

B-Tech Degree- Aeronautical Engineering

Semester I

- 1 English-I
- 2 Indian Constitution and Ethics
- 3 Mathematics-I
- 4 Chemistry
- 5 Electrical Technology
- 6 Mechanics
- 7 Introduction to Manufacturing Process
- 8 Chemistry(Practical)
- 9 Electro Technology(Practical)

Semester II

- 1 English-II
- 2 Environmental Studies
- 3 Mathematical-II
- 4 Applied Physics
- 5 Fundamental of Computers
- 6 Basic Electronics
- 7 Engineering Drawing and Graphics
- 8 Applied Physics(Practical)
- 9 Basic electronics(Practical)

Semester III

- 1 Engineering Mathematics-II
- 2 Economics and Communication
- 3 Fluid Mechanics
- 4 Basic Thermodynamics
- 5 Elements of Aeronautics
- 6 Basic Strength of Materials
- 7 Basic Strength of Material Lab
- 8 Fluid Mechanics Lab

Semester IV

1	Engineering Mathematics-III
2	Gas Dynamics
3	Propulsion-I
4	Aerodynamics-I
5	Aircraft Structures –I
6	Electrical Technology & Machines
7	Structures Lab
8	Propulsion Lab-I

Semester V

1	Engineering Mathematics IV
2	Principles of Management
3	Computer Programming
4	Flight Dynamics-I
5	Aerodynamics-II
6	Propulsion-II
7	Wind Tunnel Lab
8	Propulsion Lab-II

Semester VI

1	Avionics
2	Experimental Aerodynamics
3	Aircraft Structures-II
4	Heat Transfer
5	Theory of Vibration
6	Elective-I
7	Heat Engines Lab
8	Aero Engines Lab

Elective I

1	Composite Structures
2	Fatigue and Fracture
3	Finite Elements Analysis
4	Operation Research
5	Ecology & Environment
6	Non Destructive Testin

Semester VII

- 1 Computational Fluid Dynamics
- 2 Experimental Stress analysis
- 3 Aircraft Design
- 4 Flight Dynamics-II
- 5 Aircraft Systems and Instrumentation
- 6 Experimental Stress Analysis Lab
- 7 Vibration Lab
- 8 Seminar **& Mini** Project

Elective II

- 1 Theory of plates and shells
- 2 Advanced Materials in Aircraft Manufacturing
- 3 Failure analysis
- 4 Helicopter Aerodynamics
- 5 Optimization Methods in Design
- 6 Rotor Dynamics

Semester VIII

- 1 Rockets & Missiles
- 2 Introduction to space Technology
- 3 Air Transportation & Aircraft Maintains
- 4 Elective III
- 5 Elective IV
- 6 Aerodynamics Lab
- 7 Project
- 8 Viva voce

Elective III

- 1 Project Management & TOM
- 2 Air Navigation
- 3 Aircraft rules & Regulations
- 4 Industrial Aerodynamics
- 5 Acoustics & Noise Control
- 6 Transport Process in Reacting Flows

Elective IV

- 1 Boundary Layer Theory
- 2 Disaster Management
- 3 Cryogenics
- 4 Advanced Strength of Materials
- 5 High Temperature Gas Dynamics
- 6 Turbo Machines