Department	Pharmacy

Course Name	Clinical Pharmacy and Therapeutics -2-	**Course No.**	**201533**
Prerequisite	Therapeutics & Clinical Pharmacy-1-	Credit Hours	2
Number & date of course plan approval		Brief Description	See form QF02/0409

Intended Learning Outcomes	At the end of each lecture series, the student should be able to perform the following: 1. Review and identify the pathophysiology, risk factors, clinical manifestations and prognosis of the disease covered. 2. Understand the relationship of the above factors to the prevention or treatment of disease. 3. Accurately identify the rational drug therapy or treatment of disease including efficacy, mode of action, dose, side effects, adverse effects, drug-drug interactions and contraindications. 4. To be able to provide patient education and drug information to patients and other health professionals. 5. Recall, and apply appropriate knowledge and skills to establish safe and effective drug use. 6. Identify and describe the role of the clinical pharmacy service. 7. Describe physiological/ biochemical disorders underlying the common disease states of the major body systems. 8. Recognize conventional pharmacological approaches to the therapeutic management and/ or prophylaxis of these conditions. 9. Provide a rationale for appropriate pharmacological strategies. 10. Advocate dosage regimens taking into account individual patient characteristics. 11. Determine laboratory criteria that should be initiated and continuously followed up to ensure successful therapeutic drug monitoring. 12. Deliver a critical oral presentation of the therapeutic management of a chosen clinical condition
Course Topics	Fluids and electrolytes Acid-base disorders Acute renal failure Chronic renal Failure (CRF) Management of CRF complications Dialysis Liver cirrhosis DVT Diabetes Arrhythmia (AFIB) Anemia Peptic ulcer GERD Anxiety Osteoporosis Clinical cases
Text Books	1. Pharmacotherapy-A Pathophysiologic Approach, by Joseph DiPiro, 9th edition 2. Applied therapeutics: the clinical use of drugs by Koda-Kimble, 10th edition 3. Clinical pharmacy and Therapeutics, by Roger Walker and Clive Edwards, 3rd edition. 4. Pharmacotherapy principles and practice, Christopher M. Terpening, 2010 5. Drugs in Use: Clinical Case Studies for Pharmacists, Dodds and Linda J. Dodds, 3rd edition

References	See above		
Grade Determination	1st Exam = 25% 2nd Exam = 25% Final Exam = 50%	Practical Course Grade Determination	Course Work = 50% (Reports, Term Papers, Quizes) Final Exam = 50%

Course Outline

Week	Hours	Subjects	Chapters in Textbook	Notes
1	1 1	Fluids and electrolytes Fluids and electrolytes	Pharmacotherapy-A Pathophysiologic Approach	
2	1 1	Fluids and electrolytes Acid-base disorders	Pharmacotherapy-A Pathophysiologic Approach	
3	1 1	Acute renal failure Acute renal failure	Pharmacotherapy-A Pathophysiologic Approach + Pharmacotherapy principles and practice	
4	1 1	Chronic renal Failure (CRF) Chronic renal Failure (CRF)	Pharmacotherapy-A Pathophysiologic Approach+ Pharmacotherapy principles and practice	
5	1 1	Management of CRF complications Management of CRF complications	Pharmacotherapy-A Pathophysiologic Approach+ Pharmacotherapy principles and practice	
6	1 1	Management of CRF complications Dialysis	Pharmacotherapy-A Pathophysiologic Approach	
7	1 1	Liver cirrhosis Liver cirrhosis	Pharmacotherapy-A Pathophysiologic Approach+ Pharmacotherapy principles and practice	
8	1 1	DVT DVT	Pharmacotherapy-A Pathophysiologic Approach+ Pharmacotherapy principles and practice	

	Course Outline			
Week	**Hours**	**Subjects**	**Chapters in Textbook**	**Notes**
9	1 1	Diabetes Diabetes	Pharmacotherapy-A Pathophysiologic Approach+ Pharmacotherapy principles and practice	
10	1 1	Diabetes Arrhythmia	Pharmacotherapy-A Pathophysiologic Approach	
11	1 1	Arrhythmia (AFIB) Arrhythmia (AFIB)	Pharmacotherapy-A Pathophysiologic Approach	
12	1 1	Anemia Anemia	Pharmacotherapy-A Pathophysiologic Approach	
13	1 1	Peptic ulcer GERD	Pharmacotherapy-A Pathophysiologic Approach	
14	1 1	Anxiety Anxiety	Pharmacotherapy-A Pathophysiologic Approach	
15	1 1	Osteoporosis Osteoporosis	Pharmacotherapy-A Pathophysiologic Approach	
16	1 1	Clinical cases	Pharmacotherapy-A Pathophysiologic Approach+ Pharmacotherapy principles and practice	

Approved by Dept. Chair		Date of Approval	

Extra Information: (Updated every semester and filled by course instructor)

Course Instructor	
Office No.	
Extension **Email**	
Office hours	