



# Course Specifications

<b>Course Title:</b>	Pharmacology I
<b>Course Code:</b>	<b>PHL213</b>
<b>Program:</b>	Bachelor of Dentistry [ BDS ]
<b>Department:</b>	Department of Basic Medical sciences
<b>College:</b>	College of Dentistry
<b>Institution:</b>	<b>Majmaah University</b>

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## A. Course Identification

<b>1. Credit hours:</b> 1
<b>2. Course type</b> <b>a.</b> University <input type="checkbox"/> College <input checked="" type="checkbox"/> Department <input type="checkbox"/> Others <input type="checkbox"/> <b>b.</b> Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
<b>3. Level/year at which this course is offered:</b> 2 <sup>nd</sup> year
<b>4. Pre-requisites for this course (if any):</b> <input checked="" type="checkbox"/> None
<b>5. Co-requisites for this course (if any):</b> Pharmacology II (PHL 511)

### 6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	27	90
2	Blended	3	10
3	E-learning	NA	NA
4	Correspondence	NA	NA
5	Other	NA	NA

### 7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
<b>Contact Hours</b>		
1	Lecture	30
2	Laboratory/Studio	-
3	Tutorial	4
4	Others (specify)	-
	<b>Total</b>	34
<b>Other Learning Hours*</b>		
1	Study	30
2	Assignments	10
3	Library	10
4	Projects/Research Essays/Theses	-----
5	Others (specify)	-----
	<b>Total</b>	50

\* 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

## B. Course Objectives and Learning Outcomes

### 1. Course Description

Pharmacology is introduced for throughout the 1<sup>st</sup> & 2<sup>nd</sup> semesters with useful information that is needed about the; course name, detailed course contents, detailed objectives for each class, the proper and modern methods and ways used for teaching in dental colleges, text books needed, and evaluation systems.

### 2. Course Main Objective

Discuss basic principal of Pharmacology science and how it relates to the practice of Dentistry

Discuss the general principles of pharmacology related to the drug pharmacokinetics and pharmacodynamics and their significance in the dental practice. The course widens the students' knowledge on the pharmacological action and therapeutic application of range of drugs used in the dental practice

### 3. Course Learning Outcomes

CLOs		Aligned PLOs
1	<b>Knowledge:</b>	
K3.12	Recognize the general principles of pharmacology related to the drug pharmacokinetics and pharmacodynamics and their significance in the dental practice	K3
K4.1	Identify the role of scientific research in drug development that evidence-based modify dental drug therapy.	K4
2	<b>Skills :</b>	
S 3.5	Apply the factors influencing the medication and effectiveness of a drug	S3
3	<b>Competence:</b>	
C 2.9	Demonstrate leadership skills and coordinate with fellow colleagues to submit a group task or assignment	C2

## C. Course Content

1.	List of Topics	Contact Hours
2.	<b>Introduction</b>	<b>1</b>
3.	<b>General Pharmacology</b>	<b>4</b>
4.	<b>NSAIDs</b>	<b>2</b>
5.	<b>Pharmacology of the Autonomic Nervous System</b>	<b>2</b>
6.	<b>Pharmacology of the CNS</b>	<b>3</b>
7.	<b>Antibiotics</b>	<b>5</b>
8.	<b>Antifungal Agents and Antiviral Agents</b>	<b>2</b>
9.	<b>Antiprotozoal and Anesthetics Agents</b>	<b>1</b>
10.	<b>The Proper Use of Antimicrobial Drugs in Clinical Practice</b>	<b>1</b>

11.	<b>Antineoplastic Drugs</b>	<b>1</b>
12.	<b>Pharmacology of the CVS</b>	<b>2</b>
13.	<b>Pharmacology of the Blood</b>	<b>2</b>
14.	<b>Pharmacology of the Respiratory System</b>	<b>1</b>
15.	<b>Pharmacology of the GIT</b>	<b>1</b>
16.	<b>Commonly Prescribed Drugs in Dental Clinics</b>	<b>1</b>
17.	<b>Local Anesthetics</b>	<b>1</b>
<b>Total</b>		<b>۳۰</b>

## D. Teaching and Assessment

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

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
<b>1</b>	<b>Knowledge</b>		
<b>K3.12</b>	Recognize the general principles of pharmacology related to the drug pharmacokinetics and pharmacodynamics and their significance in the dental practice	1. Lectures 2. Case discussion	1. Written exam. 1. Assignments.
<b>K4.1</b>	Identify the role of scientific research in drug development that evidence-based modify dental drug therapy.	1. Lectures 2. Case discussion	2. Written exam. Assignments.
<b>2.0</b>	<b>Skills</b>		
<b>S3.5</b>	Apply the factors influencing the medication and effectiveness of a drug	1. Lectures 2. Case discussion	1. Written exam. 2. Assignments 3. Case based scenario
<b>3.0</b>	<b>Competence</b>		
<b>C2.9</b>	Demonstrate leadership skills and coordinate with fellow colleagues to submit a group task or assignment	✓ Group discussion	Rubric based observation
3.2			
...			

### 2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	<b>Mid-Year exam (Theory)</b>	<b>17 W</b>	<b>40%</b>
2	<b>Activities (presentation/or research)</b>	<b>20 W</b>	<b>10%</b>
3	<b>Quizzes, behavior, attendance</b>	<b>1-30 W</b>	<b>10%</b>
4	<b>Final exam (Theory)</b>	<b>30-32 W</b>	<b>40%</b>
5	<b>Total</b>		<b>100%</b>
6			
7			
8			

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

## E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

Office hours 4/week

## F. Learning Resources and Facilities

### 1. Learning Resources

<b>Required Textbooks</b>	Lippincott's Illustrated Reviews: Pharmacology. Richard A. Harvey and Pamela C. Champe. J.B. Lippincott 2011
<b>Essential References Materials</b>	Pharmacology and Therapeutics for Dentistry. Yagiela, Dowd, Johnson, Mariotti and Neidle. Mosby. 2010
<b>Electronic Materials</b>	None
<b>Other Learning Materials</b>	None

### 2. Facilities Required

Item	Resources
<b>Accommodation</b> (Classrooms, laboratories, demonstration rooms/labs, etc.)	•A class room with a seating capacity of 30 students.
<b>Technology Resources</b> (AV, data show, Smart Board, software, etc.)	Projector. Smart board. Data show Projector.
<b>Other Resources</b> (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	

## G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students	✓ Course Evaluation Survey Quality of Exam Survey
Exam evaluation survey	Faculty	✓ CLO Mapping with teaching & assessment. ✓ Course Blueprinting ✓ Grade Analysis
Exam item analysis	Peers	Grade Verification
Extent of achievement of course learning outcomes	Faculty member / Quality assurance committee	✓ Direct assessment outcome analysis ✓ Course report preparation
Quality of learning resources,	Students / Faculty	✓ Academic advising survey

Evaluation Areas/Issues	Evaluators	Evaluation Methods
etc		✓ Student experience survey

**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)

### H. Specification Approval Data

Council / Committee	Department Council (2) 26/1/1441
Reference No.	
Date	26/1/1441