

# Aeronautical Engineering

## (Degree Level)

### AMAEI at par with BE / B Tech

#### Section A

<b>Semester I</b>	<b>A2</b> Fluid Mechanics <b>A4</b> Strength of Materials <b>A5</b> Engineering Thermodynamics
<b>Semester II</b>	<b>A1</b> Applied Mathematics I <b>A3</b> Basic Electronics <b>A6</b> Electrical Engineering
<b>Semester III</b>	<b>A7</b> Microprocessors & Software Engg. <b>A8</b> Introduction to Aeronautics <b>A9</b> Engineering Drawing & Design
<b>Semester IV</b>	<b>A10</b> Workshop Technology Workshop Training

#### Section B (Student has to choose any one stream)

##### (I) Aero-Mechanical Stream

<b>Semester V</b>	<b>AS1</b> Applied Mathematics - II <b>AS2</b> Aerodynamics <b>AS3</b> Aircraft Structures - I <b>AS4</b> Propulsion - I
<b>Semester VI</b>	<b>AS5</b> Aircraft Structures - II <b>AS6</b> Airplane Performance, Stability & Control <b>AS7</b> Aircraft Design <b>AS8</b> Propulsion - II
<b>Semester VII</b>	<b>AS9</b> Management of Systems One of the Electives Laboratory Training
<b>Semester VIII</b>	Professional Training

##### (II) Avionics Stream

<b>Semester V</b>	<b>LS1</b> Applied Mathematics - II <b>LS2</b> Aircraft General Systems <b>LS3</b> Avionics - I <b>LS4</b> Control Theory & Practices
<b>Semester VI</b>	<b>LS5</b> Avionics - II <b>LS6</b> Airplane Performance, Stability & Control <b>LS7</b> Maintenance of Radio & Comm Systems <b>LS8</b> Aircraft Instruments
<b>Semester VII</b>	<b>LS9</b> Management of Systems One of the Electives Laboratory Training
<b>Semester VIII</b>	Professional Training

#### Minimum qualification:

- 10 + 2 (Sci) pass with 50% marks each in MPC
- Polytechnic diploma pass (any stream) with minimum 50% aggregate
- BSc (MPC) pass with minimum 50% aggregate in each of the three subjects over the three years period.

#### (III) Maintenance & Production Stream (Electrical)

<b>Semester V</b>	<b>PS1</b> Airworthiness & Air Regulations <b>PS2</b> Aircraft Materials <b>PS3</b> Control Theory & Practices <b>PS4</b> Aircraft Production
<b>Semester VI</b>	<b>PS5</b> Production, Planning & Control <b>PS6</b> Airplane Performance, Stability & Control <b>PSL1</b> Maintenance of Electrical and Instrument Systems <b>PSL2</b> Maintenance of Radio & Comm Sys.
<b>Semester VII</b>	<b>PS7</b> Management of Systems One of the Electives Laboratory Training
<b>Semester VIII</b>	Professional Training

#### (IV) Maintenance & Production Stream (Mechanical)

<b>Semester V</b>	<b>PS1</b> Airworthiness & Air Regulations <b>PS2</b> Aircraft Materials <b>PS3</b> Control Theory & Practices <b>PS4</b> Aircraft Production
<b>Semester VI</b>	<b>PS5</b> Production Planning & Control <b>PS6</b> Airplane Performance, Stability & Control <b>PSM1</b> Maintenance of Powerplant & Systems <b>PSM2</b> Maintenance of Airframe & Systems
<b>Semester VII</b>	<b>PS7</b> Management of Systems One of the Electives Laboratory Training
<b>Semester VIII</b>	Professional Training

#### Eligibility Condition:

**For Section B** Student must have cleared all the subjects of Section A & completed the workshop Training