The University of Jordan School of Engineering



Department		Course Name		Course Number	Semester		
Mechanical Engineering		Aircraft Maintenance Systems		0994581	Summer		
		2025 Cou	rse Catalog Descriptio	n			
handling, Repai	r station r	equirements, Qua	naintained systems, Integ lity systems, Inventory rcraft systems and instru	control, Structural			
			Instructors				
Name		E-mail Section		Office Hours	Lecture Time		
			Text Books	Text bo	ale 0		
Title		Text book 1		Text bo	OK 2		
Title Author(s)		Aviation Maintenance Management					
Publisher, Year, Edition		H. A. Kinnison, T. Siddiqui 2nd Edition, McGraw-Hill's					
	,		References				
Books	1 115 D	apartment of Tran		tion Pegulatio EAA			
DUUKS		 U.S. Department of Transportation, Federal Aviation Regulatio, FAA. U.S. Department of Transportation, Airframe & Powerplant General Handbook, FAA. 					
	3. U.S. D	U.S. Department of Transportation, Airframe Handbook, FAA.					
		4. U.S. Department of Transportation, Powerplant Handbook, FAA.					
	 5. Aircraft Systems I. Moir and A. Seabridge, 2nd Edition. 6. Aircraft Systems, D. Lombardo, 2nd Edition. 						
Journals	0. Alleral	i Systems, D. Lon					
Internet links							
			Prerequisites				
Prerequisites by	y topic	-	_				
Prerequisites by course		Engineering Math II for Aeronautical Engineering Students 0994202 + Aircraft structure I 0994481					
Co-requisites by course		Maintenance Practice V: Work Experience					
Prerequisite for		-					

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			Topics Co	vereu			
Week			Topics			Cl	hapter in Text
1	Introduction, Devel Objectives	roduction, Development of Maintenance Programs, Definitions, Goals and					
2	Aviation Industry Certification Requirements, Documentation for Maintenance, Requirements for a Maintenance Program						
3	The Maintenance a	The Maintenance and Engineering Organization, Engineering					
4	Production and Planning Control, Technical Publication, Technical Training						
5	Computer Support, Line Maintenance,						
6	Hangar Maintenance, Maintenance Overhaul Shops						
7	Material Support, C	Material Support, Quality Assurance, Quality Control					
8	Reliability						
9-16	Aircraft systems	Aircraft systems					
	Map	oing of Cours	e Outcomes t	o ABET Stu	dent Outcor	nes	
SOs			Course	Outcomes			
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The University of Jordan School of Engineering



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	• •	nd solve complex engi					
CI	igineering, science, and mathema	An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics					
co	An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors						
3 A:	An ability to communicate effectively with a range of audiences						
in	An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts						
	An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives						
	An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions						
7 A	n ability to acquire and apply nev	w knowledge as needed	l, using appropriate learr	ning strategies			
Updated by ABET Committee, 2025							