The University of Jordan School of Engineering



Department			Course Name	Course Number	Semester								
Aircraft maintenance Engineering			Licensing Module 8: Basic Aero	0994157	Summer								
2025 Course Catalog Description													
Theory of flight, Flight stability and dynamics.													
Instructors													
Name			E-mail		Office Hours		Lecture Time						
					Sunday	Tuesday							
MEng. Aasef Hamadneh			ahamadneh@joramco.com.jo		1:00-2:00	1:00-2:00							
Text Books													
Title			Basic Aerodynamics										
Author(s)			EASA										
Publisher, Year, Edition			Issue 2, 2024										
			Referen	ices									
Books													
Journal													
Interne	t links												
			Prerequi	sites									
	uisites by to	_	-										
Prerequisites by course			Licensing Module 8: Basic Aerodynamics (Part 1): 0994156										
Co-requisites by course			-										
Prerequ	uisite for		-										
			Topics Co	vered									
Week	Topics				Chapter in Text								
1	Theory of	flight		Chapter 4									
2	Theory of	flight		Chapter 4									
3-4	Theory of	flight		Chapter 4									
5-6	Theory of	flight		Chapter 4									
6-7	Theory of	flight		Chapter 4									
7-8	8 Flight stability and dynamics						Chapter 5						
9-10							Chapter 5						
11-14							Chapter 5 Chapter 5						
14-15	-15 Flight stability and dynamics												

		M	apping of Co	urse Outcome	es to ABET	Student Outcon	nes						
SO	Mapping of Course Outcomes to ABET Student Outcomes Course Outcomes												
1	State the relationship between lift, drag, thrust and weight.												
1	1 Explain the requirement for stable and unstable flight.												
				Evalı	uation								
Asse	Assessment Tools Expected Due Date Weig												
Projects Projects				Dapettu Dut Dut									
Midterm Exam				20									
Final Exam				50									
	Contribution of Course to Meet the Professional Components												
Contribution of Course to Freet the Frotessional Components													
	Relationship to Student Outcomes												
		_						_					
	SOs	1	2	3	4	5	6	7					
Availability X													
		Relation	ship to Aeron	autical Engin	eering Prog	ram Objectives	(AEPOs)	!					
	AEPO1		AEPO2	AE	PO3	AEPO4		AEPO5					
					0 1 (
				BET Student									
1				solve complex of	engineering pi	roblems by applyi	ng principles of	of engineering,					
		and mathemat		to muod 1-	stiona that	ot specified 1.	المائد ال	otion of mulati-					
2				•		et specified needs nmental, and ecor		ation of public					
3			cate effectively	*		innental, and ceof	TOTHIC TACTORS						
						in engineering si	tuations and n	nake informed					
4		•	•		•	ions in global, ec							
		contexts	st consider the	impact of eligi	ncering solut	ions in giodai, ec	onomic, envir	omnemai, allu					
5			effectively on a t	team whose me	mbers togethe	er provide leadersh	nin, create a col	laborative and					
		•	•		•	•	_r , create a con	instruction und					
6	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	An ability to acquire and apply new knowledge as needed, using appropriate learning strategies												
			II J.4.	d by Curricu		2025							