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

|  |  |
| --- | --- |
| **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** | Dr. Erdogan Kaygan |
| **Name of Lecturer (s)** | Dr. Erdogan Kaygan |
| **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
 |
| **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 |

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

|  |  |
| --- | --- |
| **Course Unit Title** | Normal Safety Regulations |
| **Course Unit Code** | CACS102 |
| **Type of Course Unit**  | Compulsory, Civil Aviation and Cabin Services  |
| **Level of Course Unit**  | 1rd Year |
| **National Credits** | 2 |
| **Number of ECTS Credits Allocated** | 0 ECTS |
| **Theoretical (hour/week)** | 2 |
| **Practice (hour/week)** | - |
| **Laboratory (hour/week)** | - |
| **Year of Study** | 1 |
| **Semester when the course unit is delivered** | 1 |
| **Course Coordinator** | Dr. Erdogan Kaygan |
| **Name of Lecturer (s)** | Dr. Erdogan Kaygan |
| **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 Cabin cockpit crew duties and responsibilities.
* Teaching the Pre-flight security, safety and cleaning checks.
* Teaching the Boarding, take-off and landing cabin preparation
 |
| **Course Description** |  |
| This course provides an in-depth review of the key aspects of safety regulations in cabin. Students will gain knowledge about boarding, take-off and landing cabin preparation. |
| **Course Contents** |
| Week |  | Exam**s** |
| 1 | Cabin Cockpit crew duties and responsibilities. |  |
| 2 | Pre-flight security, safety and cleaning checks. |  |
| 3 | Description of emergency equipment and pre-flight checks |  |
| 4 | Description of emergency equipment and pre-flight checks. |  |
| 5 | Description of emergency equipment and pre-flight checks. | Quiz #1 |
| 6 | Cabin description, communication system and aircraft lighting system. |  |
| 7 |  Exercises, Tutorials and Revision Class |  |
| 8 | Midterm Exam | Midterm |
| 9 | Boarding, take-off and landing cabin preparation |  |
| 10 | Duties and responsibilities of cabin crews in flights. |  |
| 11 | Disembarkations and de-briefing. |  |
| 12 | Procedures for fueling with passenger on board. | Quiz #2 |
| 13 | Pass crew and deat-heat crew duty and responsibilities |  |
| 14 | Revision, Exercises and Tutorial Class |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:** **Supplementary Material(s):**  |
| **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 |

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

|  |  |
| --- | --- |
| **Course Unit Title** | Communication in Aviation I |
| **Course Unit Code** | CACS103 |
| **Type of Course Unit**  | Compulsory, Civil Aviation and Cabin Services  |
| **Level of Course Unit**  | 1rd Year |
| **National Credits** | 2 |
| **Number of ECTS Credits Allocated** | 0 ECTS |
| **Theoretical (hour/week)** | 2 |
| **Practice (hour/week)** | - |
| **Laboratory (hour/week)** | - |
| **Year of Study** | 1 |
| **Semester when the course unit is delivered** | 1 |
| **Course Coordinator** | Sinem Babacan |
| **Name of Lecturer (s)** | Sinem Babacan |
| **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 basic communication principles.
* Teaching the fundamental principles of communication types in line of communication participants.
 |
| **Course Description** |  |
| This course will provide; Concept of communication and description, process in communication and elements in the process of communication (source, dialog, channel, receiver, codding, code-access, correlation frame, reflection, noise limiter, reverb selector perception), communication types in line of communication participants (inner communication, interpersonal communication, communication within group, intergroup communication), Mass communication and popular culture |
| **Course Contents** |
| Week |  | Exam**s** |
| 1 | Verbal Communication |  |
| 2 | Kinds of Listening  |  |
| 3 | Effective Verbal Communication Skills |  |
| 4 | Speaking |  |
| 5 | Brain Storming | Quiz #1 |
| 6 | Storage Systems |  |
| 7 |  Exercises, Tutorials and Revision Class |  |
| 8 | Midterm Exam | Midterm |
| 9 | Pronunciation |  |
| 10 | Punctuation |  |
| 11 | Familiarity |  |
| 12 | Fluency | Quiz #2 |
| 13 | Expression |  |
| 14 | Revision, Exercises and Tutorial Class |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:** **Supplementary Material(s):**  |
| **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 |

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

|  |  |
| --- | --- |
| **Course Unit Title** | Communication in Aviation II |
| **Course Unit Code** | CACS104 |
| **Type of Course Unit**  | Compulsory, Civil Aviation and Cabin Services  |
| **Level of Course Unit**  | 1rd Year |
| **National Credits** | 2 |
| **Number of ECTS Credits Allocated** | 0 ECTS |
| **Theoretical (hour/week)** | 2 |
| **Practice (hour/week)** | - |
| **Laboratory (hour/week)** | - |
| **Year of Study** | 1 |
| **Semester when the course unit is delivered** | 2 |
| **Course Coordinator** | Sinem Babacan |
| **Name of Lecturer (s)** | Sinem Babacan |
| **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**  | - |
| **Objectives of the Course:** |
| * Teaching the basic communication principles.
* Teaching the fundamental principles of communication types in line of communication participants.
 |
| **Course Description** |  |
| The aim of this course is defining basic theories, researches and applications of non-verbal communication, analysing methods of effective communication and applying verbal communication in the process of effective communication. |
| **Course Contents** |
| Week |  | Exam**s** |
| 1 | Verbal Communication |  |
| 2 | Kinds of Listening |  |
| 3 | Effective Verbal Communication Skills |  |
| 4 | Speaking |  |
| 5 | Brain Storming | Quiz #1 |
| 6 | Storage Systems |  |
| 7 |  Exercises, Tutorials and Revision Class |  |
| 8 | Midterm Exam | Midterm |
| 9 | Pronunciation |  |
| 10 | Punctuation |  |
| 11 | Familiarity |  |
| 12 | Fluency | Quiz #2 |
| 13 | Expression |  |
| 14 | Revision, Exercises and Tutorial Class |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:** **Supplementary Material(s):**  |
| **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 |

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

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| --- | --- |
| **Course Unit Title** | General Aeronautics |
| **Course Unit Code** | CACS105 |
| **Type of Course Unit**  | Compulsory, Civil Aviation and Cabin Services  |
| **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** | Dr. Erdogan Kaygan |
| **Name of Lecturer (s)** | Dr. Erdogan Kaygan |
| **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 Aircraft structures and flight principles |
| **Objectives of the Course:** |
| * Teaching an introduction to flight principles.
* Teaching the basic components of an aircraft.
* Teaching the fundamental working principles of an aircraft engine.
* Teaching the basic control surfaces and forces.
 |
| **Course Description** |  |
| This course presents fundamental knowledge of lift and drag for aircraft, high speed sub sonic aerodynamics and the performance of aircraft particular emphasis on turbojet and turboprop aircraft with a maximum take-off weight (MTOW). |
| **Course Contents** |
| Week |  | Exam**s** |
| 1 | Introduction to Flight Theory, Atmosphere, Bernoulli Principles, Density, and temperature. |  |
| 2 | Introduction to Airfoil Concepts: Airfoil Design, wing aerodynamics, relative wind and angle of attack. |  |
| 3 | Flight Principles: Forces acting on the Airplane, stall, pressure distribution  |  |
| 4 | Lift, Drag, and L/D calculations(Tutorial class) |  |
| 5 | Impact of different surface and environmental parameters for aircraft performance | Quiz #1 |
| 6 | Airplane Structures: Airplane Components, wing, empennage, power plant, fuselage, and landing gear |  |
| 7 | Exercises, Tutorials and Revision Class |  |
| 8 | Midterm Exam | Midterm |
| 9 | Incompressible flow around wings, Prandtl’s lifting line theory, induced angle and down-wash, upswept wings, swept wings.  |  |
| 10 | Aircraft Stability and Control, primary control devices, secondary control devices, side effects, positive, negative and neutral stability. |  |
| 11 | Aircraft Propulsion system, Engine Types, How engine works. |  |
| 12 | Introduction to Flight Mechanics: Take-off and Landing Performance | Quiz #2 |
| 13 | Introduction to Flight Mechanics II: Climb Performance |  |
| 14 | Revision, Exercises and Tutorial Class |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:** Gale Craig, “Introduction to Aerodynamics”, 1th edition, Regenerative Press, 2003.**Supplementary Material(s):** John D. Anderson, “Fundamental of Aerodynamics”, 5th edition, Mc Graw Hill, 2011. |
| **Assessment** |
| Attendance | 5% |  |
| Assignments | 15% |  |
| Project-Seminar | 15% |  |
| Midterm Exam | 20% | 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 |

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

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| --- | --- |
| **Course Unit Title** | Airport and Flight Security |
| **Course Unit Code** | CACS106 |
| **Type of Course Unit**  | Compulsory, Civil Aviation and Cabin Services  |
| **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** | 2 |
| **Course Coordinator** | Dr. Erdogan Kaygan |
| **Name of Lecturer (s)** | Dr. Erdogan Kaygan |
| **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**  | - |
| **Objectives of the Course:** |
| * Teaching the basic airport environment.
* Teaching the security concepts in flight.
 |
| **Course Description** |  |
| This course will provide basic concepts in aviation security, security concept, terrorism and historical background, security threats on planes, airport and flight safety concept, behaviour analysis, passenger profiles, precautions, threat levels, international regulations and cockpit security. |
| **Course Contents** |
| Week |  | Exam**s** |
| 1 | Introduction to Airport Security and Safety |  |
| 2 | Airport security procedures |  |
| 3 | First Line of Defence System |  |
| 4 | Personal Check and Last Line of Defence |  |
| 5 | Violence Hijacking | Quiz #1 |
| 6 | Bomb Threat Action |  |
| 7 | Exercises, Tutorials and Revision Class |  |
| 8 | Midterm Exam | Midterm |
| 9 | Effects & Impacts of Hijacking to Aviation |  |
| 10 | Types of X-Ray Technologies |  |
| 11 | Runway Safety |  |
| 12 | Runway Incursion Mitigation, Wildlife Surveillance Concept (WiSC) | Quiz #2 |
| 13 | Seminars by Students |  |
| 14 | Revision, Exercises and Tutorial Class |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:** **Supplementary Material(s):**  |
| **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 |

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

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| --- | --- |
| **Course Unit Title** | Aviation Terminology |
| **Course Unit Code** | CACS107 |
| **Type of Course Unit**  | Compulsory, Civil Aviation and Cabin Services Students  |
| **Level of Course Unit**  | 1rd Year  |
| **National Credits** | 2 |
| **Number of ECTS Credits Allocated** | 0 ECTS |
| **Theoretical (hour/week)** | 2 |
| **Practice (hour/week)** | - |
| **Laboratory (hour/week)** | - |
| **Year of Study** | 1 |
| **Semester when the course unit is delivered** | 1 |
| **Course Coordinator** | Asst.Prof.Dr.Ceren ULUSOY |
| **Name of Lecturer (s)** | Asst.Prof.Dr.Ceren ULUSOY |
| **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**  | - |
| **Objectives of the Course:** |
| * Teaching the basic principles of aviation
* Teaching Aviation concepts and terms
* Teaching emergency terms
 |
| **Course Description** |  |
| Covers all basic definitions, acronyms and abbreviations used in the aviation industry as well as their uses and applications. |
| **Course Contents** |
| Week |  | Exam**s** |
| 1 | Introduction to Aviation Terminology |  |
| 2 | Phonetic Alphabet, number pronunciation, abbreviations |  |
| 3 | Aviation Terms and definitions |  |
| 4 | Terms of air transport |  |
| 5 | Terms of airport | Quiz #1 |
| 6 | Terms of aircraft |  |
| 7 | Terms of flight |  |
| 8 | Midterm Exam | Midterm |
| 9 | Terms of Emergency |  |
| 10 | Terms of passenger |  |
| 11 | Terms of Food and beverage service |  |
| 12 | Terms of Health and First Aid | Quiz #2 |
| 13 | Terms of hotel/accommodation |  |
| 14 | Exercise and Tutorial Class |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:** **Supplementary Material(s):**  |
| **Assessment** |
| Attendance | 5% |  |
| Assignments | 10% |  |
| Project-Seminar | 10% |  |
| Midterm Exam | 30% | Written |
| Quizzes | 5% |  |
| Final Exam | 50% | 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 |

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

|  |  |
| --- | --- |
| **Course Unit Title** | Hazardous Materials Training |
| **Course Unit Code** | CACS108 |
| **Type of Course Unit**  | Compulsory, Civil Aviation and Cabin Services Students  |
| **Level of Course Unit**  | 1rd Year  |
| **National Credits** | 2 |
| **Number of ECTS Credits Allocated** | 0 ECTS |
| **Theoretical (hour/week)** | 2 |
| **Practice (hour/week)** | - |
| **Laboratory (hour/week)** | - |
| **Year of Study** | 1 |
| **Semester when the course unit is delivered** | 2 |
| **Course Coordinator** | Kıvılcım Ozaner |
| **Name of Lecturer (s)** | Kıvılcım Ozaner |
| **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:** |
| * Methods to be used in emergency cases and development in student knowledge and skill level in both theoretical and practical topics regarding hazardous material.
 |
| **Course Description** |  |
| This course aims to provide flight safety by training personnel and applying correct rules for passengers handling hazardous materials. |
| **Course Contents** |
| Week |  | Exam**s** |
| 1 | General philosophy of hazardous material rules |  |
| 2 | Applying hazardous material rules,  |  |
| 3 | Definition of hazardous material |  |
| 4 | General handling requirements |  |
| 5 | Responsibilities of hazardous material handling | Quiz #1 |
| 6 | Responsibilities of addresser, Responsibilities of transporter |  |
| 7 | Hazardous material limits, Restricted hazardous material on flight, Confidential hazardous materials |  |
| 8 | Midterm Exam | Midterm |
| 9 | Legal to handle hazardous material, Transportation of hazardous material in air-post |  |
| 10 | Hazardous material under transporter handling, |  |
| 11 | Permitted air cargo hazardous material, Limited hazardous material |  |
| 12 | Exceptional amount of hazardous material, SHGM Liquid limitations, | Quiz #2 |
| 13 | Hazardous material categories |  |
| 14 | Exercise and Tutorial Class |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:** **Supplementary Material(s):**  |
| **Assessment** |
| Attendance | 5% |  |
| Assignments | 10% |  |
| Project-Seminar | 10% |  |
| Midterm Exam | 30% | Written |
| Quizzes | 5% |  |
| Final Exam | 50% | 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 |

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

|  |  |
| --- | --- |
| **Course Unit Title** | Aviation Law  |
| **Course Unit Code** | CACS109 |
| **Type of Course Unit**  | Elective, Civil Aviation and Cabin Services Students  |
| **Level of Course Unit**  | 1rd Year  |
| **National Credits** | 2 |
| **Number of ECTS Credits Allocated** | 0 ECTS |
| **Theoretical (hour/week)** | 2 |
| **Practice (hour/week)** | - |
| **Laboratory (hour/week)** | - |
| **Year of Study** | 1-2 |
| **Semester when the course unit is delivered** | 2 |
| **Course Coordinator** | Kıvılcım Ozaner |
| **Name of Lecturer (s)** | Kıvılcım Ozaner |
| **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:** |
| * Learn about the importance of the Chicago Convention and its relation to public international air law
* Analyse the impact of private international air law instruments and the Warsaw system and M99.
* Understand the legal and institutional framework of the European Union with reference to aviation.
 |
| **Course Description** |  |
| This course provides an in-depth review of the key aspects of the international air law. Students will gain insight into the legal and institutional framework of international air law regimes by studying the role and function of principal organizations involved in regulating the industry. Learning how air law developments and legal issues directly impact the aviation industry, and exploring potential solutions to common air law issues will sum up the course. |
| **Course Contents** |
| Week |  | Exam**s** |
| 1 | Introduction to Aviation Law |  |
| 2 | Overview of Civil Legal Framework on Intl. Civil Aviation |  |
| 3 | Sovereignty and Freedoms of the air  |  |
| 4 | Chicago Convention |  |
| 5 | Annexes to the Chicago Convention I | Quiz #1 |
| 6 | Annexes to the Chicago Convention II |  |
| 7 | Tutorial and Revision Class |  |
| 8 | Midterm Exam | Midterm |
| 9 | The Warsaw Convention |  |
| 10 | Amendments of Warsaw Convention |  |
| 11 | The Montreal Convention of 1999 I |  |
| 12 | The Montreal Convention of 1999 II | Quiz #2 |
| 13 | The Montreal Convention of 1999 III |  |
| 14 | Exercise and Tutorial Class |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:** **Supplementary Material(s):**  |
| **Assessment** |
| Attendance | 5% |  |
| Assignments | 10% |  |
| Project-Seminar | 10% |  |
| Midterm Exam | 30% | Written |
| Quizzes | 5% |  |
| Final Exam | 50% | 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 |

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

|  |  |
| --- | --- |
| **Course Unit Title** | Service and In Flight Catering I and II |
| **Course Unit Code** | CACS201-CACS202 |
| **Type of Course Unit**  | Compulsory, Civil Aviation and Cabin Services  |
| **Level of Course Unit**  | 2rd Year  |
| **National Credits** | 2 |
| **Number of ECTS Credits Allocated** | 0 ECTS |
| **Theoretical (hour/week)** | 2 |
| **Practice (hour/week)** | 1 |
| **Laboratory (hour/week)** | - |
| **Year of Study** | 2 |
| **Semester when the course unit is delivered** | 3-4 |
| **Course Coordinator** | Ali Özçil |
| **Name of Lecturer (s)** | Ali Özçil |
| **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**  | na |
| **Objectives of the Course:** |
| * Teaching a basic skills in-flight catering.
* Teaching the service procedures and meal preparation.
* Teaching the fundamental working principles of in-flight catering in terms of safety.
 |
| **Course Description** |  |
| The aim of this course is to help students develop an applicable understanding of inflight catering issues, and their relevance in aviation safety |
| **Course Contents** |
| Week |  | Exam**s** |
| 1 | In-flight Service and Flight Safety; The Effects of Service on Passengers |  |
| 2 | Main factors n catering planning |  |
| 3 | Galley Supplies |  |
| 4 | Issues to be considered during catering loading and off loading |  |
| 5 | Service Types | Quiz #1 |
| 6 | Service Types according to passenger appropriate |  |
| 7 | Exercises, Tutorials and Revision Class |  |
| 8 | Midterm Exam | Midterm |
| 9 | Service types according to Nutrition Restriction |  |
| 10 | Meals Prepared according to Health Problem |  |
| 11 | Special Meal codes and explanations |  |
| 12 | Beverages and Service Procedures | Quiz #2 |
| 13 | Service Preparation |  |
| 14 | Revision, Exercises and Tutorial Class |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:** **Supplementary Material(s):**  |
| **Assessment** |
| Attendance | 5% |  |
| Assignments | 15% |  |
| Project-Seminar | 15% |  |
| Midterm Exam | 20% | 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 |

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

|  |  |
| --- | --- |
| **Course Unit Title** | Effective Speaking and Dictation  |
| **Course Unit Code** | CACS203 |
| **Type of Course Unit**  | Compulsory, Civil Aviation and Cabin Services Students  |
| **Level of Course Unit**  | 2rd Year  |
| **National Credits** | 3 |
| **Number of ECTS Credits Allocated** | 0 ECTS |
| **Theoretical (hour/week)** | 3 |
| **Practice (hour/week)** | - |
| **Laboratory (hour/week)** | - |
| **Year of Study** | 2 |
| **Semester when the course unit is delivered** | 3 |
| **Course Coordinator** | Asst.Prof.Dr.Ceren ULUSOY |
| **Name of Lecturer (s)** | Asst.Prof.Dr.Ceren ULUSOY |
| **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 Aviation English |
| **Objectives of the Course:** |
| * Teaching the basic skills for effective speaking
 |
| **Course Description** |  |
| The aim of this course is to help students develop an applicable understanding of effective speaking and dictation issues, and their relevance in aviation safety. |
| **Course Contents** |
| Week |  | Exam**s** |
| 1 | Announcement for expediting passenger seating, mobile phones-hand baggage, smoking announcement, use of electronic devices on flight mode |  |
| 2 | Emergency exit briefing, announcement for forbidden electronic devices, welcome announcement, flight information announcement |  |
| 3 | Passenger briefing prior to take-off |  |
| 4 | After take-off reminder, turbulence, descending |  |
| 5 | Announcement for cleaning up the cabin after descending, reminder for placing hand baggage after descending, landing | Quiz #1 |
| 6 | Farewell announcement, deboaring of passengers who need assistance, warning announcement, forgotten belongings |  |
| 7 | Tutorial and Revision Class |  |
| 8 | Midterm Exam | Midterm |
| 9 | Transit-incoming from domestic and international announcements |  |
| 10 | Connecting gate announcement |  |
| 11 | Announcements for transit passengers |  |
| 12 | Waiting period, announcement for baggage reconciliation | Quiz #2 |
| 13 | Emergency announcements |  |
| 14 | Exercise and Tutorial Class |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:** **Supplementary Material(s):**  |
| **Assessment** |
| Attendance | 5% |  |
| Assignments | 10% |  |
| Project-Seminar | 10% |  |
| Midterm Exam | 30% | Written |
| Quizzes | 5% |  |
| Final Exam | 50% | 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 |

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

|  |  |
| --- | --- |
| **Course Unit Title** | Medical Issues and First Aid Training |
| **Course Unit Code** | CACS204 |
| **Type of Course Unit**  | Compulsory, Civil Aviation and Cabin Services Students  |
| **Level of Course Unit**  | 2rd Year  |
| **National Credits** | 2 |
| **Number of ECTS Credits Allocated** | 0 ECTS |
| **Theoretical (hour/week)** | 1 |
| **Practice (hour/week)** | 1 |
| **Laboratory (hour/week)** | - |
| **Year of Study** | 2 |
| **Semester when the course unit is delivered** | 4 |
| **Course Coordinator** | Dr. Saima Tasneem |
| **Name of Lecturer (s)** | Dr. Saima Tasneem |
| **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**  | - |
| **Objectives of the Course:** |
| * Teaching the basic skills for first aid
 |
| **Course Description** |  |
| Provide sufficient knowledge to apply first aid in case of emergency using only available tools and materials and apply treatment with no medicine until the arrival of paramedics thus avoiding further deterioration. |
| **Course Contents** |
| Week |  | Exam**s** |
| 1 | Introduction to First aid |  |
| 2 | General first aid knowledge, examination of injured patient and scene |  |
| 3 | Basic life support |  |
| 4 | First aid on hemorrhage, first aid for injured |  |
| 5 | First aid for ambustion, frostand heat stroke | Quiz #1 |
| 6 | First aid for fractures, dislocation and sprain |  |
| 7 | Tutorial and Revision Class |  |
| 8 | Midterm Exam | Midterm |
| 9 | First aid for conscious distortion |  |
| 10 | First aid for poisoning |  |
| 11 | First aid for animal bite |  |
| 12 | First aid for foreign body penetration in eyes, ears and nose | Quiz #2 |
| 13 | First aid for suffocation, First aid for injured patient handling |  |
| 14 | Training on precautions for possible accidents and applying facultative response |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:** **Supplementary Material(s):**  |
| **Assessment** |
| Attendance | 5% |  |
| Assignments | 10% |  |
| Project-Seminar | 10% |  |
| Midterm Exam | 30% | Written |
| Quizzes | 5% |  |
| Final Exam | 50% | 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 |

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

|  |  |
| --- | --- |
| **Course Unit Title** | Passenger Safety and Satisfactions  |
| **Course Unit Code** | CACS205 |
| **Type of Course Unit**  | Compulsory, Civil Aviation and Cabin Services Students  |
| **Level of Course Unit**  | 2rd Year  |
| **National Credits** | 2 |
| **Number of ECTS Credits Allocated** | 0 ECTS |
| **Theoretical (hour/week)** | 2 |
| **Practice (hour/week)** | - |
| **Laboratory (hour/week)** | - |
| **Year of Study** | 2 |
| **Semester when the course unit is delivered** | 3 |
| **Course Coordinator** | Dr. Erdogan Kaygan |
| **Name of Lecturer (s)** | Dr. Erdogan Kaygan |
| **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 Aviation English |
| **Objectives of the Course:** |
| * Teaching the basic procedures for passenger safety
* Teaching the basic skills for passenger satisfactions
 |
| **Course Description** |  |
| This course provides an overview about the passenger safety and satisfaction together with main developments and challenges that the major group of activities in aviation faces. The skills and responsibilities expected by the world’s leading airlines introduced in this course as well. Special emphasis is given to customer service and procedures for handling unusual situations during flight. |
| **Course Contents** |
| Week |  | Exam**s** |
| 1 | Introduction to Passenger Safety and Satisfaction |  |
| 2 | General Aviation Passenger Safety Briefing |  |
| 3 | General passenger safety procedures: Emergencies and Equipment |  |
| 4 | General Aviation Passenger Safety: Passenger with disabilities |  |
| 5 | Flying with Children | Quiz #1 |
| 6 | Carry-on-Baggage |  |
| 7 | Tutorial and Revision Class |  |
| 8 | Midterm Exam | Midterm |
| 9 | Flying with Portable Electronic Devices |  |
| 10 | Passenger and Crew Health |  |
| 11 | Turbulence: Staying Safe |  |
| 12 | Introduction to Passenger Satisfactions | Quiz #2 |
| 13 | Introduction to Passenger Satisfactions |  |
| 14 | Exercise and Tutorial Class |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:** **Supplementary Material(s):**  |
| **Assessment** |
| Attendance | 5% |  |
| Assignments | 10% |  |
| Project-Seminar | 10% |  |
| Midterm Exam | 30% | Written |
| Quizzes | 5% |  |
| Final Exam | 50% | 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 |

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

|  |  |
| --- | --- |
| **Course Unit Title** | In-flight Entertainment System  |
| **Course Unit Code** | CACS206 |
| **Type of Course Unit**  | Compulsory, Civil Aviation and Cabin Services Students  |
| **Level of Course Unit**  | 2rd Year  |
| **National Credits** | 3 |
| **Number of ECTS Credits Allocated** | 0 ECTS |
| **Theoretical (hour/week)** | 3 |
| **Practice (hour/week)** | - |
| **Laboratory (hour/week)** | - |
| **Year of Study** | 2 |
| **Semester when the course unit is delivered** | 3-4 |
| **Course Coordinator** | Dr. Erdogan Kaygan |
| **Name of Lecturer (s)** | Dr. Erdogan Kaygan |
| **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 Aviation English |
| **Objectives of the Course:** |
| * Teaching the basic principles of inflight entertainment system.
 |
| **Course Description** |  |
| This course is ideal for students who can express their ideas about Inflight entertainment system, by introducing the basic inflight entertainment concepts for the world’s leading airlines. Also historical connection of inflight entertainment systems are introduced in this class by comparing the most common aircraft types. |
| **Course Contents** |
| Week |  | Exam**s** |
| 1 | Introduction to Inflight Entertainment System |  |
| 2 | Overview of Inflight Entertainment System(History |  |
| 3 | Basic Entertainment System Modules |  |
| 4 | Project I |  |
| 5 | Project Proposal | Quiz #1 |
| 6 | Project Proposal |  |
| 7 | Project Proposal |  |
| 8 | Midterm Exam | Midterm |
| 9 | Airbus Inflight Entertainment System(History, A319-A320-A321-A330-A340-A350A380 types, Video demonstrations and etc.) |  |
| 10 | Boeing Inflight Entertainment System (Boeing 737-747-777-787 types, Video demonstrations and etc.) |  |
| 11 | Project II |  |
| 12 | Project II | Quiz #2 |
| 13 | Seminars by Student |  |
| 14 | Seminars by Student |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:** **Supplementary Material(s):**  |
| **Assessment** |
| Attendance | 5% |  |
| Assignments | 10% |  |
| Project-Seminar | 10% |  |
| Midterm Exam | 30% | Written |
| Quizzes | 5% |  |
| Final Exam | 50% | 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 |

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

|  |  |
| --- | --- |
| **Course Unit Title** | Emergency Safety Rules I – II  |
| **Course Unit Code** | CACS207-CACS208 |
| **Type of Course Unit**  | Compulsory, Civil Aviation and Cabin Services Students  |
| **Level of Course Unit**  | 2rd Year  |
| **National Credits** | 3 |
| **Number of ECTS Credits Allocated** | 0 ECTS |
| **Theoretical (hour/week)** | 3 |
| **Practice (hour/week)** | - |
| **Laboratory (hour/week)** | - |
| **Year of Study** | 2 |
| **Semester when the course unit is delivered** | 3-4 |
| **Course Coordinator** | Dr. Erdogan Kaygan |
| **Name of Lecturer (s)** | Dr. Erdogan Kaygan |
| **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 Aviation English |
| **Objectives of the Course:** |
| * Teaching the basic procedures for passenger safety
* Teaching the basic skills for emergency evacuations
 |
| **Course Description** |  |
| The aim of this course is to provide sufficient theoretical and practical knowledge in flight safety for necessary actions to be undertaken if any possible abnormal conditions countered during flight. The fundamental principal of the Cabin Crew is Flight Safety. |
| **Course Contents** |
| Week |  | Exam**s** |
| 1 | Introduction to Emergency in General |  |
| 2 | Emergency Situations and Procedures I |  |
| 3 | Emergency Situations and Procedures II |  |
| 4 | Emergency Landing |  |
| 5 | Sea Ditching | Quiz #1 |
| 6 | Fire in Cabin |  |
| 7 | Decompression |  |
| 8 | Midterm Exam | Midterm |
| 9 | Unruly Passengers |  |
| 10 | Crowd Control |  |
| 11 | Hijacking |  |
| 12 | Crew Incapacitation | Quiz #2 |
| 13 | In-Flight Medical Emergency |  |
| 14 | Exercise and Tutorial Class |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:** **Supplementary Material(s):**  |
| **Assessment** |
| Attendance | 5% |  |
| Assignments | 10% |  |
| Project-Seminar | 10% |  |
| Midterm Exam | 30% | Written |
| Quizzes | 5% |  |
| Final Exam | 50% | 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 |

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

|  |  |
| --- | --- |
| **Course Unit Title** | Aviation Meteorology |
| **Course Unit Code** | CACS209 |
| **Type of Course Unit**  | Compulsory, Civil Aviation and Cabin Services Students |
| **Level of Course Unit**  | 2rd Year  |
| **National Credits** | 2 |
| **Number of ECTS Credits Allocated** | 0 ECTS |
| **Theoretical (hour/week)** | 2 |
| **Practice (hour/week)** | - |
| **Laboratory (hour/week)** | - |
| **Year of Study** | 2 |
| **Semester when the course unit is delivered** | 3 |
| **Course Coordinator** | Asst.Prof.Dr.Ceren ULUSOY |
| **Name of Lecturer (s)** | Asst.Prof.Dr.Ceren ULUSOY |
| **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**  | - |
| **Objectives of the Course:** |
| * Teaching the basic aviation meteorology.
* Teaching the Motion of the Earth
* Teaching basic knowledge of Atmospheric Aerosols, Clouds and Turbulence
 |
| **Course Description** |  |
| This course provides students to learn on basic concepts of Meteorology science, the physical processes of Meteorological events and importance of Aviation. Topics covered on the course include: Definition of Meteorology, the structure and characteristics of the atmosphere, the gas laws, global circulation, weather systems and effects to Aviation. |
| **Course Contents** |
| Week |  | Exam**s** |
| 1 | Introduction to Aviation Meteorology |  |
| 2 | Introduction to Meteorology: Definition of Meteorology, Categories and Brief History of Meteorology, Definition of Weather, Climate and Forecasting. |  |
| 3 | Definition of The Atmosphere, Composition, Impurities, Structure, Stratification. |  |
| 4 | Definition of Atmospheric motion, The Pressure Gradient Force, The Coriolis Force, Geostrophic Balance, Acceleration and Friction, Global Circulation. |  |
| 5 | Air Masses, types and Modification process. | Quiz #1 |
| 6 | Altimetry, Altitude and Flight |  |
| 7 | Tutorial and Revision Class |  |
| 8 | Midterm Exam | Midterm |
| 9 | Winds and Currents, wind patterns. |  |
| 10 | Wind maps and Isobars |  |
| 11 | Turbulence, types of turbulence and importance of flight. |  |
| 12 | Clouds, types of clouds and Precipitation. | Quiz #2 |
| 13 | Precipitation and seminars by students |  |
| 14 | Exercise and Tutorial Class |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:** Navale Pandharinath, “Aviation Meteorology”, 1th edition, BS Publications, 2009.**Supplementary Material(s):**  |
| **Assessment** |
| Attendance | 5% |  |
| Assignments | 5% |  |
| Project-Seminar | 5% |  |
| Midterm Exam | 30% | Written |
| Quizzes | 5% |  |
| Final Exam | 50% | 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 |

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

|  |  |
| --- | --- |
| **Course Unit Title** | Crew Resource Management |
| **Course Unit Code** | CACS210 |
| **Type of Course Unit**  | Compulsory, Civil Aviation and Cabin Services Students  |
| **Level of Course Unit**  | 2rd Year  |
| **National Credits** | 2 |
| **Number of ECTS Credits Allocated** | 0 ECTS |
| **Theoretical (hour/week)** | 2 |
| **Practice (hour/week)** | - |
| **Laboratory (hour/week)** | - |
| **Year of Study** | 2 |
| **Semester when the course unit is delivered** | 4 |
| **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**  | - |
| **Objectives of the Course:** |
| * Teaching the basic techniques for how to manage people under stress
* Teaching the basic skills for leadership
 |
| **Course Description** |  |
| Leadership, managing people, crowd control, teamwork, character interaction, synergy, motivation, individual differences in understanding and coping with them, error chain, anger coping, body language, stress management, health, physical and mental limits including stress, professionalism in communication, communication and perception differences, fatigue, workload management, situation assessment, risk management, issues and decision-making will be discussed. |
| **Course Contents** |
| Week |  | Exam**s** |
| 1 | Introduction to CRM |  |
| 2 | Describe the functions of the CRM |  |
| 3 | Leadership, managing people, crowd control, teamwork |  |
| 4 | Error chain, anger coping, body language, stress management |  |
| 5 | Fatigue, workload management, situation assessment, risk management, issues and decision-making | Quiz #1 |
| 6 | Seminars by students |  |
| 7 | Revision  |  |
| 8 | Midterm Exam | Midterm |
| 9 | CRM Processes and Practices |  |
| 10 | Seminars by students |  |
| 11 | Human Factors |  |
| 12 | CRM in Global Aviation Management I | Quiz #2 |
| 13 | CRM in Global Aviation Management II |  |
| 14 | Exercise and Tutorial Class |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:** **Supplementary Material(s):**  |
| **Assessment** |
| Attendance | 5% |  |
| Assignments | 10% |  |
| Project-Seminar | 10% |  |
| Midterm Exam | 30% | Written |
| Quizzes | 5% |  |
| Final Exam | 50% | 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 |

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

|  |  |
| --- | --- |
| **Course Unit Title** | Cabin Crew Performance Training I – II  |
| **Course Unit Code** | CACS213-CACS214 |
| **Type of Course Unit**  | Compulsory, Civil Aviation and Cabin Services Students  |
| **Level of Course Unit**  | 2rd Year  |
| **National Credits** | 2 |
| **Number of ECTS Credits Allocated** | 0 ECTS |
| **Theoretical (hour/week)** | 2 |
| **Practice (hour/week)** | - |
| **Laboratory (hour/week)** | - |
| **Year of Study** | 2 |
| **Semester when the course unit is delivered** | 3-4 |
| **Course Coordinator** | Dr. Erdogan Kaygan |
| **Name of Lecturer (s)** | Dr. Erdogan Kaygan |
| **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 Passenger Safety |
| **Objectives of the Course:** |
| * Teaching the basic procedures for passenger safety
* Teaching the basic skills for emergency evacuations
* Teaching the techniques for sound communication
 |
| **Course Description** |  |
| The aim of these courses is to provide knowledge about National and International etiquette and kindness together with methods of walking, stance and sitting. |
| **Course Contents** |
| Week |  | Exam**s** |
| 1 | Introduction to Emergency in General |  |
| 2 | Correct make-up and personal development in table manners |  |
| 3 | Concept and specifications of service |  |
| 4 | The significance of developing service quality and strategy |  |
| 5 | Defining customer oriented institution | Quiz #1 |
| 6 | Techniques for sound communication |  |
| 7 | Significance of first impression |  |
| 8 | Midterm Exam | Midterm |
| 9 | Reasons of customer complains |  |
| 10 | Professionalism and providing professional service |  |
| 11 | Passenger relations and techniques for resolving customer complains |  |
| 12 | Developing service strategy for professional service | Quiz #2 |
| 13 | Perception on stress and undertaking stress |  |
| 14 | Exercise and Tutorial Class |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:** **Supplementary Material(s):**  |
| **Assessment** |
| Attendance | 5% |  |
| Assignments | 10% |  |
| Project-Seminar | 10% |  |
| Midterm Exam | 30% | Written |
| Quizzes | 5% |  |
| Final Exam | 50% | 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 |

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

|  |  |
| --- | --- |
| **Course Unit Title** | Safety Management System |
| **Course Unit Code** | CACS217 |
| **Type of Course Unit**  | Elective, Civil Aviation and Cabin Services  |
| **Level of Course Unit**  | 2rd Year |
| **National Credits** | 2 |
| **Number of ECTS Credits Allocated** | 0 ECTS |
| **Theoretical (hour/week)** | 2 |
| **Practice (hour/week)** | - |
| **Laboratory (hour/week)** | - |
| **Year of Study** | 2 |
| **Semester when the course unit is delivered** | 4 |
| **Course Coordinator** | Dr. Erdogan Kaygan |
| **Name of Lecturer (s)** | Dr. Erdogan Kaygan |
| **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 Aircraft Safety and Security |
| **Objectives of the Course:** |
| * Teaching an introduction to safety in aviation.
* Teaching the basic components of safety management.
* Teaching the fundamental safety concept in ATC, aircraft and etc.
* Teaching the air crash investigation principles and the probability and/or statistics.
 |
| **Course Description** |  |
| This course is a complete, fully updated guide to commercial aviation safety. Presenting the latest procedures and standards in general and international air traffic and regulatory agencies, this extensively revised resource covers the entire commercial aviation safety system—from human factors to accident investigation. |
| **Course Contents** |
| Week |  | Exam**s** |
| 1 | Introduction to Aviation Safety and Security. |  |
| 2 | Human Factors in Aviation  |  |
| 3 | Introduction to Safety Management Systems  |  |
| 4 | SHELL Model and its applications  |  |
| 5 | Accident Causation Models | Quiz #1 |
| 6 | Aviation Safety Issues : Introduction to Aviation Security and its environment |  |
| 7 | Exercises, Tutorials and Revision Class |  |
| 8 | Midterm Exam | Midterm |
| 9 | Aircraft Safety principles: Stability and Control devices |  |
| 10 | Safety in ATC environment. |  |
| 11 | Introduction to Airport and Runway Safety  |  |
| 12 | Airport Safety and Probability analysis | Quiz #2 |
| 13 | In-class exercises: Airport Safety and Probability analysis |  |
| 14 | Revision, Exercises and Tutorial Class |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:** Gale Craig, “Introduction to Aerodynamics”, 1th edition, Regenerative Press, 2003.**Supplementary Material(s):** John D. Anderson, “Fundamental of Aerodynamics”, 5th edition, Mc Graw Hill, 2011. |
| **Assessment** |
| Attendance | 5% |  |
| Assignments | 15% |  |
| Project-Seminar | 15% |  |
| Midterm Exam | 20% | 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 |