**ANNEXURE - I**

**M SCHEME**

**Implemented from 2017 - 2018**

**CURRICULUM OUTLINE**

**1092: DIPLOMA IN AERONAUTICAL ENGINEERING (FULL TIME)**

**THIRD SEMESTER:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.NO** | **SUBJECT** | **HOURS PER WEEK** | | | |
| **THEORY HOURS** | **TUTORIAL/DRAWING** | **PRACTICAL HOURS** | **TOTAL HOURS** |
| 39231 | Basics of Electronics & Microprocessor Engineering | 5 | - | - | 5 |
| 39232 | Aircraft materials and processes | 5 | - | - | 5 |
| 39233 | Basics of Thermodynamics and Fluid Mechanics | 5 |  | - | 5 |
| 39234 | Basics of Electronics & microprocessor practical | - |  | 5 | 5 |
| 39235 | Aircraft materials practical | - | - | 5 | 5 |
| *39236* | *Basics of Thermodynamics and Fluid Mechanics Practical* | *-* | *-* | *5* | *5* |
| 32034 | Computer Application & CAD Practical | - | - | 4 | 4 |
|  | Seminar |  | 1 | - | 1 |
|  | **TOTAL** | **15** | **1** | **19** | **35** |

**FOURTH SEMESTER:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.NO** | **SUBJECT** | **HOURS PER WEEK** | | | |
| **THEORY HOURS** | **TUTORIAL/DRAWING** | **PRACTICAL HOURS** | **TOTAL HOURS** |
| 39241 | Basics of Electrical Engineering | 5 | - | - | 5 |
| 39242 | Components of Aircraft Structures | 5 | - | - | 5 |
| 39243 | Aerodynamics | 5 | - | - | 5 |
| 39244 | Testing and Measurements | 4 | - | - | 4 |
| 39245 | Aircraft Structure practical | - | - | 5 | 5 |
| 39246 | Basics of Electrical Engineering practical | - | - | 5 | 5 |
| 39247 | Aerodynamics practical | - | - | 5 | 5 |
|  | Seminar | - | 1 |  | 1 |
|  | **TOTAL** | **19** | **1** | **15** | **35** |

**FIFTH SEMESTER:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.NO** | **SUBJECT** | **HOURS PER WEEK** | | | |
| **THEORY HOURS** | **TUTORIAL/DRAWING** | **PRACTICAL HOURS** | **TOTAL HOURS** |
| 39251 | Aircraft System | 4 | - | - | 4 |
| 39252 | Pistol engine –Propulsion | 4 | - | - | 4 |
| 39253 | Introduction to Helicopter | 4 | - | - | 4 |
| 39254 | Advanced Airframe Structure | 4 | - | - | 4 |
| 39255 | Aircraft System practical | - | - | 4 | 4 |
| 39256 | Pistol engine –Propulsion practical | - | - | 4 | 4 |
| 39257 | Helicopter modelling practical | - | - | 6 | 6 |
| 30002 | Life Employability skill Practical | - | - | 4 | 4 |
|  | seminar | - | 1 | - | 1 |
|  | **TOTAL** | **16** | **1** | **18** | **35** |

**SIXTH SEMESTER:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.NO** | **SUBJECT** | **HOURS PER WEEK** | | | |
| **THEORY HOURS** | **TUTORIAL/DRAWING** | **PRACTICAL**  **HOURS** | **TOTAL HOURS** |
| 39261 | Gas Turbine Propulsion –I | 4 | - | - | 4 |
| 39262 | Gas Turbine Propulsion -II | 4 | - | - | 4 |
| 39263 | Aircraft maintenance & practice | 4 | - | - | 4 |
| 39264 | Industrial engineering & Management | 4 | - | - | 4 |
| 39265 | Gas Turbine Propulsion -I practical | - | - | 4 | 4 |
| 39266 | Gas Turbine Propulsion -II practical | - | - | 6 | 6 |
| 39267 | Aircraft maintenance & practice practical | - | - | 4 | 4 |
| 39268 | project | - | - | 4 | 4 |
|  | Seminar | - | 1 | - | 1 |
|  | **TOTAL** | **16** | **1** | **18** | **35** |