



Course Specifications

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|----------------------|--------------------------------------|
| Course Title: | Pharmacology II |
| Course Code: | PHL511 |
| Program: | Bachelor of Dentistry [BDS] |
| Department: | Department of Basic Medical sciences |
| College: | College of Dentistry |
| Institution: | Majmaah University |

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A. Course Identification

| |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Credit hours: 1 |
| 2. Course type |
| a. University <input type="checkbox"/> College <input checked="" type="checkbox"/> Department <input type="checkbox"/> Others <input type="checkbox"/> |
| b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/> |
| 3. Level/year at which this course is offered: 5 th year |
| 4. Pre-requisites for this course (if any): ✓ PHL 213 |
| 5. Co-requisites for this course (if any): None |

6. Mode of Instruction (mark all that apply)

| No | Mode of Instruction | Contact Hours | Percentage |
|----|-----------------------|---------------|------------|
| 1 | Traditional classroom | 14 | 90 |
| 2 | Blended | 1 | 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 |
|------------------------------|---------------------------------|----------------|
| Contact Hours | | |
| 1 | Lecture | 15 |
| 2 | Laboratory/Studio | 0 |
| 3 | Tutorial | 3 |
| 4 | Others (specify) | 0 |
| | Total | 18 |
| Other Learning Hours* | | |
| 1 | Study | 15 |
| 2 | Assignments | 5 |
| 3 | Library | 5 |
| 4 | Projects/Research Essays/Theses | ----- |
| 5 | Others (specify) | ----- |
| | Total | 25 |

* 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 1st 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

Understand the principles of clinical pharmacology and drug therapy in addition to clinical aspects of drugs implicated in dentistry.

Train student how to maximize patient compliance to medications, taking drug history and proper writing of prescriptions. Have a basic knowledge on drug-drug and food-drug interactions encountered clinically, particularly in dental practice. Understand the hazards of drug used during pregnancy and lactation.

3. Course Learning Outcomes

| CLOs | | Aligned PLOs |
|-------|---------------------------------------------------------------------------------------------------------------------------------|--------------|
| 1 | Knowledge: | |
| K3.35 | Memorize the basic knowledge of Clinical Pharmacology, understand drug- drug and Food- drug interactions. | K3 |
| K4.6 | Recall evidence-based case management and scientific research on dental case therapy to maximize the patient compliance. | K4 |
| 2 | Skills : | |
| S1.19 | Apply the factors influencing the drugs prescribed in dentistry with the indications and contraindications of drugs. | S1 |
| 3 | Competence: | |
| C1.13 | Demonstrate ethical, professional, and legal responsibilities in the dental drug prescription | C1 |

C. Course Content

| No | List of Topics | Contact Hours |
|--------------|------------------------------------------------------------|---------------|
| 1. | Introduction | 1 |
| 2. | Clinical Pharmacology | 2 |
| 3. | Drugs Implicated in Dentistry | 2 |
| 4. | Drug – Drug Interactions Clinically | 1 |
| 5. | Food – Drug Interactions Clinically | 1 |
| 6. | Patient’s Compliance to Medication | 1 |
| 7. | Hazards of drug Used during Pregnancy and Lactation | 1 |
| 8. | Pharcotherapy of Hypnotics, Anti-anxiety Agents | 1 |
| 9. | Coagulants | 1 |
| 10. | Local anesthetic agents | 1 |
| 11. | Antihypertensive agents | 1 |
| 12. | Antidiabetic agents | 1 |
| 13. | Revision | 1 |
| Total | | 10 |

D. Teaching and Assessment

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

| Code | Course Learning Outcomes | Teaching Strategies | Assessment Methods |
|-------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------|
| 1.0 | Knowledge | | |
| K3.35 | Memorize the basic knowledge of Clinical pharmacology, understand drug- drug and Food- drug interactions. | 1. Lectures 2. Group Discussion | 1. Written exam. 2. Assignments. |
| K4.6 | Recall evidence-based case management and scientific research on dental case therapy to maximize the patient compliance. | 1. Lectures Group Discussion | 1. Written exam. 2. Assignments. |
| 2.0 | Skills | | |
| S1.19 | Apply the factors influencing the drugs prescribed in dentistry with the indications and contraindications of drugs. | 1. Study groups 2. Case discussion | 1. Written exam. 2. Assignments Case based scenario |
| 3.0 | Competence | | |
| C1.13 | Demonstrate ethical, professional, and legal responsibilities in the dental drug prescription. | ✓ Group discussion | Rubric based observation |
| 3.2 | | | |
| ... | | | |

2. Assessment Tasks for Students

| # | Assessment task* | Week Due | Percentage of Total Assessment Score |
|---|----------------------------------------------|----------|--------------------------------------|
| 1 | Mid-term exam (Theory) | 8 W | 40% |
| 2 | Activities (presentation/or research) | 1-15 W | 10% |
| 3 | Quizzes, behavior, attendance | 1-15 W | 10% |
| 4 | Final exam (Theory) | 16-17 W | 40% |
| 5 | Total | | 100% |
| 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

| | |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Required Textbooks | Lippincott's Illustrated Reviews: Pharmacology. Richard A. Harvey and Pamela C. Champe. J.B. Lippincott 2011 |
| Essential References Materials | Pharmacology and Therapeutics for Dentistry. Yagiela, Dowd, Johnson, Mariotti and Neidle. Mosby. 2010 |

| | |
|---------------------------------|----------------------------|
| Electronic Materials | Search on scientific sites |
| Other Learning Materials | |

2. Facilities Required

| Item | Resources |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) | •A class room with a seating capacity of 30 students. |
| Technology Resources (AV, data show, Smart Board, software, etc.) | One computer in the classroom, Projector. Smart board. Data show Projector. |
| Other Resources (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 Psychometric 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, etc | Students / Faculty | ✓ Academic advising survey 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 |