



الجامعة الزيتونة الأردنية
Faculty of Pharmacy
Al-Zaytoonah University of Jordan

" نحو تعليم صيدلاني متميز "
Toward Excellence in Pharmaceutical
Education

الجامعة الزيتونة الأردنية
Al-Zaytoonah University of Jordan
كلية الصيدلة
Faculty of Pharmacy



"Tradition and Quality"

Detailed Course Description - Course Plan Development and Updating Procedures/ Pharmacy Department	QF02/0408-3.0E
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Faculty	Pharmacy	Department	Pharmacy
Course number	201702	Course title	Research Methodologies
Number of credit hours	2	Pre-requisite/co-requisite	None

Brief course description

This course will provide an opportunity for students to establish or advance their understanding of research through critical exploration of research design, ethics, and approaches. The course introduces the language of research, ethical principles and challenges, and the elements of the research process within quantitative, qualitative, and mixed methods approaches. Students will use these theoretical underpinnings to begin to critically review literature relevant to their field or interests and determine how research findings are useful in forming their understanding of their work, social, local and global environment. This course is designed to examine the procedures and principles involved with experimental research. Problem formulation, literature review, writing proposal, research design, writing a research paper, and concise oral presentation will be addressed.

Course goals and learning outcomes	
Goal 1	At the end of this course students will be able to:
Learning outcomes	1.1 Understand research terminology 1.2 Be aware of the ethical principles of research, ethical challenges and approval processes 1.3 Describe quantitative, qualitative and mixed methods approaches to research
Goal 2	
Learning outcomes	2.1 Identify the components of a literature review process 2.2 writing up thesis proposal 2.3 Writing up graduate thesis
Goal 3	
Learning outcomes	3.1 Critically analyze published research articles 3.2 Writing up research article 3.3 use research database
Goal 4	
Learning outcomes	4.1 writing up research project proposal 4.2 make a good presentation during thesis defense and at conferences
Textbook	1.- The Art of Scientific Investigation, Author: <i>W.I. B. Beveridge</i> , 1950, recent copy November 2015.



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	2.- An Introduction to Scientific Research, Author: <i>E. Bright Wilson, Jr.</i> 1952.
Supplementary references	1.- Online Research Methodology material is sufficient 2.- Notes from lectures

Course timeline

Week	Number of hours	Course topics	Pages (textbook)	Notes
01	1 1 1	Introduction to the content and aim of scientific research methodologies		
02	1 1 1	Awareness of Research process		
03	1 1 1	Research Ethics Sharing Scientific Knowledge		
04	1 1 1	Literature Review Access to a large database of scientific and medical research such as Scopus ScienceDirect SciFinder		
05	1 1 1	Literature Review Access to a large database of scientific and medical research such as Scopus ScienceDirect SciFinder		
06	1 1 1	Research Categories and Research Design		
07	1 1 1	Interpretation of published paper		
08	1 1 1	Interpretation of published paper		
09	1 1 1	Writing up scientific article or paper		
10	1 1 1	Writing up graduate thesis proposal		
11	1	Writing up a graduate thesis		



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12	1 1 1	Writing up a graduate thesis		
13	1 1 1	Writing up a scientific project research proposal		
14	1 1 1	Using data bases for literature survey purposes (practical)		
15	1 1 1	Make good presentation at thesis defense and conferences		
16	1 1 1	Prepare a poster		

Theoretical course evaluation methods and weight	Mid exam 30%	Seminar 30%	Final exam 40%
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Approved by head of department		Date of approval	
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Extra information (to be updated every semester by corresponding faculty member)

Name of teacher	Prof. Ghassan M. Abu Sheikha	Office Number	407
Phone number (extension)	273	Email	ghassan.abushekha@zug.edu.jo
Office hours	Monday (1-4) Tuesday (1-4)		