The University of Jordan
School of Engineering

Department	Course Name	Course Number	Semester
Aircraft maintenance Engineering	Licensing Module 17: Propeller	0994256	Summer

2025 Course Catalog Description

Fundamentals, Propeller construction, Propeller pitch control, Propeller synchronizing, Propeller ice protection, Propeller maintenance, Propeller storage and Preservation.

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	Propeller	
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	Fundamentals,	Chapter 1
2	Propeller construction,	Chapter 2
3-4	Propeller pitch control,	Chapter 3
5-6	Propeller synchronizing,	Chapter 4
6-7	Propeller ice protection,	Chapter 5
7-8	Propeller maintenance,	Chapter 6
9-10	Propeller maintenance,	Chapter 6
11-14	Propeller storage and Preservation.	Chapter 7
14-15	Propeller storage and Preservation.	Chapter 8

Mapping of Course Outcomes to ABET Student Outcomes

SOs	Course Outcomes
2	Draw a detailed diagram of a propeller blade element and Identify all the blade element constituent components.
4	Describe the conditions requiring different propeller pitch settings for propellers.

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