GAU, School of Aviation, Aviation Management

|  |  |
| --- | --- |
| **Course Unit Title** | Human Factors in Aviation |
| **Course Unit Code** | AVM308 |
| **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** | 6 |
| **Semester when the course unit is delivered** | 3 |
| **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 Fundamentals of Aviation |
| **Objectives of the Course:*** Teaching the philosophy of human factors.
* Teaching the classification and explain the factors that affect human performance
* Teaching the capabilities and limitations of human performance.
 |
| **Course Description** |
| This course examines the importance of human factors in aviation and overview the system perspective of human role in aviation functions and considers also cognitive architecture of the human factors from maintenance perspective. |
| **Course Contents** |
| Week |  | Exams |
| 1 | The Purpose of Human Factors Course, Cultural Dimensions |  |
| 2 | The Pear Model, The Shell Model |  |
| 3 | Dirty Dozen, Perception |  |
| 4 | Hearing and Perception, Orientation |  |
| 5 | Aviation Psychology, I'm SAFE |  |
| 6 | Verbal Skills, Communication |  |
| 7 | Environmental Factors, Human Performance and Limitations |  |
| 8 | Midterm Exam | Midterm |
| 9 | Obedience, Corporate Culture |  |
| 10 | Emotional Intelligence, Body Language |  |
| 11 | Mindfulness, Importance of Procedures and Documentation in Aviation |  |
| 12 | Crew Resource Management, Decision Making |  |
| 13 | Empathy |  |
| 14 | Revision |  |
| 15 | Final Exam | Final |
| **Recommended Sources** |
| **Textbook:****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 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 |