



Agnel Charities

Fr. Conceicao Rodrigues Institute of Technology, Vashi

(An Autonomous Institute & Permanently Affiliated to University of Mumbai)



AeroFCRIT

AeroFCRIT Policy Document

Establishment:

- 2019: AERO FCRIT was established under the SAE India Student Chapter.
- 2019: Team Garuda established for Fixed-Wing UAV development.
- 2022: Team Thestral established for Multirotor UAV development.

Objectives:

1. Design, develop, and fabricate unmanned aerial vehicles (UAVs) and fixed-wing aircraft.
2. Apply engineering principles in the design, analysis, manufacturing, testing, and operation of aerospace systems.
3. Encourage innovation, research, and problem-solving in aerospace engineering and autonomous technologies.
4. Provide practical exposure to CAD, aerodynamics, avionics, electronics, programming, and flight testing.
5. Promote participation in national aerospace competitions to enhance technical excellence.
6. Develop leadership, project management, communication, and teamwork skills through collaborative engineering projects.
7. Facilitate interaction with industry experts, researchers, and alumni to bridge the gap between academia and industry.
8. Foster multidisciplinary collaboration among students to develop innovative and sustainable aerospace solutions.
9. Promote professionalism, safety, and ethical engineering practices in all club activities.

Faculty Advisor:

- Prof. Afzal Ansari (Mechanical Department).
- Dr. Shushil Thale (Electrical Department).



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Competitions

- DDC (Drone Development Competition) organised by SAE India.
- ADDC (Autonomous Drone Development Competition) organised by SAE India.
- IIT Bombay Techfest
- IIT Roorkee
- Aerothon by SAE India

Activities organised by AeroFCRIT

- CAD Design workshops – ETAMAX
- Seminars
- Other technical workshops

Achievements

Year	Team	Competition	Achievement
2023	Thestral	SAEISS ADDC	AIR 1 – Overall Performance
2024	Garuda	SAEISS DDC	AIR 9 – Overall Performance
			AIR 2 – Best CFD Analysis
	Thestral	SAEISS ADDC	AIR 7 – Overall Performance
		IIT Roorkee	AIR 3 – Overall Performance
2025	Garuda	SAEISS DDC	AIR 5 – Overall Performance
			AIR 3 – Best Aerodynamic Analysis (CFD)
			AIR 4 – Technical Presentation
	Thestral	SAEISS ADDC	AIR 1 – Overall Performance
			AIR 3 – Safe Design System
2026	Garuda	SAEISS DDC	AIR 7 – Overall Performance
		Amitech Prkalp	AIR 1 – Overall Performance
	Thestral	SAEISS ADDC	AIR 1- Safe Design System
			AIR 5 – Overall Performance



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Core Rules and Expectations

1. Membership

- Membership is open to eligible 2nd and 3rd year students from designated engineering departments.
- Selection is based on the club's recruitment process, including application, assessment, and interview.

2. Conduct

- Members shall uphold discipline, professionalism, punctuality, and mutual respect.
- Teamwork and a positive learning environment shall be encouraged at all times.

3. Participation

- Members shall contribute to technical, managerial, or club-related activities as assigned.
- Club equipment and resources must be handled responsibly.

4. Roles and Responsibilities

- Roles shall be assigned based on skills, commitment, and project requirements.
- Members shall respect decisions made by the Faculty Advisor and Team Leads.

5. Attendance

- Regular attendance at meetings and project sessions is expected.
- Absences must be communicated in advance whenever possible.

6. Official Communication

- Official communication shall be made only through authorized representatives.

7. Media and Confidentiality

- Confidential club information shall not be shared without prior approval.

8. Disciplinary Action

- Violation of club policies or misconduct may result in disciplinary action, including suspension or termination of membership.



AeroFCRIT

Selection Procedure

- Eligibility: SY & TY students having no live backlogs and overall CGPI above 6.5
- Branches:
 - ↓ Mechanical Engineering
 - ↓ Electrical Engineering
 - ↓ Computer Engineering
 - ↓ Electronics and Telecommunication (EXTC)
 - ↓ Computer Science Engineering (CSE)

Step	2nd Year Students	3rd Year Students
1.	Fill out the online application form and submit an updated resume.	Fill out the online google form.
2.	Attend the orientation and training sessions (online and offline).	Submit an updated resume along with the form.
3.	Complete the assigned technical and team-based tasks.	Shortlisted candidates will be directly called for interview.
4.	Candidates will be shortlisted based on their training participation and task performance.	—

Selection of Office Bearers

The club maintains a structured leadership team to ensure smooth execution of its operations and initiatives. Office bearers are selected based on merit, experience, and leadership potential.

Sr. No.	Process Step	Details
1.	Oversight	The Faculty In-Charge oversees and conducts the entire selection process.
2.	Eligibility	Only eligible 3rd-year members can apply for leadership/committee positions.
3.	Application Requirement	Applicants must submit: – The position they are applying for – A brief Statement of Purpose – An updated Resume
4.	Interview Process	Individual interviews conducted by the Faculty In-Charge.
5.	Final Selection	Made solely at the discretion of the Faculty In-Charge, based on interview performance and club engagement.



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Office Bearers

Sr. No	Name	Branch	Roll No.	Designation
1.	Yuvraj Nalavade	Mech-5A	2024167	Garuda Captain
2.	Vedang Vaishampayan	Mech-5B	2024255	Garuda Vice-Captain
3.	Vinay Desai	EXTC-5	3024114	Thestral Captain
4.	Aditya Salgaonkar	Comp-5B	1024241	Thestral Vice Captain
5.	Shreyas Chavan	EXTC-5	3024112	PR Head
6.	Rucha Manorkar	Elect-5	4024127	Documentation Head
7.	Yash Patil	Elect-5	4024136	Sponsorship Head

Total Number of Active Student Members: 34

Yuvraj Nalavade
Team Captain Garuda

Vinay Desai
Team Captain Thestral

Prof. Afzal Ansari
Faculty Advisor (Mech)

Dr. Sushil Thale
Faculty Advisor (Elect)