Study program: Integrated academic studies of Pharmacy

Type and level of the study program: integrated academic studies

Course title: DERMOCOSMETIC PREPARATIONS (PhV-DCOSM)

Teacher: Svetlana S. Goločorbin-Kon, Mladena N. Lalić-Popović, Neda S. Gavarić

Course status: elective

ECTS Credits: 3

Condition: -

Course aim

Introduction to the dermocosmetic formulations and raw materials used for their compounding/production.

Introduction to the official regulations and standards for the production dermocosmetic preparations in the EU.

Introduction to the methods of preparation and testing of selected groups of dermocosmetic preparations.

Expected outcome of the course:

Pharmacy students will acquire knowledge on the effects of dermocosmetic preparations on the skin and adnexa and will be able to provide appropriate advice and recommendations on proper use and possible side effects of dermocosmetic preparations.

Pharmacy students will acquire skills to compound selected dermocosmetic preparations according to the skin type and/or skin condition.

Course description

- Theoretical education
- 1. Definition and characteristics of dermocosmetic preparations
- 2. Differences between dermocosmetic preparations and cosmetic products and medicines
- 3. Current legislation on dermocosmetic preparations in EU and USA
- 4. Assessment of efects, safety and tolerability of dermocosmetic preparations
- 5. Types of dermocosmetic preparations
- 6. Raw materials for the compounding/production of dermocosmetic preparations
- 7. Herbal dermocosmetic preparations
- 8. Standards for the production of dermocosmetic preparations according to the current regulations
- 9. Skin diseases and dermocosmetic preparations for the treatment of skin diseases
- 10. Dermocosmetic preparations for protection of skin from sun and aging
- 11. Acne, types and causes, dermocosmetic preparations for acne treatment
- 12. Dermocosmetic preparations for the treatment of baby and children's skin

Practical education: exercises, other forms of education, research related activities

- 1. Introduction to the current legislation in EU and USA related to the production process of dermocosmetic preparations
- 2. Introduction to the raw materials for the manufacture of dermocosmetic preparations
- 3. Compounding of selected dermocosmetic preparations
- 4. Testing of safety, tolerability and effects of dermocosmetic preparations

Literature

Compulsory

- 1. Rieger MM. Harrys Cosmetology, 8th ed. Chemical Publishing Co., Inc., New York, 2000.
- 2. Barel AO, Paye M, Maibach HI, eds. Handbook of Cosmetic Science and Technology, 4th ed. CRC Press, New York, 2014.

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- 3. Troy D, editor. Remington: The Science and Practice of Pharmacy. 21st ed. Lippincott Williams & Wilkins, Philadelphia, 2005.
- 4. Allen L, Popovich N, Ansel H, editors. Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems. 9th ed. Lippincott Williams & Wilkins, Philadelphia, 2010.
- 5. European Pharmacopoeia, 8th ed. European Directorate for the Quality of Medicines & Healthcare (EDQM), Council of Europe, Strasbourg, France, 2013. [e-book]

Additional

Colloquium

Essay

1. Swarbrick J., Boylan J.C., Encyclopedia of Pharmaceutical Technology Marcel Dekker Inc. New York, Basel, 2007

Number of active classes Other: Lectures: Practice: Other types of teaching: Research related activities: 30 15 **Teaching methods** Oral lectures, interactive classes, practical classes, laboratory work, seminar papers Student activity assessment (maximally 100 points) **Pre-exam activities** points Final exam points Lectures 10 Written 50 Practices 10