



UNIWERSYTET GDAŃSKI

<b>Course title</b> Przemysł kosmetyczny w praktyce/ Cosmetic industry in practice		<b>ECTS code</b> 13.3.0504	
<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. Sylwia Rodziewicz-Motowidło, 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> Third 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 pass with open questions	
		<b>C. The basic criteria for evaluation or exam requirements</b> The final grade will be issued on the basis of one final pass from the whole lectured subject. In the case of failing a negative grade can be improved by writing another written test. The grades will follow the guidelines set out in the "UG Study Regulations".	
<b>Required courses and introductory requirements</b> Completed courses in the field of cosmetics chemistry and applied cosmetics. Knowledge of general and organic chemistry, knowledge of basic issues in the field of cosmetics chemistry, knowledge and use of terminology and cosmetic nomenclature.			
<b>Aims of education</b> Acquainting with the basic processes of cosmetics production Acquainting with the technology of fluid production (tonics, micellar liquids, gels for body washing, gels for intimate hygiene) Acquainting with emulsion production technology (face creams, body lotions) Acquainting with the methods of work in the cosmetics technology laboratory Acquainting with the methods of work in the cosmetics quality control laboratory and in the research and development laboratory of a cosmetics company Getting to know the basic principles of GMP work Acquainting with the basic knowledge of the apparatus used in the production of cosmetics			
<b>Course contents</b> Basic processes of cosmetics production. Apparatus used in the manufacture and control of cosmetics. Technology transfer laboratory scale - semi-technical scale - technical scale. Basic information in the field of cosmetics for liquid and semi-solid forms. GMP standard in a cosmetics factory. Environmental standard.			

## **Bibliography of literature**

### **A. Literature required to pass the course**

- Brud W, Glinka R.Ł.: Technologia kosmetyków, Łódź 2001
- Warych J., Aparatura chemiczna i rocesowa. Oficyna Wyd. PW, Warszawa 1996

### **A.2. studiowana samodzielnie przez studenta**

- Marcinkiewicz-Salmonowiczowa J.: Zarys chemii i technologii kosmetyków, Pol. Gd. 1995
- Koch R., Noworyta A., Procesy mechaniczne w inżynierii chemicznej, WNT, Warszawa 1992

### **B. Extracurricular readings**

- Malinka W.: Zarys chemii kosmetycznej, Volumed 1999
- Marzec A.: Chemia kosmetyków, Toruń 2001
- Janicki S., Fiebig A.: Farmacja stosowana, PZWL 1996
- Peters B.: Kosmetyka, Warszawa 2002
- Jurkowska S.: Surowce kosmetyczne, Dąbrowa Górnicza 1999

## **Knowledge**

- Recognizes and explains the operation of the basic equipment used in the production of cosmetics
- Selects the appropriate type of apparatus for the assumed technological process
- Describes cosmetics production technologies
- Can plan a large-scale cosmetic production procedure

## **Skills**

### **Social competence**

- understands the need for systematic familiarization with the latest chemical literature
- is active in deepening knowledge and understands the need for continuous training in the field of work in a cosmetic enterprise
- Understands the need to become acquainted with scientific and popular scientific journals, basic in the field of peptide and protein chemistry used in cosmetic products, in order to broaden and deepen knowledge
- The student is aware of the impact of the known methods of cosmetics production on the environment