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| **ATILIM UNIVERSITY, CIVIL AVIATION SCHOOL** | | | | | |
|
| **UNDERGRADUATE PROGRAMME OF AVIONICS (AEE)** | | | | | |
|
| **1st SEMESTER** | | | | | |
|  |  | **Theory** | **Practice** | **Credit** | **ECTS** |
| **AVM 101** | **Introduction to Civil Aviation** | **3** | **0** | **3,0** | **4,0** |
| **PHYS 103** | **Physics I** | **3** | **2** | **4,0** | **6,0** |
| **MATH 103** | **General Mathematics** | **3** | **2** | **4,0** | **6,5** |
| **ENG 101** | **Introduction to Communication Skills I** | **4** | **0** | **4,0** | **4,5** |
| **AE 103** | **Computer Aided Engineering and Design** | **1** | **4** | **3,0** | **4,0** |
| **COMPE 101** | **Introduction to Computers and Programming** | **2** | **2** | **3,0** | **3,0** |
| **TURK 101** | **Turkish Language I** | **2** | **0** | **2,0** | **2,0** |
|  | **Total Credits** | **18** | **10** | **23** | **30,0** |
| **2nd SEMESTER** | | | | | |
|  |  | **Theory** | **Practice** | **Credit** | **ECTS** |
| **APM 102** | **Basics of Aircraft** | **3** | **0** | **3,0** | **8,0** |
| **PHYS 104** | **Physics II: Electricity and Magnetism** | **3** | **2** | **4,0** | **8,0** |
| **MATH 104** | **Single Variable Calculus** | **3** | **2** | **4,0** | **8,0** |
| **ENG 102** | **Communication Skills II** | **2** | **2** | **3,0** | **4,0** |
| **TURK 102** | **Turkish Language II** | **2** | **0** | **2,0** | **2,0** |
|  | **Total Credit** | **13** | **6** | **16,0** | **30,0** |
| **3rd SEMESTER** | | | | | |
|  |  | **Theory** | **Practice** | **Credit** | **ECTS** |
| **AEE 201** | **Electric Circuits I** | **3** | **2** | **4,0** | **5,0** |
| **AEE 203** | **Fundamentals of Electromagnetism** | **2** | **0** | **2,0** | **3,0** |
| **APM 201** | **Thermofluids** | **3** | **2** | **4,0** | **6,0** |
| **APM 207** | **Aircraft Maintenance Workshop for Avionics** | **1** | **5** | **3,5** | **5,0** |
| **APM 205** | **Aircraft Materials and Hardware** | **3** | **2** | **4,0** | **6,0** |
| **ENG 201** | **Communication Skills III** | **1** | **2** | **2,0** | **3,0** |
| **HIST 101** | **Principles of Atatürk and History of Turkish Revolution I** | **2** | **0** | **2,0** | **2,0** |
|  | **Total Credits** | **15** | **13** | **21,5** | **30,0** |
| **4th SEMESTER** | | | | | |
|  |  | **Theory** | **Practice** | **Credit** | **ECTS** |
| **AEE 202** | **Electric Circuits II** | **3** | **2** | **4,0** | **4,0** |
| **AEE 204** | **Electronic Circuits** | **3** | **2** | **4,0** | **6,0** |
| **APM 206** | **Human Factors in Aviation** | **3** | **0** | **3,0** | **5,0** |
| **APM 202** | **Aerodynamics** | **3** | **2** | **4,0** | **6,0** |
| **AEE 208** | **Avionics Maintenance Practices** | **1** | **5** | **3,5** | **4,0** |
| **ENG 204** | **Technical Report Writing and Communication** | **2** | **0** | **2,0** | **3,0** |
| **HIST 102** | **Principles of Atatürk and History of Turkish Revolution II** | **2** | **0** | **2,0** | **2,0** |
|  | **Total Credits** | **17** | **11** | **22,5** | **30,0** |
| **5th SEMESTER** | | | | | |
|  |  | **Theory** | **Practice** | **Credit** | **ECTS** |
| **AEE 301** | **Digital Circuits** | **4** | **2** | **5,0** | **7,0** |
| **AEE 303** | **Signal Analysis and Control** | **3** | **2** | **4,0** | **7,0** |
| **AEE 305** | **RF and Antennas** | **3** | **0** | **3,0** | **6,0** |
| **APM 311** | **Aircraft Structures and Flight Theory** | **3** | **0** | **3,0** | **5,0** |
| **AEE 399** | **Summer Practice I** | **0** | **0** | **0,0** | **3,0** |
| **AEE 309** | **Aviation Technical Terminology I** | **2** | **0** | **2,0** | **2,0** |
|  | **Total Credits** | **15** | **4,0** | **17,0** | **30,0** |
| **6th SEMESTER** | | | | | |
|  |  | **Theory** | **Practice** | **Credit** | **ECTS** |
| **AEE 302** | **Electromechanics** | **3** | **2** | **4,0** | **8,0** |
| **AEE 304** | **Aircraft Communication Systems** | **3** | **2** | **4,0** | **6,0** |
| **AEE 306** | **Aircraft Instruments** | **3** | **0** | **3,0** | **6,0** |
| **APM 304** | **Propulsion** | **3** | **0** | **3,0** | **5,0** |
| **APM 312** | **Aviation Legislation** | **3** | **0** | **3,0** | **3,0** |
| **AEE 310** | **Aviation Technical Terminology II** | **2** | **0** | **2,0** | **2,0** |
|  | **Total Credits** | **17** | **4** | **19,0** | **30,0** |
| **7th SEMESTER** | | | | | |
|  |  | **Theory** | **Practice** | **Credit** | **ECTS** |
| **AEE 401** | **Aircraft Computer Systems** | **3** | **0** | **3,0** | **6,0** |
| **AEE 403** | **Aircraft Electrical Systems** | **3** | **2** | **4,0** | **6,0** |
| **AEE 405** | **Navigation** | **3** | **0** | **3,0** | **6,0** |
| **APM 409** | **Helicopter Structures** | **3** | **2** | **4,0** | **4,0** |
| **AEE 499** | **Summer Practice II** | **0** | **0** | **0,0** | **3,0** |
| **NTE** | **Non-Technical Elective** | **3** | **0** | **3,0** | **5,0** |
|  | **Total Credits** | **15** | **4** | **17,0** | **30,0** |
| **8th SEMESTER** | | | | | |
|  |  | **Theory** | **Practice** | **Credit** | **ECTS** |
| **AEE 402** | **Avionics Systems Maintenance** | **1** | **5** | **3,5** | **6,0** |
| **AEE 404** | **Aircraft Instruments Maintenance** | **1** | **5** | **3,5** | **7,0** |
| **AEE 406** | **Electrical Systems Maitenance** | **1** | **5** | **3,5** | **6,0** |
| **APM 408** | **Maintenance Flight Test** | **2** | **2** | **3,0** | **5,0** |
| **NTE** | **Non-Technical Elective** | **3** | **0** | **3,0** | **5,0** |
| **ORY 400** | **Participation in Social and Cultural Activities** | **0** | **0** | **0,0** | **1,0** |
|  | **Total Credits** | **8** | **17** | **16,5** | **30,0** |