B-Tech Degree- Aeronautical Engineering

Semester I

1	Engineering Mathematics
2	Engineering Physics
3	Engineering Chemistry
4	Engineering Graphics
5	Engineering Mechanics

Semester II

1	Basic Civil Engineering
2	Basic Mechanical Engineering
3	Basic Electrical and Electronics Engineering
4	Basic Communication and Information Engineering
5	Engineering Workshops

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 Testing

Semester VII

1	Computational Fluid Dynamics
2	Experimental Stress analysis
3	Aircraft Design
4	Flight Dynamics-II
5	Aircraft Systems and Instrumentation
6	Elective –II
7	Experimental Stress Analysis Lab
8	Vibration Lab
9	Seminar
10	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