**Course Description**

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| **Faculty** | **Pharmacy** | | | | | | |
| **Department** | 1702- clinical pharmacy | | | **Level** | | | 7 |
| **Course** | Therapeutics I | **Code** | **1702402** | **Prerequisite** | | | 1702332 |
| **Credit hours** | 3 | **Theoretical** |  | **Practical** | | |  |
| **Coordinator** |  | **Email** |  | | | | |
| **Teachers** |  | **Emails** |  | | | | |
| **Lecture Time** |  | **Place** |  | | **Attendance mode** |  | |
| **Semester** |  | **Preparation date** |  | | **Modification Date** |  | |

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| **Abstracted Course Description** |
| This course involves description of the most important and prevalent oncologic diseases and  renal disorders; their etiology, epidemiology, pathogenesis, clinical presentation, stages and  classification, lab screening and diagnostic procedures. In addition, the course involves  therapeutic management of these diseases that includes designing most effective and safe  therapeutic regimens with proper medication in the right dose, route and frequency, all  according to current best evidence (evidence-based medicine), in addition to nonpharmacological interventions, life-style modifications, and patient education. Monitoring  for effectiveness and adverse effects is also included. There is emphasis in the course on  teaching the student how to use useful databases, formal webpages, and mobile applications  and how to self-learn post-graduation. |
| **Course Goals** |
| By the end of the course students should be able to describe epidemiology, pathogenesis, clinical manifestations, and diagnostic procedures for each of the discussed diseases, choose the most appropriate drug therapy for each condition and suggest the correct, dosage form, dose and dose intervals and define pharmacotherapy goals and suggest the most appropriate intervention strategies whenever required. |

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| **CILOs** | | | | | |
| **Knowledge** | | | | | |
| a1. Know how to use the obtained knowledge to solve treatment problems associated with different diseases and problems linked to medications  a2. Know and implement drug therapy regimen specific for each patient taking into account patient-relevant considerations and population difference  a3. Know the clinical presentations and the differential lab and physical examinations of different diseases | | | | | |
| **Skills** | | | | | |
| b1. Calculate the drug doses and infusion rates.  b2. Determine the dosing period  b3. applicable techniques to adjust drug therapy regimen and monitor the provided intervention.  . | | | | | |
| **Competencies** | | | | | |
| c1. Use evidence-based medicine to think critically  c2. Data collection, presentation techniques  c3. Provide appropriate counseling about patients' pharmacological and non-pharmacological therapy  . | | | | | |
| **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.** | Introduction syllabus | Lecture material and notes | Exams | **A1,a2,b1,b2,c1** | **3** |
| **2.** | Breast cancer | Lecture material and notes | Exams | **A1,a2,b1,b2,c1** | **3** |
| **3.** | Breast cancer | Lecture material and notes | Exams | **A2,a3,b1,b3,c2,c3** | **3** |
| **4.** | Colorectal cancer | Lecture material and notes | Exams | **A1,a2,b1,b2,c1** | **3** |
| **5.** | Lung cancer | Homework and Assignments, Projects | Assignments | **A2,a3,b1,b3,c2,c3** | **3** |
| **6.** | Lymphomas | Homework and Assignments, Projects | Exams | **A1,a2,b1,b2,c1** | **3** |
| **7.** | Lymphomas | Homework and Assignments, Projects | Exams | **A2,a3,b1,b3,c2,c3** | **3** |
| **8.** | Prostate cancer | Homework and Assignments, Projects | Assignments | **A1,a2,b1,b2,c1** | **3** |
| **9.** | Acid –base disorders | Homework and Assignments, Projects | Exams | **A1,a2,b1,b2,c1** | **3** |
| **10.** | Acute kidney injury | Lecture material and notes | Assignments | **A2,a3,b1,b3,c2,c3** | **3** |
| **11.** | Chronic kidney disease | Assignments, | Assignments | **,A1,a2,a3,b1,b2,c1,b3,c2,c3** | **3** |
| **12.** | Chronic kidney disease | Homework and Assignments, Projects | Assignments | **A2,a3,b1,b3,c2,c3** | **3** |
| **13.** | Electrolyte hemostasis | Projects | Assignments | **A1,a2,b1,b2,c1** | **3** |
| **14.** | Electrolyte hemostasis | Projects | Assignments | **,A1,a2,a3,b1,b2,c1,b3,c2,c3** | **3** |
| **15.** | **F**inal Exams | | | |  |
| **16.** |  |  |  |  |  |

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| |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Plan of Course Evaluation** | | | | | | | | | | **Evaluation Tools** | | **Mark** | **ILOs** | | | | | | |  |  |  |  |  |  | | **First Exam (Mid-term)** | | **30%** | **A1,a2,b1,b2,c1** |  |  |  |  |  | | **Second Exam (If available)** | |  |  |  |  |  |  |  | | **Final Exam** | | **50%** | **A1,a2,a3,b1,b2,c1,b3,c2,c3** |  |  |  |  |  | | **Activities** | |  |  | | | | | | | **Activities Evaluation** | Homework/Tasks | 10% | **a3,b1,b2, b3,c2** |  |  |  |  |  | | Case Study |  |  |  |  |  |  |  | | Discussion and Interactions |  |  |  |  |  |  |  | | Group Activities |  |  |  |  |  |  |  | | Laboratory Exams |  |  |  |  |  |  |  | | Presentations |  |  |  |  |  |  |  | | Quizzes | 10% | **a3,b1,b2,** |  |  |  |  |  | | Others |  |  |  |  |  |  |  | | **Total** | | 100% | **A1,a2,a3,b1,b2,c1,b3,c2,c3** |  |  |  |  |  |   **Components** | |
| **Book** | Pharmacotherapy: A Pathophysiological Approach. Joseph DiPiro *et al*, 9th edition, 2014.  2. Disease management guidelines (specified in lecture notes)  3. Koda-Kimble and Young's Applied Therapeutics: The Clinical Use of Drugs, 10th  edition, 2013.  4.Pharmacotherapy Handbook. Barbara Wells et al., 9th edition, 2015 |
| **References** |  |
| **Recommended Readings** |  |
| **Electronic materials** |  |
| **Other websites** |  |

**Subject Coordinator:**

**Head of Curriculum Committee:**

**Department Head:**

**Faculty Dean:**

**Last update date:**