

Class	Department of Nursing, Bachelor of Science Degree in Nursing, Second Year		
Course Title	Pharmacology		
Placement	The second teaching building 232	Course Schedule	Friday
Course category	Lecture		
Course Objective	<ol style="list-style-type: none"> 1. Identify the fundamental principles of pharmacokinetics and pharmacodynamics. 2. Apply the pharmacodynamic and pharmacokinetic principles that describe drug actions in humans. 3. Compare and contrast the specific pharmacology of the major classes of drugs, important distinctions among members of each class, the risks and benefits, in relation to the organ systems they affect, and the diseases for which they are used therapeutically. 		
Course Description	Basic principles of pharmacology, including receptor mechanisms, drug distribution and metabolism, and pharmacokinetics		
Evaluation methods	<ol style="list-style-type: none"> 1. Quiz I:30% 2. Quiz II:30% 3. Lecture Final Exam:40% 		

Course outline

Week#	Topic
Week 1	Introduction; Pharmacodynamics
Week 1	Pharmacokinetics
Week 2	Introduction to Autonomic Pharmacology; Cholinergic Drugs & Cholinergic Blocking Agents
Week 2	Adrenergic drugs & Adrenergic Blocking
Week 3	Antianginal Drugs & Drugs for Heart Failure
Week 4	Drugs used in Cardiac Arrhythmias
Week4	Antihypertensive Drugs & Diuretics
Week 5	Drugs Used in Coagulation & Anemia; Atherosclerosis & Antihyperlipidemic Drugs
Week 6	Introduction to the Pharmacology of CNS Drugs; Alcohols & CNS Stimulants; Sedatives and Hypnotic
Week 6	Opioid Analgesics and Antagonists
Week7	Antipsychotic Agents & Lithium; Antidepressant Agents
Week7	Skeletal Muscle Relaxants; Pharmacologic Management of Parkinsonism & Other Movement disorders
Week8	General & Local Anesthetics
Week8	Quiz I

Week9	Antiseizure Drugs
Week10	The Eicosanoids: Prostaglandins, Thromboxanes, Leukotrienes & Related Compounds
Week10	Anti-inflammatory Drugs; Drugs for Respiratory Diseases
Week11	The Overview of Endocrine System; Hypothalamic- Pituitary Hormones; Thyroid Hormones & Antithyroid drugs
Week11	Immunopharmacology
Week12	Pancreatic Hormones & Antidiabetic Drugs
Week13	Adrenocorticosteroids & Adrenalcortical Antagonist
Week13	Quiz II
Week14	The Gonadal Hormones and Inhibitors
Week14	Principles of Antimicrobial Therapy
Week15	Antibiotics, Antifungal & Antiviral Drugs
Week16	Cancer Chemotherapy
Week16	Introduction to Toxicology; Heavy Metal & Nonmetallic Toxicants
Week17	Drugs for Liver and Gastrointestinal Tract Diseases
Week17	Dosage Form & Drug Interaction
Week18	Lecture Final Exam