

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>	Clinical Pharmacy and Therapeutics -1-	<b>Course No.</b>	0201531
Prerequisite	Pharmacology 3 Toxicology	Credit Hours	3
Number & date of course plan approval	2016-2017	Brief Description	See form QF02/0409

<b>Course Objective</b>	<ol style="list-style-type: none"> <li>1. Students should be understand the basic knowledge of factors that may affect treatment and the use of drugs.</li> <li>2. Students should have comprehensive information about the treatment of most common cardiovascular, metabolic, rheumatic and CNS diseases.</li> <li>3. Students should understand the role of pharmacist in the treatment and be able to apply these information in clinical practice.</li> </ol>
<b>Intended Learning Outcomes</b>	<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>
<b>Course Topics</b>	<ol style="list-style-type: none"> <li>1. General principles in therapeutics</li> <li>2. Drug treatment of cardiovascular diseases</li> <li>3. Drug treatment of diabetes mellitus diseases</li> <li>4. Drug treatment of rheumatoid diseases</li> <li>5. Drug treatment of CNS diseases</li> </ol>

<b>Text Books</b>	1. Pharmacotherapy-A Pathophysiologic Approach, by Joseph DiPiro, 9 <sup>th</sup> edition 2. Applied therapeutics: the clinical use of drugs by Koda-Kimble, 10 <sup>th</sup> edition 3. Clinical pharmacy and Therapeutics, by Roger Walker and Clive Edwards, 3 <sup>rd</sup> edition.			
<b>References</b>	1. Clinical Pharmacology by P.N. Bennett and M.J. Brown, 11 <sup>th</sup> edition.			
<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%	
<b>Course Outline</b>				
<b>Week</b>	<b>Hours</b>	<b>Subjects</b>	<b>Chapters in Textbook</b>	<b>Notes</b>
1	1	Introduction	1	Ref 3
	1	Pharmacogenetics and therapeutics	1	
	1	Pharmacogenetics and therapeutics	1	
2	1	Therapeutics in geriatrics	21	Ref 2
	1	Therapeutics in geriatrics	21	
	1			
3	1	Therapeutics in pediatrics	20	Ref 2
	1	Drug therapy during pregnancy	6	
	1			
4	1	Drug therapy during pregnancy	6	Ref 1
	1	Drug therapy during lactation	6	
	1			
5	1	Ischemic heart diseases	1	Ref 1
	1	Acute coronary syndrome	1	
	1	STEM	1	
6	1	Acute coronary syndrome	1	Ref 1
	1	NSTEM	1	
	1		1	
7	1	Hypertension	1	Ref 1
	1		1	
	1		1	

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Week	Hours	Subjects	Chapters in Textbook	Notes
8	1	Congestive heart failure	1	Ref 1
	1		1	
	1		1	
9	1	Dyslipidemia	1	Ref 1
	1		1	
	1		1	
10	1	Diabetes mellitus	7	
	1			
	1			
11	1	Venous thromboembolism	1	
	1			
	1			
12	1	Rheumatoid arthritis	11	Ref 1
	1	Rheumatoid arthritis	11	
	1	Rheumatic fever	11	
13	1	Osteoarthritis	11	Ref 1
	1	Gout	11	
	1		11	
14	1	Epilepsy	5	Ref 1
	1	Migraine	5	
	1	Depression	6	
15	1	Depression	6	Ref 1
	1	Schizophrenia	6	
	1	Schizophrenia	6	

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. Luay Al-Essa
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<b>Extension</b>	294
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<b>Office hours</b>	10-12 Sun, Mon, Thur. 8:45-9:30 Mon 3-4 Wed