

University of Management and Technology

Course Outline

Course code: PT 231

Course title: Meteorology

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 structure and behavior of the atmosphere, including wind, thermodynamics, clouds, fog, precipitation, air masses, and pressure systems, in relation to aviation.	C1
2.	Interpret and analyze meteorological information such as weather charts, METARs, and TAFs to assess flight conditions and operational decision-making.	C2
3.	Evaluate climatological factors and aviation weather hazards, icing, thunderstorms to ensure safe flight planning and risk management.	C3

CLO – PLO Mapping:

CLOs	PLO 1	PLO 2	PLO 3 Regulatory Awareness	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9 Critical Thinking & Problem Solving	PLO 10
1	★								★	
2	★						★			
3	★			★						

Learning Methodology:

1. Learning methodology will include interactive class sessions followed by Power Point Slides containing Flight videos.
2. Students would be regularly evaluated through quizzes to keep them in pace with the course flow.
3. **Grade Evaluation Criteria**
4. Following is 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 1
		QUIZ 2: CLO 2
		QUIZ 3: CLO 2
		QUIZ 4: CLO 3
Assignments (x3)	10%	Assignment 1: CLO 1
		Assignment 2: CLO 2
		Assignment 3: CLO 3
Mid Term Examination	35% (CLO 1, CLO 2)	
End Term Examination	40% (CLO 1, CLO 2, CLO 3)	
Total	100%	

Recommended Text Books:

EASA textbook Meteorology. 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

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Week	Course Contents	Reference Chapter(s) (PCAA)	Course Learning Objective (CLO)
1	THE ATMOSPHERE	050 01 01 00 to 050 01 03 04	CLO 1

2	THE ATMOSPHERE	050 01 04 04 to 050 01 06 04	CLO 1
3	WIND , QUIZ 1	050 02 00 00	
4	THERMODYNAMICS, Assignment 1	050 03 00 00	
5	CLOUDS AND FOG	050 04 00 00	
6	PRECIPITATION	050 05 00 00	
7	Weather charts QUIZ 2 ,	050 10 02 00	CLO 2
8	AIR MASSES AND FRONTS	050 06 00 00	CLO 1 , CL2
9	PRESSURE SYSTEMS, Mid TERM	050 07 00 00	
10	CLIMATOLOGY	050 08 00 00	CLO 3
11	Aviation weather messages, QUIZ 3 , Assignment 2	050 08 00 00	CLO 2
12	FLIGHT HAZARDS	050 09 01 00	CLO 3
13	FLIGHT HAZARDS, QUIZ 4 , Assignment 3	050 09 06 02	
14	METEOROLOGICAL INFORMATION	050 10 00 00	CLO 2
15	METAR	050 08 03 02	
16	TAF High-pressure area	050 09 09 02	
17	FINAL	All CLOs	

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.....