## The University of Jordan School of Engineering



Department			Course Name	Course Number	Semester							
Aircraft maintenance Engineering			Licensing Module 4: Electron	0994152	Fall							
			2025 Course Catal	og Des	scription							
Semicor	nductors, Pi	rinted cir	cuit boards, Servomechanisms.									
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 Bo	oks								
Title			Electronic Fundamentals									
Author(s)			EASA									
Publish	er, Year, E	dition	Issue 2 , 2024									
			Referen	ices								
Books Journa	la											
Interne												
			Prerequi	sites								
Prerequ	uisites by to	opic										
Prerequisites by course			-									
Co-requisites by course			-									
Prerequisite for			-									
			Topics Co	vered								
Week	Topics				Chapter in Text							
1	Semicond	uctors,			Chapter 1							
2	Semicond	uctors			Chapter 1							
3-4	Semicond	uctors			Chapter 1							
5-6	Semicond	uctors			Chapter 1							
6-7	Printed ci	rcuit boa	rds,		Chapter 2							
7-8	Printed ci	rcuit boa	rds		Chapter 2							
9-10	Servomec	hanisms			Chapter 3							
11-14	Servomec	hanisms				Chapter 3						
14-15	Servomed	hanisms			Chapter 3							

Mapping of Course Outcomes to ABET Student Outcomes													
SO	s	Course Outcomes											
2		Where applicable, the student will also be able to read, understand and use sketches, drawings, schematics and practical demonstration to describe the subjects.											
4	elect	At the satisfactory completion of this Module the student will be able to give the required description of the electrical fundamentals as appropriate, typical examples and mathematical formulae in conjunction with physical laws.											
Evaluation													
Assessment Tools				Expected Due Date									
Proj													
	term Exa	am											
Fina	l Exam		~										
Contribution of Course to Meet the Professional Components													
Relationship to Student Outcomes													
					-								
	SOs	1		2	3	4	5	6	7				
Ava	ilability		X			X							
		Rela	tionshi	p to Aerona	utical Engin	eering Pro	gram Objectives	(AEPOs)					
	AEPO1		AEPO2	AEPO3		AEPO4		AEPO5					
				4 D		0							
1	An abili	u to idan	tify form		ET Student		(SOS) problems by applyi	na principles	fanginaging				
1		and math	-	nulate, and so	ive complex e	ngineering p	noblems by applyi	ing principies (	n engineering,				
2				ering design t	o produce solu	itions that m	eet specified needs	with consider	ation of public				
					-		onmental, and ecor		Å				
3	An abilit	An ability to communicate effectively with a range of audiences											
4			-	—			in engineering si						
			must co	onsider the ir	npact of engin	neering solu	tions in global, ec	conomic, envir	onmental, and				
_	societal								11 ala anoti 1				
5		•		•	am whose mei blan tasks, and	•	er provide leadersh	np, create a co	liaborative and				
6						÷		et data. and u	se engineering				
		An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions											
7		In ability to acquire and apply new knowledge as needed, using appropriate learning strategies											
	Updated by Curriculum Committee, 2025												