

Course Detailed Description – Procedures of the Course Plan Committee /Faculty of Pharmacy	QF02/0408–2.1E
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Department	Pharmacy
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<b>Course Name</b>	Therapeutics & Clinical Pharmacy-2-	<b>Course No.</b>	201533
Prerequisite	Therapeutics & Clinical Pharmacy-1-	Credit Hours	3
Number & date of course plan approval	٢٠١٧-٢٠١٦	Brief Description	See form QF02/0409

<b>Course Objective</b>	<p>This course is the second of a two-part series. Clinical 2 will enable a student to continue to apply knowledge and develop skills needed by a pharmacist to provide patient care, using a systematic patient-care process to define and achieve the goals of optimizing safe, effective pharmacotherapy. Clinical pharmacy 2 serve the needs of all future pharmacists by focusing on core chronic disease states. This Course briefly reviews the pharmacotherapy of various diseases with primary focus on applying therapeutic knowledge to care for patients with such diseases.</p>
<b>Intended Learning Outcomes</b>	<p>At the end of each lecture series, the student should be able to perform the following:</p> <ol style="list-style-type: none"> <li>1. Review and identify the pathophysiology, risk factors, clinical manifestations and prognosis of the disease covered.</li> <li>2. Understand the relationship of the above factors to the prevention or treatment of disease.</li> <li>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.</li> <li>4. To be able to provide patient education and drug information to patients and other health professionals.</li> <li>5. Recall, and apply appropriate knowledge and skills to establish safe and effective drug use.</li> <li>6. Identify and describe the role of the clinical pharmacy service.</li> <li>7. Describe physiological/ biochemical disorders underlying the common disease states of the major body systems.</li> <li>8. Recognize conventional pharmacological approaches to the therapeutic management and/ or prophylaxis of these conditions.</li> <li>9. Provide a rationale for appropriate pharmacological strategies.</li> <li>10. Advocate dosage regimens taking into account individual patient characteristics.</li> <li>11. Determine laboratory criteria that should be initiated and continuously followed up to ensure successful therapeutic drug monitoring.</li> </ol> <p>Deliver a critical oral presentation of the therapeutic management of a chosen clinical conditio</p>

<b>Course Topics</b>	fluids and electrolytes Acid-base disorders Acute renal failure Chronic renal Failure (CRF) Management of CRF complications Dialysis Hypovolemia shock Asthma COPD Arrhythmia (AFIB) Paroxysmal Supraventricular Tachycardia Ventricular Arrhythmias Contraceptives Anemia Peptic ulcer GERD Osteoporosis Cystic fibrosis Thyroid disorder Clinical cases		
<b>Text Books</b>	- Pharmacotherapy-A Pathophysiologic Approach, (Joseph DiPiro) - Pharmacotherapy principles and practice, Christopher M. Terpening, 2010 - Drugs in use - Clinical Pharmacy and therapeutics		
<b>References</b>	See above		
<b>Grade Determination</b>	1 <sup>st</sup> Exam = 25% 2 <sup>nd</sup> 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 1	Fluids and electrolytes Fluids and electrolytes Fluids and electrolytes	Pharmacotherapy-A Pathophysiologic Approach	
2	1 1 1	Acid-base disorders Acid-base disorders Acute renal failure	Pharmacotherapy-A Pathophysiologic Approach	
3	1 1 1	Acute renal failure Chronic renal Failure (CRF) Chronic renal Failure (CRF)	Pharmacotherapy-A Pathophysiologic Approach + Pharmacotherapy principles and practice	
4	1 1 1	Management of CRF complications Management of CRF complications Management of CRF complications	Pharmacotherapy-A Pathophysiologic Approach+ Pharmacotherapy principles and practice	
5	1 1 1	Dialysis Dialysis Hypovolemia shock	Pharmacotherapy-A Pathophysiologic Approach+ Pharmacotherapy principles and practice	
6	1 1 1	Hypovolemia shock Asthma Asthma	Pharmacotherapy-A Pathophysiologic Approach	
7	1 1 1	Asthma COPD COPD	Pharmacotherapy-A Pathophysiologic Approach+ Pharmacotherapy principles and practice	
8	1 1 1	Arrhythmia Arrhythmia (AFIB) Arrhythmia (AFIB)	Pharmacotherapy-A Pathophysiologic Approach+ Pharmacotherapy principles and practice	
9	1 1 1	Paroxysmal Supraventricular Tachycardia Paroxysmal Supraventricular Tachycardia Ventricular Arrhythmias	Pharmacotherapy-A Pathophysiologic Approach	
10	1 1 1	Ventricular Arrhythmias Contraceptives Peptic ulcer	Pharmacotherapy-A Pathophysiologic Approach	



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11	1	Peptic ulcer	Pharmacotherapy-A Pathophysiologic Approach
	1	Peptic ulcer	
	1	GERD	
12	1	Osteoporosis	Pharmacotherapy-A Pathophysiologic Approach
	1	Osteoporosis	
	1	Anemia	
13	1	Anemia	Pharmacotherapy-A Pathophysiologic Approach
	1	Cystic fibrosis	
	1	Cystic fibrosis	
14	1	Thyroid disorder	Pharmacotherapy-A Pathophysiologic Approach+ Pharmacotherapy principles and practice
	1	Clinical cases	
	1	Clinical cases	

Approved by Dept. Chair		Date of Approval	
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**Extra Information:** (Updated every semester and filled by course instructor)

<b>Course Instructor</b>	Dr.Walid AlQerem
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<b>Office hours</b>	