

Teaching & Examination Scheme
II Year- III Semester : Aeronautical Engineering

| SN | Category | Course Code | Course Title | Hours Per Week | | | Marks | | | Cr | |
|--------------|---------------|---------------------|---|----------------|---|----|-------|-----|-------------|-------------|------------|
| | | | | L | T | P | IA | ETE | Total | | |
| 1 | BSC | 3AN2-01 | Advanced Engineering Mathematics-I | 3 | 0 | 0 | 30 | 120 | 150 | 3 | |
| 2 | HSMC | 3AN1-02/ 3AN1-03 | Technical Communication/ Managerial Economics and Financial Accounting | 2 | 0 | 0 | 20 | 80 | 100 | 2 | |
| 3 | ESC | 3AN3-04 | Engineering Thermodynamics | 2 | 1 | 0 | 30 | 120 | 150 | 3 | |
| 4 | PCC | 3AN4-05 | Incompressible Fluid Mechanics | 3 | 1 | 0 | 40 | 160 | 200 | 4 | |
| 5 | | 3AN4-06 | Introduction to Aeronautics | 2 | 0 | 0 | 20 | 80 | 100 | 2 | |
| 6 | | 3AN4-07 | Mechanics of Solids | 3 | 0 | 0 | 30 | 120 | 150 | 3 | |
| 7 | | 3AN4-21 | Incompressible Fluid Mechanics Lab | 0 | 0 | 2 | 30 | 20 | 50 | 1 | |
| 8 | | 3AN4-22 | Introduction to Aeronautics Lab | 0 | 0 | 2 | 30 | 20 | 50 | 1 | |
| 9 | | 3AN4-23 | Mechanics of Solids Lab | 0 | 0 | 2 | 30 | 20 | 50 | 1 | |
| 10 | | 3AN4-24 | Object Oriented Programming Lab | 0 | 0 | 3 | 45 | 30 | 75 | 1.5 | |
| 11 | | 3AN4-25 | CAD Lab | 0 | 0 | 3 | 45 | 30 | 75 | 1.5 | |
| 12 | Training Exam | 3AN7-30 | Training Exam | | | | 30 | 20 | 50 | 1 | |
| 13 | SODE CA | 3AN8-00 | Social Outreach, Discipline & Extra Curricular Activities | | | | | | | 25 | 0.5 |
| Total | | | | 15 | 2 | 12 | | | 1225 | 24.5 | |

L = Lecture, **T** = Tutorial, **P** = Practical, **IA**=Internal Assessment, **ETE**=End Term Exam, **Cr**=Credits

Teaching & Examination Scheme
II Year- IV Semester : Aeronautical Engineering

| SN | Category | Course Code | Course Title | Hours Per Week | | | Marks | | | Cr | |
|--------------|-------------|---------------------|---|----------------|---|----|-------|-------------|-------------|------------|------------|
| | | | | L | T | P | IA | ETE | Total | | |
| 1 | BSC | 4AN2-01 | Data Analytics | 2 | 0 | 0 | 20 | 80 | 100 | 2 | |
| 2 | HSMC | 4AN1-03/ 4AN1-02 | Managerial Economics and Financial Accounting/Technical Communication | 2 | 0 | 0 | 20 | 80 | 100 | 2 | |
| 3 | ESC | 4AN3-04 | Introduction to Digital Electronics | 2 | 0 | 0 | 20 | 80 | 100 | 2 | |
| 4 | PCC/P EC | 4AN4-05 | Gas Dynamics | 3 | 1 | 0 | 40 | 160 | 200 | 4 | |
| 5 | | 4AN4-06 | Aircraft Structures-I | 3 | 1 | 0 | 40 | 160 | 200 | 4 | |
| 6 | | 4AN4-07 | Aircraft Materials and Processes | 3 | 0 | 0 | 30 | 120 | 150 | 3 | |
| 7 | | 4AN4-21 | Gas Dynamics Lab | 0 | 0 | 2 | 30 | 20 | 50 | 1 | |
| 8 | | 4AN4-22 | Aircraft Materials and Processes Lab | 0 | 0 | 3 | 45 | 30 | 75 | 1.5 | |
| 9 | | 4AN4-23 | Advanced Programming using MATLAB | 0 | 0 | 4 | 20 | 80 | 100 | 2 | |
| 10 | | 4AN4-24 | Professional Communication Skills Lab | 0 | 0 | 3 | 45 | 30 | 75 | 1.5 | |
| 11 | SODEC A | 4AN8-00 | Social Outreach, Discipline & Extra Curricular Activities | | | | | | | 25 | 0.5 |
| | | | | 15 | 2 | 12 | | | | | |
| Total | | | | | | | | 1175 | 23.5 | | |

L = Lecture, **T** = Tutorial, **P** = Practical, **IA**=Internal Assessment, **ETE**=End Term Exam, **Cr**=Credits

B. Tech. Honors in Aeronautical Engineering (Additional Credits)

A student will be eligible to get **B Tech, Honors in Aeronautical Engineering**, if he/she completes additional 20 credits. These could be acquired through MOOCs courses.

Suggestion for courses of B. Tech., Honors in Aeronautical Engineering

| S. No. | Category | Course Code | Course Title | Credits |
|--------------|----------|-------------|---|-------------------------|
| 1 | MC | AN9-01 | Introduction to Airplane performance https://swayam.gov.in/courses/1316-introduction-to-airplane-performance | As per credit of course |
| 2 | | AN9-02 | Experimental Stress Analysis - An Overview https://swayam.gov.in/courses/1309-experimental-stress-analysis-an-overview | As per credit of course |
| 3 | | AN9-03 | Artificial Intelligence: Search Methods for Problem Solving https://swayam.gov.in/courses/1304-artificial-intelligence-search-methods-for-problem-solving | As per credit of course |
| 4 | | AN9-04 | Basics of Noise and Its Measurements https://swayam.gov.in/courses/1371-basics-of-noise-and-its-measurements | As per credit of course |
| 5 | | AN9-05 | Basics of Finite Element Analysis-I https://swayam.gov.in/courses/1372-basics-of-finite-element-analysis-i | As per credit of course |
| 6 | | AN9-06 | Mechanics, Heat, Oscillations and Waves https://swayam.gov.in/courses/1408-mechanics-heat-oscillations-and-waves | As per credit of course |
| 7 | | AN9-06 | Any other course as per the availability on Swayam website | As per credit of course |
| 8 | | AN9-06 | Any other course as per the availability on Swayam website | As per credit of course |
| Total | | | | 20 |