

## (Module Name) Course Catalogue

### 2022-2023

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	( 2 ) hrs Workload
Lecturer (Theory)	Zana Ahmed Mustafa	
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Lecturer (Practical)	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

<p>- <b>Specific learning outcome:</b></p>		
<p><b>Course Reading List and References:</b></p> <ol style="list-style-type: none"> <li>1. Gate pharmacy by, G. vidya sagar</li> <li>2. Dosage calculations by, Gloria D. Pickar</li> <li>3. The text book of pharmaceutical medicine by John P. Griffin</li> </ol>		
<p>- <b>Course topics (Theory)</b></p>	<p><b>Week</b></p>	<p><b>Learning Outcome</b></p>
<p>Introduction and history of pharmacy and some pharmaceutical definition</p>		<p>Some pharmaceutical definition and types of dosage forms</p>
<p>Measurement and volume Types of measurement units with some examples</p>		<p>Knowing all systems of measurement with their units and conversions</p>
<p>Dose, calculation of dose ( adult, children and infant)</p>		<p>How to calculate dose of child and elderly patients</p>
<p>Mixtures ( definition, its kind and some examples about it)</p>		<p>To differentiate between types of liquid dosage form</p>
<p>Solution ( definition and its kinds)</p>		<p>To differentiate between types of liquid dosage form</p>
<p>Syrup ( definition and its kinds)</p>		<p>To differentiate between types of liquid dosage form</p>
<p>a- simple syrup. B- syrups which contain medicament ( therapeutic syrup) c- syrups which prepared by dilution.</p>		<p>To know the differences and ways for preparing all types of syrups</p>

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

Formula and preparation of dill water peppermint water.		How to add flavour to liquid dosage form
Formula and prepare of camphor water and caraway water.		How to add flavour to liquid dosage form
Preparation of simple mixture		How to prepare compounds and advantage and disadvantages of the compound
Preparation of mixture contain diffusible substances		How to prepare compounds and advantage and disadvantages of the compound
Preparation of mixture containing in diffusible substances		How to prepare compounds and advantage and disadvantages of the compound
Preparation of mixture forming precipitate.		How to prepare compounds and advantage and disadvantages of the compound
Preparation of mixture slightly diffusible in water.		How to prepare compounds and advantage and disadvantages of the compound
Preparation of mixture contain potent medicine.sulpher mixture and zinc mixture.		How to prepare compounds and advantage and disadvantages of the compound
Preparation (acetylsalicylic mixture, aspirin whit mixture).		How to prepare compounds and advantage and disadvantages of the compound
Preparation ( belladonna mixture, bismuth mixture)		How to prepare compounds and

		advantage and disadvantages of the compound
Carminative mixture, diuretic alkaline mixture		How to prepare compounds and advantage and disadvantages of the compound
Expectorant sedative mixture, expectorant stimulant mixture.		How to prepare compounds and advantage and disadvantages of the compound
Ferric ammonium mixture, kaolin mixture.		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.**

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**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