**University of Management and Technology**

**Course Outline**

Course code: AM 112 Course title: Aviation Sciences

|  |  |
| --- | --- |
| Program | BS Aviation Management |
| Credit Hours | 03 |
| Duration | 15 Weeks |
| Prerequisites | Nil |
| Resource Person | Faiq Ahmad |
| Counseling Timing  (Room# ) | TBN |
| Contact | 03218877525 |

**Chairman/Director signature………………………………….**

**Dean’s signature…………………………… Date………………………………………….**

**Learning Objective:**

This course is designed to introduce students to provide a variety of co-curricular activities to

Enhance out-of-class learning opportunities; the Aviation Sciences major prepares students

For basic aviation orientation and know how. The major focus on the knowledge and

Orientating about aviation history, licenses, aerodynamics, aero engines, meteorology, flight

Planning, navigation, airport operations and air traffic services.

**Learning Methodology:**

1. The teaching of the course will be via a series of lectures. The use of textbook, and an

Extensive range of web resources plus handouts/articles, video clips and real life

Examples will complement this.

1. Participants should expect 5-6 class activities during the semester, which will form the

Basis for evaluation of class activities, assignments, individual/group presentations and

Quizzes. These activities will be complemented with creative thinking, discussions and

Analysis to strengthen the learning.

**Grade Evaluation Criteria**

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

**Marks Evaluation percentage**

|  |  |
| --- | --- |
| **Quiz** | 10% |
| **Mid Term Examination** | 30% |
| **Project/ Presentation** | 20% |
| **End Term Examination** | 40% |

**Recommended Text Books:**

1. **PILOT’S HANDBOOK OF AERONAUTICAL KNOWLEDGE *published by Federal Aviation Administration***

**Reference Books:**

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**Calendar of Course contents to be covered during semester**

**Course code: AM 112 Course title: Aviation Science**

|  |  |  |
| --- | --- | --- |
| **Week** | **Course Contents** | **Reference Chapter(s)** |
| 1 | Introduction to Flight |  |
| 2 | History of Aviation with Reference to FAA and CAA Pakistan |  |
| 3 | Forces of Aerodynamics & Structure of Aircraft |  |
| 4 | Forces of Aerodynamics & Structure of Aircraft |  |
| 5 | Aircraft Systems |  |
| 6 | Instrumentation |  |
| 7 | Weight & Balance |  |
| 8 | Aviation Weather Services |  |
| 9 | Presentation (individual/ Group) |  |

|  |  |  |
| --- | --- | --- |
| 10 | Instrumentation |  |
| 11 | Airport Operations |  |
| 12 | Navigation |  |
| 13 | Aeromedical/ Human Factors |  |
| 14 | Revision |  |
| 15 | Revision |  |