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| **1** | **Course title** | Case studies in therapeutics 1 |
| **2** | **Course number** | 1203427 |
| **3** | **Credit hours** | 1 hour |
| **Contact hours (theory, practical)** | 3 hours/week  |
| **4** | **Prerequisites/co-requisites** | 1203426 |
| **5** | **Program title** | Pharm.D |
| **6** | **Program code** | 12 |
| **7** | **Awarding institution**  | University of Jordan |
| **8** | **School** | Pharmacy  |
| **9** | **Department** | Biopharmaceutics and Clinical Pharmacy |
| **10** | **Level of course**  | Undergraduates pharm.D  |
| **11** | **Year of study and semester (s)** | 4th year. Fall semester  |
| **12** | **Final Qualification** | Pharm.D  |
| **13** | **Other department (s) involved in teaching the course** | NA |
| **14** | **Language of Instruction** | English and Arabic |
| **15** | **Teaching methodology** | [ ] Blended [ ] Online |
| **16** | **Electronic platform(s)** | [x] Moodle [x] Microsoft Teams [ ] Skype [ ] Zoom [ ] Others………… |
| **17** | **Date of production/revision** | 12-10-2021 |

**18 Course Coordinator:**

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| Name: Rawia SharaydihOffice number: 206Phone number: 23341Email: R.sharaydih@ju.edu.jo |

**19 Other instructors:** ph.Hiba Jaber

**20 Course Description:**

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| This course provides students with the knowledge of clinical manifestations, complications, goals of pharmacotherapy and patient education of selected cardiovascular and endocrinologic disorders. 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 cardiovascular and endocrinologic disorders. |

**21 Course aims and outcomes:**

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| A- **Aims**:1. Describe the clinical manifestations of selected cardiovascular and endocrine diseases
2. Understand the clinical issues of medication use
3. Provide patient education about disease and medications
4. Recommend the most appropriate pharmacological and non-pharmacological treatment for a selected patients.

B- **Intended Learning Outcomes (ILOs)**: Upon successful completion of this course, students will be able to:A] Foundational KnowledgeDevelop, integrate, and apply knowledge from the foundational sciences in Clinical sciences (learner)Remember1) Recall facts, terms, basic concepts, and information regarding: selected disease conditions such as: (cardiovascular and endocrine diseases); clinical uses, pharmacokinetics, clinically significant side effects, drug interactions and contraindications to medications used in the management of the above mentioned conditionsUnderstand2) Explain and outline goals of therapy within the context of diseases’ Clinical manifestations and complications of diseases; and within the context of medications pharmacokinetics and pharmacodynamics behaviorsApplying3) Identifying drug related problems resorting to gained knowledge and guidelinesAnalyze4) Examine and inspect subjective and objective evidence related to simulated cases to: prioritize patients’ needs; recommend appropriate pharmacotherapy treatment; and recommend appropriate monitoring plan.**B**] Skills essential to practice pharmacyProactively investigates new knowledge, approaches or behavior and takes steps to evaluate and improve performance (Self-learner)5) Proactively investigate, collect and interpret information related to diseases and their management through browsing the internet based professional web sites, medical guidelines & journal databases (MEDLINE, e-library)**C]** Attitudes and behaviors necessary for personal and professional developmentExhibit behaviors and values that are consistent with the trust given to the profession by patients, other health care providers, and society (Professional).6) Demonstrate integrity by not cheating and not committing plagiarism7) Demonstrate respect to professors and classmates by observing active listening.  |

**22. Topic Outline and Schedule:**

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| **Week** | **Topic** | **Teaching Methods\*/platform** | **Evaluation Methods\*\*** | **References** |
| 1 |  Introduction a. Introduction to the courseb. how to write appropriate "Pharmacist Care Plan" and "Pharmacist Care Plan Monitoring |   |  NA |  - |
| 2 | Hypertension  |   |  PCP submission (e-learning) + Appendix submission (MS teams) |  Specified in each lab. |
| 3 |  Hypertension crisis  |  | Appendix submission (MS teams) |  Specified in each lab. |
| 4 |  Systolic HF |  |  PCP submission (e-learning) + Appendix submission (MS teams) |  Specified in each lab. |
| 5 | Compensated HF |  | Appendix submission (MS teams) |  Specified in each lab. |
| 6 |  Ischemic heart disease  |   | Appendix submission (MS teams) |  Specified in each lab. |
| 7 | ACS  |  | Appendix submission (MS teams) |  Specified in each lab. |
| 8 |  Hyperlipidemia |    |   PCP submission (e-learning) + Appendix submission (MS teams) |  Specified in each lab. |
| 9 |  DM type 1 |   | NA |  Specified in each lab. |
| 10 |  DM type 2 |  |   PCP submission (e-learning) + Appendix submission (MS teams) |  Specified in each lab. |

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

**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** |
| PCP and Appendix submission  |  20 |  All topics (2-10) |  Parallel to each topic |  Moodle- word document of clinical pharmacy manual |
| Patient education   |  10  |  All topics (2-10) |  Parallel to each topic |  Moodle- power point with audio  |
| Mid term exam  |  30  |  Topics (1-4) |  TBA |  Moodle  |
| Final exam  | 40  | Topics (5-10) | TBA | Moodle  |

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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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| 1- computer 2- internet 3-Webcam4- MS teams application and account  |

**25 Course Policies:**

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| A- Attendance policies:Attendance: Mandatory.First and last warning – with 1 absenceFailing in the subject – with 2 absencesB- Absences from exams and submitting assignments on time:Will result in zero achievement unless health report or other significant excuse is documented.C- Health and safety procedures: NAD- Honesty policy regarding cheating, plagiarism, misbehavior:The participation, the commitment of cheating will lead to applying all following penalties together1) Failing the subject he/she cheated at2) Failing the other subjects taken in the same course3) Not allowed to register for the next semester. The summer semester is not considered as a semesterE- Grading policy:

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| **Evaluation** | **Point %** |
| **Pharmacy care plan and follow up worksheet** | **20%** |
| **Patient education** | **10%** |
| **Midterm Exam** | **30%** |
| **Final exam** | **40%** |

F- Available university services that support achievement in the course: JU computer center |

**26 References:**

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| A- Required book(s), assigned reading and audio-visuals:Pharmacotherapy guidelines, Lexicomp, and clinical pharmacy manualB- Recommended books, materials and media:Lexicomp applicationGuidelines and up-to-dateClinical pharmacy manual |

**27 Additional information: NA**

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Name of Course Coordinator: Rawia Sharaydih--- Signature: ----- rawia------- Date: 12-10-2021

Head of Curriculum Committee/Department: Dr.Nancy Hakooz --- Signature: --------------------------

Head of Department: Dr.Nancy Hakooz Signature: -----------------------

Head of Curriculum Committee/Faculty: Dr.Rana Abu-dahb Signature: -------------------

Dean: Dr.Rana Abu-dahb Signature: -------------------------------------------