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| **Course Title:** | **Pharmacotherapy-I** |
| **Course Code:** | **PHCP 457** |
| **Program:** | **Pharmaceutical Sciences** |
| **Department:** | **Clinical Pharmacy** |
| **College:** | **Pharmacy** |
| **Institution:** | **Najran University** |

**Table of Contents**

1. [Course Identification 3](#_bookmark0)

[6. Mode of Instruction (mark all that apply) 3](#_bookmark1)

1. [Course Objectives and Learning Outcomes 4](#_bookmark2)
   1. [Course Description 4](#_bookmark3)
   2. [Course Main Objective 4](#_bookmark4)
   3. [Course Learning Outcomes 4](#_bookmark5)
2. [Course Content 4](#_bookmark6)
3. [Teaching and Assessment 5](#_bookmark7)
   1. [Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods 5](#_bookmark8)
   2. [Assessment Tasks for Students 6](#_bookmark9)
4. [Student Academic Counseling and Support 6](#_bookmark10)
5. [Learning Resources and Facilities 6](#_bookmark11)
   1. [Learning Resources 6](#_bookmark12)
   2. [Facilities Required 7](#_bookmark13)
6. [Course Quality Evaluation 7](#_bookmark14)
7. [Specification Approval Data 7](#_bookmark15)

**2**

# Course Identification

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1. Credit hours:** | | **3 hours (2+1)** | | | | | | | | | |
| **2. Course type** | | | | | | | | | | | |
| **a.** | University |  | College | | √ | Department | | | |  | Others |
| **b.** | Required | | √ | Elective | | |  |  | | | |
| **3. Level/year at which this course is offered:** | | | | | | | | | **L** | **eve** | **l 8th 4th year** |
| **4. Pre-requisites for this course** (if any)**:**  **PHCL 443** | | | | | | | | | | | |
| **5. Co-requisites for this course** (if any)**:** | | | | | | | | | | | |
| **None** | | | | | | | | | | | |

1. **Mode of Instruction** (mark all that apply)

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Mode of Instruction** | **Contact Hours** | **Percentage** |
| **1** | **Traditional classroom** | 60 | 100 |
| **2** | **Blended** |  |  |
| **3** | **E-learning** |  |  |
| **4** | **Correspondence** |  |  |
| **5** | **Other** |  |  |

1. **Actual Learning Hours** (based on academic semester)

|  |  |  |
| --- | --- | --- |
| **No** | **Activity** | **Learning Hours** |
| **Contact Hours** | | |
| **1** | **Lecture** | 30 |
| **2** | **Laboratory/case studies/scenarios** | 30 |
| **3** | **Tutorial** | 0 |
| **4** | **Others** (specify) | 0 |
|  | **Total** | 60 |
| **Other Learning Hours\*** | | |
| **1** | **Study** | 40 |
| **2** | **Assignments** | 10 |
| **3** | **Library** | 0 |
| **4** | **Projects/Research Essays/Theses** | 0 |
| **5** | **Others** (specify) | 0 |
|  | **Total** | 110 |

**\*** The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

**3**

# Course Objectives and Learning Outcomes

|  |
| --- |
| **1. Course Description**  This course emphasizes the clinical use of medication in the prevention and treatment of disease. Pharmacotherapy serve the needs of all upcoming pharmacy professionals by chronic diseases. This course reviews the pharmacotherapy of different diseases main focus on therapeutic knowledge to care for patients. |
| **2. Course Main Objective** |
| * Basic concept of the diseases of major organs (GIT, Respiratory, Cardio vascular and Urinary system, blood disorders) * Students can choose the best therapy according to the condition of the patients. * Able to do the differential diagnosis between some common diseases. |

## 3. Course Learning Outcomes

|  |  |  |
| --- | --- | --- |
| **CLOs** | | **Aligned**  **PLOs** |
| 1 | **Knowledge:** | |
| 1.1 | Describe the concepts and facts of the pharmacology of drug use and interactions and toxicity, as well as the aspects of pharmacotherapeutics related to GIT, CVS and respiratory systems. | K4 |
| **2** | **Skills :** | |
| 2.1 | Evaluate the possible therapeutic applications, interactions or interferences of drugs and pharmaceutical compounds. | S1 |
| 2.2 | Describe the strategies for solving the problems in the field of pharmaceutical sciences related to pharmacotherapeutics. | S2 |
| 2.3 | Interpret the scientific data and information related to drugs with effective use. | S3 |
| 2.4 | Communicate clearly by verbal and written means | S4 |
| **3** | **Competence:** | |
| 3.1 | Work independentlyand professionally**.** | C1 |
| 3.2 | Use of personal values and ethical principles in the field of therapeutics | C2 |
| 3.3 | Use of advanced techniques in the developing of the therapeutics in the field of Pharmacy. | C3 |

# Course Content

|  |  |  |
| --- | --- | --- |
| **No** | **List of Topics** | **Contact Hours** |
| 1 | **Introduction to Pharmacotherapy** | 1 |
| 2 | **Gastroesophageal Reflux Disease (GERD)** | 2 |
| 3 | **Constipation, Diarrhea , IBS** | 5 |
| 4 | **Peptic ulcer** | 2 |
| 5 | **Liver diseases (Hepatitis)** | 1 |
| 6 | **Pneumonia** | 1 |
| 7 | **Asthma** | 2 |
| 8 | **COPD** | 2 |
| 9 | **Hypertension** | 3 |
| 10 | **Dyslipidemia** | 2 |
| 11 | **Heart failure** | 3 |
| 12 | **Cardiac arrhythmias** | 1 |
| 13 | **Hypertension** | 3 |
| 14 | **Anemia** | 1 |
| 15 | **Thalassemia** | 1 |
| **Total** | | 30 |

# Practical sessions that includes case studies and scenarios

|  |  |  |
| --- | --- | --- |
| **No** | **List of Topics** | **Contact Hours** |
| 1 | **Introduction to Pharmacotherapy** | 1 |
| 2 | **Gastroesophageal Reflux Disease (GERD)** | 2 |
| 3 | **Constipation, Diarrhea , IBS** | 5 |
| 4 | **Peptic ulcer** | 2 |
| 5 | **Liver diseases (Hepatitis)** | 1 |
| 6 | **Pneumonia** | 1 |
| 7 | **Asthma** | 2 |
| 8 | **COPD** | 2 |
| 9 | **Hypertension** | 3 |
| 10 | **Dyslipidemia** | 2 |
| 11 | **Heart failure** | 3 |
| 12 | **Cardiac arrhythmias** | 1 |
| 13 | **Hypertension** | 3 |
| 14 | **Anemia** | 1 |
| 15 | **Thalassemia** | 1 |
| **Total** | | 30 |

**4**



# Teaching and Assessment

## Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

|  |  |  |  |
| --- | --- | --- | --- |
| **Code** | **Course Learning Outcomes** | **Teaching Strategies** | **Assessment Methods** |
| **1.0** | **Knowledge** | | |
| 1.1 | Describe the concepts and facts of the pharmacology of drug use and interactions and toxicity, as well as the aspects of pharmacotherapeutics related to GIT, CVS and respiratory systems. | Lectures | Written exam  Assignment |
| **2.0** | **Skills** | | |
| 2.1 | Evaluate the possible therapeutic applications, interactions or interferences of drugs and pharmaceutical compounds. | Lectures  Case studies and scenarios | Written exam,  Presentation |
| 2.2 | Describe the strategies for solving the problems in the field of pharmaceutical sciences related to pharmacotherapeutics. | Lectures  Case studies and scenarios | Written exam,  Assignment |
| 2.3 | Interpret the scientific data and information related to drugs with effective use. | Lectures  Case studies and scenarios | Written exam,  Presentation |
| 2.4 | Communicate clearly by verbal and written means | Lectures  Case studies and scenarios | Written exam,  Presentation |

**5**

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| --- | --- | --- | --- |
| **Code** | **Course Learning Outcomes** | **Teaching Strategies** | **Assessment Methods** |
| **3.0** | **Competence** | | |
| 3.1 | Work independentlyand professionally**.** | Lectures | Written exam,  Presentations,  Practical exams |
| 3.2 | Use of personal values and ethical principles in the field of therapeutics | Lectures | Written exam,  Presentations,  Practical exams |
| 3.3 | Use of advanced techniques in the developing of the therapeutics in the field of Pharmacy. | Lectures | Written exam,  Presentations  Practical exams |

## Assessment Tasks for Students

| # | Assessment task\* | Week Due | Percentage of Total Assessment Score |
| --- | --- | --- | --- |
| 1 | Midterm exam 1 | 6 | 15% |
| 2 | Assignments | 12 | 5% |
| 3 | Lab. practical quiz | 9 | 5% |
| 4 | Midterm exam 2 | 10 | 15% |
| 5 | Observation card | 2-12 | 5% |
| 6 | Final practical Exam | 15 | 15% |
| 7 | Final exam | 17 | 40% |
| 8 | Total |  | 100% |

**\*Assessment task** (i.e., written test, oral test, oral presentation, group project, essay, etc.)

# Student Academic Counseling and Support

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| --- |
| **Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :** |
| * Office hours (2 hours per week): Each faculty member must set fixed two hours each week to fulfill the students’ academic requirements. * Office hours must be announced in the office door and course blackboard. |

# Learning Resources and Facilities

## Learning Resources

|  |  |
| --- | --- |
| **Required Textbooks** | 1. Walker, R., 2011. Clinical Pharmacy and Therapeutics E-Book. Elsevier Health Sciences. 2. Wells BG, DiPiro JT, Schwinghammer TL, DiPiro CV. Pharmacotherapy Handbook, 9/E. McGraw Hill Professional; 2014 Aug 22. |
| **Essential References Materials** | Pharmacotherapy a pathopysiologic approach by Joseph T. DiPiro, PharmD, and etal |
| **Electronic Materials** | <http://lib.nu.edu.sa/DigitalLibbrary.aspx>  <http://www.thefreedictionary.com/pharmacotherapies>  **www.dlaf.nu.edu.sa** |

|  |  |
| --- | --- |
| **Other Learning Materials** | Micromedex |



## Facilities Required

|  |  |
| --- | --- |
| **Item** | **Resources** |
| **Accommodation**  (Classrooms, laboratories, demonstration rooms/labs, etc.) | Suitable presentation room equipped with data show and internet and sufficient number of seats. |
| **Technology Resources**  (AV, data show, Smart Board, software, etc.) |  |
| **Other Resources**  (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list) |  |

# Course Quality Evaluation

| **Evaluation**  **Areas/Issues** | **Evaluators** | **Evaluation Methods** |
| --- | --- | --- |
| Effectiveness of teaching strategies | Head of departments  and students | Indirect  Questionnaires (indirect) |
| Effectiveness of student assessment | Faculty members  and students | Indirect  Questionnaires (indirect) |
| Achievement of CLOs | Student  peer reviewer | Direct  Indirect |
| Quality of learning resources | Students | Questionnaires (Indirect) |

**Evaluation areas** (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

**Evaluators** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

**Assessment Methods** (Direct, Indirect)

# Specification Approval Data

|  |  |
| --- | --- |
| **Council / Committee** | Clinical Pharmacy Department Council |
| **Reference No.** | 41-40-1-2 |
| **Date** | 10-06-1440 H |

# 7