The University of Jordan School of Engineering



I	Department		Course Name	!		Course Number	Semester	
Aircraft maintenance Engineering		ance	Licensing Module 8: Basic Aerodynamics (Part 1)			0994156		
	<u> </u>		2025 Course Catalo	og Des	scription			
Physics	of the atmos	sphere, A	Aerodynamics, High speed airflow.		•			
			Instruct	ors				
Nome			E-mail	Sec	Office Hours		Lecture Time	
	Name				Sunday	Tuesday		
MEng. A	MEng. Aasef Hamadneh		ahamadneh@joramco.com.jo		1:00-2:00	1:00-2:00		
			Text Bo	oks				
Title			Basic Aerodynamics					
Author	` /		EASA					
Publish	er, Year, E	dition	Issue 2, 2024					
			Referen	ces				
Books								
Journal Interne								
Interne	t IIIKS		Prerequi	ritog				
Preregi	uisites by to	nic	- Trerequis	sites				
	uisites by co							
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			Topics Co	vered				
Week	Topics					Chapter in T	ext	
1	Physics of	the atm	osphere			Chapter 1		
2	Physics of the atmosphere				Chapter 1			
3-4	Aerodynar		_ -			Chapter 2		
5-6	Aerodynar	nics				Chapter 2		
6-7	Aerodynar					Chapter 2		
7-8	High speed	d airflov	W			Chapter 3		
9-10	High speed	d airflov				Chapter 3		
11-14 High speed airflow			W			Chapter 3		
14-15	High speed	d airflov	V			Chapter 3		

Projects Midterm Exam Final Exam Contribution of Course to Meet the Professional Components Relationship to Student Outcomes SOS 1 2 3 4 5 6 7 Availability X Relationship to Aeronautical Engineering Program Objectives (AEPOs) AEPO1 AEPO2 AEPO3 AEPO4 AEPO5	Veight 20% 30% 50%							
Explain aerofoil terms.	20% 30% 50%							
Sos 1 2 3 4 5 6 7	20% 30% 50%							
Assessment Tools Expected Due Date We Projects 2 2 3 5 5 5 6 7 7 7 7 7 7 7 7 7	20% 30% 50%							
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Contribution of Course to Meet the Professional Components	50%							
Contribution of Course to Meet the Professional Components Relationship to Student Outcomes								
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Relationship to Aeronautical Engineering Program Objectives (AEPOs) AEPO1 AEPO2 AEPO3 AEPO4 AEPO5								
AEPO1 AEPO2 AEPO3 AEPO4 AEPO5								
	AEPO5							
ABET Student Outcomes (SOs)								
1 An ability to identify, formulate, and solve complex engineering problems by applying principles of engine	neering							
science, and mathematics An ability to apply engineering design to produce solutions that meet specified needs with consideration of	<u> </u>							
An ability to apply engineering design to produce solutions that meet specified needs with consideration of publi								
health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors An ability to communicate effectively with a range of audiences								
4 An ability to recognize ethical and professional responsibilities in engineering situations and make info	An ability to communicate effectively with a range of audiences							
judgments, which must consider the impact of engineering solutions in global, economic, environmenta								
societal contexts	, uil							
5 An ability to function effectively on a team whose members together provide leadership, create a collaborative	ive an							
inclusive environment, establish goals, plan tasks, and meet objectives								
An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineer								
judgment to draw conclusions								
7 An ability to acquire and apply new knowledge as needed, using appropriate learning strategies								
Updated by Curriculum Committee, 2025								