

**INDIANA AEROSPACE UNIVERSITY**

IAU Town Center Basak, Kagudoy Rd., Lapu-Lapu City

**BACHELOR OF SCIENCE IN AIRCRAFT MAINTENANCE TECHNOLOGY**

Revised Curriculum per CHED Memo Order No.93, S.2017

Effective Academic Year 2018-2019

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | **FIRST YEAR** | |  |  |  |  |  |
|  | FIRST SEMESTER |  |  |  |  |  | SECOND SEMESTER |  |  |  |  |
| **Subcodes** | **Descriptive Titles** | **Lec** | **Lab** | **Units** | **Pre Req** | **Subcodes** | **Descriptive Titles** | **Lec** | **Lab** | **Units** | **Pre Req** |
| ENGL 1 | English for the Professions | 3 | 0 | 3 |  | Gen Ed 4 | Purposive Communication |  |  |  |  |
| Gen Ed 1 | Contemporary World | 3 | 0 | 3 |  | Gen Ed 5 | Mathematics in the Modern World | 3 | 0 | 3 |  |
| Gen Ed 2 | Understanding the Self | 3 | 0 | 3 |  | Gen Ed 6 | Science & Technology & Society | 3 | 0 | 3 |  |
| Gen Ed 3 | Readings in Phil, History | 3 | 0 | 3 |  | Draw 110 | Engineering Drawing 2 | 3 | 0 | 3 | Draw 100 |
| Math 1 | Math Enhancement | 3 | 0 | 3 |  | AMT 120 LEC | A/C Materials, Construction and Repairs 1 (Non-metals) Lecture | 2 | 0 | 2 |  |
| Math 100 | Algebra | 3 | 0 | 3 |  | AMT 120 LAB | A/C Materials, Construction and  Repairs 1 (Non-metals) Laboratory | 0 | 6 | 2 |  |
| Draw 100 | Engineering Drawing 1 | 3 | 0 | 3 |  | AMT 121 LEC | A/C Powerplant 1 (Reciprocating Engine) Lecture | 3 | 0 | 3 |  |
| AMT 111 | Aviation Orientation | 2 | 0 | 2 |  | AMT 121 LAB | A/C Powerplant 1 (Reciprocating Engine) Laboratory | 0 | 3 | 1 |  |
| AMT 112 | Aviation Safety | 2 | 0 | 2 |  | AMT 122 | A/C Propellers | 2 | 0 | 2 |  |
| AMT113 | Theory of Flight | 3 | 0 | 3 |  | AMT 123 | Air Laws and Civil Air Regulations |  |  |  |  |
| Theology 1 | The Commandments & Morals | 1 | 0 | 1 |  | Theology 2 | The Creed | 1 | 0 | 1 | Theology 1 |
| PATHFIT1 | Physical Activities Towards Health and Fitness | 2 | 0 | 2 |  | PATHFIT2 | Exercise Based-Fitness Activities | 2 | 0 | 2 | PATHFIT1 |
| NSTP 1 | Civil Welfare Training Program 1 | 3 | 0 | 3 |  | NSTP 2 | Civil Welfare Training Program 2 | 3 | 0 | 3 | NSTP 1 |
| Total |  | **34** | **0** | **34** |  |  |  | **28** | **9** | **31** |  |
|  |  |  |  |  | **SECOND YEAR** | |  |  |  |  |  |
|  | FIRST SEMESTER |  |  |  |  |  | SECOND SEMESTER |  |  |  |  |
| **Subcodes** | **Descriptive Titles** | **Lec** | **Lab** | **Units** | **Pre Req** | **Subcodes** | **Descriptive Titles** | **Lec** | **Lab** | **Units** | **Pre Req** |
| Gen Ed 7 | Ethics | 3 | 0 | 3 |  |  |  | 3 | 0 | 3 |  |
| Gen Ed 8 | Environmental Science | 3 | 0 | 3 |  | Gen Ed 9 | Entrepreneurial Mind | 3 | 0 | 3 |  |
| AMT 210 | A/C Systems | 2 | 0 | 2 |  | Gen Ed 10 | Great Books | 3 | 0 | 3 |  |
| AMT 211 | A/C Fuel and Lubricants | 3 | 0 | 3 |  | AMT 221 LEC | A/C Intruments (Lec) | 2 | 0 | 2 | AMT 210 |
| AMT 212 LEC | A/C Electrical System (AC-DC) Lec | 2 | 0 | 2 |  | AMT 221 LAB | A/C Intruments (Lab) | 3 | 3 | 4 | AMT 210 |
| AMT 212 LAB | A/C Electrical System (AC-DC) Lab | 0 | 3 | 1 |  | AMT 222 LEC | Pwerplant Overhaul and Troubleshooting (Lec) | 2 | 0 | 2 | AMT 214 |
| AMT 213 LEC | A/C Material, Construction and Repairs 2 (Metals) Lec | 2 | 0 | 2 | AMT 120 | AMT 222 LAB | Pwerplant Overhaul and Troubleshooting (Lab) | 0 | 3 | 1 | AMT 214 |
| AMT 214 LEC | A/C Powerplant 2 (Turbine Engine ) Lec | 3 | 0 | 3 | AMT 121 | AMT 223 LEC | A/C Maintenance, Inspection, Repair and Servicing (Lec) | 3 | 0 | 3 | AMT 214 |
| AMT 214 LAB | A/C Powerplant 2 (Turbine Engine ) Lab | 0 | 3 | 1 | AMT 121 | AMT223 LAB | A/C Maintenance, Inspection, Repair and Servicing (Lab) | 0 | 3 | 1 | AMT 214 |
| Theology 3 | The Sacraments | 1 | 0 | 4 | Theology2 | AMT 224 | A/C Operation and Maintenance (Rotary Wing) | 2 | 0 | 2 |  |
| PATHFIT3 | Sports and Management Program | 2 | 0 | 2 | PATHFIT2 | AMT 225 LEC | A/C System Overhaul and Troubleshooting (Lec) | 2 | 0 | 2 | AMT 210 |
|  |  |  |  |  |  | AMT 225 LAB | A/C System Overhaul and Troubleshooting (Lab) | 0 | 3 | 1 | AMT 210 |
|  |  |  |  |  |  | Theology 4 | Bible Study | 1 | 0 | 1 | Theology 3 |
|  |  |  |  |  |  | PATHFIT 4 | Sports Coaching and Sports Officiating | 2 | 0 | 2 | PATHFIT3 |
| Total |  | **21** | **6** | **23** |  | |  | **30** | **3** | **31** |  |
|  |  |  |  |  | **THIRD YEAR** | |  |  |  |  |  |
|  | FIRST SEMESTER |  |  |  |  |  | SECOND SEMESTER |  |  |  |  |
| **Subcodes** | **Descriptive Titles** | **Lec** | **Lab** | **Units** | **Pre Req** | **Subcodes** | **Descriptive Titles** | **Lec** | **Lab** | **Units** | **Pre Req** |
| Research | Thesis Writing | 3 | 0 | 3 |  | Gen Ed 11 | Art Appreciation | 3 | 0 | 3 |  |
| Mech 310 | Engineering Mechanics | 5 | 0 | 5 |  | Gen Ed 12 | Life and Works of Rizal | 3 | 0 | 3 |  |
| AMT 310 | Thermodynamics | 3 | 0 | 3 |  | Mech 320 | Stregnth of Materials | 3 | 0 | 3 |  |
| AMT 311 | Introduction to Rocket Propulsion |  |  |  |  | AMT 322 LEC | A/C Mechanical Processes (Lec) | 3 | 0 | 3 |  |
| AMT 321 | Maintenance Planning and Production Control | 3 | 0 | 3 |  | AMT 322 LAB | A/C Mechanical Processes (Lab) | 0 | 3 | 1 |  |
| AMT 320 | Fundamentals of Aerodynamics | 3 | 0 | 3 |  | AMT 323 LEC | A/C Engineering Analysis and Repair  (Lec) | 2 | 0 | 2 |  |
|  |  |  |  |  |  | AMT 323 LAB | A/C Engineering Analysis and Repair (Lab) | 0 | 3 | 1 |  |
|  |  |  |  |  |  | AMT 324 | A/C Accident Investigation | 2 | 0 | 2 |  |
|  |  |  |  |  |  | AMT 411 | Subsonic Aerodynamics | 3 | 0 | 3 |  |
|  |  |  |  |  |  | AMT 412 | Structures 1 |  |  |  |  |
| Total |  | **20** | **0** | **20** |  |  |  | **22** | **6** | **24** |  |
|  |  |  |  |  | **FOURTH YEAR** | |  |  |  |  |  |
|  | FIRST SEMESTER |  |  |  |  |  | SECOND SEMESTER |  |  |  |  |
| **Subcodes** | **Descriptive Titles** | **Lec** | **Lab** | **Units Pre Req** | | **Subcodes** | **Descriptive Titles** | **Lec** | **Lab** | **Units** | **Pre Req** |
| AMT 420 | A/C Structures 2 | 3 | 0 | 3 | AMT 412 | AMT 422 | OJT/Practicum | 6 | 0 | 6 |  |
| AMT 421 | Suoersonic Aerodynamics | 3 | 0 | 3 | AMT 411 |  |  |  |  |  |  |
| Total |  | **6** | **0** | **6** |  |  |  | **6** | **0** | **6** |  |

**Summary**

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| --- | --- |
| **First Year** | 34+31= 65 Units |
| **Second Year** | **23+23= 61 Units** |
| **Third Year** | **20+24= 44 Units** |
| **Fourth Year** | **6+ 6= 12 Units** |
| Total | **167 Units** |

Upon completion of the four-year course, the student is conferred the degree in Bachelor of Science in Aircraft Maintenance Technology (BSAMT) provided that he/she has undergone 1,200 hours On-the-Job- Training from a CAAP certified Approved Maintenance Organization (AMO).