



AISSMS
COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



TEAM GARUDASHWA

Every Year We Fly Better

Annual Report 2025-26

Faculty Advisor: Dr. D. Y. Dhande

Who are we?

An International Aero Modeling Collegiate Club from AISSMS COE, Pune that builds, designs and tests RC airplanes. Team Garudashwa was founded in 2015 and participates in various National and International Aero Design Series organized by SAE ISS and SAE International. The team has a rich legacy winning of various events and has achieved at least one award every year since the beginning of the national competitions.

SAE AERO DESIGN WEST 2026

(Advanced Class)

Organized by :- SAE International



SAEISS AERO DESIGN CHALLENGE 2026

(Micro Class)

Organized by :- SAE India Southern Section



INTERNATIONALS – SAE AERO DESIGN ADVANCED CLASS 2026



PROJECT TIMELINE:

For a smooth workflow and efficient results, a strict timeline was followed by the team.

- The design phase of the aircraft was completed between September 2025 to January of 2026. It also included the CFD and structural analysis.
 - The flight tests were carried out in January 2026, with around 15–20 successful test flights conducted.
 - The Design Report was being prepared from November 2025 and was submitted on 1st March 2026.
 - The Virtual Flight Demonstration Readiness Review (FDRR) presentation was held on 10th April 2026.
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COMPETITION DETAILS:

- The competition was held in Fort Worth, Texas, USA.
- A Technical Design Report including a 2D drawing of the aircraft and technical data sheet was submitted.
- The technical inspection was carried out physically at the competition venue.
- Technical Inspection and Flight Events were conducted between 17th to 19th April 2026.

ACHIEVEMENTS:

- Overall Result: 14th RANK
- Technical Design Report: 5th RANK

This year marked a major milestone for Team Garudashwa as we participated physically in the **SAE Aero Design International** competition. **A total of 45 teams from 20 different countries** competed in the Advanced Class category. Our aircraft, designed within a strict maximum takeoff **weight limit of 1.58 kg**, featured **autonomous** payload delivery and **VTOL transformation capabilities**, successfully completing the mission profile.



SAEISS MICRO CLASS 2026



PROJECT TIMELINE:

- The design phase of the aircraft for Micro class was completed between October 2025 to November of 2025. It also included the CFD and structural analysis.
- Then the team started with manufacturing of the aircraft, which was completed in the end of October 2025.
- The flight tests were carried, and around 6 – 8 were successful test flights.
- The Design Report was being prepared from October 2025 and was submitted to the ADC on 7th November 2025.

COMPETITION DETAILS:

- The competition was held at KCG College of Technology, Chennai, India.
- A design report including a 2D drawing and Technical Data Sheet was submitted.
- The Technical Inspection, Technical Presentation and Flight round were carried out at the event venue.

Achievements:

- BEST AERODYNAMIC ANALYSIS (CFD) : 2nd RANK
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The challenge was to design a fixed-wing electric aircraft capable of lifting maximum payload weight. The aircraft had to meet specific size and weight constraints and demonstrate flight stability, and quick loading/unloading. **Over 100 teams** from across India participated in this competitive edition of the **SAEISS Drone Development Challenge**.



OTHER INITIATIVES & EVENTS

1. SAE DDC Workshop – Prathyusha Engineering College, Chennai

Team Garudashwa attended the SAE DDC (Drone Development Challenge) Workshop held at Prathyusha Engineering College, Chennai, organized by SAE Southern Section. The workshop focused on hands-on learning in drone and fixed-wing aircraft development. Over two days, participants engaged in building a fixed-wing trainer aircraft capable of payload drop missions. The team successfully assembled, tested, and flew the aircraft, gaining practical insights into aerodynamics, structural assembly, and mission planning. The event also provided a platform to interact with other collegiate teams and build technical confidence ahead of competition season.

Sponsors:



Team Garudashwa 2025-26

Team Members

Sr No.	Name	Roll No	Branch	Year
1	Devashish Joshi	22ME057	Mechanical	BE
2	Javin Bahadurge	23VL020	VLSI	TE
3	Nishadh Potphode	23VL033	VLSI	TE
4	Devyani Vinod Tannu	24EL061	Electrical	SE
5	Herlekar Abhishek Milind	24ME044	Mechanical	SE
6	Chavan Janak Kailash	24MS009	Mechanical Sandwich	SE
7	Deo Vallabh Sudhir	24VL012	VLSI	SE
8	Pradeep D Sanap	24CO095	Computer	SE
9	Sushil Ashok Pote	24CO125	Computer	SE
10	Trupti Chougule	24ET015	E&TC	SE
11	Aayush Wanjle	25ME003	Mechanical	FE
12	Sarved Patil	25MS053	Mechanical Sandwich	FE
13	Pranav Gatkul	25ME040	Mechanical	FE

Competitions:

SAE ISS Aero Design Challenge
(Micro Class)

SAE Aero Design West
(Advanced Class)

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