



Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Radiologic Technology Department

RA734 Research Methods

Summer Semester 2023-2024

Course Catalog

2 Credit Hours. This course provides the student with the principles and methods of conducting practical research in health care are covered. Students are required to select research topics, organize a research committee, develop a timeline and complete a through literature review.

Teaching Method: On Campus

Instructor

Name	Prof. Fedda Alzoubi
Office Location	PH3 L1
Office Hours	Sun : 12:00 - 14:00 Mon : 12:00 - 14:00 Tue : 12:00 - 14:00 Wed : 12:00 - 14:00
Email	fedda@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: Sun, Mon, Tue, Wed : 10:00 - 11:00
Room: LAB

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Introduction to Research	
Week 2	Research Questions	
Week 3	Literature Review	
Week 4	Designs and Collection	

Week 5	Qualitative Design	
Week 6	Research Proposal	
Week 7	Midterm Exam	
Week 8	Sampling	
Week 9	Ethical Issues in Research Design	
Week 10	Data Analysis (Quantitative)	
Week 11	Data Analysis (Normality)	
Week 12	Validity and reliability	
Week 13	Philosophical Assumptions	
Week 14	Philosophical Assumptions 2	
Week 15	Revision	
Week 16	Final Exam	

Mapping of Course Outcomes to Program Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Examine the role and importance of scientific inquiry and how it guides health care research. [1PLO M1]	15%	
Describe the flow and sequence of activities in quantitative and qualitative research. [1PLO M3]	15%	
Demonstrate understanding of applied research designs, methods, and analysis strategies in the health sciences. [1PLO M2]	15%	
Develop a research proposal based in literature and inclusive of methodology and instruments appropriate for healthcare. [1PLO M3]	25%	
Demonstrate understanding of ethical principles and standards in research with human subjects. [1PLO M4]	15%	
Apply critical thinking and scientific approaches in evaluating literature and research findings. [1PLO M4]	15%	

Relationship to Program Student Outcomes (Out of 100%)												
PLO B1	PLO B2	PLO B3	PLO B4	PLO B5	PLO B6	PLO B7	PLO M1	PLO M2	PLO M3	PLO M4	PLO M5	PLO M6
							15	15	40	30		

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