

University of Management & Technology, Lahore

Office of the Registrar, Johar Town C-II Lahore, Ph. #: 042-35212820



Roadmap

Program Name: Aircraft Maintenance Engineering Technology (AMET)

Program Scheme of Studies

Structure of the Scheme	
Course Type	Course Credit Hours
Core Courses: (Credit Hours)	101
ET Foundation Courses: (Credit Hours)	36
Major Courses: (Credit Hours)	65 (Including SIT)
Technical Courses: (Credit Hours)	06
General Electives: (Credit Hours)	--
Supporting Science: (Credit Hours)	
University Electives: (Credit Hours)	--
General Education Courses: (Credit Hours)	36
Total Credit Hours:	137

Program Road Map

Applicable to Batch No. Session 2025 onwards (F2025206 & onwards)

1 st Year							
1 st -Fall Semester				2 nd -Spring Semester			
Code	Course Title	Cr. Hrs.	Prerequisite	Code	Course Title	Cr. Hrs	Prerequisite
ET114	Applied Mathematics UG2.0	03	NIL	ET104	Electrical Fundamentals	3-1	NIL
ET115	Applied Physics UG2.0	2-1	NIL	ET103	Electronics Fundamentals	3-1	NIL
AS101	Introduction to Aviation	03	NIL	ET107	Engineering Drawing & CAD	1-2	NIL
EN110	English I UG2.0	03	NIL	CC111	Programming Fundamentals	3-1	NIL
IS135	Computer Applications UG2.0	2-1	NIL	ISL112	Islamic Thought and perspective UG2.0	2	NIL
ET102	Basic Aerodynamics	2-1	NIL				
ET113	Mathematics Supplementary	1	NIL				
Semester Credit Hours		18		Semester Credit Hours		17	
2 Year							
Fall Semester				Spring Semester			
Code	Course Title	Cr. Hrs.	Prerequisite	Code	Course Title	Cr. Hrs	Prerequisite
ET235	Aircraft Materials	3-1	NIL	ET236	Aircraft Hardware	3-1	ET235
ET205	Digital Techniques/Electronic Instrument Systems	3-1	ET103, ET104	ET206	Introduction to Mechatronics (Elective)	2-1	NIL
EN123	English II UG2.0	3	NIL	POL101	Pakistan Studies UG2.0	02	NIL

ET337	Mechanics	3-1	NIL	PH205	Heat & Thermodynamics	3	NIL
ET342	Probability & Statistics	3	NIL	ET216	Professional Ethics UG2.0	2	NIL
				AI210	Think AI	2	NIL
				ITC111	Fehm e Quran I UG2.0	1	NIL
Semester Credit Hours		18		Semester Credit Hours		17	

3 Year

Fall Semester				Spring Semester			
Code	Course Title	Cr. Hrs.	Prerequisite	Code	Course Title	Cr. Hrs	Prerequisite
AS336	Human Factors in Aviation UG2.0	3	NIL	ET332	Aircraft Systems II	2-1	ET331
ET331	Aircraft Systems I	3-1	NIL	EN123	Gas Turbine Engine I	3-1	ET234, ET205
ET334	Piston Engine	2-1	NIL	ET231	Aviation Legislation	03	NIL
ET351	Workshop Practices	2-1	NIL	ET352	Aircraft Maintenance Practices	3-1	ET337
AS327	Aviation Entrepreneurship UG2.0	3	NIL	ET318	Capstone Project I	0-3	NIL
ITC122	Fehm e Quran II UG2.0	1	NIL				
Semester Credit Hours		17			Semester Credit Hours	17	

4 Year

Fall Semester				Spring Semester			
Code	Course Title	Cr. Hrs	Prerequisite	Code	Course Title	Cr. Hrs	Prerequisite
ET331	Capstone Project II	0-3	NIL	ET450	Supervised Industrial Training	16	NIL

ET444	Aircraft Structures & Interiors	03	EN110				
ET442	Gas Turbine Engine II	03	NIL				
SD210	Civics and Community Engagement UG2.0	2	NIL				
ET338	Propeller	2-1	ET331				
POL121	Pakistan: Ideology, Constitution and Society	2	NIL				
	Semester Credit Hours	17			Semester Credit Hours	16	

Total Credit Hours: 137

List of Electives (Add list of electives for this program)

ET206	Introduction to Mechatronics
ET343	Aircraft Assembly, Rigging and Ground Handling
PH101	Mechanics
ET346	Introduction to Additive Manufacturing Technology
ETXXX	Introduction to Avionics, UAS
AS310	Aviation Research Methods
ET340	Modern Destructive & Non-Destructive Techniques

Compliance Certificate for UG 2.0

○ **It is hereby certified** that the General Education Courses have been incorporated into the roadmap of AMET Program in accordance with the Undergraduate 2.0 Policy, duly approved by Academic Council vide Meeting No. 40th dated 30-07-2025.

○ **The General Education Courses are not compliant** with the Undergraduate 2.0 Policy due to the requirements of the respective Accreditation Council, as detailed below:

UG 2.0			Deviation		Reason
Sr	Course Title	Cr Hrs	Course Title	Cr Hrs	
1	Arts & Humanities	3	Professional Ethics	2	NTC Req
2	Social Sciences	3	Human Factors in Aviation	2	NTC Req
3	Natural Sciences	2	Applied Physics	2-1	NTC Req
4	Quantitative Reasoning	2	Applied Mathematics	3	NTC Req
5	Entrepreneurship	2	Aviation Entrepreneurship	2	NTC Req

Chairperson of Department

Dean concerned

Director AAQIC

Registrar