

University of Management and Technology

Course Outline

Course code: PT 202

Course title: HUMAN PERFORMANCE

Program	BS Aviation Professional Pilot
Credit Hours	3-0
Duration	01 Semester
Prerequisites	Nil
Resource Person	TBD
Counseling Timing (Room#)	TBD
Contact	TBD

Chairman/Director signature.....

Dean's signature.....

Date.....

Course Learning Outcomes: (CLOs)

S No	CLO Statement	Learning Domain and level
1	Explain the fundamental physiological systems and their role in maintaining pilot performance, particularly under high-altitude and flight-specific conditions.	C1
2.	Analyze the effects of human limitations, such as hypoxia, fatigue, sensory illusions, motion sickness, and circadian rhythm disruptions, on flight safety and operational performance.	C2
3.	Apply principles of human factors and aviation psychology to identify risk areas, evaluate the impact of self-care, stress, and medication on pilot decision making and flight safety.	C3

CLO – PLO Mapping:

CLOs	PLO 1 Aeronautical Knowledge	PLO 2 Flight Proficiency	PLO 3 Regulatory Awareness	PLO 4 Safety & Risk Management	PLO 5 Communication Skills	PLO 6 Ethical Responsibility	PLO 7 Technological Adaptability	PLO 8 Teamwork & Leadership	PLO 9 Critical Thinking & Problem Solving	PLO 10 Lifelong Learning
1	★									
2	★			★						
3	★								★	

Learning Methodology:

1. Learning methodology will include interactive class sessions followed by Power Point Slides containing Flight videos.

- Students would be regularly evaluated through quizzes to keep them in pace with the course flow.

Grade Evaluation Criteria

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

Marks Evaluation	Marks in percentage	Details
Quizzes (x 4)	15%	QUIZ 1: CLO 3
		QUIZ 2: CLO 1
		QUIZ 3: CLO 2
		QUIZ 4: CLO 2
Assignments (x3)	10%	Assignment 1: CLO 3. CLO 1
		Assignment 2: CLO 2
		Assignment 3: CLO 1
Mid Term Examination		35% { CLO1 , CLO2, CLO 3 }
End Term Examination		40% { CLO1 , CLO2, CLO 3 }
Total		100%

Recommended Text Books:

EASA textbook for HUMAN PERFORMANCE AND LIMITATIONS. Soft copies will be provided

Reference Books:

EASA Oxford

Course Curriculum Reference:

Please Visit Pakistan Civil Aviation Authority (PCAA), Learning Objectives (LOs) for Personnel Licenses – ATPL, MPL, CPL (Aero plane And Helicopter).

Calendar of Course contents to be covered during semester

Course code: PT 202

Course title: Human Performance

Week	Course Contents	Reference Chapter(s) as per PCAA Learning Objectives	<u>Course Learning Objective (CLO)</u>
1.	Human factors in aviation	040 01 01 01 and 040 01 02 00	CLO3
2.	Accident statistics, Flight safety concepts, QUIZ 1	040 01 02 00	
3.	Basics of flight physiology, Assignment 1	040 02 01 01	CLO1
4.	Respiratory and circulatory system	040 02 01 02	
5.	High altitude environment	040 02 01 03	
6.	Central, peripheral and autonomic nervous systems, QUIZ 2	040 02 02 01	
7.	Vision, Hearing and Equilibrium	040 02 02 02, 040 02 02 03, 040 02 02 04	
8.	Hypoxia, Assignment 2	040 02 01 02	CLO2
9.	Integration of sensory inputs / Mid term	040 02 02 05	
10.	Health and hygiene, Problem areas for pilots	040 02 03 01 to 040 02 03 03	
11.	Health and hygiene, Body rhythm and sleep, QUIZ 3	040 02 03 04 to 040 02 03 05	

12.	Man, and environment: the sensory system	040 02 02 00	CLO1
13.	BASIC AVIATION PSYCHOLOGY, Drugs and self-medication	040 03 01 03 to 040 03 03 03	CLO3
14.	Central, peripheral and autonomic nervous systems, Human information processing	040 02 02 01	CLO1
15.	Vision Functional anatomy, Assignment 3	040 02 02 02	
16.	Hearing- Descriptive and functional anatomy, Motion sickness, Integration of sensory inputs, QUIZ 4	040 02 02 03	CLO2
17.	Final Exam	CLO1 , CLO2, CLO 3	

CLASS POLICY

STUDENTS ARE REQUIRED TO READ AND UNDERSTAND ALL ITEMS OUTLINED IN THE PARTICIPANT HANDBOOK

CLASS ATTENDANCE: Students need to be in class at the assigned time. After 10 minutes past the assigned time, the students will be marked absent.

TURN OFF MOBILE PHONE! It is unprofessional to be texting or otherwise.

READ EMAILS! Participants should regularly check their university emails accounts regularly and respond accordingly. Students would be responsible if they miss a deadline because of not reading the emails.

CLASS ATTENDANCE POLICY: A minimum of 75% attendance is required for a participant to be eligible to sit in the final examination. Being sick and going to weddings is absence and will not be counted as present. Participants with less than 75% of attendance in a course will not be

allowed to take end term exams. International students who will be leaving for visa during semester should not use any days off except for visa trip to avoid reaching short attendance.

MOODLE: UMT –LMS (Moodle) is an Open-Source Course Management System (CMS), also known as a learning Management System (LMS). Participants should regularly visit the course website on MOODLE Course Management system, and fully benefit from its capabilities. In case of any problem while using MOODLE, visit <https://lms.umt.edu.pk/login/index.php>.

HARASSMENT POLICY: Sexual or any other harassment is prohibited and is constituted as punishable offence. Sexual or any other harassment of any participant will not be tolerated. All actions categorized as sexual or any other harassment when done physically or verbally would also be considered as sexual harassment when done using electronic media such as computers, mobiles, internet, emails etc.

USE OF UNFAIR MEANS/ HONESTY POLICY: Any participant found using unfair means or assisting another participant during a class test/quiz, assignments or examination would be liable to disciplinary action.

PLAGIARISM POLICY: All students are required to attach a “Turnitin” report on every assignment, big or small. Any student who attempts to bypass “Turnitin” will receive “F” grade which will count towards the CGPA. The participants submit the plagiarism report to the resource person with every assignment, report, project, thesis etc. If student attempts to cheat Turnitin, a second “F” will be awarded that will count towards the CGPA. There are special rules on plagiarism for final reports etc. all outlined in your handbook

COURSE WITHDRAWAL POLICY: Students may withdraw from a course till the end of the 12th week of the semester. Consequently, grade ‘W’ will be awarded to the student which shall have no impact on the calculation of the GPA of the student. A Student withdrawing after the 12th week shall be automatically awarded “F” grade which shall count in the GPA.

COMMUNICATION OF RESULTS: The results of quizzes and assignments are communicated to the participants during the semester and answer books are returned. It is the responsibility of the course instructor to keep the participants informed about his/her progress during the semester. The course instructor will inform a participant at least one week before the final examination related to his or her performance in the course.

Date.....

