



Department	Course Name	Course Number	Semester			
Aircraft maintenance Engineering	Licensing Module 11: Aeroplane Aerodynamic, Structure, and Systems (Part 2)	0994353	Spring			
2025 Course Catalog Description						
Instruments/ avionics systems, Electrical power (ATA 24), Fire protection (ATA26), Lights (ATA 33), On board maintenance systems (ATA 45), Integrated Modular Avionics (ATA42), Cabin Systems (ATA 44), Information Systems (ATA46).						
Instructors						
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 Books						
Title	Aviation Legislation					
Author(s)	EASA					
Publisher, Year, Edition	Issue 2 , 2024					
References						
Books						
Journals						
Internet links						
Prerequisites						
Prerequisites by topic	-					
Prerequisites by course	Licensing Module 11: Aeroplane Aerodynamic, Structure, and Systems (Part 1): 0994352					
Co-requisites by course	-					
Prerequisite for	-					
Topics Covered						
Week	Topics		Chapter in Text			
1	Instruments/ avionics systems,		Chapter 14			
2	Electrical power (ATA 24),		Chapter 15			
3-4	Fire protection (ATA26),		Chapter 16			
5-6	Lights (ATA 33),		Chapter 17			
6-7	On board maintenance systems (ATA 45),		Chapter 18			
7-8	Integrated Modular Avionics (ATA42),		Chapter 19			
9-10	Cabin Systems (ATA 44),		Chapter 20			
11-14	Information Systems (ATA46),		Chapter 21			
14-15	Information Systems (ATA46)		Chapter 21			

Mapping of Course Outcomes to ABET Student Outcomes							
SOs	Course Outcomes						
1	Describe aircraft lighting.						
1	Identify and Describe in Full Details with Reference to Examples.						
Evaluation							
Assessment Tools		Expected Due Date					Weight
Projects							20%
Midterm Exam							30%
Final Exam							50%
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
ABET Student Outcomes (SOs)							
1	An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics						
2	An ability to apply engineering design to produce solutions that meet specified needs with consideration of public 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 make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts						
5	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						
6	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						
Updated by Curriculum Committee, 2025							