



Course Code	Course Title	Credits (ECTS)
PHAR-470	Cosmetics/Καλλυντικά	3
Department	Semester	Prerequisites
Life & Health Sciences	Fall	None
Type of Course	Field	Language of Instruction
Elective	Pharmacy	Greek/English
Level of Course	Year of Study	Lecturer
1 st Cycle	4 th year	Marios Stylianou
Mode of Delivery	Work Placement	Co-requisites
face-to-face	N/A	None

Objectives of the Course:

The aims of this course are: The study, through lectures and demonstration of the anatomical construction of skin and related body structures, e.g. nail, hair, and their function. The chemistry of various ingredients of cosmetic preparations, like organic solvents, vaseline, lanoline, waxes, oils, essential oils and other aromatic substances. The technology of cosmetic products, e.g. emulsions, solutions, creams, ointments, powders, hair dyes. Preparations for hair, face, mouth, head, body, nail. The sunscreens and protection against the radiation of the sun. Various types of preservatives used in cosmetics. Dye ingredients in cosmetology. Contribution of cosmetics to health, beauty and psychosocial life. Differences between drugs and cosmetics. Further aim of the course is the knowledge of the national and European legislation governing cosmetic preparation and manufacturing, control, promotion and market. Safety in the use of cosmetics.

Learning Outcomes:

- After completion of the course students are expected to:
- have the necessary skills for the recognition and understanding of a given recipe and then for the execution of preparing a cosmetic suitable for administration.
 - acquisition of knowledge and the ability to recognize both the raw materials used in the manufacture of various cosmetics and other capacity building of students in the management of these substances and the ways and methods of preparation of various cosmetic formulations.
 - Know the anatomical construction of skin and related structures (hair, nails);
 - Know the chemistry of various ingredients of the cosmetic preparations, like solvents, vaseline, lanoline, waxes, oils, essential oils and other aromatic substances;
 - Know the technology of cosmetic products, e.g. emulsions, solutions, creams, etc;
 - Know the preparations for hair, face, mouth, head, body, nails;
 - Know the chemistry, technology and properties of sunscreens;

- Know the types of preservatives used in cosmetology, their chemistry, technology and contribution;
- Know the Cyprus and EU laws governing cosmetic production and market.

Course Contents:

Meaning of the terms cosmetics and cosmetology. Cosmetology as a science and an academic discipline. The role of cosmetics in health policy in the EU. RAPEX. EU legislation on cosmetic products (KV). Anatomy and physiology of the skin round. Cosmetics. Possibility of borders and cosmetics - a comparison with the drugs and medicines. Cosmetic substances - definition, classification and specification. Chemical and functional aspects of cosmetic ingredients. Ecological and toxicological aspects of cosmetics, hazardous ingredients. Technology of production of liquid, gel, emulsion, suspension, powder and aerosols. Prophylactic hygiene, barrier, regeneration, decorative and fragrant KV. Obligations of the manufacturer and the person placing the CV market in the EU.

Exercise 1: Preparation of a cold cream;

Exercise 2: Preparation of a hand lotion;

Exercise 3: Preparation of a medicinal soap;

Exercise 4: Protection of an oily cosmetic preparation from oxidation, by antioxidants and selection of the correct agent;

Exercise 5: Detection of mercury used in a cosmetic preparation for the skin.

Learning Activities and Teaching Methods:

Lectures, class discussion, assignments, laboratory

Assessment Methods:

Final Examination, Course work

Required Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN
Κ. Μουλοπούλου-Καρακίτσου, Δ. Ρηγόπουλος, Ι.Δ. Στρατηγός	Καλλυντικά - Συστατικά και Εφαρμογές	ΒΗΤΑ ΙΑΤΡΙΚΕΣ ΕΚΔΟΣΕΙΣ ΜΕΠΕ		
ΓΕΩΡΓΙΟΣ Θ. ΠΑΠΑΪΩΑΝΝΟΥ	ΚΟΣΜΗΤΟΛΟΓΙΑ	ΓΕΩΡΓΙΟΣ Θ. ΠΑΠΑΪΩΑΝΝΟΥ		
<u>M. Schlossman</u>	Chemistry and Manufacture of Cosmetics	Allured Pub Corp 4th ed		

Recommended Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN
F. Barrett-Hill and R. Hill	<u>Cosmetic Chemistry</u>	Virtual Beauty Corporation		