**Course Description**

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| **Faculty** | **Pharmacy** | | | | | | |
| **Department** | Pharmaceutics and Pharmaceutical Technology | | | **Level** | | | 7 |
| **Course** | * Clinical Cases | **Code** | 1702478 | **Prerequisite** | | | **1703111** |
| **Credit hours** | 1 | **Theoretical** |  | **Practical** | | |  |
| **Coordinator** |  | **Email** |  | | | | |
| **Teachers** |  | **Emails** |  | | | | |
| **Lecture Time** |  | **Place** |  | | **Attendance mode** | Face to face | |
| **Semester** |  | **Preparation date** |  | | **Modification Date** |  | |

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| **Abstracted Course Description** |
| course is designed to provide the student with an introduction to integrative therapeutic modalities which  hare used in health care. Clinical cases from different medical branches each session will be used to  develop the students ability to assess a patient’s condition, determine reasonable treatment alternatives, select  appropriate therapy (pharmacological and non-pharmacological therapy), monitoring parameters  and to justify those choices by utilizing knowledge and skills acquired in clinical pharmacy  and therapeutics I. |
| **Course Goals** |
| 1. Enhance the student's therapeutic problem-solving skills so that he can document , integrate and apply pathophysiologic and pharmacotherapeutic knowledge in order to recognize the signs and symptoms for certain conditions such as gastrointestinal, and endocrine based on an appropriate understanding of the underlying pathophysiology and diagnostic criteria.  2. Gain familiarity with diagnostic tests and laboratory tests and the ability to make an interpretation for it's results.  3. Compare the various treatment options and select and/or recommend patient-specific treatment therapy plans including drugs, life style, and monitoring parameters to control disease  4. Evaluate the appropriateness of patient-specific drug therapy regimens.  5. Counsel patients regarding the proper use of the drugs used.  6. Monitor expected therapeutic outcomes and potential adverse effects of drug treatment, including frequency of monitoring.  7. Practice what students have learned in the virtual pharmacy |
| CILOs |
| Knowledge |
| A.1 knowledge of clinical manifestations, complications, goals of pharmacotherapy and patient education of selected respiratory, renal and infectious diseases.  A.2 knowledge of clinical uses, pharmacokinetics, clinically significant side effects & drug interactions and contraindications to medications used in the treatment of respiratory, renal and infectious diseases.  A.3 knowledge of how to Provide patient education about disease and medications |
| Skills |
| B.1 Through short case discussion, to enable students to identify drug-related problems and recommend the appropriate pharmacotherapy treatment.  B.2 Students develop the ability to recognize diseases signs and symptoms, drugs's effect on curing or reliving those signs and symptoms. Monitor the therapy plan, detect contraindications, drug –drug interactions and side effects |
| Competencies |
| C.1 Practical skills or group discussions and critical thinking  C.2 Practical skills of Developing the ability to design the rational pharmacotherapy regimen according to the patient specific condition  C.3 Practical skills of solving clinical case reports |
| Learning Methods |
| * Lectures * Oral dissection * Assignment |
| Evaluation Tools |
| Exams  Quiz |

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| **Week** | **Topics** | **Learning methods** | **Evaluation tool** | **ILOs** | **Hours** |
| **1.** | Peptic Ulcer Case | Textbook and handouts | QUIZ | **A 3** | **1** |
| **2.** | Constipation case | Textbook and handouts |  | **A 2** | **1** |
| **3.** | Diarrhea Case | Textbook and handouts |  | **A 1** | **1** |
| **4.** | N/V case | Textbook and handouts |  | **A 3** | **1** |
| **5.** | Diabetes case | Textbook and handouts |  | **B 2** | **1** |
| **6.** | Hyperthyroidism case | Textbook and handouts | Exam | **B 1** |  |
| **7.** | Hypothyroidism | Textbook and handouts | Exam | **B 2** | **1** |
| **8.** | Ischemic heart disease case | Textbook and handouts | **C 1** | **1** |
| **9.** | Hypertension case | Textbook and handouts | Exam | **C 2** | **1** |
| **10.** | Anemia case | Textbook and handouts | **C 1** | **1** |
| **11.** | Osteoporosis case | Textbook and handouts | Homework | **A 1** | **1** |
| **12.** | Rheumatoid arthritis case  Parkinson’s case, | Textbook and handouts | **C 3** | **1** |
| **13.** | Asthma case  Epilepsy Case | Textbook and handouts | Exam | **A2** | **1** |
| **14.** | Schizophrenia Case |  | Exam | **C2** | **1** |
| **15.** | Final exam |  |  |  | **2** |

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| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Plan of Course Evaluation** | | | | | | | | | | | | | **Evaluation Tools** | | **Mark** | **ILOs** | | | | | | | | | | **A1** | **A2** | **A3** | **B1** | **B2** | **B3** | **C1** | **C2** | **C3** | | **First Exam (Mid-term)** | | **30%** | \* | \* |  |  | \* |  |  |  | \* | | **Second Exam (If available)** | |  |  |  |  |  |  |  |  |  |  | | **Final Exam** | | **50%** |  |  |  |  |  | \* | \* | \* |  | | **Activities** | | **20%** |  | | | | | | | | | | **Activities Evaluation** | Homework/Tasks | 10% |  |  |  | \* | \* |  | \* |  |  | | Case Study |  |  |  |  |  |  |  |  |  |  | | Discussion and Interactions |  |  |  |  |  |  |  |  |  |  | | Group Activities |  |  |  |  |  |  |  |  |  |  | | Laboratory Exams |  |  |  |  |  |  |  |  |  |  | | Presentations |  |  |  |  |  |  |  |  |  |  | | Quizzes | 10% |  | \* |  |  | \* | \* |  |  | \* | | Others |  |  |  |  |  |  |  |  |  |  | | **Total** | | 100% |  |  |  |  |  |  |  |  |  |   **Components** | |
| **Book** | **.**   * **Primary Textbook:**  1. Pharmacotherapy: A Pathophysiological Approach. Joseph DiPiro *et al*, 9th edition, 2014. 2. Disease management guidelines (specified in lecture notes)  * **Secondary References**  1. Koda-Kimble and Young's Applied Therapeutics: The Clinical Use of Drugs, 10th edition, 2013. 2. Pharmacotherapy Handbook. Barbara Wells *et al.*, 9th edition, 2015. |
| **References** | * **Primary Textbook:**  1. Pharmacotherapy: A Pathophysiological Approach. Joseph DiPiro *et al*, 9th edition, 2014. 2. Disease management guidelines (specified in lecture notes)  * **Secondary References**  1. Koda-Kimble and Young's Applied Therapeutics: The Clinical Use of Drugs, 10th edition, 2013. 2. Pharmacotherapy Handbook. Barbara Wells *et al.*, 9th edition, 2015. |
| **Recommended Readings** |  |
| **Electronic materials** |  |
| **Other websites** |  |

**Subject Coordinator:**

**Head of Curriculum Committee:**

**Department Head:**

**Faculty Dean:**

**Last update date**