

# M.E. AERONAUTICAL ENGINEERING

## SEMESTER I

### THEORY

1	MA9115	Applied Mathematics
2	AE9111	Aerodynamics
3	AE9112	Aircraft Structures
4	AE9113	Aerospace Propulsion
5	AE9114	Theory of Vibrations
6	E1	Elective I

### PRACTICAL

7	AE9115	Structures Laboratory
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## SEMESTER II

### THEORY

1	AE9121	Flight Mechanics
2	AE9122	Finite Element Methods
3	AE9123	Computational Fluid Dynamics in Aerospace Engineering
4	E2	Elective II
5	E3	Elective III
6	E4	Elective IV

### PRACTICAL

7	AE9124	Aerodynamics Laboratory
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## **SEMESTER III**

### **THEORY**

1 E5 Elective V

2 E6 Elective VI

### **PRACTICAL**

3 AE9131 Project work Phase I

## **SEMESTER IV**

1 AE9141 Project work Phase II

### LIST OF ELECTIVES

1. AE9150 Experimental Stress Analysis
2. AE9151 Numerical Heat Transfer
3. AE9152 Boundary Layer Theory
4. AE9153 Aircraft Design
5. AE9154 Industrial Aerodynamics
6. AE9155 Helicopter Aerodynamics
7. AE9156 Theory of Plates and Shells
8. AE9157 Structural Dynamics
9. AE9158 Aero elasticity
10. AE9159 High Temperature Problems in Structures
11. AE9160 Fatigue and Fracture Mechanics
12. AE9161 Theory of Elasticity
13. AE9162 Hypersonic Aerodynamics
14. AE9163 High Temperature Gas Dynamics
15. AE9164 Advanced Propulsion Systems
16. AE9165 Experimental Methods in Fluid Mechanics
17. AE9166 Wind Engineering

## 18. AE9167 Wind Tunnel Techniques