



Jordan University of Science and Technology
Faculty of Science & Arts
Chemistry Department

CHEM493 Graduation Project - JNQF Level: 7

Summer Semester 2023-2024

Course Catalog

3 Credit Hours. The Chemistry Department is committed to providing research experience within the fields of chemistry to all students through the Chem 493 graduation project course. The course is designed to provide students with direct research experience including aspects of literature search, planning and designing experiments, data collection, analysis, and interpretation. Students will also gain experience in scientific communication by submitting a written final report and defend the results of their research in front of a faculty committee.

Teaching Method: Blended

Instructor

Name	Dr. Ayat Bani Rashaid
Office Location	-
Office Hours	
Email	ahbanirashaid@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: U : 00:00 - 00:00
Room: U

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Assignment of student to supervisors and meeting with supervisor	
Week 2	Training workshop 1	
Week 3	Training workshop 2	
Week 4	Training workshop 3	
Week 5	Training workshop 4	

Week 7	Experimental work complete	
Week 8	Deadline for project report and abstract submission and oral presentation	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Utilize skills relating to the process of conducting science and apply the scientific method. [1a, 1b] [1L7K1, 1L7S1]	20%	
Demonstrate the use of modern chemical research methods to solve a given scientific task [1d, 1e] [1L7S3, 1L7C1]	20%	
Apply the basics of experimental design, data collection, data analysis and hypothesis testing [1f, 1g] [1L7C1, 1L7C2]	20%	
Communicate ideas, scientific knowledge and experimental results through written report and oral presentation [1a, 1e] [1L7S3, 1L7C3]	20%	
Make connections between theoretical and practical knowledge [1L7S3, 1L7C3]	20%	

Relationship to Program Student Outcomes (Out of 100%)										
a	b	c	d	e	f	g	h	i	j	k
20	10		10	20	10	10				

Relationship to NQF Outcomes (Out of 100%)						
L7K1	L7S1	L7S3	L7C1	L7C2	L7C3	
10	10	30	20	10	20	

Evaluation	
Assessment Tool	Weight
Written research report	20%
Written abstract	30%
Oral presentation	40%

Date Printed: 2024-07-24