The University of Jordan School of Engineering

7-8

9-10

11-14

14-15

Corrosion

Corrosion

Aircraft materials-non ferrous,

Aircraft materials-composite and non-metallic,



Department Aircraft maintenance Engineering		Course Name	Course Number	r						
		Licensing Module 6: Materia	0994155	5 Spring						
		2025 Course Catal	og De	scription						
	_	ns, Springs, Bearings, Transmissions, t materials-nonferrous, Aircraft mate								
		Instruc	tors							
				Office Hours		Lecture Time				
Name		E-mail	Sec	Sunday	Tuesday					
MEng. Aasef Hamadneh		ahamadneh@joramco.com.jo		1:00-2:00	1:00-2:00					
		Text Bo	oks							
Title		Materials & Hardware								
Author	\ /	EASA								
Publish	er, Year, Editio	Issue 2 , 2024								
D 1		Referen	ices							
Books Journal	la .									
Interne										
		Prerequi	sites							
Preregi	uisites by topic	-	BICCS							
Prerequisites by course		-								
Co-requisites by course		-								
Prerequisite for		-								
		Topics Co	vered							
Week	Topics		Chapter in Text							
1	Fasteners,		Chapter 1							
2	Pipes and unions,					Chapter 2				
3-4	Springs, Bearings, Transmissions,					Chapter 3,4				
5-6 Control cables, Electrical cables and connectors,					Chapter 4,6					
6-7	Aircraft materia	Chapter 7								

Chapter 8

Chapter 9

Chapter 10

Chapter 10

		M	apping of Cou	ırse Outcome	es to ABET	Student Outcom	ies						
SOs	77 7												
2	Characteristics, properties and identification of common alloy steels used in aircraft;												
4	Characteristics, properties and identification of common composite and non-metallic materials, other than wood, used in aircraft;												
				Evalı	uation								
Asses	Assessment Tools Expected Due Date												
Projects Projects			-										
Midterm Exam													
Final Exam				5									
		Coi	ntribution of (Course to Med	et the Profe	ssional Compon	ents	·					
			Rel	ationship to S	Student Out	comes							
S	SOs 1		2	3	4	5	6	7					
Availability			X		X								
	•	Relation	shin to Aeron	utical Engin	eering Prog	gram Objectives	(AEPOs)						
			AEPO2		PO3	AEPO4	·	AEPO5					
AEI OI							1121 00						
		.	Al	BET Student	Outcomes ((SOs)	·						
1	An abilit	ty to identify,	formulate, and s	solve complex e	engineering p	roblems by applyi	ng principles o	of engineering,					
	science,	and mathemat	ics										
				•		eet specified needs		ation of public					
					·	onmental, and econ	omic factors						
	An ability to communicate effectively with a range of audiences												
		•	•		•	in engineering sit							
			st consider the	impact of engi	neering solut	tions in global, ec	onomic, envir	onmental, and					
	societal		CC .: 1	1	1			1.1					
		•	· ·		•	er provide leadersh	ıp, create a col	laborative and					
			establish goals,	•			at data and w	a anginassina					
	An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions												
	An ability to acquire and apply new knowledge as needed, using appropriate learning strategies												
	. III doill	ij io acquire ai	appij new Kn	o micago ao mo	aca, asing ap	propriate fearing	Junio 5100						