Jordan University of Science and Technology

Faculty of Engineering

Aeronautical Engineering Department

AE591 Graduation Project I - JNQF Level: 7

First Semester 2023-2024

Course Catalog
1 Credit Hours. Provides students the opportunity to individually explore an aeronautical engineering problem or issue within their field of study and apply their education to solving the problem for the benefit of the local community and society as a whole. Students produce a short report that documents the application of previous learning, experience and knowledge to the problem at hand, and evaluates the results.

Text Book	
Title	AE Assessment Rubrics for BS Projects, available from the BS by the project advisor or project advisor or Committee
Author(s)	Committee
Edition	1st Edition
Short Name	1
Other Information	

Instructor	
Name	**Dr. ABDALLAH ALMOMANI**
Office Location	N1- L2
Office Hours	Sun : 08:30 - 09:30 Sun : 10:30 - 11:30 Mon : 11:30 - 13:00 Tue : 08:30 - 09:30 Tue : 10:30 - 11:30 Wed : 11:30 - 13:00 Thu : 08:30 - 09:30
Email	amalmomani0@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: U : -
Room: LAB

Tentative List of Topics Covered		
Weeks	**Topic**	**References**
Week 1	Project selection and team formation	
Weeks 1, 2	Problem Definition	
Weeks 2, 10	Literature review and data collection	
Weeks 10, 14	Progress report	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Recall fundamental principles and concepts in aeronautical engineering relevant to the chosen problem or issue. [1SO1] [1L7K1]	10%	
Comprehend the aeronautical engineering problem or issue, recognizing its significance in the context of the local community and broader society. [1SO4] [1L7C2]	10%	
Apply aeronautical engineering knowledge and skills to individually explore, analyze, and address the identified problem for the benefit of the local community. [1SO2] [1L7S1, 1L7S2]	10%	
Evaluate and analyze the aeronautical engineering problem, considering its components, variables, and potential implications on the community and society. [1SO6] [1L7S3]	10%	
Assess the effectiveness of the applied solutions and interventions, considering both the technical aspects and their impact on the local community and society. [1SO3] [1L7C3]	10%	
Develop innovative solutions and interventions by synthesizing aeronautical engineering knowledge, experience, and principles to address the identified problem effectively. [1SO5] [1L7C1, 1L7C3]	10%	
Present findings and recommendations coherently in a short report, effectively communicating the application of previous learning, experience, and knowledge to the aeronautical engineering problem. [1SO3] [1L7C3]	20%	
Reflect on the learning process, recognizing the challenges encountered, the decision-making processes involved, and the overall contribution to the local community and society. [1SO7] [1L7C4]	20%	

Relationship to Program Student Outcomes (Out of 100%)						
SO1	SO2	SO3	SO4	SO5	SO6	SO7
10	10	30	10	10	10	20

Relationship to NQF Outcomes (Out of 100%)							
L7K1	L7S1	L7S2	L7S3	L7C1	L7C2	L7C3	L7C4
10	5	5	10	5	10	35	20

Evaluation	
Assessment Tool	**Weight**
Advisor evaluation	80%
Project Coordinator	20%

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