

<b>Course title</b> Kosmetyka stosowana / Applied cosmetics		<b>ECTS code</b> 13.3.0469	
<b>Name of unit administrating study</b> Faculty of Chemistry			
<b>Studies</b>			
<b>Field of study</b>	<b>Type</b>	<b>Form</b>	
Chemistry	Bachelor	Full-time studies	
<b>Teaching staff</b> Dr hab. Beata Grobelna, prof. nadzw.			
<b>Forms of classes, the realization and number of hours</b>		<b>ECTS credits</b> 1	
<b>A. Forms of classes, in accordance with the UG Rector's regulations</b> lecture		classes - 15 h tutorial classes – 2 h student's own work – 8 h	
<b>B. The realization of activities</b> in-class learning		Total: 25 h - 1 ECTS	
<b>C. Number of hours</b> 15 h lecture			
<b>The academic cycle</b> Second year, summer semester			
<b>Type of course</b> obligatory		<b>Language of instruction</b> Polish	
<b>Teaching methods</b>  Lecture with multimedia presentation		<b>Form and method of assessment and basic criteria for evaluation or examination requirements</b>	
		<b>A. Final evaluation, in accordance with the UG study regulations</b> course completion (with a grade)	
		<b>B. Assessment methods</b> written test with open questions	
		<b>C. The basic criteria for evaluation or exam requirements</b>  • a positive grade from a written pass consisting of 10-15 open questions covering issues mentioned in the lecture's program content..	
<b>Required courses and introductory requirements</b> Completed course in cosmetics chemistry identifies and recognizes basic cosmetics, classifies ingredients of cosmetic products to particular groups of chemical compounds and recognizes and compares their most important properties.			
<b>Aims of education</b> <ul style="list-style-type: none"> <li>• familiarize students with the processes occurring in the skin under the influence of light or electricity,</li> <li>• familiarize students with the apparatus used in cosmetology and work safety with apparatus;</li> <li>• acquainting students with treatments used in cosmetology.,</li> </ul>			
<b>Course contents</b>  Problems of the lecture: include, among others, the following topics: peeling (mechanical, chemical, physical), sonophoresis, laser therapy (classification, construction and characterization of lasers), electrotherapy (electroplating, iontophoresis, electrolysis), radio waves, cavitation, rejuvenating methods (facelift and fillers - natural and synthetic), phototherapy, magnotherapy, mesotherapy (traditional and needleless), aromatherapy, massage basics, the basics of medicinal cosmetics. The above-mentioned methods will be discussed in terms of physical and chemical processes and changes occurring in the skin tissue. The apparatus used in these methods will be described.			
<b>Bibliography of literature</b> <b>A. Literature required to pass the course</b> <ol style="list-style-type: none"> <li>1. „Kosmetologia” Barbara Jaroszewska</li> <li>2. „Kosmetyka ozdobna i pielęgnacja twarzy” Xenia Petsitis, Katrin Kipper</li> <li>3. „Kosmetyka stosowana” Joanna Dylewska-Grzelakowska</li> </ol>			

**B. Extracurricular reading**

1. „Kosmetologia i farmakologia skóry” M.C. Martini.
2. „Zarys Kosmetyki lekarskiej” Anna Koźmińska-Kubarska

**Knowledge**

1. describes the basic treatments used in cosmetology,
2. recognizes lasers used in medicine and cosmetology,
3. describes the operation of lasers,
4. selects the treatment for the right type of skin,
5. recognizes chemical processes occurring in the human skin under the influence of electricity,
6. lists compounds that fulfill the role of fillers in aesthetic medicine,
7. describes the basic types of massage,
8. explains the effects of chemical compounds on the skin,
9. characterizes the types of mesotherapy,

**Skills**

1. independently searches of information in the cosmetics literature,
2. predicts the effect of chemical compounds on the skin used in cosmetology,
3. recognizes the basic equipment used in cosmetology,
4. predicts side effects of radio waves, lasers and ultrasounds on the human body.

**Social competence**