
COURSE: CHEMISTRY OF COSMETIC PRODUCTS

ACADEMIC YEAR: 2019-2020

TYPE OF EDUCATIONAL ACTIVITY: Free Choice

TEACHER: Dott. Antonio Vassallo

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Language: **ITALIAN**

ECTS: **6** (lessons and tutorials/practice)n. of hours: **48** (lessons and tutorials/practice)Campus: **Potenza**
Dept./School: **Department of Sciences**
Program: **Pharmacy (LM-13)****of** Semester: **II**
(from 2 March 2020 to 20 June 2020)

EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

The course aims to provide students with the basic knowledge of the main raw materials of cosmetic interest, their functionality, the formulation techniques of the most important categories of cosmetics and controls on the stability of the finished products. Legislation in the cosmetic field, with particular reference to the cosmetic labeling and safety in use.

At the end of the course the student have to demonstrate:

- Know the Italian and European laws, relating to the production and sale of cosmetic products.
 - Acquire management skills of the cosmetic product in Pharmacy.
 - Acquire the ability to recognize and manipulate the cosmetic raw materials and the composition and formulation techniques of the major cosmetic products.
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PRE-REQUIREMENTS

General and Inorganic Chemistry, Anatomy" and "Physiology" of skin and skin appendages.

SYLLABUSCosmetics legislation: (8 hours)

Legislation relating to the production and sale of cosmetic products. Definition of cosmetic product and rules on the use, production and sale of cosmetics: EU Directives, Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on Cosmetic products, Official Journal of the European Union (L 342/59) on cosmetic products. Labeling of cosmetic products. Italian and European legislation. International Nomenclature of Cosmetic Ingredients (INCI).

Cosmetics (4 hours):

Beginning and development of cosmetic science. Function of cosmetic products: cleaning, eutrophic, aesthetics.

Anatomy and physiology of the skin and its appendages. Emollient and moisturizing dermofunctional ingredients: principles, skin aging and anti-aging substances, and tanning products.

Classification of cosmetic raw materials (16 hours):

Synthetic and natural raw materials. Identification of the chemical and physical form of a cosmetic and purity criteria of raw materials. EU Inventory of Cosmetic Ingredients. Functional classification and nomenclature.

Classification of cosmetic forms (8 hours):

Chemical and physical cosmetics forms: Solutions: Hydrolate, Alcoholate, Oil Solutions. Disperse systems: suspensions. Emulsions.

Basic Cosmetics (8 hours):

cleaning, toning, moisturizing. Stability testing of cosmetic products. Monophasic Forms: Lotions, Tonics, Shampoo, Foam and Gels. Phytocosmetic

New cosmetic formulations (4 hours): liposomes, nanoparticles, multiple emulsions, microemulsions.**TEACHING METHODS**

Numbers of hours: 48 (Theoretical lessons)

EVALUATION METHODS

Intermediate verifications or Written examination and Discussion of a project work.

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

Slides and study materials provided by Teacher.

Suggested textbooks:

- Franco Bettioli, Massimiliano Cecchi. "Manuale delle preparazioni cosmetiche e dermatologiche. Teoria, pratica e normativa al nuovo Regolamento CE" Editore: Tecniche Nuove
- Umberto Borellini: " Manuale di cosmetologia. Dalla dermocosmesi funzionale alla cosmeceutica". Editore: Edra.
- D'agostinis Giovanni Mignini Elio "Manuale del cosmetologo". Editore: Tecniche Nuove.
- G. Proserpio, B. Ambreck, M. Ceolini. "Prontuario del Cosmetologo - Chimica, Tecnica, Legislazione - Ed. Tecniche nuove.
- G. D'Agostinis : "Le formule cosmetiche. Skin Care, protezione solare, decorativi, detergenza, estetica professionale, capelli, igiene orale, profumeria " Editore: Tecniche Nuove
- C. De Giuli. "Legge sui cosmetici (713/1986) e provvedimenti di attuazione: testi, commenti e note". Ed. OEMF, Milano.

Advanced textbooks :

- C. Bruno, G. Proserpio. "Fisiopatologia della pelle e degli annessi cutanei". Ed. OEMF, Milano. (matter: Anatomy and Physiology of skin)
- G. Proserpio, A. Martelli, G.F. Patri. "Elementi di Fitocosmesi". Ed. SEPEN, Milano. (matter: Phytocosmetic)
- G. Proserpio. "Piante medicinali nella cosmetica". Ed. OEMF, Milano. (matter: Phytocosmetic)

INTERACTION WITH STUDENTS

At the beginning of the course, after having described the programme and the valuation's methods, the teacher gives to students the studying material. In the same time, the teacher takes a paper with the names and emails of the students, who want to participate to the lessons/lab.

Teacher's meetings: Monday from 11:30 am to 12:30 pm in the teacher's office.

EXAMINATION SESSIONS (FORECAST)¹

3/02/2020; 9/03/2020; 15/06/2020; 13/07/2020; 21/09/2020; 19/10/2020; 2/12/2020

SEMINARS BY EXTERNAL EXPERTS	YES	X	NO
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FURTHER INFORMATION

¹Subject to possible changes: check the web site of the Teacher or the Department/School for updates.