

The University of Jordan

Faculty: Pharmacy
Program:

Department: Pharmaceutics
Academic Year/ Semester 2013/14, 1st semester

Course Name: Cosmeticology (1232724)

Credit hours	2	Level	5 th year	Pre-requisite	
Coordinator/ Lecturer		Office number		Office phone	
Course website		E-mail		Place	

Office hours					
Day/Time	Sunday	Monday	Tuesday	Wednesday	Thursday

Course Description

This course attempts to provide the students with the experience in the industrial pre-formulation, compounding, and preservation of cosmetic products.

Learning Objectives

1. To provide students with an understanding of the morphology and chemical structure of skin, hair, nail and teeth systems.
2. To provide students with the ability to utilize this understanding in the design of active cosmetic dosage forms.

3. To provide the students with the ability to analyze the relationship between the physicochemical properties of cosmetic ingredients and biological activity of cosmetic products.
4. To provide the students with all categories of raw materials used in cosmetic formulations.
5. To be able to conduct pre-formulation studies.
6. To be able to chose the suitable preservative combination to suit different types of formulas.

7. Intended Learning Outcomes (ILOs):

Successful completion of the course should lead to the following outcomes:

A. Knowledge and Understanding: Student is expected to

A1- To be able to describe the detailed structure of skin, its chemistry and functions of each layer. And the barrier functions of the skin.

A2- To be able to describe the detailed structure of hair, its chemistry and functions of each layer.

A3- To be able to describe the detailed structure of nail and its chemistry and functions of each part.

A4- To be able to describe the detailed structure of dental system and functions of each part.

A5- To recognize various types of active and inactive ingredients used in cosmetic products formulations.

A6- To recognize various types of natural ingredients used in cosmetic products formulations.

A7- To recognize various types of preservatives used in cosmetic products.

B. Intellectual Analytical and Cognitive Skills: Student is expected to

B1- Be able to suggest formulations for cosmetic and cosmeceutical products.

B2 – To correlate between the activity of active ingredient and intended indication in cosmeceutical formulations.

C. Subject-Specific Skills: Student is expected to

C1- To be able to explain the function of each ingredient found in a cosmetic product.

C2- To be able to develop final cosmetic formulations.

D. Transferable Key Skills: Students is expected to

D1- - Gain knowledge and skills to advice people in cosmetic industry how to formulate a cosmetic product.

D2- Have the ability to suggest solutions to the problems encountered during the manufacturing process of cosmetic product.

ILOs: Learning and Evaluation Methods

ILO/s	Learning Methods	Evaluation Methods
	Lectures and Discussions, Assignments and Presentation.	Midterm Exam: 7th week Presentation: 10th week Final exam: 15th week

Course Contents

Content	Reference	Week	IL O/s
Hair structure		1 lectures Weeks 1	
Hair dyes formulations Hair shampoos and conditioners formulations Hair lacquers, sprays and lotions formulations Waving and relaxing preparations formulations		3 lectures Weeks 1 and 2	
Cosmetic raw materials Hair care formulations		4 lectures Weeks 3 and 4	
Skin structure, Moisturizing, Protective, Cleansers, Tonics Preparations.		2 lectures Week 5	
Skin care formulations		4 lecture Week 6 and 7	
Body care formulations		2 lectures Weeks 8	
Skin lighteners		2 lectures Week 9	
Sunscreen, suntan and anti-sunburn preparations		2 lectures Weeks 10	
Depilatories and Antiperspirants and deodorants		2 lectures Week 11	

Shaving preparations		2 lectures Week 12	
Manicure preparations Dental Products		2 lectures Week 13	
The use of plant in cosmetic products Preservation of cosmetic products		2 lectures Week 14	
Seminars on latest developments of cosmetic formulations		2 lectures Week 15	

Learning Methodology

Lectures and discussions, Assignments, Presentations, etc.

Projects and Assignments

To be determined

Evaluation

Evaluation	Point %	Date
Midterm Exam	<u>30</u>	Midterm Exam: 7th week
Assignments	<u>30</u>	10th week
Final Exam	<u>40</u>	16th week

Main Reference/s:

- Harry's Cosmeticology, Martin M. Rieger, 8th edition, 2000.
- Introduction to Perfumery, Tony Curtis, 2nd edition, 2001.
- Poucher's Perfumes, Cosmetics and Soaps, Hilda Butler, 10th edition, 2000.

References:

- International Journal of Cosmetic Science, Blackwell Publishing, www.blackwell-science.com/ics -2013.
- Cosmetics & Toiletries magazine, Allured, www.TheCosmeticSite.com . 2013.