Course Name (Course Number): Pharmacy Practice 3 (1203516)

<table>
<thead>
<tr>
<th>Credit hours</th>
<th>1</th>
<th>Level</th>
<th>5th year</th>
<th>Pre-requisite</th>
<th>Pharmacy practice 2</th>
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</thead>
</table>

**Coordinator/ Lecturer**
- Rana Abu Farha
- Office number: 206
- Office phone: 23341

**Course website**
- E-mail: ranaabufarha@ju.edu.jo
- Place: JU hospital

**Office hours**
<table>
<thead>
<tr>
<th>Day/Time</th>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
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<tbody>
<tr>
<td></td>
<td>2-3</td>
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**Course Description**

This hospital training is directed toward training the students to use the theoretical and basic principles of pharmacology, therapeutic and clinical courses in dealing with real cases to identify and resolve different treatment related problems.

**Learning Objectives**

1. Assess patient related needs and identify different types of Treatment Related Problems (TRPs).

2. Communicate effectively with patients, physicians, and other health care professionals. (This includes both oral and written communication).

**Intended Learning Outcomes (ILOs):**
Successful completion of the course should lead to the following outcomes:

**A. Knowledge and Understanding:** Student is expected to

A1- To be able to read and understand medical files and medication sheets and lab data in real cases.
A2- Understanding Pharmacotherapy of different diseases.

**B. Intellectual Analytical and Cognitive Skills:** Student is expected to

B1- To identify treatment related problems for real cases
B2 To classify the problems properly according to the classification system in the manual.

**C. Subject-Specific Skills:** Student is expected to

C1-To solve Treatment Related Problems

**D. Transferable Key Skills:** Students is expected to

D1- To improve skills in patients interview.
D2-know how to implement clinical practice guidelines in everyday settings

**ILOs: Learning and Evaluation Methods**

<table>
<thead>
<tr>
<th>ILO/s</th>
<th>Learning Methods</th>
<th>Evaluation Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transferable key skills</td>
<td>Creating brochure on a disease assigned by instructor</td>
<td>Brochure</td>
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</table>
Course Contents

<table>
<thead>
<tr>
<th>Content</th>
<th>Reference</th>
<th>Week</th>
<th>ILO/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case #1</td>
<td></td>
<td>Week 1</td>
<td>Pharmaceutical Care Manual</td>
</tr>
<tr>
<td>Case #2</td>
<td></td>
<td>Week 2</td>
<td>Pharmaceutical Care Manual</td>
</tr>
<tr>
<td>Follow up of cases</td>
<td></td>
<td>Week 3</td>
<td>Quiz + Discussion</td>
</tr>
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Learning Methodology

Training procedure:
- In each training course the students will be divided into groups. Each group will undergo training in the hospital for three weeks (daily from 9.00-10.30)

- Each student in the group will be responsible for one case in the team (2 week), and will follow up the case till discharge.

- The student will be asked to identify the treatment related problems and try to resolve them according to the international guidelines.

- Each student will prepare presentation about one case, and will discuss it with his/her supervisor.

Hospital training teams:

The students will be divided into the following teams:
  - Cardiovascular team
  - Respiratory team
  - Nephrology team
  - Gastrointestinal team
  - Rheumatology team
  - Surgery
  - Pediatrics

Projects and Assignments

1. Each student will be asked to prepare a specific assignment that was defined previously by his/her instructors. (5 marks)
2. Each student will be asked to prepare a patient counseling pamphlet regarding specific disease/drug predefined by his/her instructors, the source of patient counseling data will be from the Medline-plus website. (10 marks)

**Evaluation**

<table>
<thead>
<tr>
<th>Evaluation</th>
<th>Point %</th>
<th>Date</th>
</tr>
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<tbody>
<tr>
<td>Cases</td>
<td>20</td>
<td>To be assigned by instructor</td>
</tr>
<tr>
<td>Case Discussion</td>
<td>10</td>
<td>To be assigned by instructor</td>
</tr>
<tr>
<td>Brochure</td>
<td>10</td>
<td>To be assigned by instructor</td>
</tr>
<tr>
<td>Evaluation</td>
<td>10</td>
<td>To be assigned by instructor</td>
</tr>
<tr>
<td>Quiz</td>
<td>10</td>
<td>To be assigned by instructor</td>
</tr>
<tr>
<td>Final Exam</td>
<td>40</td>
<td>To be assigned by coordinator</td>
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**References:**

References recommended for the students that can help them in understanding diseases, pathophysiology, treatment approaches recommended by recent guidelines and well-conducted clinical trials, medication related information (regimen, food and drug interactions, and side effects):
- www.guidelines.gov (International guidelines)
- Applied therapeutic (Koda-Kimble).
- Pharmacotherapy (Dipiro).
- Drug Information Hand book.
- www.drugs.com (for drug-drug interactions)
- www.pubmed.com (Clinical trials).
- www.medlineplus.com (for patient counseling).

**Textbooks:**


