**GAU, School of Aviation, Civil Aviation and Cabin Services**

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| **Course Unit Title** | Introduction to Aviation |
| **Course Unit Code** | CACS101 |
| **Type of Course Unit**  | Compulsory, Aviation Management and Cabin Services Students |
| **Level of Course Unit**  | 1rd Year  |
| **National Credits** | 3 |
| **Number of ECTS Credits Allocated** | 0 ECTS |
| **Theoretical (hour/week)** | 3 |
| **Practice (hour/week)** | - |
| **Laboratory (hour/week)** | - |
| **Year of Study** | 1 |
| **Semester when the course unit is delivered** | 1 |
| **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 Fundamentals of Aviation |
| **Objectives of the Course:** |
| * Teaching the basic history of aviation
* Teaching the main developments and challenges in Aviation
* Teaching basic knowledge of principle of flying
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| **Course Description** |  |
| The course provides an overview about the aviation and its history together with main developments and challenges that the major group of activities in aviation faces. Some basic knowledge about the principles of flying will also be discussed. |
| **Course Contents** |
| Week |  | Exam**s** |
| 1 | Introduction to Aviation(Overview of Aviation industries and regulation bodies) |  |
| 2 | History of Aviation I. |  |
| 3 | History of Aviation II : Yesterday, Today and Future in Aviation!! |  |
| 4 | Aircraft Categories and Classifications |  |
| 5 | Aircraft Categories and Classifications: In class exercises | Quiz #1 |
| 6 | The Airliners, Major Group of Activities in Aviation |  |
| 7 | Tutorial and Revision Class |  |
| 8 | Midterm Exam | Midterm |
| 9 | Aircraft Structure and basic components |  |
| 10 | Air law, regulations and ATC services |  |
| 11 | Introduction to Air meteorology and Navigation System |  |
| 12 | Remotely Piloted Aircraft Systems (drones) | Quiz #2 |
| 13 | Flight Physics |  |
| 14 | Flight Physics Exercise and Tutorial Class |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:** Fred Mabonga, “Introduction to Aviation”, 1th edition, Author house, 2015.**Supplementary Material(s):** John Anderson, “Introduction to Flight”, 6th edition, Mc Graw Hill Education, 2016. |
| **Assessment** |
| Attendance | 5% |  |
| Assignments | 10% |  |
| Project-Seminar | 10% |  |
| Midterm Exam | 25% | Written |
| Quizzes | 10% |  |
| Final Exam | 40% | 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 | 7 | 35 |
| Preparation of the homework | 5 | 7 | 35 |
| Quizzes | 2 | 11 | 22 |
| Supervision  | 1 | 17 | 17 |
| Final Exam | 1 | 22 | 22 |
| Total Workload  | 176 |
| Total Workload/30 (h) | 5.9 |
| ECTS Credit of the Course | 6 |