**Course Description**

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| **Faculty** | **Pharmacy** |
| **Department**  | **Clinical Pharmacy** | **Level** |  |
| **Course**  | **Drug Information and Evidence Based Medicine** | **Code** | **1702503** | **Prerequisite** | 1702408 |
| **Credit hours** | 3 | **Theoretical**  |  | **Practical** |  |
| **Coordinator** | Einas Al Manasrah | **Email** |  |
| **Teachers** | Abeer Kharshid | **Emails** |  |
| **Lecture Time** |  | **Place** |  | **Attendance mode** |  |
| **Semester**  |  | **Preparation date**  |  | **Modification Date** |  |

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|  **Abstracted Course Description**  |
| The purpose of this course is to provide a current comprehensive overview of relevant information and concepts for students and pharmacists involved in providing drug information and evaluating scientific literature in the patient care setting. The Evidence-Based Practice (EBP) course has been designed to facilitate acquisition and application of evidence based practice knowledge and skills. Evidence based practice involves the use of the best available evidence, clinical expertise, and patients' values to make complex pharmacy-related decisions. |
| **Course Goals** |
| * To develop a comprehensive understanding of drug information resources.
* To enhance skills in critically evaluating scientific literature.
* To apply evidence-based practice principles in pharmacy decision-making.
* To foster the ability to communicate drug information effectively.
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| **CILOs** |
| **Knowledge** |
| a1. Identify and utilize relevant drug information resources.a2. Evaluate scientific literature critically.a3. Understand the principles and importance of Evidence-Based Practice (EBP).a4. Recognize the role of clinical expertise in pharmacy decision-making. |
| **Skills** |
| b1. Effectively navigate and use drug information databases.b2. Critically appraise research articles and literature.b3. Apply evidence-based practice principles to pharmacy-related decisions.b4. Communicate drug information clearly and concisely. |
| **Competencies** |
| c1. Demonstrate proficiency in utilizing drug information resources.c2. Demonstrate proficiency in critically evaluating scientific literature.c3. Apply Evidence-Based Practice (EBP) principles in pharmacy decision-making.c4. Communicate drug information effectively to different stakeholders. |
| **Learning Methods** |
| * Interactive sessions on navigating drug information databases.
* Workshops on critical appraisal of scientific literature.
* Case studies applying evidence-based practice in pharmacy scenarios.
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| **Evaluation Tools** |
| Quizzes, Midterm exam, Final Exam |
| **Week** | **Topics** | **Learning methods** | **Evaluation tool** | **ILOs** | **Hours** |
| **1.** | Introduction and course overview | Lecture material and notes | Exams | **A2,a3,b1,b3,c2,c3** | **3** |
| **2.** | Principles of Clinical Research and an overview about EBM | Homework and Projects, Presentation, … | Assignments, | **A2,a3,b1,b3,c2,c3** | **3** |
| **3.** | Research Design and Methods | Lecture material and notes  | Exams | **A2,a3,b1,b3,c2,c3** | **3** |
| **4.** | Research Design and Methods | Homework and Assignments, Projects, Presentation, … | Exams | **A1,a2,b1,b2,c1** | **3** |
| **5.** | Ethical Considerations in Clinical Research | Lecture material and notes  | Exams | **A1,a2,b1,b2,c1** | **3** |
| **6.** | Workshop and/ or quiz | Lecture material and notes  | Exams | **A1,a2,b1,b2,c1** | **3** |
| **7.** | Introduction to Drug Literature | Homework and Assignments, Projects, Presentation, … | Exams | **A1,a2,b1,b2,c1** | **3** |
| **8.** | Midterm Exam | Lecture material and notes  | Exams | **A2,a3,b1,b3,c2,c3** | **3** |
| **9.** | Evaluating Clinical Literature: An Overview | Lecture material and notes  | Exams | **A2,a3,b1,b3,c2,c3** | **3** |
| **10.** | Randomized Controlled Trials | Lecture material and notes  | Exams | **A2,a3,b1,b3,c2,c3** | **3** |
| **11.** | Randomized Controlled Trials | Lecture material and notes | Exams | **A2,a3,b1,b3,c2,c3** | **3** |
| **12.** | Statistical Principles and Data Analysis | Lecture material and notes | Exams | **A1,a2,b1,b2,c1** | **3** |
| **13.** | Evaluation of Systematic Review and Meta-Analysis | Presentation | Presentation, project, assignments | **A1,a2,b1,b2,c1** | **3** |
| **14.** | How to write a research proposal | Presentation | Presentation, project, assignments | **A1,a2,b1,b2,c1** |  |
| **15.** | Final Exam |  |
| **16.** |  |  |  |  |  |

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| **Plan of Course Evaluation** |
| **Evaluation Tools** | **Mark** | **ILOs** |
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| **First Exam (Mid-term)**  | **30%** | **A1,a2,b1,b2,c1** |  |  |  |  |  |
| **Second Exam (If available)** |  |  |  |  |  |  |  |
| **Final Exam** | **50%** | **A1,A2,a3,b1,b2,b3,,c1c2,c3** |  |  |  |  |  |
| **Activities** |  |  |
| **Activities Evaluation** | Homework/Tasks | 10% | B1.B2,B3C1 |  |  |  |  |  |
| Case Study  |  |  |  |  |  |  |  |
| Discussion and Interactions |  |  |  |  |  |  |  |
| Group Activities |  |  |  |  |  |  |  |
| Laboratory Exams |  |  |  |  |  |  |  |
| Presentations |  |  |  |  |  |  |  |
| Quizzes | 10% | C2,C3A1 |  |  |  |  |  |
| Others |  |  |  |  |  |  |  |
| **Total** | 100% |  |  |  |  |  |  |

 **Components**  |
| **Book** |  |
| **References** |  |
| **Recommended Readings** |  |
| **Electronic materials** |  |
| **Other websites** |  |