IMMUNOLOGY	8
Antigen, antibody, epitope, hapten and adhesion molecules. Innate and acquired immunity.	
Type I, type II, type III, and type IV	
hypersensitivity reactions.	
Classification of the immunodeficiency disorders.	
Autoimmunity.	

SYLLABII AND COURSE DETAILS FOR:

GENERAL PHARMACOLOGY:

Introduction:

It is the science that deals with the origin, nature, chemistry, effects, and uses of drugs. it includes pharmacognosy, pharmacokinetics, pharmacodynamics, pharmacotherapeutics and toxicology.

Course Description & Objectives:	Suggested
Course Decemperent de Carjeourece	Lecture
	Hours
Introduction to Concepts & Principles of	3
General Pharmacology:	
Definition of drug and drug nomenclature.	
Branches / Divisions of Pharmacology	
Sources of drugs	
Active principles of drug and Pharmacology	
Dosage forms and doses of drugs.	
Drug administration.	
Absorption of drugs and processes involved	
in drug absorption	
Factors modifying absorption of drugs.	
Transport of drugs across cell-membrane	
Bioavailability, its clinical significance and	
factors affecting bioavailability	
Drugs reservoirs, distribution and	
redistribution of drugs, plasma protein	
binding District of the profession of the profe	
Pro-drug, Biotransformation of drugs,	
enzyme induction, enzyme inhibition and	
entero-hepatic circulation Plasma half-life of drugs, steady state	
concentration, its clinical importance and	
factors affecting it.	
Excretion of drugs.	
Mechanism of drug action.	
Dose response curves, structure-activity	
relationship.	
Factors modifying action and doses of drugs.	
Pharmacokinetics, pharmacodynamics and	

Receptors	
Locally Acting Drugs	2
Demulcents, Emollients, Irritants, Counter	_
irritants, Astringents, anti-seborrhoeics,	
locally acting enzymes.	
Antiseptics and Disinfectants	
Ectoparasiticides	
Drugs Acting on Gastrointestinal Tract	3
Anti Emetics	G
Drugs affecting motility of GIT	
Ulcer Healing drugs	
Purgatives / Laxatives	
Cardiovascular Drugs	5
Antiarrhymic Drugs	J
Ionotropic Drugs	
Antianginal Drugs	
Thrombolytics	
Antihyperlipidemic Drugs	
Diuretics	1
Alkaloids	1
	•
Drugs Acting on Autonomic Nervous	3
System Cholinorgic Drugs	
Cholinergic Drugs	
Choline Esters	
Anticholine-esterases	
Cholinimimetic Alkaloids	
Anti- Cholinergic Drugs	
Anti Muscarinic	
Non catecholamine	
Sympatholytics / Antiadrenergics	
Alpha Adrenergic Blockers	
Beta Adrenergic receptor Blockers	
Adrenergic Neuron Blockers	
Autonomic Ganglionic Blockers	
Skeletal Muscle Relaxants	
a) Neuromuscular Blocking Agents – D-	
tubocurarine, Suxamethanin b) Central Muscle Relaxants.	
, ,	
Meprobromate, Mephenesim ,	
Diazepam etc. Central Nervous System	4
Central Nervous System	4
a) Sedative-Hypnotics	
b) Antiepileptics c) General Anaesthetics	
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1 '	
e) Drugs for movement Disorder/Muscle	
Relaxant	
f) Alcohol	
g) Drugs for Migraine	
h) Stimulants of the Central Nervous	
System:	

	• Caffeine, Theophyline,	
	Theobromine	
	Brain stem stimulants: Picrotoxin,	
	Nikethamide, Ethamivan,	
	Doxapram	
i)	Psychopharmacology	
	 Anti-psychotics 	
	 Anxiolytics 	
	Anti-Depressant / Anti mania	
Analg	jesics	4
a)	Drugs-Hypothalamic Drugs	
b)	Adrenocorticoids	
c)	Sex Hormones	
d)	Thyroid / Parathyroid Drugs	
e)	Pancreatic Hormones and Oral	
	hypoplyglcemic Agents	
ANTII	BIOTICS:	4
Paran	neters:	
Provis	sional Diagnosis, Investigation,	
Empir	ical Therapy, prescribing after culture	
and s	ensitivity.	
VITA	MINS:	3
	neters:	
Groups of vitamins prescribed		
Vitamins prescribed on basis of therapeutic		
indication or empirical		
Single / multiple vitamins prescribing		
	nal with use of vitamins.	
	GESICS:	4
	neters:	
Various groups of analgesics prescribed		
Single		
Non	specific indications of analgesic	
presc	ribed	
ADVE	RSE DRUG REACTIONS nicrobials, cytotoxic drugs, steroids etc.	3