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| **1** | **Course title** | Clinical Pharmacy Practice  |
| **2** | **Course number** | 1203561  |
| **3** | **Credit hours** | 1 hour |
| **Contact hours (theory, practical)** | (theory: 3 hours /day for 5 days; practical : 3 hours/day for 5 days) |
| **4** | **Prerequisites/co-requisites** | Therapeutics 2  |
| **5** | **Program title** | Pharmacy  |
| **6** | **Program code** | 12 |
| **7** | **Awarding institution**  | University of Jordan |
| **8** | **School** | Pharmacy  |
| **9** | **Department** | Biopharmaceutics and Clinical Pharmacy |
| **10** | **Level of course**  | Undergraduates  |
| **11** | **Year of study and semester (s)** | 5th year |
| **12** | **Final Qualification** | Pharmacy  |
| **13** | **Other department (s) involved in teaching the course** | NA |
| **14** | **Language of Instruction** | English |
| **15** | **Teaching methodology** | [x] Blended [ ] Online |
| **16** | **Electronic platform(s)** | [x] Moodle [x] Microsoft Teams [ ] Skype [ ] Zoom [ ] Others………… |
| **17** | **Date of production/revision** | 6-10-2021 |

**18 Course Coordinator:**

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

**19 Other instructors:**

**part time lecturers: 1- ph.Husam Salamat 2- ph.Malak Ali**

**20 Course Description:**

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| This course is directed toward introducing students to Drug Therapy Management (DTM) and Evidence Based Medicine (EBM). Students will be taught skills that will enable them to apply theoretical and basic principles of pharmacology, therapeutic and clinical courses in dealing with real cases to identify and resolve different treatment related problems. |

**21 Course aims and outcomes:**

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| **A-Aims:** 1. Understand steps of Pharmaceutical Care and evidence based medicine. 2. Provide patient education about diseases and medications. 3. Design the most appropriate " Pharmacist Care Plan" and "Pharmacist monitoring sheet" 4. Classify the problems properly according to the classification system in the manual. **B- Intended Learning Outcomes (ILOs):** Upon successful completion of this course students will be able to **Develop, integrate, and apply knowledge from the foundational sciences in Clinical sciences (learner).** 1. Define information regarding Pharmaceutical Care and Evidence-based medicine. **2.** Recall facts, and basic concepts, regarding: clinically significant side effects, drug interactions and contraindications to of the most alarming medications e.g amiodarone, digoxin, warfarin…and so on. 3. Classify actual and potential treatment related problems. 4. Develop counseling and interviewing skills 5. Utilize equations to calculate ideal body weight, body mass index and creatinine clearance 6. Apply knowledge in disease pharmacotherapy and pathophysiology, pharmacokinetics and other pharmaceutical subjects to the process of patient care. 7. Examine and inspect subjective and objective evidence related to hospital cases to: prioritize patients’ needs; recommend appropriate pharmacotherapy treatment; and recommend appropriate monitoring plan. 8. Design the pharmacist care plan. **Proactively investigates new knowledge, approaches or behaviour and takes steps to evaluate and** **improve performance (Self-learner).** **9.** Seek proactively new knowledge related to diseases and their management through browsing the internet based professional web sites. **10.** Collect and interpret proactively information from medical guidelines & journal databases. **Exhibit behaviours and values that are consistent with the trust given to the profession by patients, other** **healthcare providers, and society (Professional**). 11. Demonstrate integrity by not cheating and not committing plagiarism. **12.** Demonstrate respect to professors and classmates by observing active listening inside the classroom. |

**22. Topic Outline and Schedule:**

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| **Week** | **Topic** | **Teaching Methods\*/platform** | **Evaluation Methods\*\*** | **References** |
| Week 1 |  **1- Introduction to the course** **2-Patient data base:** **Students will learn how to read medical** **files and medications Sheets, decipher** **abbreviations, understand and extract** **necessary Information.** **\*Students will learn how to create patient** **data base** **\*Copies of a medical file and associated** **medication sheet from will be distributed** **to students** **\*Copies of lab tests forms with references** **values will be distributed to students** **3-Drug related problems:** **To classify and analyze the problems** **properly according to the classification****4- Care plan:** **Write appropriate "Pharmacist Care Plan"** **and "Pharmacist Care Plan Monitoring** **Worksheet".** **5- Consult Notes:** **Resolve and prevent treatment related** **problems.** **6- Pharmaceutical care** **Interviewing technique and counseling skills** |  1-Synchronous lecturing: (MS teams)   |  NA |  Pharmacy practice Manual Aburuz *et al*  |
| Week 2 | **Each student will handle a new** **case at JUH**  | Hospital Training at JUH | NA |  |
| Week 3 | Evaluation week  | 1- case discussion: Synchronous (MS teams)2- manual submitted as pdf via e-learning3- assignment submitted as pdf via e-learning  |  1- Manual 15% 2- Case discussion 5%3- Assignment 1; Novel drugs 10% |   |

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**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)** |
| Manual  |  15 | Hospital case  | Week 3 |
| Case discussion  |  5 | Hospital case  |  Week 3 |
| Assignment 1  | 10 | novel drugs- submitted via e-learning | Week 3 |
| Mid term exam  |  30  | TBA |  TBA |
| Final exam  | 40  | TBA | TBA |

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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 absenceB- 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 %** |
| **Manual and discussion**  | **20%** |
| **Assignment**  | **10%** |
| **Midterm Exam** | **30%** |
| **Final exam** | **40%** |

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

**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: 6-10-2021

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

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

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

Dean: Dr.Rana Abudahb--- Signature: -------------------------------------------