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| 1 | Course title | Case studies in Therapeutics 3 |
| 2 | Course number | 1203505 |
| 3 | Credit hours | 1 hour (practical) |
| Contact hours (theory, practical) | 3 hours |
| 4 | Prerequisites/corequisites | 1203504 Co-Re |
| 5 | Program title | PharmD |
| 6 | Program code | 12 |
| 7 | Awarding institution  | The University of Jordan |
| 8 | School | Pharmacy  |
| 9 | Department | Department of biopharmaceutics and clinical pharmacy |
| 10 | Level of course  | Undergraduate  |
| 11 | Year of study and semester (s) | 5th year, Fall semester  |
| 12 | Final Qualification | PharmD |
| 13 | Other department (s) involved in teaching the course |  |
| 14 | Language of Instruction | English |
| 15 | Teaching methodology | [ ] Blended [x] Online |
| 16 | Electronic platform(s) | [x] Moodle [x] Microsoft Teams [ ] Skype [ ] Zoom [ ] Others………… |
| 17 | Date of production/revision | 15/9/2021 |

18 Course Coordinator:

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| Name: Maysa Abu kamarOffice number:108Phone number:Email:maaysa@gmail.com |

19 Other instructors:

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20 Course Description:

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| As stated in the approved study plan.Will cover the pathophysiology, clinical presentations, pharmacotherapy (pharmacokinetics & pharmacodynamics, drug/drug interactions, dosage calculations, adverse effects, treatment algorithms, goals of therapy & patient education) of: selected CNS, psychiatric, gastrointestinal & oncology conditions. In addition, it provides the students with the knowledge of clinical uses, pharmacokinetics, clinically significant side effects & drug interactions and contraindications to medications used in the treatment of cancers, GI disorders and Psychiatric disorders. |

21 Course aims and outcomes:

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| 1. Aims:

-Describe the clinical manifestations of selected conditions -Understand the clinical issues of medication use-Provide patient education about disease and medications\*Recommend the most appropriate pharmacological and nonpharmacological treatment for a selected patient.B- Intended Learning Outcomes (ILOs): Upon successful completion of this course, students will be able to:Intended Learning Outcomes (ILOs):A. Knowledge and Understanding: * To provide students with the knowledge of clinical manifestations, complications, goals of pharmacotherapy and patient education of selected conditions as oncology, GI, psychiatric, CNS conditions.
* To provide students with the knowledge of clinical uses, pharmacokinetics, clinically significant side effects & drug interactions and contraindications to medications used in the treatment of selected conditions.

B. Intellectual Analytical and Cognitive Skills: Student is expected: * Through case discussion, to enable students to identify drug-related problems and recommend the appropriate pharmacotherapy treatment.

C. Subject-Specific Skills* To be able to provide assessment of potential and actual treatment related problems
* To be able to select the most optimal pharmacotherapy choice for individual patients
* To be able to solve treatment related problems
* To be able to develop rational pharmaceutical care plan with optimal monitoring parameters

D. Transferable Skills* To learn about basic internet-web browsing skills needed to obtain guidelines treatment of various diseases encountered during case study.
* To develop independent problem-solving abilities through learning how to find and use existing resources with a particular emphasis on the use of current literature.
* To practice the processes of group discussion, teamwork, and synergy in finding answers to basic and clinical questions arising from case study.
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22. Topic Outline and Schedule:

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| Week | Lecture | Topic | Teaching Methods\*/platform | Evaluation Methods\*\* | References |
| 1 | 1.1 | Introduction (Course syllabus/activities/platform to be used….) |  PDF Files/Elearning.edu.jo +MS Teams |   |  |
| 2 | 2.1 | General principle of Colon cancer |  1-Synchronous lecturing: (MS teams) 2-Asynchronous lecturing (case PDF/Moodle ) | Homework | Mentioned bellow |
| 3 | 3.1 | Supportive care for cancer  | 1-Synchronous lecturing: (MS teams) 2-Asynchronous lecturing (case PDF/Moodle ) | Homework, Quiz | Mentioned bellow |
| 4 | 4.1 | Ascites and portal hypertension  |  1-Synchronous lecturing: (MS teams) 2-Asynchronous lecturing (case PDF/Moodle )meeting/MS Teams | Homework, Quiz | Mentioned bellow |
| 5 | 5.1 | Viral Hepatitis (Hepatitis B) |  1-Synchronous lecturing: (MS teams) 2-Asynchronous lecturing (case PDF/Moodle ) | Homework, Quiz | Mentioned bellow |
| 6 | 6.1 | Inflammatory bowel disease: Ulcerative Colitis  |  1-Synchronous lecturing: (MS teams) 2-Asynchronous lecturing (case PDF/Moodle ) | Homework, Quiz | Mentioned bellow |
| 7 | 7.1 | Kidney transplantation |  1-Synchronous lecturing: (MS teams) 2-Asynchronous lecturing (case PDF/Moodle ) |  Homework, Quiz,  | Mentioned bellow |
| 8 | 8.1 |  Depression  | 1-Synchronous lecturing: (MS teams) 2-Asynchronous lecturing (case PDF/Moodle ) |  Homework, Quiz,  | Mentioned bellow |
| 9 | 9.1 |  Generalized Anxiety disorders  |  1-Synchronous lecturing: (MS teams) 2-Asynchronous lecturing (case PDF/Moodle ) |  Homework, Quiz,  | Mentioned bellow |
| 10 | 10.1 |  Insomnia  |  1-Synchronous lecturing: (MS teams) 2-Asynchronous lecturing (case PDF/Moodle) |  Homework, Quiz,  | Mentioned bellow |

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* Teaching methods include: Synchronous lecturing/meeting; Asynchronous lecturing/meeting
* Evaluation methods include: Homework, Quiz, Exam, pre-lab quiz…e

23 Evaluation Methods:

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| Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

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| Evaluation Activity | Mark | Topic(s) | Period (Week) | Platform |
| Quizzes | 15 | -Colon Cancer-Major depression disorder | -Week 3-Week 10 | On campus  |
| Homeworks: (design a PCP and follow-up plan to a case study, filling out the manual appendix: Dose regimen sheet, drug drug interactions sheet, adverse drug reaction sheet for selected case studies )  | 15 | All the above topics |  |  E-learning and MS teams |
| Midterm Exam   |  30 |   The first 5 topics |  Week 7 | On campus  |
| Final Exam  |  40 |  All the above topics |  Week 16 |  On campus  |

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24 Course Requirements (e.g: students should have a computer, internet connection, webcam, account on a specific software/platform…etc):

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| electronic devices for distant learning (e.g, laptops, smartphones) and internet connection |

25 Course Policies:

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| A- Attendance policies: *Attendance is mandatory.** First warning – with 1 absence
* Last warning-with 2 absences
* Failing in the subject – with 3 absences

B- Absences from exams and submitting assignments on time:C- Health and safety procedures: Distant learning D- Honesty policy regarding cheating, plagiarism, misbehavior:E- Grading policy:Mid Exam 30 pointsQuizzes& activities 30 pointsFinal Exam 40 pointsTotal 100 pointsF- Available university services that support achievement in the course: |

26 References:

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| A- Required book(s), assigned reading and audio-visuals: 1 Pharmacotherapy: A Pathophysiological Approach, ed. DiPiro, 11th edition 2-Applied Therapeutics: The Clinical Use of Drugs, ed. Koda-Kimble, 10th edition, 20133-Disease management guidelines (specified in lecture notes)B- Recommended books, materials and media: |

27 Additional information:

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Name of Course Coordinator: Maysa Abukamar Signature: ------------------ Date: 15/9/2021

Head of Curriculum Committee/Department: ---------------------------- Signature: --------------------------

Head of Department: ------------------------------------------------------------ Signature: -----------------------

Head of Curriculum Committee/Faculty: ---------------------------------------- Signature: -------------------

Dean: ---------------------------------------------------------- Signature: -------------------------------------------