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. | |
| **Course Description** | |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | 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 perspective  Integration 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”, 1th  edition, 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 | | | |