## The University of Jordan School of Engineering

11-14

14-15

Pneumatics/vacuum (ATA 36),

Water/ waste (ATA 38)



Department	Course Name	Course	Semester
		Number	
Aircraft maintenance	Licensing Module 11: Aeroplane Aerodynamic,	0994352	Fall
Engineering	Structure, and Systems (Part 1)		

## **2025 Course Catalog Description**

Theory of flight, Airframe structures-general concepts, Airframe structures-aeroplanes, Air conditioning and cabin pressurization (ATA21), Equipment and furnishings (ATA 25), Flight controls (ATA 27), Fuel systems (ATA 28), Hydraulic power (ATA 29), Ice and Rain protection (ATA 30), Landing gear (ATA 32), Oxygen (ATA 35), Pneumatics/vacuum (ATA 36), Water/ waste (ATA 38).

Instructors										
Name			E-mail	Sec	Office Hours		Lecture Time			
					Sunday	Tuesday				
MEng. Aasef Hamadneh		h	ahamadneh@joramco.com.jo		1:00-2:00	1:00-2:00				
	Text Books									
Title			Aeroplane Aerodynamic, Structure, and Systems							
Author(s)			EASA							
Publisher, Year, Edition		on	Issue 2, 2024							
References										
Books	Books									
	Journals									
Interne	t links									
			Prerequi	sites						
Prerequ	uisites by topic		-							
Prerequisites by course			-							
Co-requisites by course			-							
Prerequisite for -										
			Topics Co	vered						
Week	Topics					Chapter in To	ext			
1	Theory of f structures-aer		c, Airframe structures-general cones,	Chapter 1,2,3						
2	Air conditioning and cabin pressurization (ATA21),									
3-4	Equipment an	d fu	rnishings (ATA 25), Flight controls	Chapter 5,6						
5-6	Fuel systems	(AT	A 28),	Chapter 7						
6-7	Hydraulic power (ATA 29), Ice and Rain protection (ATA 30),					Chapter 8,9				
7-8	Landing gear (ATA 32),					Chapter 10				
9-10	Oxygen (ATA 35),					Chapter 11				

Chapter 12

Chapter 13

<u> </u>			Map	ping of Cou	ırse Outcome	s to ABET	Student Outcon	nes	
SOs	Course Outcomes								
1	Describe in detail how the aircraft is controlled about its longitudinal, lateral and vertical axis.								
1	Identify and describe in details typical aircraft flight control surfaces.								
					Evalı	ıation			
Assess	ment T	ools		Expected	<b>Due Date</b>				Weight
Projects Projects			1					20%	
Midte	rm Exa	am							30%
Final l	Final Exam								50%
			Contr	ibution of (	Course to Mee	et the Profes	ssional Compon	ents	
				Rel	ationship to S	tudent Out	comes		
SOs		1		2	3	4	5	6	7
Availa	bility	X							
		Rela	tionshi	ip to Aeron	autical Engin	eering Prog	gram Objectives	(AEPOs)	
AEPO1		AEPO2	AEPO3		AEPO4		AEPO5		
							<b>GO</b> .)		
					BET Student	`			
		-	-	mulate, and s	solve complex e	engineering p	roblems by applyi	ing principles	of engineering
		and mathe		anina dasia	to produce sel-	itions that	nat appairing manda	with conside	notion of multi-
					•		eet specified needs onmental, and ecor		ration of public
					with a range of		und ccor	ionno nuctors	
		•					in engineering si	tuations and	make informed
		•	•	•		•	ions in global, ec		
"	•	contexts			. 8	5	5 ,	,	,
5 A	n abilit	y to funct	tion effe	ctively on a t	eam whose mei	nbers togethe	er provide leadersh	nip, create a co	ollaborative and
ir	nclusive	environn	nent, est	ablish goals,	plan tasks, and	meet objectiv	ves		
6 A	n abili	ty to deve	elop and	l conduct app	propriate experi	mentation, a	nalyze and interpr	ret data, and ı	ıse engineering
		t to draw							
7 A	n abilit	y to acqui	ire and a	apply new kn	owledge as nee	ded, using ap	propriate learning	strategies	
				Undate	d by Curricul	lum Commi	ittee, 2025		