

B.E. AERONAUTICAL ENGINEERING

The Department of Aeronautical Engineering started functioning in the year 2005-06. The department has well equipped laboratory facilities and faculty members to prepare the students to meet future requirement in the field of aviation. The department is making great efforts in imparting knowledge and skill to meet the aircraft industry expectations.

LABORATORY FACILITIES

To meet the curriculum requirements, the following laboratory facilities are available in the department.

SL.NO	NAME OF THE LABORATORY
1.	Aircraft Structures Lab I & II
2.	Aerodynamics Lab
3.	Propulsion Lab
4.	CAD/CAM/ Simulation Lab
5.	Aero Engine repair Lab
6.	Airframe Lab
7.	Flight Integration Systems & Control Lab
8.	Aircraft System Lab
9.	Simulation Lab & Aero Modeling

In addition to the above mentioned laboratory facilities, additional research labs were also made part of the department facilities to initiate research interest in students.

- Supersonic Jet facility.
- Hybrid Rocket Motor.
- Composites Fabrication and testing facilities.
- A computational fluid dynamics and structural analysis laboratory with standard software has been established.

JOB'S ARENA:

Career opportunities for the course exist in the design, manufacture, maintenance of aircraft and technical publication. Specific nature of job includes design, drafting, FEA, CFD and manufacturing. Openings may also be found in the many companies involved in designing and manufacturing major sub-units of aircraft such as engines, structural parts, avionics or environmental control systems. In India Aeronautical engineers are mostly employed by HAL, NAL, DRDO, ADA, ADE, GTRE, ISRO, Airbus, Boeing, BrahMos Aerospace Limited and similar organizations. With on job training in the flying clubs or airline you can also write the DGCA license examinations to qualify as a maintenance engineer. Aeronautical engineers are also preferred by software industries to work in their engineering service divisions like design, development and analysis. Many service industries like Capgemini, UTC Aerospace Systems, GGS and similar organizations are offering Aeronautical Technical Publication Jobs.

SCOPE OF HIGHER EDUCATION:

Graduates may consider going on to higher studies or Ph.D programme in India or abroad.

INDUSTRY INSTITUTE INTERACTION CELL:

We regularly interact with scientists and engineers from HAL, NAL, ADA, GTRE, IITM, Anna University, Mahindra Satyam, ISRO, General Electric, Airline, TAAL, IGCAR for guest lectures, project work, in plant training, series of lectures on special upcoming topics.

INTERNSHIP:

Our students are encouraged to take internships at various facilities around the country. Some of the R&D institutions, where our students underwent internship programs are General Electric, Research labs at IITM, HAL, Air India, Jet Airways, TAAL etc.

IN-PLANT TRAINING:

In plant training programs are made part of every semester to enhance the learning experience of students. Some of the training programs organized are flight training program at IIT Kanpur, Non Destructive Testing at IGCAR - Kalpakkam, Multi Skill Program at Advanced Training Institute - Guindy.

FUNDED RESEARCH PROJECTS:

The following are the funded projects carried out in the department.

- Study of Supersonic Jet Characteristics
- Acoustic measurements of High-speed jets

