



Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Occupational Therapy Department

O.T731 Scientific Research Methods
First Semester 2025-2026

Course Catalog
3 Credit Hours.
Teaching Method: On Campus

Text Book	
Title	Foundations of clinical research: Applications to evidence-based practice
Author(s)	Portney, L. G.
Edition	4th Edition
Short Name	Textbook #1
Other Information	Portney, L. G. (2020). Foundations of clinical research: Applications to evidence-based practice (4th ed.). F.A. Davis Company. ISBN-13: 978-0803661134

Course References

Short name	Book name	Author(s)	Edition	Other Information
Textbook #2	Research design: Qualitative, quantitative, and mixed methods approaches	Creswell, J. W., & Creswell, J. D.	6th Edition	Creswell, J. W., & Creswell, J. D. (2023). Research design: Qualitative, quantitative, and mixed methods approaches (6th ed.). SAGE Publications, Inc.

Instructor	
Name	Dr. QUSSAI OBIEDAT
Office Location	-
Office Hours	Sun : 13:00 - 15:00 Tue : 14:00 - 15:00 Wed : 12:00 - 14:00 Thu : 11:00 - 12:00
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Class Schedule & Room
Section 1: Lecture Time: Wed : 14:00 - 17:00 Room: M1303

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Introduction to Research Methodology	CH 1 From Textbook #1
Week 2	Formulating Research Questions in Health Contexts	CH 3 From Textbook #1
Week 3	Literature Review and Knowledge Synthesis	CH 6 From Textbook #1
Week 4	Research Designs in Health Sciences	CH 16 - 19 From Textbook #1
Week 5	Quantitative Methods and Clinical Trials	CH 14 From Textbook #1
Week 6	Qualitative Methods in OT Research	CH 21 From Textbook #1
Week 7	Mixed Methods and Participatory Research	CH 10 From Textbook #2
Week 8	Sampling Techniques	CH 13 From Textbook #1
Week 9	Measurement Tools and Psychometrics	CH 8-10 From Textbook #1
Week 10	Data Analysis and Interpretation	CH 22 & 27 From Textbook #1
Week 11	Ethics and Cultural Sensitivity in Health Research	CH 4 From Textbook #2
Week 12	Writing a Research Proposal	CH 35 From Textbook #1
Week 13	Synthesizing Literature: Systematic Reviews and Meta-Analyses	CH 37 From Textbook #1
Week 14	Publishing and Dissemination	CH 38 From Textbook #1

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