

ADMISSIONS OPEN FOR AY 2026-27



Adhiyamaan College of Engineering

(An Autonomous Institution)

Dr.M.G,R Nagar, Hosur 635130

2601
Counselling Code

Department of

Aeronautical Engineering



ABOUT THE DEPARTMENT

Established in 2009, the Department of Aeronautical Engineering prepares engineers for success and leadership in the **Conception, Design, Implementation, and Operation of Aerospace and related Engineering systems**. Department offers unique opportunities to contribute to the future of Aerospace, Communications, and Exploration. Our focus on **Practical knowledge** and Training ensures students excel in all fields.

VISION

To be a centre of excellence in Aeronautical Engineering Education and Research, Producing Globally competent, Ethically responsible, and Innovation driven Aerospace professionals who contribute to the advancement of Aviation and Space Technologies.

MISSION

- M1** To provide Strong Theoretical foundations and Practical Skills through Outcome-Based Teaching-Learning processes in Aeronautical engineering.
- M2** To promote Research, Innovation, and Interdisciplinary Projects in Emerging Aerospace Technologies.
- M3** To develop Industry-Institute partnerships for Hands on Training, Internships and Real-Time Problem solving.
- M4** To inculcate Ethical Values, Leadership Qualities, and commitment to Lifelong learning for sustainable Technological development.

ACCREDITATION DETAILS

- ✓ **AICTE Approved** – **B.E. Aeronautical Engineering** program is offered under the guidelines of the **All India Council for Technical Education**.
- ✓ **NAAC Accredited with “A” Grade** – The institution is accredited with a prestigious NAAC “A” Grade, reflecting excellence in teaching-learning, research culture, infrastructure, and student development.
- ✓ **Affiliated to Anna University (Autonomous Institution)** – Ensures academic quality, modern curriculum, and continuous improvements through autonomy.
- ✓ Follows **Outcome-Based Education (OBE)** and continuous assessment practices to match global engineering education standards.

MAJOR FOCUS AREAS

- ✈ Aerodynamics and Wind Tunnel Studies
- ✈ Aircraft Structures, Materials & Stress Analysis
- ✈ Propulsion Systems & Jet Engine Fundamentals
- ✈ Aircraft Systems, Maintenance & MRO Technology
- ✈ Unmanned Aerial Vehicles (UAV) & Drone Technology
- ✈ Aerospace Design, CAD/CAM, CFD & Simulation
- ✈ Composite Materials & Advanced Manufacturing in Aerospace
- ✈ Emerging technologies in Aerospace Automation and AI-based Controls

KEY ACADEMIC STRENGTHS

- ✓ Highly qualified faculty
- ✓ Outcome-Based Teaching-Learning methodology
- ✓ Well-equipped and advanced laboratories,
- ✓ Strong research culture
- ✓ Industry-oriented curriculum

UNIQUE STRENGTHS

- ✓ Highly qualified and experienced faculty team with **PhD holders** and domain experts in Aerodynamics, Aircraft Structures, Propulsion, UAV Systems, and Aircraft Maintenance.

Well-Equipped & Advanced Laboratories

- ✓ Aerodynamics Laboratory
- ✓ Aircraft Propulsion Laboratory
- ✓ Aircraft Structures Laboratory
- ✓ Aero Engine Repair Laboratory
- ✓ CAD / CFD Simulation Laboratory
- ✓ UAV / Drone Laboratory
- ✓ Aircraft Structure Repair Laboratory



Strong Industry Tie-ups & MoUs

- ✓ Collaboration with major Aerospace and Aviation organizations including **HAL, NAL, DRDO, ISRO, AIRWORKS, TAAL, Aerospace Engineers**, and others.
- ✓ MoUs with leading tech and aerospace companies such as **Garuda Aerospace, Grahaa Space, Astrova Aerospace, Aerospace Engineers Pvt. Ltd., Aero-in, and Taneja Aerospace**, enabling student training, internships, and projects.
- ✓ Students gain exposure to **current aerospace technologies, MRO practices, UAV applications, and R&D activities**.

Research Culture & Funded Projects

- ✓ Active research groups working in EV, Aerodynamics, Composites, Propulsion, UAV Systems, and Simulation.
- ✓ Faculty and students involved in **innovative projects, prototype development, journal publications, and technical conferences**.

Skill-Based Training & Certification Programs

- ✓ **Aviation and Aircraft Maintenance and EV Design** certification courses offered to enhance practical skillsets.
- ✓ Software training and certifications in **CATIA, ANSYS, SolidWorks, MATLAB, CFD tools**, and Manufacturing.

DEPARTMENT HIGHLIGHTS

Major Events Conducted

Seminars on **Electric Vehicle (EV) Design**, Aerospace Applications, and Emerging Technologies.

Industrial visit to **Visvesvaraya Industrial & Technological Museum**, Bengaluru.

Diamond NDT Workshop training students in Non-Destructive Testing techniques.

Technical Clubs

✓ **SAE Aero Club** – for aeromodelling, design competitions, and project building.

✓ **Aviation Club** – focusing on practical learning through UAV and other models



Industrial Visit: Diamond NDT

ACHIEVEMENTS

Faculty Achievements

✓ Organized multiple **workshops, training programs, seminars**, and industry-oriented events.

✓ Secured **Research Funding** and contributed to Institutional Projects.

✓ Published Research papers in **Thermal Engineering, Materials, Aerodynamics, and Aircraft structures**.

Student Achievements

✓ Winners at **Zonal and Inter-Zonal level Cricket and Football** tournaments.

✓ Active participation in UAV Competitions, Aeromodelling Events, and Technical Expos.

✓ Student Training in Software like **STK, Fusion360**



✓ Drone Pilot DGCA license certification

Research Publications

✓ Student and faculty publications in domains such as **Thermal Engineering, Composite Materials, Aerodynamics, and Structural Analysis**.

Competition Results

✓ Students have excelled in Design Contests, Paper presentations, Mini-Project Expos, and Drone Competitions.

CURRICULUM OVERVIEW

Industry-Focused / Skill-Based Courses

- Aviation and Aircraft Maintenance Certification Courses
- CAD/CAM/CFD Skill Programs – CATIA, ANSYS, SolidWorks, MATLAB
- Drone Assembly & Operations Training
- Composite Manufacturing Techniques
- Value-Added Courses aligned with aerospace industry expectations



Honors & Minor Degree Programs

- Honors Degree in specialized Aeronautical domains
- Minor Degree options in Public Administration and Entrepreneurship programs

CENTRE OF EXCELLENCE / FACILITIES

Specialized Labs & Centres

✓ UAV / Drone Centre of Excellence

✓ EV Skill Development Centre

Industrial Training / Internships

Industrial Training

Hands-on technical exposure for students through training at:

- ✓ **HAL** – Aircraft manufacturing and overhaul
- ✓ **NAL** – Aerospace R&D and prototype development
- ✓ **DRDO** – Defence aerospace systems and research activities
- ✓ **ISRO** – Space systems, satellite technologies, and testing units.

Internships

Internship opportunities available with:



✓ **TAAL (Taneja Aerospace)** – Aircraft manufacturing & Maintenance

✓ **AIRWORKS** – MRO and Aircraft Maintenance Operations

✓ **FLYTUTOR** – UAV training, Drone Operations & Pilot Certification

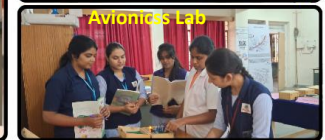
✓ **Aerospace Engineers** – Aerospace Parts Manufacturing.



Students Projects



Parent-Teachers Meeting



Avionics Lab



Industrial drone demonstration



MOU with Aeroin



Drone Pilot Training



Students with Drone Pilot License

For Admission/ Enquiry Contact:

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