

بامعة البلقاء التطبيقية

تأسست نماء 1997

Paramedical program				
Specialization	Pharmacy			
Course number	020805131			
Course title	Pharmaceutics 1			
Credit hours	2			
Theoretical hours	2			
Practical hours	0			

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Brief Course Description:

Introduction to pharmaceutics and its definitions, Drug prescription and its contents, The course study different physical pharmaceutical procedures, biological and dynamical pharmacy.

Course Objectives:

Upon the completion of the course, the student will be able to:

1. Identify pharmacy, scopes of pharmaceutical practice, pharmacist and assistant pharmacist duties.

- 2. Identify pharmaceutical ethics .
- 3. Identify parts and components of drug prescription, types and criteria of dispensing.
- 4. Identify the pharmaceutical procedures.
- 5. Identify methods of Administration of drugs.
- 6. Identify drugs pharmacokinetics and biopharmaceutics.



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Detailed Course Description:

Unit number	Unit name	Unit content	Time needed
number		onit content	necucu
1.	Introduction	 Definition of : Pharmacy, pharmacist, pharmaceutics, Medication, controlled Substances, pharmaceutical dosage forms, pharmaceutical preparations. Pharmacist role in health care Pharmacist technician role in health care Types of pharmacy practice setting: (community pharmacy, non institutional ,drug stores, institutional pharmacy such as hospital pharmacies, drug manufacturing, medical representation, academic field , governmental 	
		institution)	
	Pharmaceutical	Pharmacist and Pharmacist relation	
2.	ethics and	Pharmacist and Patient relation	
	behavioral aspects	Pharmacist and Community relation	
	of pharmacy	• Pharmacist and Physician relation	
		 Logos of Medical profession 	
		 Social and behavioral aspects of pharmacy 	
		General pharmaceutical ethics	
3.	3.Dispensing and• Definition of prescription.		
	Prescription.	• Types of prescriptions and criteria to dispense	
		it.	
		• The parts of prescription	
		Abbreviations.	
		• Measures taken to deal with any mistake in	
		any prescription	
4.	Physical	• Physical procedures: (size reducing,	
	pharmaceutical	separation, Mixing and homogenization	
	procedures	• Pharmaceutical procedures that need heat, cold	
		like (crystallization, lyophylization, drying,	
		melting, evaporation, boiling, viscosity).	

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5.	Pharmaceutical procedures which need solvents	 Dissolving : Methods of dissolving, and types of solvent Distillation Extraction Maceration Decoction Percolation Digestions
6.	Biopharmaceutics And pharmacokinetics	 Definitions. Routes of drug administration. Pharmaceuticals dosage forms. Pharmacokinetics (in brief) Bioavailability, Bioequivalence, pharmaceutical equivalence.

Evaluation Strategies:

Exams	Percentage	Date
Mid Exam	40%	//
Final Exam	50%	//
Homework and Projects Discussions and lecture Presentations	10%	//

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Teaching language:

• English

Teaching Methodology:

Lectures

Text Book and References:

1. Pharmaceutical practice , A.J. Winfield, R.M.E. Richards, 3d. edition, 2005, Churchill Livingstone

2. Remington ,The science and practice of pharmacy 21st edition,2004, Lippincott William & Wilkens

3. British Pharmacopoeia 2008, British pharmacopoeia Commission, TSO.

4. L V Allen, N G Popovich, H C Ansel, Ansel"s Pharmaceutical dosage forms & Drug Delivery Systems, 9th edition, 2nd Indian reprint, 2011, Published by Lippincott Williams and Wilkins, Wolters Kluwer (India) Pvt. Ltd., New Delhi.

5. The pharmacy technician work book & certification , Perspective press ,2nd edition 2004, Morton publishing company.

6. The Science of dosage form design, Edin burgh, 2002, New Yourk, Churchill Livingston