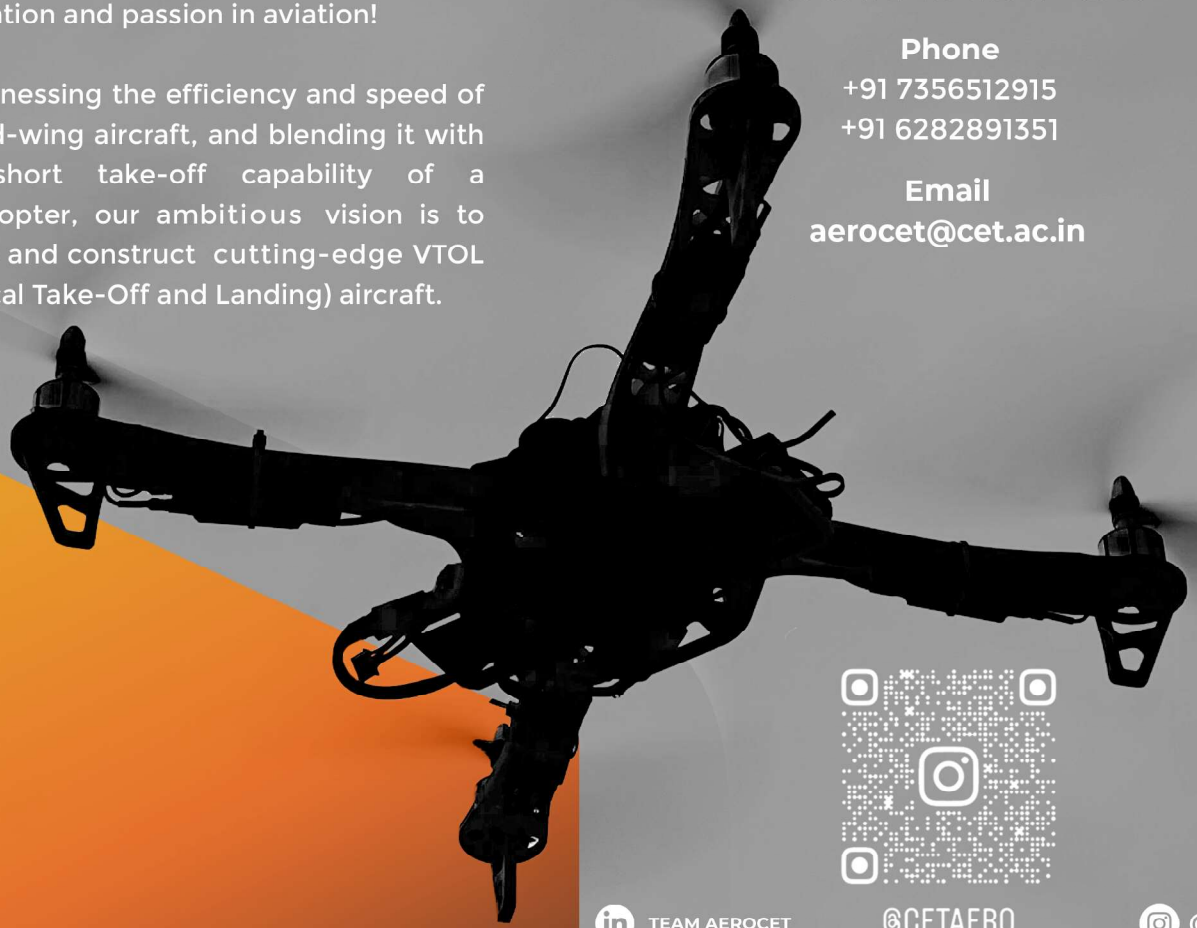
ABOUT AEROCET

AeroCET - Igniting the Sky with Enthusiasm! We are a thriving aero-modeling club from College of Engineering Trivandrum, engaging in exciting projects, competitive events, and inspiring activities within the college community. Partner with us to promote innovation and passion in aviation!

By harnessing the efficiency and speed of a fixed-wing aircraft, and blending it with the short take-off capability of a quadcopter, our ambitious vision is to create and construct cutting-edge VTOL (Vertical Take-Off and Landing) aircraft.

Leveraging our expertise in both domains, we aim to push the boundaries of aviation technology and revolutionize aerial mobility.



CONTACT US

Phone
+91 7356512915
+91 6282891351

Email
aerocet@cet.ac.in

TEAM AEROCET @CETAERO @cetaero

AEROCET

AIR 3 FOR BEST TECHNICAL DESIGN REPORT

SAE ISS AUTONOMOUS DRONE DEVELOPMENT CHALLENGE 2024

PROJECTS

Sports model
As an experimentation, we successfully designed a micro-class sport model fixed-wing aircraft, weighing less than 1.5kg.

Multi purpose Drone
We designed and fabricated a Drone which can hoist flag providing a modern solution for flag presentations acheiving a mile stone in Autonomous Drone design.

Trainer planes
We design and fabricate durable trainer planes with a Pusher configuration, ensuring fast and cost- effective learning for our members.

COMPETITIONS

01 **SAE DDC**
This year we are participating in the SAE ISS Drone Devlopment Challenge. We successfully fabricated the RC Plane for the competition and tested for flight. The design is unique and was modelled nby thorough analysis and

02 **SAE ADDC**
We won a stunning AIR 3 for the best technical design report in SAE ISS Autonomous Drone Development Challenge 2024. The club has participated in this event for the first time.

03 **Other Aerodesign competetions**
In addition to SAE competitions, we actively participate in RC plane and drone competitions at events like Tathva and Conscientia, showcasing our passion for aviation technology.

CLUB ACTIVITIES

RC Plane Workshops
AEROCET organized RC Plane workshops for school students as a part of EXPLORLIFE Sumercamp in Kochi and Trivandrum.

Articulated wings
As a side project, we fabricated an electrically actuated articulated wing using the Watt mechanism and aluminum rods as links.

Helping other students
AEROCET has consistently extended its support to fellow students in building aircraft.

Workshop
During Drishti 2022 and 2024, AeroCET hosted an offline 'RC Aircraft Workshop', where 12 teams built their own RC planes using provided kits.