



Jordan University of Science and Technology
Faculty of Engineering
Chemical Engineering Department

CHE490 Engineering Practice - JNQF Level: 7

First Semester 2023-2024

Course Catalog

3 Credit Hours. Provides students the opportunity to individually explore a mechanical 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	Engineering Training Website
Author(s)	Faculty of Engineering at J.U.S.T
Edition	1st Edition
Short Name	1
Other Information	

Instructor

Name	Mr. SALAHEDDIN ABUYAHYA
Office Location	CH2 L-2
Office Hours	
Email	seabuyahya@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: Thu : 15:30 - 16:30
Room: LAB

Tentative List of Topics Covered

Weeks	Topic	References
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Eight weeks of practical training in an institution (university, company, etc) that is accredited by the chemical engineering department and faculty of engineering at JUST for training purposes in the field of chemical engineering.	From 1

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics [1SO1] [1L7S2]	15%	
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 [1SO2] [1L7C4]	15%	
An ability to communicate effectively with a range of audiences [1SO3] [1L7C4]	20%	
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 [1SO4] [1L7C2]	25%	
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 objective [1SO5] [1L7C3]	10%	
An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions [1SO6] [1L7S3]	5%	
An ability to acquire and apply new knowledge as needed, using appropriate learning strategies [1SO7] [1L7K1]	10%	

Relationship to Program Student Outcomes (Out of 100%)						
SO1	SO2	SO3	SO4	SO5	SO6	SO7
15	15	20	25	10	5	10

Relationship to NQF Outcomes (Out of 100%)					
L7K1	L7S2	L7S3	L7C2	L7C3	L7C4
10	15	5	25	10	35

Evaluation	
Assessment Tool	Weight
Practical training survey	100%

Policy	
1	Students are responsible for coordinating with the training advisor for follow up in regards to the training instructions, training deadlines, report deadline, list of accredited companies, and available opportunities.

2	The students may receive training in any accredited company or institution inside Jordan or overseas. The engineering training section also provides sponsored engineering training opportunities from Arab Council for Training Students of Arab Universities (ACTSAU) and IAESTE in Europe.
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