



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

PHY495 Graduation Project - JNQF Level: 7

Second Semester 2023-2024

Course Catalog

3 Credit Hours. - This course is offered to students majoring in physics and must be completed during the graduation semester of the student. The students in this course are divided into groups. In each group 2-3 students form a research group under the supervision of a faculty member. The members of each group have the opportunity to work on a research project in a physics field of their interest under the supervision of a department professor. This course provides the students with the opportunity to study a specific problem by themselves, either theoretical or experimental; under the supervision of an academic staff, using the knowledge that student gained in all years of his/her major study. Students should get enough training in research literature reading and reviewing scientific articles, presentation skills and writing scientific articles. At the end of the semester, each group must submit a prepared report in the form of a research manuscript and present it in a practical presentation in front of assigned committee.

Teaching Method: Blended

Instructor

Name	Dr. Adnan Shariah
Office Location	PH3 L1
Office Hours	
Email	shariah@just.edu.jo

Class Schedule & Room

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

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Ability to apply knowledge of physics and mathematics toward solving the problem. [2SLO1(K1S1)] [1L7K1, 1L7S1]	12%	
Students will be able to write/follow a procedure toward solving the problem. [2SLO2(S23C1)] [1L7S2, 1L7S3, 1L7C1]	10%	

Student will be able to analyze results and perform data acquisition through conducting experiment [3SLO3(C24)] [1L7C2, 1L7C4]	15%	
Be able to prepare a well written scientific report and deliver a well-organized presentation [2SLO4(C3)] [1L7C3]	33%	
Identify and practice research ethics and academic honesty [3SLO5(C4)] [1L7C4]	12%	
Work collaboratively and fulfill his/her duties as a team member [3SLO6(S2C3)] [1L7S2, 1L7C3]	18%	

Relationship to Program Student Outcomes (Out of 100%)					
SLO1(K1S1)	SLO2(S23C1)	SLO3(C24)	SLO4(C3)	SLO5(C4)	SLO6(S2C3)
12	10	15	33	12	18

Relationship to NQF Outcomes (Out of 100%)							
L7K1	L7S1	L7S2	L7S3	L7C1	L7C2	L7C3	L7C4
6	6	12.33	3.33	3.33	7.5	42	19.5

Evaluation	
Assessment Tool	Weight
Evaluation of the Committee	100%

Date Printed: 2024-03-14