

(Module Name) Course Catalogue

2023-2024

College	Erbil polytechnic university	
Department	Pharmacy	
Module Name	Pharmaceutics	
Module Code		
Semester	2	
Credit		
Module type	Prerequisite, Core, Aassist.	
Weekly hours	4	
Weekly hours (Theory)	(2)hr Class	(3)hrs Workload
Weekly hours (Practical)	(2)hr Class	(1) hr Workload
Lecturer (Theory)	Zana Ahmed Mustafa	
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Course Book

- **Course overview:**

This course includes pharmaceutical study of preparing drug dosage forms, differentiation of the type of drug dosage form and routes of drugs administration.

- **Course objective:**

The aims of this course are:

- Make students to be able to identify all types of drug dosage form.
- Make student to prepare some pharmaceutical dosage form.

12. Student's obligation

This is divided into two parts:

1- Theory: student must be careful on his availability in the class because there will be explanation and translating all contents of the lecture also mentioning type of the questions that come in the exams in each parts of the lecture.

2- practical: also the same as point 1 (availability in the Lab.) because here we will do everything practically and student will prepare dosage forms and how to act with chemical substances, glasses, laboratory instruments ...etc . also student must be careful about chemical substances and glasses etc. because some of these chemicals are dangerous. also student must ware lab. dress and some time use glasses during preparation.

- **Forms of teaching**

Theory: lecture halls with computers equipment for lecture presentations, white board, overhead projector, posters

Laboratory practice: balance for weighing, dropper for drug administration, gloves, white coat,, white board, computer with equipment for PowerPoint presentations, posters

General: library, computer suite with internet access

- **Assessment scheme**

6% Mid. Theory exam

10% Mid. practical exam

4% Quiz

40% Activity

25% final practical

15% final theory

- Specific learning outcome:		
Course Reading List and References: 1. Gate pharmacy by, G. vidya sagar 2. Dosage calculations by, Gloria D. Pickar 3. The text book of pharmaceutical medicine by John P. Griffin		
- Course topics (Theory)	Week	Learning Outcome
Introduction and history of pharmacy and some pharmaceutical definition	9-2-2020	Some pharmaceutical definition and types of dosage forms
Measurement and volume Types of measurement units with some examples	16-2-2020	Knowing all systems of measurement with their units and conversions
Dose, calculation of dose (adult, children and infant)	23-2-2020	How to calculate dose of child and elderly patients
Mixtures (definition, its kind and some examples about it)	1-3-2020	To differentiate between types of liquid dosage form
Solution (definition and its kinds)	8-3-2020	To differentiate between types of liquid dosage form
Syrup (definition and its kinds)	15-3-2020	To differentiate between types of liquid dosage form
a- simple syrup. B- syrups which contain medicament (therapeutic syrup) c- syrups which prepared by dilution.	29-3-2020	To know the differences and ways for preparing all types of syrups

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Emulsion (definition, kinds, kinds of preservative used in emulsion)	5-4-2020	To differentiate between types of liquid dosage form
Glyceritis (definition, kinds of the method of preparation).	12-4-2020	Using other solvents than water
Gargles (definition, kinds, methods of preparation)	19-4-2020	Difference between mouth wash and gargle and how to prepare it
Lotion (definition, kinds, method of preparation). A- eye lotion	26-4-2020	To differentiate between types of liquid dosage form
Suspension (definition and its kinds)	3-5-2020	To differentiate between types of liquid dosage form
Hydro alcoholic (definition and its kinds)	10-5-2020	Using other solvents than water
Elixir (definition and its kinds)	17-5-2020	Differences, advantages and disadvantages of using alcohol as a solvent
Spirit (definition and its kinds)	24-5-2020	Differences, advantages and disadvantages of using alcohol as a solvent
Exam		
- Practical Topics (If there is any)	Week	Learning Outcome
Weight and measurement (use of balance, system of weighting and measuring).	10-2-2020	How to use equipments in the lab.
Prescription, preparation of concentrated cinnamon water and anis water.	17-2-2020	To learn pharmaceutical calculations

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Formula and preparation of dill water peppermint water.	24-2-2020	How to add flavour to liquid dosage form
Formula and prepare of camphor water and caraway water.	2-3-2020	How to add flavour to liquid dosage form
Preparation of simple mixture	9-3-2020	How to prepare compounds and advantage and disadvantages of the compound
Preparation of mixture contain diffusible substances	16-3-2020	How to prepare compounds and advantage and disadvantages of the compound
Preparation of mixture containing in diffusible substances	30-3-2020	How to prepare compounds and advantage and disadvantages of the compound
Preparation of mixture forming precipitate.	6-4-2020	How to prepare compounds and advantage and disadvantages of the compound
Preparation of mixture slightly diffusible in water.	13-4-2020	How to prepare compounds and advantage and disadvantages of the compound
Preparation of mixture contain potent medicine.sulpher mixture and zinc mixture.	20-4-2020	How to prepare compounds and advantage and disadvantages of the compound
Preparation (acetylsalicylic mixture, aspirin whit mixture).	27-4-2020	How to prepare compounds and advantage and disadvantages of the compound
Preparation (belladonna mixture, bismuth mixture)	4-5-2020	How to prepare compounds and

		advantage and disadvantages of the compound
Carminative mixture, diuretic alkaline mixture	11-5-2020	How to prepare compounds and advantage and disadvantages of the compound
Expectorant sedative mixture, expectorant stimulant mixture.	18-5-2020	How to prepare compounds and advantage and disadvantages of the compound
Ferric ammonium mixture, kaolin mixture.	25-5-2020	How to prepare compounds and advantage and disadvantages of the compound

- **Examinations (question design):**

Q1// Fill the blanks

- 1- Mean age from one day to one month and Mean 1 year through 5 years.
- 2- and are among legal prescriber.
- 3- For certain drugs and for certain patients, drug dosage is determined on the basis of the patient's, And
- 4- In apothecary system the basic unit for weight is and that of volume is
- 5- The main drug standards are and
- 6- The main systems of measurement are,, , and

- 7- The main types of drugs are ,
..... And
8- The main types of emulsion are and
.....
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Q2//

A/ Enumerate FIVE components of prescription .

**B// Proper drug dosing of the pediatric patient depends on a number of factors
enumerate these factors.**

Q3// Enumerate sources of drugs with suitable example.

External Evaluator

**The outcome of course book evaluation is commonly more explicit and follows
the principles and rules in general.**

Sardar Qadir Umer