GAU, School of Aviation, Aviation Management

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| **Course Unit Title** | Airport Management |
| **Course Unit Code** | AVM302 |
| **Type of Course Unit** | Compulsory, Aviation Management |
| **Level of Course Unit** | 3rd Year BSc |
| **National Credits** | 3 |
| **Number of ECTS Credits Allocated** | 5 ECTS |
| **Theoretical (hour/week)** | 3 |
| **Practice (hour/week)** | - |
| **Laboratory (hour/week)** | - |
| **Year of Study** | 3 |
| **Semester when the course unit is delivered** | 6 |
| **Course Coordinator** |  |
| **Name of Lecturer (s)** |  |
| **Name of Assistant (s)** |  |
| **Mode of Delivery** | Face to Face |
| **Language of Instruction** | English |
| **Prerequisites and co-requisites** | - |
| **Recommended Optional Program Components** | Basic background of Airports |
| **Objectives of the Course:*** Teaching the Airport environments and basic components.
* Teaching the main developments of airports.
* Teaching the airport management concepts and strategies
* Teaching the fundamental principles of ATC, runway, taxiway, apron and terminal planning.
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| **Course Description** |
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| This course is typically focused on building knowledge of airport and airfield systems, communication abilities and business skills. |
| **Course Contents** |
| Week |  | Exams |
| 1 | Introduction to Airports |  |
| 2 | Airports and airport systems: A historical and legislative perspectiveIntegration of AI in airport systems |  |
| 3 | Details of Airside and Landside areas |  |
| 4 | Airport Operations, Airspace and air traffic Management |  |
| 5 | Airport Lighting System (Runway, Taxiway, beacons…) |  |
| 6 | Airport Financial Management, gate management |  |
| 7 | Exercises, Tutorials and Revision Class |  |
| 8 | Midterm Exam | Midterm |
| 9 | Introduction to Airport safety |  |
| 10 | Air cargo management system and perspectives |  |
| 11 | Airport capacity and delay management, economical perspectives |  |
| 12 | Introduction to Runway systems, ATC and capacity planning |  |
| 13 | Runway Length Calculation |  |
| 14 | Revision, Exercises and Tutorial Class |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:** Seth B. Young & Alexander T Wells, “Airport Planning and Management”, 6th edition, Mc Graw Hill, 2011.**Supplementary Material(s):** S. Schai FIES, “The Design, Installation and Maintenance of Airport Lighting”, 1thedition, Jaquith Industries, 1986. |
| **Assessment** |
| Attendance | 5% |  |  |  |  |  |
| Assignments | 10% |  |  |  |  |  |
| Project-Seminar | 15% |  |  |  |  |  |
| Midterm Exam | 25% | Written |  |  |  |  |
| Quizzes | 10% |  |  |  |  |  |
| Final Exam | 35% | Written |  |  |  |  |
| Total | 100% |  |  |  |  |  |
| **ECTS Allocated Based on the Student Workload** |
| Activities | Number | Duration (hour) | Total Workload(hour) |
| Hours per week (Theoretical) | 15 | 3 | 45 |
| Presenting of observations and tutorials as report | 5 | 5 | 25 |
| Preparation of the homework | 5 | 5 | 25 |
| Quizzes | 2 | 11 | 22 |
| Supervision | 1 | 17 | 17 |
| Final Exam | 1 | 22 | 22 |
| Total Workload | 156 |
| Total Workload/30 (h) | 5.2 |
| ECTS Credit of the Course | 5 |

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