



Jordan University of Science and Technology
Faculty of Nursing
Nursing Department

NUR790 Advanced Research In Nursing

First Semester 2024-2025

Course Catalog

3 Credit Hours. This course focuses on quantitative research methods emphasizing skills required to systematically conduct research and evaluate current nursing knowledge to promote evidence-based nursing practice. There is an emphasis on articulating theory, academic writing skills, ethics, design, measurement, and data analysis in the context of specific research examples. Specific research techniques and data analysis procedures for the various design types are discussed and evaluated. The course also focuses on the evaluation and utilization of nursing research and evidence as it relates to changing and improving nursing practice, education, management, and health policy. The course culminates in the critiquing of research studies and the development of research proposals for clinical and applied applications.

Teaching Method: On Campus

Text Book

Title	Nursing Research: Generating and Assessing Evidence for Nursing Practice.
Author(s)	Polit, D., & Beck, C. (2017).
Edition	10th Edition
Short Name	Nursing Research
Other Information	Philadelphia : Wolters Kluwer Health.Tenth edition. Copyright ? 2017 Wolters Kluwer

Course References

Short name	Book name	Author(s)	Edition	Other Information
The practice of nursing research	The practice of nursing research (8thed.).	Burns, N., & Grove, S. (2017).	8th Edition	Philadelphia: W.B. Sanders.
Essentials of Nursing Research	Essentials of Nursing Research: Appraising Evidence for Nursing Practice.	Polit, D., & Beck, C. (2010).	7th Edition	Philadelphia: Lippincott, Williams & Wilkins. ?7th edition
Introduction to nursing research	Introduction to nursing research: incorporating evidence-based practice.	Boswell, C., Cannon, S. (2007).	4th Edition	Jones and bartlett.

Instructor	
Name	Prof. Muntaha Gharaibeh
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Instructor	
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Instructor	
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Class Schedule & Room
<p>Section 1: Lecture Time: Sun : 09:00 - 12:00 Room: U</p> <p>Section 2: Lecture Time: Mon : 09:00 - 12:00 Room: U</p> <p>Section 3: Lecture Time: Tue : 12:00 - 15:00 Room: U</p> <p>Section 6: Lecture Time: Wed : 11:30 - 14:30 Room: U</p>

Tentative List of Topics Covered		
Weeks	Topic	References

Week 1	- Orientation - Introduction to the course requirements and materials.	
Week 2	- Introduction to nursing research * Importance of research in nursing * Sources of knowledge for nursing * Purposes of nursing research - Overview of the research process * Basic research terminology (the building blocks of research) * Major steps in a quantitative study * Activities in a qualitative study - Nurses? role in research	From Nursing Research , From Introduction to nursing research
Week 3	- Evidence-Based Nursing Practice: Fundamentals	From Nursing Research , From Essentials of Nursing Research , From Introduction to nursing research
Week 4	- Research problem, questions, & hypothesis * Research problems & research questions * Sources of research problems * Communicating research problem * Research hypotheses * Tips on developing research problems, research questions, and hypotheses	From Nursing Research , From Introduction to nursing research
Week 5	- Literature Review and Theoretical Framework * Purposes uses of a literature review * Locating relevant literature for a research review * Preparing a written literature review - Reading research reports * Types of research reports * The contents of a research report * Style of Research journal article * Reading, summarizing, & and critiquing research reports - Examining the conceptual/ theoretical basis of the study	From Nursing Research , From The practice of nursing research
Week 6	Ethics of nursing research * The need for ethical guidelines * The principle of beneficence, respect of human dignity, & and justice * Procedure for protecting study participants * Risk & benefit assessment; Informed consent, * Vulnerable subjects * Confidentiality, IRB * Other ethical issues * Ethical issues in a research study * Writing a research proposal	From Nursing Research , From The practice of nursing research
Week 7	Research design (Quantitative) * Experimental/Quasi/ non-experimental * Research design & the time dimension - Research control in quantitative research * Controlling external factors * Controlling external/ intrinsic factor * Internal Validity/ External validity - Characteristics of good design * Statistical conclusion validity * Internal validity * External validity	From Nursing Research , From The practice of nursing research

Week 8	- Sampling designs * Basic sampling concepts in quantitative studies * Probability/ non-probability sampling * Sample size in quantitative studies * Sampling in qualitative research	From Nursing Research , From The practice of nursing research
Week 9	- Research design /Qualitative * The design of qualitative studies * Qualitative research traditions * Analysis of qualitative data	From Nursing Research , From The practice of nursing research
Week 10	- Data Collection methods * Overview of data collection * Self-report * Observational methods * Other methods of data collection	
Week 11	- Evaluating measurements & data quality * Measurement * Reliability of measuring instruments * Validity	From Nursing Research
Week 12	- Data analysis * Descriptive statistics	From Nursing Research
Week 13	Data analysis * Inferential statistics	From Nursing Research
Week 14	- Data analysis * Bivariate statistics * Multivariate statistic	From Nursing Research
Week 15	- Revision	

Mapping of Course Outcomes to Program Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Critically analyze and evaluate nursing and interprofessional research studies to understand evidence-based practice foundations.	15%	Midterm Exam, Final Exam
Apply current evidence to theoretical practice scenarios, demonstrating an understanding of evidence translation into practice.	15%	Midterm Exam, Final Exam
Develop research proposals using foundational research methods and basic statistical analysis techniques	15%	Final (proposal)
Design a research proposal that addresses a gap in nursing practice evidence.	10%	Final (proposal)

Participate in and facilitate group critiques of research papers, demonstrating skills in collaboration and application of research concepts.	15%	Critique and presentation
Demonstrate leadership skills by collaborating in teams to critique research papers and propose evidence-based practice changes.	10%	Critique and presentation
Demonstrate foundational knowledge of the research process, including the steps required for professional dissemination of findings, through exams and written proposals	20%	Midterm Exam, Final Exam

Relationship to Program Student Outcomes (Out of 100%)					
EPSLO1	EPSLO2	EPSLO3	EPSLO4	EPSLO5	EPSLO6

Evaluation	
Assessment Tool	Weight
Midterm Exam	25%
Critique and presentation	25%
Final (proposal)	25%
Final Exam	25%

Policy	
Assignments	Unless otherwise specified, all written work must be typed and double-spaced in APA 7th edition format. The quality of the work, as well as the content, will be considered. Spelling, punctuation, verb tenses, etc. should be correct and will affect grading.
Communication	***Communication between Instructors and students will be via JUST email (should have an active account). ****E-learning will be the channel for retrieving all course materials and announcement
Plagiarism Statement	Please be advised that student work submitted for credit in this course should reflect a genuine work. It is not acceptable to reproduce, copy, or encompass any educational or scientific publication without the proper citation. Students will be subjected to the student code of conduct regarding the scientific property. Students need to review the Code of Student Conduct of the Jordan University of Science & Technology Student Handbook for plagiarism and attendance policy.
Classroom courtesy	Student?s conduct and behavior should abide by the Code of Student Conduct of Jordan University of Science & Technology. Students are expected to behave appropriately in the classroom. Evidence of intolerable conduct on the part of any student is justification for termination (dropping the student from the course). Students will be informed about inappropriate conduct through verbal or written counseling. Students are expected to be on time for class and prepared to learn. The instructor reserves the right to dismiss a disruptive student from the classroom. All cell phones are to be turned off before entering the classroom
Academic honesty	Professional integrity is a required component of professional nursing and is expected of every nursing student. Each student is accountable for his/her own learning and nursing performance. Validated incidence of academic dishonesty is grounds for failure of Nursing 790. Students are referred to the JUST Student Handbook and the Student Handbook for the Faculty of Nursing.

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