**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 and E-learning activities** |
| **Language of Instruction** | **English** |
| **Prerequisities and co-requisities** | **-** |
| **Recommended Optional Programme 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** |
| **This course is typically focused on building knowledge of airport and airfield systems, communication abilities and business skills.** |
| **Course Contents** |
| Week |  | Exam**s** |
| 1 | Introduction to Airports |  |
| 2 | Airports and airport systems: A historical and legislative perspective |  |
| 3 | Details of Airside and Landside areas |  |
| 4 | Airport Operations, Airspace and air traffic Management |  |
| 5 | Airport Lighting System (Runway, Taxiway, beacons…) | Quiz #1 |
| 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 | Quiz #2 |
| 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 homeworks | 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 |