



**Jordan University of Science and Technology**  
**Faculty of Applied Medical Sciences**  
**Allied Medical Sciences Department**

LM491 Scientific Research Methods - JNQF Level: 7

Summer Semester 2023-2024

**Course Catalog**

1 Credit Hours. The course teaches students about the scientific method for problem-solving, covering topics like literature review, asking scientific questions, stating hypotheses, setting study objectives, choosing study designs, collecting and analyzing data, writing grant proposals, and composing reports.

**Teaching Method:** Electronic Course

**Text Book**

<b>Title</b>	Research Methods: A Process of Inquiry
<b>Author(s)</b>	Graziano and Raulin
<b>Edition</b>	8th Edition
<b>Short Name</b>	Ref #1
<b>Other Information</b>	

**Instructor**

Name	<b>Dr. REFAT NIMER</b>
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**Instructor**

Name	<b>Prof. Omar Khabour</b>
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Class Schedule & Room
Section 1: Lecture Time: Sun : 18:00 - 19:00 Room: متزامن الحضور منصة الكترونية
Section 2: Lecture Time: Tue : 18:00 - 19:00 Room: متزامن الحضور منصة الكترونية

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Introduction	From <b>Ref #1</b>
Week 2	Research is a Process of Inquiry	From <b>Ref #1</b>
Weeks 3, 4	Basic Research concepts	From <b>Ref #1</b>
Week 5	Research Ethics	From <b>Ref #1</b>
Weeks 6, 7, 8, 9	Basic Research Quantitative Designs	From <b>Ref #1</b>
Weeks 10, 11	Population and Sampling	From <b>Ref #1</b>
Weeks 12, 13	Qualitative Methodologies	From <b>Ref #1</b>
Weeks 14, 15	Proposal and scientific report writing	From <b>Ref #1</b>

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Understand and explain the basic steps of scientific research. [1SLO6] [1L7K1]	30%	
Suggest and discuss scientific questions in the student's field of study. [1SLO6] [1L7S1, 1L7C4]	30%	
Learn how to write a scientific proposal. [1SLO6] [1L7C4]	20%	
Learn how to write a scientific report [1SLO6] [1L7S3, 1L7C4]	20%	

Relationship to Program Student Outcomes (Out of 100%)											
SLO1	SLO2	SLO3	SLO4	SLO5	SLO6	MSLO1	MSLO2	MSLO3	MSLO4	MSLO5	MSLO6
					100						

Relationship to NQF Outcomes (Out of 100%)			
L7K1	L7S1	L7S3	L7C4
30	15	10	45

**Policy**

**Attendance  
Policy**

Attendance is mandatory for all classes. Absences exceeding 20% will result in suspension from the course. Absences are recorded electronically, and students exceeding the limit will be notified via email. Regular attendance is essential for academic success, as lecture participation significantly influences grades. Students are accountable for all material covered in lectures.

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