# Jordan University of Science and Technology
## Faculty of Pharmacy
## Pharmacy Department

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| PHAR739 Principles Of Research Design And Drug Literature Evaluation - JNQF Level: 9 |
| First Semester 2024-2025 |

### Course Catalog

1 Credit Hours. This course is designed to emphasize the fundamental concepts in research design. This course will guide the graduate students through a literature review on a topic of their own choice. It provides graduate students with the skills required to search several databases, and to establish an organized philosophical framework that will help them in crucially evaluating the theoretical arguments of others.

**Teaching Method:** On Campus

### Text Book

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| Title | Principles of Research Design and Drug Literature Evaluation |
| Author(s) | Rajender R. Aparasu & John P. Bentley |
| Edition | 2nd Edition |
| Short Name | Ref#1 |
| Other Information | |

**Course References**

| Short name | Book name | Author(s) | Edition | Other Information |
|---|---|---|---|---|
| Ref#2 | The Literature review A Step-by-Step Guide for Students | Diana Ridley | 2nd Edition | |

### Instructor

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| Name | **Prof. Mohammad Alkhatatbeh** |
| Office Location | PH4 L-1 Phone ex 26005 |
| Office Hours | |
| Email | khatatbeh@just.edu.jo |

### Class Schedule & Room

Section 2:
 Lecture Time: Wed : 13:30 - 14:30
 Room: U

### Tentative List of Topics Covered

| Weeks | Topic | References |
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| Week 1 | Introduction to the course: course outline. | From **Ref#1**, From **Ref#2** |
| Week 2 | Introduction to drug literature: Sources of information and conducting searches | **Chapter 16** From **Ref#1**, **Chapter 3** From **Ref#2** |
| Weeks 3, 4 | Writing a literature review | **Chapters 1,4,5,6, & 7** From **Ref#2** |
| Week 5 | The Scientific Approach to Research | **Chapter 1** From **Ref#1** |
| Weeks 6, 7 | Research Design and Methods | **Chapter 3** From **Ref#1** |
| Weeks 8, 9 | Research Design: Randomized-Controlled Trials | **Chapter 4** From **Ref#1** |
| Weeks 10, 11 | Research Design: Cohort and Case-Control Studies | **Chapter 5** From **Ref#1** |
| Weeks 12, 13 | Research Design: Other Observational Studies | **Chapter 6** From **Ref#1** |
| Weeks 14, 15 | An overview of Clinical literature evaluation | **Chapters 17-20** From **Ref#1** |
| Week 16 | Course revision | |

| Mapping of Course Outcomes to Program Outcomes and NQF Outcomes | Course Outcome Weight (Out of 100%) | Assessment method |
|---|---|---|
| Describe the fundamental concepts of research design. [1PLO-PET2.3] [1L9S3] | 25% | |
| Demonstrate the ability of students to write a literature review on a topic of their own choice. [1PLO-PET3.1] [1L9S2, 1L9C2] | 40% | |

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| Demonstrate efficient skills to search several drug literature databases. [1PLO-PET2.2] [1L9S3] | 15% | |
| Establish an organized philosophical framework that helps students in crucially evaluating the theoretical arguments of others. [1PLO-PET3.1] [1L9S2, 1L9C1] | 20% | |

| PLO1.1 | PLO2.1 | PLO3.2 | PLO3.3 | PLO2.2 | PLO2.3 | PLO2.4 | PLO3.1 | PLO3.4 | PLO3.5 | PLO3.6 | PLO4.1 | PLO4.2 | PLO4.3 | PLO4.4 | PLO5.1 | PLO-PT1.1 | PLO-PT2.1 | PLO-PT2.2 | PLO-PT3.1 |
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| Relationship to NQF Outcomes (Out of 100%) | | | |
|---|---|---|---|
| L9S2 | L9C1 | L9C2 | L9S3 |
| 30 | 10 | 20 | 40 |

| Policy | |
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| Communicating with Instructor | - Students should communicate through their official JUST emails. Communication through personal email accounts (yahoo, Gmail, Hotmail, etc.) or social media will NOT be accepted, and no response will be provided.<br>- Students are required to check their emails and the E-learning page of the course regularly for announcements and notifications. |
| Exams | - All exams are closed books and notes.<br>- The final exam is comprehensive (covers all the material).<br>- The midterm incomplete exam needs approval from the department's head.<br>- The final incomplete exam needs approval from the dean. |
| Cheating | Prohibited; The commitment of the acts of cheating and deceit such as copying during examinations, altering examinations for re-grade, plagiarism of homework assignments, and in any way representing the work of others as your own is dishonest and will not be tolerated. Standard JUST policy will be applied.<br>اذا ضبط الطالب أثناء الامتحان او الاختبار متلبسا بالغش توقع عليه العقوبات التالية مجتمعة:<br>أ) اعتباره راسبا في ذلك الامتحان او الاختبار<br>ب) الغاء تسجيله في بقية المساقات المسجل لها في ذلك الفصل<br>ج) فصله من الجامعة لمدة فصل دراسي واحد وهو الفصل التالي للفصل الذي ضبط فيه. |
| Attendance | - Attendance is mandatory and will be recorded regularly.<br>- Excellent attendance is expected.<br>- Students who miss more than 20% of the classes will be dropped from the course as per JUST policy.<br>- If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed. |

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