The University of Jordan
School of Engineering

Department	Course Name	Course Number	Semester
Aircraft maintenance Engineering	Licensing Module 9: Human Factors	0994158	Summer

2025 Course Catalog Description

General, Human performance and limitations, Social psychology, Factors that affect performance, Physical environment, Tasks, Communication, Human error, Safety management, Dirty Dozen and risk mitigation.

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	Human Factors	
Author(s)	EASA	
Publisher, Year, Edition	Issue 2 , 2024	

References

Books	
Journals	
Internet links	

Prerequisites

Prerequisites by topic	-
Prerequisites by course	-
Co-requisites by course	-
Prerequisite for	-

Topics Covered

Week	Topics	Chapter in Text
1	General,	Chapter 1
2	Human performance and limitations,	Chapter 2
3-4	Social psychology,	Chapter 3
5-6	Factors that affect performance,	Chapter 4
6-7	Physical environment,	Chapter 5
7-8	Tasks, Communication,	Chapter 6
9-10	Human error,	Chapter 7
11-14	Safety management,	Chapter 8
14-15	Dirty Dozen and risk mitigation	Chapter 9

Mapping of Course Outcomes to ABET Student Outcomes

SOs	Course Outcomes
1	Identify the need for a study of Human Factors.
4	Show an awareness of personal and group motivation, and de-motivation, as well as methods of control.

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**			**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