

# 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



## 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.



For Admission/ Enquiry Contact:

Dr. K. Senthil Kumar M.Tech., Ph.D

Professor and Head

9894333716

hod\_aero@adhiyamaan.ac.in

Dean Academics

9150147751

deanacademic@adhiyamaan.ac.in

Principal

8883562627

principal@adhiyamaan.ac.in