The University of Jordan School of Engineering

7-8

9-10

11-14

14-15

systems.

Electrostatic sensitive devices,

Software management control,

Software management control,

Electromagnetic environment, Typical electronic/ digital aircraft



Department		Course Name			Course Number		emester	
Aircraft maintenance		Licensing Module 5: Digital Techniques/ Electronic			0994154	1	Spring	
Engineering		Instrument Systems (Part 2)						
		2025 Course Catalo	og De	scription				
	•	lisplays, Electrostatic sensitive de	vices,	Software m	anagement c	ontrol, Elec	etromagnetic	
environ	ment, Typical elect	ronic/ digital aircraft systems.						
		Instruct	ors					
Name		E-mail	Sec	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		Digital Techniques Electronic Instrument Systems						
Author(s)		EASA						
Publish	er, Year, Edition	Issue 2, 2024						
		Referen	ces					
Books	_							
Journa Interne								
Interne		Prerequi	citec					
Preregi	uisites by topic	-						
	uisites by course	Licensing Module 5: Digital Techniques/ Electronic Instrument Systems (Part 1): 0994153						
_	uisites by course	-						
•	uisite for	-						
		Topics Co	vered					
Week	Topics				Chapter in Text			
1	Fiber optics,			Chapter 7				
2	Fiber optics,				Chapter 7			
3-4	Electronic displays,				Chapter 8			
5-6	5-6 Electronic displays,					Chapter 8		
6-7	6-7 Electrostatic sensitive devices,				Chapter 9			

Chapter 9

Chapter 10 Chapter 10

Chapter 11,12

SOs Course Outcomes									
	Course Outcomes								
Where applicable, the student will also be able to read, understand and use sketches, drawings, schematics and practical demonstration to describe the subjects.									
At the satisfactory completion of this Module the student will be able to give the required delectrical fundamentals as appropriate, typical examples and mathematical formulae in ophysical laws.	•								
Evaluation									
Assessment Tools Expected Due Date	Weight								
Projects	20%								
Midterm Exam	30%								
Final Exam									
Contribution of Course to Meet the Professional Components									
Relationship to Student Outcomes									
SOs 1 2 3 4 5 6	7								
Availability X X									
Relationship to Aeronautical Engineering Program Objectives (AEPOs)									
AEPO1 AEPO2 AEPO3 AEPO4	AEPO5								
ABET Student Outcomes (SOs)									
1 An ability to identify, formulate, and solve complex engineering problems by applying principle	s of engineering								
science, and mathematics	s of engineering								
2 An ability to apply engineering design to produce solutions that meet specified needs with considering the specified needs with the specified needs with considering the specified needs with the specified needs and the specified needs with the specified needs and the specified needs are specified needs as the specified needs and the specified needs are specified needs as the specified needs and the specified needs are specified needs as the specified needs are specified needs as the specified needs are specified needs.	•								
health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors	•								
3 An ability to communicate effectively with a range of audiences	· · · · · · · · · · · · · · · · · · ·								
4 An ability to recognize ethical and professional responsibilities in engineering situations and	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, envi									
societal contexts									
5 An ability to function effectively on a team whose members together provide leadership, create a	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									
udgment to draw conclusions									
7 An ability to acquire and apply new knowledge as needed, using appropriate learning strategies									
7 In ability to acquire and apply new knowledge as needed, using appropriate learning strategies									