COURSE TITLE: PHARMACOLOGY MARK:

STUDY HOURS: 60+20 THEORY: 80 PAPER: 02 PRACTICAL: 20

TERM: 2nd TIME: 2:30HRS

The following Pharmacology contents will be taught briefly.

COURSE CONTENTS

Study Hours

(Theory + Practical)

6+2

A INTRODUCTION

A.1Pharmacology

A.2Definition

A.3Branches / Classification

A.4Drug

A.5Definition

A.6Nomenclature

A.7Pro drug

A.8Placebo

A.9Toxicology

B PHARMACOKINETICS

9+3

B.1 Definition

B.2 Drug Dosage

B.3 Types

B.4Forms

B.5Factor modifying the dosage of drugs

B5 Routes of administration

B5.1Definition

B5.2Types

B6 Enteral routes (oral, rectal)

B6.1 Advantages

B6.2 Disadvantages

B7 Parental routes (IV, IM, ID, SC) & OTHER ROUTES

B7.1 Advantages

B7.2 Disadvantages

B8 Drug absorption

B8.1 Drug permeation

B8.2Factors that modify drugs absorption

B8.3 Bioavailability

B8.4 Drug distribution & Volume of distribution

B8.5 Biotransformation

B8.6 Factor Effecting Biotransformation

B8.7 Elimination of drugs

B8.8 Bioavailability

		B8.9 Factors Effecting Bioavailability		
	C	PHARMACODYNAMICS	6+3	
		C.1. Definition		
		C.2. Drug receptor		
		C.3. Nature and sources of drugs		
		C.4. Mechanism of drugs action		
		C.5. Sites of drug action		
		C.6. Factors modifying drug effects		
		C.7. Drug antagonism		
	D	A DVEDGE DE A CTIONG OF DRUGG	(12	
	D.	ADVERSE REACTIONS OF DRUGS	6+2	
		D.1 Over dosage.		
		D.2 Secondary effects		
		D.3 Idiosyncrasy		
		D.4 Hyper sensitivity		
		D.5 Drug induced diseases.		
		D.6 Drug tolerance D.7 Drug dependence.		
		D.8 Habituation and addiction		
		D.9Bioliogical variations		
		D.10Allergy		
		D.11Tolerance		
		D.12Efficacy of Drugs		
		D.13Potenecy of drugs		
		D.13Fotenecy of drugs		
	E	CLASSIFICATION OF DRUGS:	18+5	
(Introduction, mode of action, Indications, Adverse effect		ts briefly)		
		E.1Analgesics and anti-inflammatory drugs.		
		E.2Opioid analgesics & opioid antagonists		
		E.3 Non-opioid analgesics.		
		E.4 NSAIDs.		
		E.5 Steroidal anti-inflammatory drugs.		
		E.6 Antipyretic.		
		E.7 Antiemetics.		
		E.8 Antihistamines		
		E.9 Antitussive		
		E.10Bronchdilators		
		E.11Antidepressants (introduction)		
		E.12Antipsychotics (Introduction)		
		E.13Multivitamins		
	F	ANTI MICROBIAL DRUGS	15+5	
	-	(Introduction, mode of action, effects, Adverse ef		
		F.1 Anti bacterial agents.		
		F.2 Anti fungal agents		
		F.3 Anti amoebic agents		

F.4 Anti malarial agents

F.5 Anti viral agents.

F.6 Anti tuberculosis agents

F.7 Antiseptics & Disinfectants.

F.8 Treatment of Scabies.

Recommended book: Text books of Pharmacology by Shamim

Textbooks of Pharmacology by Ferdous

Textbooks of Pharmacology By Inam Danish

Reference: book Lippincott's pharmacology

Basic and Clinical Pharmacology by G. katzung