

The University of Jordan
School of Engineering



Department	Course Name		Course Number	Semester
Mechanical Engineering	Scientific Research (II)		0904907	
2025 Course Catalog Description				
This course includes the basics of citation, how to design the scientific project, and what kind of quality standards must be followed to improve the student's skills in the achievement of scientific research. In this course, the student prepares a research proposal and an action plan for the doctoral thesis. After choosing a scientific research topic, the student will write a proposal that includes a specific topic for research and a detailed work plan for the following classes.				
Instructors				
Name	E-mail	Section	Office Hours	Lecture Time
Prerequisites				
Prerequisites by topic				
Prerequisites by course	0904905			
Co-requisites by course				
Prerequisite for				
Topics Covered				
Week	Topics			
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
Evaluation				
Assessment Tools		Expected Due Date		Weight

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Contribution of Course to Meet the Professional Components									
Relationship to Student Outcomes									
SOs	1	2	3	4	5	6	7		
Availability									
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 ABET Committee, 2025									