

B.Tech > Aeronautical Engineering



Duration : 4year

Eligibility:

- Passed 10+2 examination with Physics and Mathematics as compulsory subjects along with one of the Chemistry/Biotechnology/Biology/Technical vocational subjects.
- Obtained at least 45% marks (42.75% in case of candidates belonging to reserved category) in the above subjects taken together.

Engineers work as part of a team that maintains the aircrafts and ensures high level of technical precision. Main thrust of the engineering profession lies in design, development, maintenance & teaching of aeronautics.

- Aircraft engineers in civil aviation normally specialise in aeronautical mechanical or electronic engineering.
- Mechanical engineers service and overhaul engines and airframes.
- Aeronautical electronic engineers specialise in the maintenance of instruments, electrical and electronic equipment, navigation, radar and radio communication.
- Flight engineers make pre-flight inspections and are responsible for the efficient performance of the aircraft during the flight. They diagnose and deal with any system failures, manage repairs, report any defects to maintenance and later check that they have been dealt with. They may also be responsible for refuelling.
- Engineers carry out routine maintenance on the ground during aircraft overhauling at airports
- They respond to reports from air crew of any difficulties experienced during flights, repairing and making corrections.
- They also do maintenance and overhaul of aircraft in hangers and workshops when an aircraft is due for its regular inspection and checks.
- They complete worksheets for checks done and these are certified by themselves if they are licensed to do so, or by a qualified supervisor. Aircraft engineers in civil aviation normally specialise in aeronautical mechanical or electronic engineering.

Aeronautical Engineering with certification in Avionics Design

Avionics engineers work in the aerospace industry. Their work encompasses tasks related to designing and programming electrical systems on board spacecraft, aircraft and satellites. Avionics engineers provide computer system support for all communication, navigation and guidance systems and perform testing to ensure that those systems are working properly.

Job Description

Working in the aerospace engineering subspecialty field of avionics, avionics engineers design and develop aircraft and spacecraft avionic instrumentation. They also conduct research to address problems associated with flight safety systems, landing gear and electronic navigation systems.



Career Prospects:

Earnings

2.34 Lakhs to 49.42 Lakhs per annum

(Salary data sourced from PayScale.com)

Earnings Details

Engineers in government organizations, such as HAL, NAL are paid official scales while those in the private sector are paid according to the scales decided by the management of the company. Airline professionals get fringe benefits of free travel for self and family as well.

- Airlines
- Corporations
- Flying clubs
- Private airlines
- Government owned air services
- Aircraft manufacturers
- Defence Research and Development Organisations
- Aeronautical Laboratories
- Aeronautical Development Establishments
- Department of Civil Aviation
- Defence services
- Many more....



Major Recruiting Companies

- Aeronautical Development Establishment
- Air India
- Civil Aviation Department
- Defence Research and Development Laboratories
- Helicopter Corporation of India
- Hindustan Aeronautical Ltd (HAL)
- National Aeronautical Lab (NAL)
- Pawan Hans
- Indian Air Force & many more.....