

جامعة الزيتونة الأردنية

Course Detailed Description – Procedures of the Course Plan Committee /Faculty of Pharmacy **QF02/0408-2.10E**

Department	Pharmacy		
Course Name	Pharmaceutics-3-	Course No.	0201321
Prerequisite	Pharmaceutics-2-	Credit Hours	
Number & date of course plan approval		Brief Description	See form QF02/0409

	1. Describe the development and purpose of the United States Pharmacopeia
	(USP) and the National Formulary (NF)
	2. Describe the central features of a typical drug monograph
	3. Compare and contrast significant drug regulation and control federal laws
Course	and their impact on pharmacy
Objectives	4. Explain the concept of pharmaceutical care
	5. Summarize the Code of Ethics for Pharmacists of the American
	Pharmacists Association
	6. Summarize the Code of Ethics of the American Association of
	Pharmaceutical Scientists (AAPS)
	1. The student is able to understand the basics in formulating different
	conventional and unconventional dosage forms regarding formulation
Intended	techniques, uses, storage and dispensing instructions.
Learning	2. The students will acquire from the basics of compounding extemporaneous
Outcomes	preparations and will make them ready to study advanced courses in this
Outcomes	field such as the industrial pharmacy courses.
	3. The students will be able to critically think and appreciate the need of designing innovative dosage form that corresponds to the new challenges.
	1. This course teaches the definitions of different dosage forms, including;
	semisolids, suppositories and sterile preparations with respect to their
	characteristics, methods of preparation, uses and advantages over other
а т .	dosage forms.
Course Topics	2. The course also provides information on the ingredients and raw materials
	that are involved in the specific dosage forms and the scientific knowledge
	on different methods and techniques employed in the preparation of these
	dosage forms.
	1. Ansel's pharmaceutical dosage forms and drug delivery systems. 10 th ed,
	2014
Text Books	
L'UNE D'OUND	2. Pharmaceutical practice, A.J. Winfield, R.M.E Richard , 4 th edition, 2009



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References1. Pharmaceutics. The Design and Manufacture of Medicines, by: M. E. Aulton. third edition , 2007 2. British Pharmacopeia, 2010. 3. Remington's:- The science and practice of Pharmacy, 21st ed, 2006. Martindal Extra Pharmacopeia, 2009.							
Grade Determination	1^{st} Exam = 25%Practical Course 2^{nd} Exam = 25%GradeFinal Exam = 50%Determination		Course Work = 50% ports, Term Papers, Quizes) Final Exam = 50%				
Course Outline							
Week	Hours	Hours Subjects			Cha	apters in	Notes
week	nours			Te	xtbook	INOTES	
1	1 1	Semisolid dosage forms : Introduction, Definitions and Classes			10	Ansel's	
2	1 1	Ointments: Bases, Classifications, Properties and Examples			10	Ansel's	
3	1 1	Creams, Pastes, Gels and examples of transdermal delivery system			10	Ansel's	
4	1 1	Creams, Pastes, Gels and examples of transdermal delivery system (continued)			10	Ansel's	
5	1 1	Percutaneous absorption: Routes of penetration, Factors affecting skin penetration, Percutaneous absorption techniques (in-vivo and in-vitro), formulation, dilution, evaluation tests, methods of preparation and packaging.			Ansel's		
6	1 1	Percutaneous absorption: Routes of penetration, Factors affecting skin penetration, Percutaneous absorption techniques (in-vivo and in-vitro), formulation, dilution, evaluation tests, methods of preparation and packaging. (continued)			11	Ansel's	
7	1	Suppositories: Definitions, Types, Reasons for suppository administration 12 Ansel's					
8	1 1 1	Factors affecting drug absorption from the rectum, Properties of ideal suppository bases12 Ansel'sand Types of suppository bases12 Ansel's					
9	1 1	Methods of prepara	tion of supposite	ories, alue,	12	Ansel's	



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		formulation parameters, quality control of suppositories, packaging and storage, rectal formulations other than suppositories, vaginal	
		drug delivery.	
10	1 1	Ophthalmic preparations: Classification, Formulation and Requirements	41 Aulton
11	1 1	Ophthalmic preparations: Classification, Formulation and Requirements. (continued)	41 Aulton
12	1 1	Preparation of eye drops, containers for eye drops, formulations of eye lotions, formulation of eye ointments and containers, ophthalmic inserts, contact lenses.	41 Aulton
13	1 1	Parenteral preparation :- Advantages, Routes of administration	15 Ansel's
14	1	Formulations, Requirements of parenteral solutions, Special injections, large volume parenteral products.	16 Ansel's
15	1 1	Pyrogens: Definition, Characters, sources, Removal and Pyrogens test	16 Ansel's
16	1 1	Pharmaceutical gels	39 Aulton 16 Ansel's

Approved by Dept. Chair	Date of Approval	

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

Course Instructor	Ola A. Altarawneh
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Office hours	