



Course Detailed Description – Procedures of the Course Plan Committee /Faculty of Pharmacy	QF02/0408–1.0
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Department	Pharmacy
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Course Name	Practical Medicinal Chemistry	Course No.	201415
Prerequisite	Pharmaceutical organic chemistry Lab	Credit Hours	1
Number & date of course plan approval		Brief Description	See form QF02/0409

Intended Learning Outcomes	<ol style="list-style-type: none"> Following the attendance of this laboratory the student should be able to operate the different tasks of synthesized drugs analysis This Lab. represents the first true synthetic experience for the student
Course Topics	<ol style="list-style-type: none"> Synthesis of different known drugs by simple synthetic procedure Identification and determination of some drugs Seminars about important topics in medicinal chemistry
Text Books	<ol style="list-style-type: none"> An introduction to Medicinal chemistry, 4th edition, Graham Patrick, Oxford University Press, 2008. Foye's Principles of Medicinal Chemistry, 6th edition, Thomas L. Lemke and David A. Williams, Lippincott Williams & Wilkins, 2008. The Organic Chemistry of Drug Design and Drug Action, 2nd edition, Richard B. Silverman, Elsevier, 2004.
References	<ol style="list-style-type: none"> Wilson and Gisvold's Textbook of Organic Medicinal and Pharmaceutical Chemistry, 12th edition, J. N. Delgado and W. A. Remers, Lippincott-Raven, 2011. Burger's Medicinal Chemistry and Drug Discovery, 6th edition, M. E. Wolff, 2003. The Organic Chemistry of Drug Synthesis, Vol. 1-6, D. Lednicer and L. A. Mitscher, John Wiley and Sons.

Practical Course Grade Determination	Course Work = 50% (Reports, Term Papers, Quizzes) Final Exam = 50%
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Course Outline

Week	Hours	Subjects	Chapters in Textbook	Notes
1	3	Introduction, laboratory and safety rules.		
2	3	Synthesis of Paracetamol.		
3	3	Paracetamol identification.		



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4	3	Analysis of Paracetamol: Oxidometric method.		
5	3	Synthesis of acetanilide.		
6	3	Synthesis of Sulfanilamide (part1).		
7	3	Synthesis of Sulfanilamide (part 2).		
8	3	Furosemide assay.		
9	3	Spirocholactone assay.		
10	3	Chloramphenicol assay.		
11	3	Seminar.		
12	3	Seminar.		
13	3	Seminar.		

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

Course Instructor	
Office No.	
Extension	
Email	
Office hours	