

Module (Course Syllabus) Catalogue 2022-2023

College/ Institute	Soran Technical Institute	
Department	Midwifery	
Module Name	Pharmacology	
Module Code		
Degree	Technical Diploma <input type="checkbox"/> *	Bachelor <input type="checkbox"/>
	High Diploma <input type="checkbox"/>	Master <input type="checkbox"/> PhD <input type="checkbox"/>
Semester	4 th semester	
Qualification	Diploma	
Scientific Title		
ECTS (Credits)		
Module type	Prerequisite <input type="checkbox"/>	Core <input type="checkbox"/> Assist. <input type="checkbox"/>
Weekly hours	2 hours	
Weekly hours (Theory)	() hr Class	() Total hrs Workload
Weekly hours (Practical)	() hr Class	() Total hrs Workload
Number of Weeks	12	
Lecturer (Theory)	Kareem Jamal Hamad	
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Lecturer (Practical)		
E-Mail & Mobile NO.		
Websites		

Course Book

Course Description	This course is the branch of pharmaceutical sciences that designed to help and teach students drug name, classify drugs categories, describing mode of action of drugs, and their metabolism and potential harmful effects. It studies how different chemicals affect biological systems.				
Course objectives	<p>A primary objective of Pharmacology is to provide a core fundamental information about use of pharmacological agents. At the end of course student will be able to:</p> <ol style="list-style-type: none"> 1. Define common terms related to pharmacology and drug therapy. 2. Discuss relevant historical, legal, ethical issues related to pharmacology. 3. Describe basics facts of drugs (name, classification, preparation, uses) 4. Describe phases of drug action in the body 5. Describe physiological processes, occur during pharmacokinetic phase 6. Discuss various types of responses that individuals may have to drugs. 7. Describe factors that affect an individual's response to drugs. 8. List the major drugs and drug classes currently used in medical practice. 				
Student's obligation	<p>Students role and obligations for the duration of academic year includes:</p> <ul style="list-style-type: none"> – Class attendance – Daily assessment – Completion of exams – Reports and preparing seminars related to subject topics 				
Required Learning Materials	Throughout academic course lecturer try to encourage and motivate students for active participation via lectures, group discussions, group work, role play, case based learning using available technological resources that help excellent feedback as data show, white board, posters, handouts.				
Evaluation	Task	Weight (Marks)	Due Week	Relevant Learning Outcome	
	Paper Review				
	Assignments	Homework	14%		
		Class Activity	2%		
		Report	24%		
		Seminar			
		Essay			
	Project				
	Quiz		4%		
	Lab.				
	Midterm Exam		% 16		
	Final Exam		% 40		
Total		% 100			

<p>Specific learning outcome:</p>	<p>Throughout academic course lecturer concerned to integrate basic principles of pharmacology (receptor mechanisms, drug distribution, metabolism, pharmacokinetics, interactions of drugs and biological systems) with students professional skills that promote students' knowledge in providing scientific health care and essentials of disease therapy in a variety of community-based health care delivery settings.</p> <p>Specific learning outcomes are:</p> <ol style="list-style-type: none"> 1. Identify the essential principles of pharmacokinetics and pharmacodynamics 2. Apply pharmacodynamics and pharmacokinetic principles that describe drug actions within the human body 3. Classify the specific major classes of drugs, the risks and benefits of each class, effect and adverse effects of each group. 4. Identify the role and responsibilities of nurses in drug therapy. 	
<p>Course References:</p>	<ol style="list-style-type: none"> 1. Student's pharmacology manual prepared by lecturer 2. Roach.S (2011). Pharmacology for health care professionals 3. Al-said R (2008). Pharmacology for nurses 4. Rang HP, Ritter JM, Flower RJ, Henderson G "Rang & Dale's Pharmacology" 8th edition, 2014. 	
<p>Course topics (Theory)</p>	<p>Week</p>	<p>Learning Outcome</p>
<p>1. Introduction to Pharmacology</p>		
<p>2. Drug action within the body</p>		
<p>3. Pharmacodynamic</p>		
<p>4. Drugs affecting respiratory system</p>		
<p>5. Drugs used in pain management</p>		
<p>6. Sedative and hypnotic drugs</p>		
<p>7. Drugs affect gastrointestinal (GI) system</p>		
<p>8. Anti-infective drugs(Sulfonamides- Penicillin- Cephalosporin)</p>		
<p>9. Anti-infective drugs (Tetracycline- Macrolides- Fluoroquinolones- Aminoglycosides)</p>		
<p>10. Anti-tuberculosis drugs, Antiviral Drugs, Antifungal Drugs</p>		
<p>11. Drugs used in epilepsy and Parkinson disease</p>		

12. Drugs used in Heart failure and Arrhythmia		
13. Drugs used in hypertension and hyperlipidemia		
14. Drugs that affect the Blood and Drug used in Anemia		
15. Diuretics and urinary system drugs		
16. The Nervous System \ Pharmacology of autonomic nervous system		
17. The Sympathetic Nervous System		
18. Fluids and Electrolytes		
19. Psychiatric drugs		
20. Antipsychotic Drugs (neuroleptic)		
21. Anti-diabetic Drugs		
22. Topical Drugs used in skin disorders		
23. Thyroid and Anti thyroid Drugs		
24. Hormones		

Questions Example Design

Type of questions	Example
Definition	Define pharmacology?
Compositional	Classify anti-hypertensive drugs by one example for each group?
Multiple choice	Drug may have more than one: a) Chemical name b) Trade name c) Generic name d) None of them
Short answer	Count 4 items of anti-acids from proton pump inhibitor group?

Extra notes:

External Evaluator