King Khalid University

College of Pharmacy

Department of Pharmacology

COURSE SCHEDULE

Male Section

Pharmacology (PHL- 225) For Physiotherapy

BY

Dr. Narasimman Gurusamy

Academic Session 1437-38

1st Semester

September-2016- January 2017

COURSE SCHEDULE

Course title	**PHARMACOLOGY**
Course code	**PHL 225 Section No**
Credit hours	**2+0 Credit Units (30 hours)** 2 Theory/week
Program(s) in which the course is offered	**Bachelor of Physiotherapy** College of Applied Medical Sciences
Name of faculty member responsible for the course	**Dr. Narasimman Gurusamy** Assistant Professor, Room No 142, Level 3, Department of Pharmacology College of Pharmacy King Khalid University Abha. Email: gurunaras@gmail.com Phone: Mobile: 0564966522; Extension: 9719
Lecture Timings Theory	**TUESDAY, 10.00 AM – 12.00 NOON** **C/5/31 GREGAR CAMPUS**
Lecture Timings Practical	**Not Applicable**
Level/year at which this course is offered	**Level 4 / Year 2**
Pre-requisites for this course (if any)	**None**
Co-requisites for this course (if any)	**None**
Location if not on main campus	**Not Applicable**
Total number of teaching weeks	**15 Weeks**
Total number of lectures Theory	**30 Hours**
Total number of Practical Hours	**Not Applicable**

Course Description

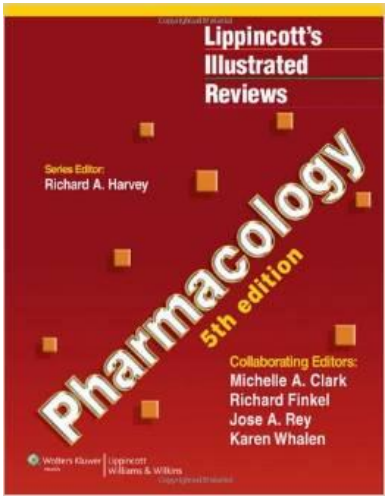
This course introduces the students to basic pharmacology (introduction, definition, classification, sources of drug, routes of drug administration, and distribution of drugs metabolism and excretion of drugs) of common drugs used, and their importance in the overall treatment. Students will be taught mechanism of drug action, drug interaction, adverse drug reaction, drug addiction, drug abuse and its treatments. It covers all aspects of the autonomic nervous system,; drugs used in cardiovascular system, respiratory system, gastrointestinal system and drugs used in neurological and endocrine disorders.

THE MAIN LEARNING OUTCOMES FOR STUDENTS ENROLLED IN THE COURSE

Introduces the students to the Basic Pharmacology by divulging the knowledge of

- General Principles of Pharmacology
- Drugs affecting the Autonomic Nervous system
- Drugs affecting the Peripheral Nervous system
- Drugs affecting the Cardiovascular system
- Drug therapy for Pain, Inflammation and neurological disorders
- Drugs acting on respiratory system
- Drugs affecting G.I.T Functions

TEXT BOOK FOR REFERENCE



Pharmacology (Lippincott Illustrated Reviews) 5th Edition by Richard A. Harvey

SCHEDULE OF ASSESSMENT TASKS

Quiz -I Exam (online)	10marks
Quiz –II Exam (online)	10marks
Mid Term Theory Exam	20 Marks
E-Assignments-I	10Marks
E-Assignments-II	10Marks
Final Exam	40 Marks
Total	100 Marks

Examination protocol

Quiz-I & II

Quiz-I & II will consist 10 multiple choice questions for 10 marks

Topics for Quiz-I

1. Introduction to Pharmacology
2. Pharmacodynamics
3. Pharmacokinetics

Date for Quiz-I Examination: 19.10.2016/18.01.1438H 8.30-9.30 PM

THROUGH BLACK BOARD

Topics for Quiz-II

1. Drugs used in the treatment of Congestive heart failure (CHF)
2. Hypertension

Date for Quiz-II Examination: 19-11-2016/21.02.1438H 8.30-9.30 PM

THROUGH BLACK BOARD

MID-TERM EXAM

Date for Mid-Term Examination: 03-11-2016/03.02.1438H ASIR BLOCK 4/10 12.00-1.00PM

MID-TERM EXAM CONSIST OF 30 MULTIPLE CHOICE QUESTIONS FOR 20 MARKS

- **DURATION OF EXAMINATION IS 45 MIN**

Topics for Mid-term exam

1. General Pharmacology
2. Pharmacokinetics
3. Pharmcodynamics
4. Factors modifying Drug Response, Adverse drug reactions
5. Autonomic Nervous system General Considerations
6. Cholinergic agents, Anti cholinergic agents
7. Adrenergic Drugs, Adrenergic Blockers

Assignments through E-Learning Activity

It will be given individually to the students from the topics of the course to do some online activities in the black board (E-assignments, Discussion Board and Forums) it will carry 10 marks

END SEMSTER EXAM

- **Final exam will consist of 60 multiple choice questions for 40 marks.**
- **The final examination will consist of 3 MCQs/lectures from the topics covered from 7th teaching week and**
- **1 MCQ/lecture from the topics covered by teaching week 1 to 6.**
- **DURATION OF EXAMINATION IS 90 min.**

FOR END SEMESTER EXAMINATION, DATE, TIME AND PLACE OF EXAMINATION WILL BE INFORMED BY ACADEMIC OFFICE

TEACHING SCHEDULE FOR PHARMACOLOGY (PHARM 225) – FEMALE PHYSIOTHERAPY

Lecture Timings: **TUESDAY, 10.00 AM – 12.00 NOON**

WEEK NUMBER	Date	TOPICS	FACULTY -INCHARGE
1	19.12.1437	**General Pharmacology, Introduction, Definitions, Pharmacokinetics** • Routes of Administration • Absorption, Distribution, Metabolism and Elimination of drugs • Bioavailability and factors affecting bioavailability • Biotransformation of Drugs	Dr. Narasimman
2	26.12.1437	**Pharmcodynamics, Factors modifying Drug Response, Adverse drug reactions** • Mechanism of Drug Action • Dose Response Relationship • Factors modifying Drug Response, • Adverse drug reactions • Different types of Drug interactions • Drug Toxicity	Dr. Narasimman
3	03.01.1438	**Autonomic Nervous system General considerations** • Anatomy of the autonomic nervous system • Neurotransmitters of ANS • Autonomic Receptors	Dr. Ahmed Hajoj
4	10.01.1438	**Cholinergic agents, Anti cholinergic agents** • Classification • Organ system effects • Therapeutic Uses • Adverse effects and management of Poisoning	Dr. Ahamed Hajoj
5	17.01.1438	**Adrenergic Drugs, Adrenergic Blockers** • Classification • Organ system effects • Therapeutic Uses • Adverse effects and management of Poisoning	Dr.Ahmed Hajoj

6	24.01.1438	**Ant arrhythmic agents, Drugs used in Ischemic Heart Disease** • Classification of anti-arrhythmic drugs • Drugs used in Ischemic Heart Disease • Pharmacological actions • Therapeutic uses and Adverse effects	Dr. Ahmed Hajoj
7	01.02.1438	**Drugs used in the treatment of Congestive heart failure (CHF), Hypertension** • Pathophysiology of heart failure • Pharmacology of drugs used in CHF • Pharmacology of drugs used in Hypertension	Dr. Absar
8	08.02.1438	**Lipid Lowering agents, Antithrombotic anticoagulants and thrombolytic agents** • Pathophysiology of hyperlipoprotenemia • Classification and Pharmacology of drugs used in lowering lipids in the body • Antiplatelets, Anticoagulants, Fibrinolytics	Dr. Absar
9	22.02.1438	**Glucocorticoids, Drugs used in the treatment of Arthritic diseases** • Drugs used in the treatment of Neuromuscular immune/Inflammatory disease • Pharmacology and therapeutic uses of naturally occurring and synthetic glucocorticoids • Pathophysiology and Drugs used in neuromuscular inflammatory immune diseases such as Myasthenia gravis, Multiple sclerosis, Spasticity and Gout	Dr. Ahmed Hajoj
10	30.02.1438	**Drugs used in the treatment of Mood disorders, Antiepileptic drugs** • Chemical classification of anti-psychotics agents • Pharmacological effects-Dopamine receptors and their effects • Therapeutic uses of anti-psychotics agents • Lithium and mood stabilizing agents • Classification of seizure	Dr. Narasimman

		• Management of epilepsy: Drugs used in Partial seizures and Generalized tonic-clonic seizures	
11	07.03.1438	**Antianxiety agents, Sedative Hypnotic Drugs** • Classification of sedative hypnotic drugs • Pharmacodynamics of Benzodiazepines, barbiturates and newer hypnotics	Dr. Absar
12	14.03.1438	**Drugs used in the treatment of Parkinson Disease, Spasticity and skeletal muscle relaxants** • Parkinsonism and the pharmacology of drugs used in the management of Parkinson disorders • Pharmacology of Neuromuscular blocking agents • Nondepolarizing and depolarizing relaxing agents • Spasmolytic agents	Dr. Absar
13	21.03.1438	**Narcotic analgesics and NSAID, Drug interactions with NSAIDs** • Classification of mechanism of action of narcotic analgesics • Classification of mechanism of action of non-steroidal anti-inflammatory drugs • Therapeutic effects of non-steroidal anti-inflammatory drugs • Adverse effects of non-steroidal anti-inflammatory drugs	Dr. Absar
14	28.03.1438	**Respiratory Pharmacology, Drugs used in the treatment of obstructive air way disease** • Classification of drugs used in the treatment of obstructive air way diseases • Mechanism of action and therapeutic uses of drugs used in the treatment of obstructive air way diseases	Dr. Narasimman
15	05.04.1438	**Drugs used in the treatment of Diabetes Mellitus, Peptic ulcer, constipation and diarrhea.** • Drugs used in the treatment of Diabetes Mellitus:	Dr. Narasimman

		Insulin, Oral anti-diabetic agents • Drugs used in anti-peptic disease • Drugs stimulating GIT motility • Anti-diarrhoeal drugs	