

Course Specification

Pharmacology

1. General information

Course Title	Pharmacology
Code No.	PM732
Department	Pharmacology
Teaching Hours	300hrs.
Language	English
Academic Year	Third Year
Course Coordinator	Dr. Anaya Mohamed Elganni
Date and Signature	October 2020

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1.1 . Number of hours per week.

Lectures: 6hrs.

Laboratory: 2hrs.

Tutorial: 2hrs.

Total: 10hrs.

2. Objectives of Course:

- To help students for clear understanding the basic knowledge about commonly used groups of drugs, pharmacokinetics, mode of actions, pharmacological actions.
- To assure full understanding safe usage through learning their adverse effects including toxicity, contraindications and drug interactions.
- Providing students with clear understanding of the basic knowledge about therapeutic applications in various diseases.

3. Intending Learning Outcomes (ILOs):

a. Knowledge and Understanding:

On successful completion of the course, student will be able to:

a.1	Discuss the pharmacokinetics, pharmacodynamics and pharmacotherapeutics of different groups of drugs.
a.2	Sound awareness about the adverse effects including acute and chronic toxicity of commonly used groups, and their management
a.3	State limitations to the use of drugs such as contraindications and drug interactions.
a.4	Discuss the role, prevalence and limitations of alternative and complementary therapies commonly in use.
a.5	Discuss the principles and possible applications of gene therapy.

b. Intellectual skills:

On successful completion of the course, student will be able to:

b.1	Combine clinical and investigational data with evidence based knowledge for solving clinical problems.
b.2	Awareness about variations during drug application with regard age, sex and genetic related variations that affect response to drugs
b.3	Interpret a pharmacology report.
b.4	Analyze the mechanism of action of drugs with regard pathophysiology of diseases which is essential for further proper choice of drugs.

c. Practical and Professional Skills:

On successful completion of the course, student will be able to:

c.1	Observe, record and analyze the effect of drugs on biological tissue through performing a practical experiments mainly on animals in vivo and in vitro.
c.2	Design rational therapeutic strategies for both acute and chronic conditions
c.3	Practice writing a clear and useful prescription for selected important diseases.

d. General and Transferable skills:

On successful completion of the course, student will be able to:

d.1	Apply IT skills for appropriate drug database to reach information about a specific medication.
d.2	Respect ethics related to drug prescription.
d.3	Communicate orally and in writing.
d.4	Present scientific work utilizing IT methods.

4. Course Contents:

Academic Subject	Total Hours (300)	Lectures	Laboratory	Tutorials
Introduction	2	2	--	--
General pharmacology	8	4	2	2
Autonomic Nervous System	18	10	4	4
Autacoids	14	10	2	2
General Nervous system	42	30	6	6
Pharmacology of GIT	32	20	6	6
Cardiovascular System	32	20	6	6
Respiratory System	26	14	6	6
Endocrine System	32	20	6	6
Chemotherapy	32	20	6	6
Miscellaneous topics	18	10	4	4
Clinical Cases	22	10	6	6
Toxicology	22	10	6	6

5. Teaching and Learning Methods :

- Formal Lectures
- Practical sessions
- Case studies, Group discussion & Assignments

6. Evaluation Methods

Evaluation Method	Date	Marks 300	%	ILOs Assessed
1	Annual Work	60	20%	
	▪ Mid-year Exam	45		Knowledge, understanding and intellectual skills
	▪ Quizzes & Assignments	15		Knowledge, understanding and intellectual skills
2	Final Exam	240	80%	
	▪ Written	150		Knowledge, understanding and intellectual skills
	▪ Practical	60		knowledge, understanding and intellectual skills Practical and professional skills General and transferable skills
	▪ Oral	30		Knowledge, understanding and intellectual skills Professional, general and transferable skills

7. Evaluation Schedule:

Evaluation	Date
Mid-term written exam: It includes a varieties of questions; - True & False questions & Best answers choice Questions/ Multiple choice questions with case studies - Essay Questions - Matching and complete the blanks	January
Final written exam: It includes a variety of questions; - True & False questions & Best answers choice Questions/ Multiple choice questions with case studies - Essay Questions - Matching and complete the blanks	June
Practical exam.	June
Oral examination	June
Participation (discussions, assignments/ continuous assessment exam.....etc)	Daily-Monthly

8. References:

Reference Title	Publisher	Edition	Author	Place
Basic and clinical pharmacology		12 th	Katzung	Library
Supplementary books	pharmacology		Rang & Dale.	
Academic journal	Journal pharmacology			
Academic Magazine				
Internet websites	www.Pupmed.com			

9. Required Facilities:

Required Facilities	Comments
Data show & White board	Available
Pharmacology Lab	Available
Drugs	Available
Animal house	Not available
Pharmacology textbooks	Available

Course Coordinator: Dr. Anaya ELghannai

Signature:

Programme Coordinator: Dr. Hussain Amaigil

Signature:

Head of Department: Dr. Anaya Elghannai

Signature:

Date: October 2020

Course ILOs Mapping Matrix – Pharmacology

Topic	Knowledge and Understanding a					Intellectual Skills b				Practical and Professional Skills c			General and Transferable Skills d			
	1	2	3	4	5	1	2	3	4	1	2	3	1	2	3	4
Introduction	x							x						x	x	
General pharmacology	x	x		x		x	x	x	x	x			x	x	x	x
Autonomic Nervous System	x		x	x		x	x	x	x	x	x	x	x	x	x	x
Autacoids	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x
General Nervous system	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x
Pharmacology of GIT	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x
Cardiovascular System	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x
Respiratory System	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x
Endocrine System	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x
Chemotherapy	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x
Miscellaneous topics	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Clinical Cases	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Toxicology	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x