



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Raw materials of natural origin in cosmetics [S1IFar2>SPNwK]

Course

Field of study

Pharmaceutical Engineering

Year/Semester

3/5

Area of study (specialization)

–

Profile of study

general academic

Level of study

first-cycle

Course offered in

Polish

Form of study

full-time

Requirements

elective

Number of hours

Lecture

0

Laboratory classes

0

Other

0

Tutorials

15

Projects/seminars

0

Number of credit points

1,00

Coordinators

dr Maria Urbńska

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Lecturers

Prerequisites

Students entering the course should have a general knowledge of plant, animal and mineral raw materials. Before starting the exercises, they are required to familiarize themselves with selected procedures of good laboratory practice, as well as health and safety and fire regulations.

Course objective

To learn about the composition, properties and application of natural raw materials in cosmetics. Acquiring the ability to independently select natural active ingredients for cosmetic preparations.

Course-related learning outcomes

Knowledge:

1. Student has knowledge of natural and synthetic raw materials, products and processes used in the pharmaceutical industry. [K_W13]
2. Student has detailed knowledge of substances for pharmaceutical and cosmetic use, dietary supplements, plant raw materials, their manufacture, analysis and quality control, technology and general knowledge of the metabolism and effects of drugs and the correct use of medicinal products, knows the principles of creating the characteristics of a medicinal product and patient information

leaflet, knows and understands the principles of marketing authorization of medicinal products, medical devices, cosmetics and dietary supplements, knows the pharmacopoeial requirements for assessing the quality of substances and medicinal products. [K_W25]

Skills:

1. Student has the ability to educate himself. [K_U24]

Social competences:

1. Student is ready to critically evaluate his knowledge, understands the need for further education, supplementing directional knowledge and improving his professional, personal and social competence, understands the importance of knowledge in problem solving and is ready to consult experts. [K_K1]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Active participation in the proposed exercises. Observation of the student's work during the exercises. Correct completion of the tasks and submission of the exercise protocol (stationary or remote form depending on the epidemiological situation).

Programme content

The program includes the following topics:

1. Cosmetic formulations.
2. Natural raw materials.
3. Biological processes occurring in the skin.

Course topics

Natural substances in the aspect of biological processes occurring in the skin - the use of natural raw materials in the formulations of cosmetic preparations.

Teaching methods

Perform tasks given by the instructor - practical exercises.

Bibliography

Basic:

1. Lamer-Zarawska, E., Chwała C., Gwardys A. Rośliny w kosmetyce i kosmetologii przeciwstarzeniowej. PZWL, Warszawa 2012.
2. Lamer-Zarawska E., Noculak-Palczewska A. Kosmetyki naturalne. Astrum Wrocław 1994
3. Martini M.-C. Kosmetologia i farmakologia skóry. PZWL. Warszawa 2007.

Additional:

1. Malinka W. Zarys chemii kosmetycznej. Volumed, Wrocław 1999.
2. Zieliński R.: Surfaktanty - towaroznawcze i ekologiczne aspekty ich stosowania. Wyd. Akademii Ekonomicznej, Poznań 2000.

Breakdown of average student's workload

	Hours	ECTS
Total workload	30	1,00
Classes requiring direct contact with the teacher	15	0,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	15	0,50