. 1,00,000	Small	Small	Small	Small	Small	Table Space	1	0
Start-up Sponsor	Rs. 50,000	Small	Small	Small	Small	Small	Table Space	1	0

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/ to sign up for SAEINDIA membership.



Title Sponsor

Co-Sponsor





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Supporting Sponsor

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For Team Registration, Contact

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https://saeindia.org/events/aerothon2023/

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he AeroTHON organizing committee and SAEINDIA shall not be held responsible for non-fulfilment of their obligations due to the exigency of one or more of the force majeure events such as but not limited to the acts of God, war, flood, earthquake, strikes, lockouts, pandemics, epidemics, riots, civic commotions, scarcity, of water, electricity or such other basis facilities et and shall inform the participating teams on the event within one week of such decision being made if the force majeure conditions continue beyond a reasonable period where running the event in to feasible either due to the force majeure conditions or any other reasons, the event may be cancelled for the year. (a) Earthquake, flood, inundation and landslide, storm, tempest, hurricane, cyclone, lightning, thunder, pandemics, epidemics or other extreme atmospheric disturbances or any othe act of God (b) Strikes, labour disruptions or any other industrial disturbances not arising on account of the act commissions of the organisers, war, hostilities (whether declared or not, invasion, rebellion, riots, rebellion, riots, rebellion, riots, review, rebellion, riots, rebellion, riots, review, reliable to the regarders, repeated and responsible to the repair of experiments and responsible to the repair of experiments and repeated and responsible to the repair of experiments.