**Course Description**

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| **Faculty** | **Pharmacy** |
| **Department**  | **Clinical Pharmacy** | **Level** | 7 |
| **Course**  | Pharmacoeconomics | **Code** | **1702333** | **Prerequisite** | 1702103 |
| **Credit hours** | 2 | **Theoretical**  | 2 | **Practical** | 0 |
| **Coordinator** | Dr. Abeer kharshid | **Email** |  |
| **Teachers** |  | **Emails** |  |
| **Lecture Time** |  | **Place** |  | **Attendance mode** |  |
| **Semester**  |  | **Preparation date**  |  | **Modification Date** |  |

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|  **Abstracted Course Description**  |
| This course discusses the basic and applied concepts of the pharmaceutical economy as well as the design models and the criteria of the outputs of the medical treatment, with a focus on the practical aspects of these principles |
| **Course Goals** |
| * To introduce the emerging science of pharmacoeconomics and its role in pharmacy practice
* . In addition, this course introduces a basic intuitive understanding of the pharmacoeconomic principles, terminology, and analysis. Emphasis will be placed on the four major analyses: cost-minimization, costeffectiveness, cost-utility, and cost-benefit analyses.
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| **CILOs** |
| **Knowledge** |
| A.1 Knowledge and understanding the basic terminology of pharmacoeconomicsA.2 Know how to Apply pharmacoeconomic analyses in different scenarios A.3 To understand the use and application of Pharmacoeconomics in Jordan and worldwide  |
| **Skills** |
| B.1 To analyze economic decisions within an environment of limited and scarcity of resource B.2 To drive relevant costs and revenue streams needed to conduct a Pharmacoeconomics analysis B.3 To critically appraise published articles on economic evaluation to draw useful conclusions. |
| **Competencies** |
| C.1 Practical skills to be able to respond sufficiently to questions within the Jordanian market related to drug registration and pricing C.2 Practical skills to evaluate added value of new drugs and interventions compared with available substitutes in the Jordanian marketC3. Analysis. |
| **Learning Methods** |
| Lecture material and notes ,Homework and Assignments, Projects, Presentation |
| **Evaluation Tools** |
| Exams,Presentation, project, assignments. |
| **Week** | **Topics** | **Learning methods** | **Evaluation tool** | **ILOs** | **Hours** |
| **1.** | General Introduction to the material contents and Purpose | Lecture material | Exams | **A2,a3,b1,b3,c2,c3** | **3** |
| **2.** | Introduction | Lecture material | Exams | **A2,a3,b1,b3,c2,c3** | **3** |
| **3.** | Cost Estimation | Lecture material | Exams | **A2,a3,b1,b3,c2,c3** | **3** |
| **4.** | Critiquing research article | Lecture material | Exams | **A1,a2,b1,b2,c1** | **3** |
| **5.** | Cost-Minimization | Lecture material | Exams | **A1,a2,b1,b2,c1** | **3** |
| **6.** | Cost-Effectiveness | ,Homework and Assignments | Exams | **A1,a2,b1,b2,c1** | **3** |
| **7.** | Cost-Utility | Lecture material | project, assignments | **A1,a2,b1,b2,c1** | **3** |
| **8.** | Cost-Benefit Analyses | ,Homework and Assignments | project, assignments | **A2,a3,b1,b3,c2,c3** | **3** |
| **9.** | Health Related Quality Of Life | ,Homework and Assignments | project, assignments | **A2,a3,b1,b3,c2,c3** | **3** |
| **10.** | Decision analysis | Lecture material | project, assignments | **A2,a3,b1,b3,c2,c3** | **3** |
| **11.** | Markov modeling | ,Homework and Assignments | project, assignments | **A2,a3,b1,b3,c2,c3** | **3** |
| **12.** | Retrospective database | ,Homework and Assignments | project, assignments | **A1,a2,b1,b2,c1** | **3** |
| **13.** | Pharmacy services | ,Homework and Assignments | project, assignments | **A1,a2,b1,b2,c1** | **3** |
| **14.** | discussion | , project |  | **A1,a2,b1,b2,c1** | **3** |
| **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** | B |  |  |  |  |
| **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** | Essentials of Pharmacoeconomics, Rascati, KL. Second Edition WoltersKluwer - Lippincott, ISBN-13: 978-1451175936 |
| **References** |  |
| **Recommended Readings** |  |
| **Electronic materials** |  |
| **Other websites** |  |

**Subject Coordinator:**

**Head of Curriculum Committee:**

**Department Head:**

**Faculty Dean:**

**Last update date:**