



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Raw materials of natural origin in cosmetics [S1IFar1>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 (e.g. online)

0

Tutorials

15

Projects/seminars

0

### Number of credit points

1,00

### Coordinators

dr Maria Urbańska

### Lecturers

### Prerequisites

Basic knowledge of good laboratory practice procedures as well as occupational safety and health - OSH.

### Course objective

Obtaining knowledge about the composition, properties and use of raw materials of natural origin in cosmetics. Acquiring the ability to recognize the use of a cosmetic based on the INCI composition.

### Course-related learning outcomes

Knowledge:

1. the student knows raw materials of natural origin used in the cosmetics industry [k\_w13].
2. the student has detailed knowledge of natural substances used in cosmetics, mainly plant raw materials, their production and their proper use in cosmetics [k\_w25].

Skills:

1. the student knows the chemical composition of raw materials of natural origin [k\_u2].
2. the student has the ability to self-study [k\_u24].

Social competences:

1. the student is ready for evaluation of one's knowledge, understands the need for further training [k\_k1].
2. the student is aware of their responsibility for their work and liability for the results of the teamwork. the student is ready to make decisions independently. has a sense of responsibility for one's work and is willing to comply with the principles of teamwork and taking responsibility for collaborative tasks are aware of their responsibility for their work and liability for the results of the teamwork [k\_k2].

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Learning outcomes presented above are verified as follows:

Active participation in the proposed classes. Observation of student work during laboratory classes. Correct performance of tasks and presentation of the laboratory report.

### Programme content

The natural substances and biological processes in the skin - the employment of raw materials of natural origin in the formulas of cosmetic preparations.

### Teaching methods

Precise fulfilment of the tasks entrusted by the teacher.

### 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	25	1,00
Classes requiring direct contact with the teacher	15	0,60
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	10	0,40