

I & II Semesters (Common to all the branches)

Physics Cycle

- Engineering Mathematics –I
- Physics
- Communicative English
- Problem Solving Through Programming
- Engineering Graphics
- Physics Lab
- Problem Solving Through Programming Lab
- Communicative English Lab

Chemistry Cycle

- Engineering Mathematics – II
- Chemistry
- Basics of Electrical Engineering
- Workshop Practice
- Sociology and Elements of Indian History for Engineers
- Chemistry Lab
- Electrical Engineering Lab

III Semester

- Mathematics-III
- Economics for Engineers
- Engineering Materials & Manufacturing Processes
- Fluid Mechanics
- Introduction to Aerospace Vehicles & Systems
- Engineering Mechanics
- Machine Shop and Precision Engineering Lab
- Fluid Mechanics Lab
- Non-credit Mandatory courses- Energy Study

IV Semester

- Thermal Science
- Aerodynamics
- Measurements & Instrumentation for Aerospace
- Data Structures using C
- CAD Lab using CATIA v5
- Aerodynamics Lab
- Measurements & Instrumentation Lab
- Business Communication and Presentation Skills

V Semester

- Aircraft Propulsion
- Flight Mechanics-I (Performance)
- Aircraft Structures
- Introduction to Helicopters
- Matlab with Applications
- Propulsion Lab
- Aerospace Structures Lab-I

VI Semester



- Avionics
- Control Systems
- Composite Materials
- Aerospace Structures Lab-II
- Flight Lab Course

Elective -I

- Rocket Propulsion
- Flight Mechanics-II (Stability and Control)

Elective -II

- Introduction to Fracture Mechanics
- Introduction to Finite Element Methods

VII Semesters



- Aerospace Design
- Vibration of Elastic Systems
- Elective – III
- Elective – IV

Elective – III

- Introduction to Computational Fluid Dynamics
- Aircraft Systems
- Open Elective – I
- Open Elective – II
- Project work – I
- Computational Analysis Lab

Elective – IV

- Air Traffic Management
- UAV Systems

VIII Semesters



- Open Elective – III
- Open Elective - IV
- Technical Seminar
- Internship / Project work - II

