



UNIVERSITY OF  
**PATRAS**  
ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΑΤΡΩΝ

DEPARTMENT OF PHARMACY

SCHOOL OF HEALTH SCIENCES

UNIVERSITY OF PATRAS  
SCHOOL OF HEALTH SCIENCES  
DEPARTMENT OF PHARMACY  
POSTGRADUATE PROGRAM: **COSMETOLOGY - PREPARATION AND EVALUATION  
OF COSMETIC PRODUCTS**

COURSE TITLE: INDUSTRIAL PRODUCTION OF COSMETIC PRODUCTS  
CODE: PHA-COS-24

**INDUSTRIAL PRODUCTION OF COSMETIC PRODUCTS  
COURSE OUTLINE**

**1. GENERAL**

<b>SCHOOL</b>	HEALTH SCIENCES		
<b>ACADEMIC UNIT</b>	DEPARTMENT OF PHARMACY		
<b>PARTICIPATING INSTITUTIONS</b>	-		
<b>TITLE of POSTGRADUATE PROGRAM</b>	COSMETOLOGY - PREPARATION AND EVALUATION OF COSMETIC PRODUCTS		
<b>LEVEL</b>	POSTGRADUATE		
<b>COURSE CODE</b>	PHA-COS-24	<b>SEMESTER</b>	B'
<b>COURSE TITLE</b>	INDUSTRIAL PRODUCTION OF COSMETIC PRODUCTS		
<b>INDEPENDENT TEACHING ACTIVITIES</b>	<b>WEEKLY TEACHING HOURS</b>	<b>CREDITS</b>	
Courses	3	6	
<b>COURSE TYPE</b>	Field of Science		
<b>PREREQUISITE COURSES</b>	None		
<b>LANGUAGE of INSTRUCTION and EXAMINATIONS</b>	Greek		
<b>COURSE OFFERED to ERASMUS STUDENTS</b>	No		
<b>COURSE (URL)</b>	<a href="http://www.pharmacy.upatras.gr/images/DS/PHA-COS-24_EN.pdf">http://www.pharmacy.upatras.gr/images/DS/PHA-COS-24_EN.pdf</a>		

**2. LEARNING OUTCOMES**

<b>Learning Outcomes</b>
<p>By the end of this course the student will know</p> <ul style="list-style-type: none"> <li>The methods of Industrial Production of Cosmetic Products (Factory Organization for the Production of Cosmetic Products, Process Planning, Material and Personnel Flow, Quality Assurance, Process Design and Validation)</li> <li>The Good Manufacturing Practices (GMP), as described in the European Harmonized Standard ISO 22716:2007 concerning the production of cosmetic products.</li> </ul>
<b>General Competences</b>
<p>By the end of this course the student will, furthermore, have develop the following general abilities (from the list above):</p> <p><i>Search, analysis and synthesis of data and information, using the necessary technologies</i></p> <p><i>Decision making</i></p> <p><i>Autonomous (Independent) work</i></p> <p><i>Group work</i></p>

### 3. SYLLABUS

#### LECTURES

- Methods of Industrial Production of Cosmetic Products (Factory Organization for the Production of Cosmetic Products, Process Planning, Material and Personnel Flow, Quality Assurance, Process Design and Validation)
- GMP guidelines
- ISO 22716:2007.

### 4. TEACHING and LEARNING METHODS - EVALUATION

<b>DELIVERY</b>	In the classroom	
<b>USE of INFORMATION and COMMUNICATIONS TECHNOLOGY</b>	Learning process support through the e-class electronic platform to exchange files and lectures and to communicate with students. Lectures and presentations are all done using Information and Communication Technologies (ICTs) and information is searched through relevant databases.	
<b>TEACHING METHODS</b>	<b>Activity</b>	<b>Semester Workload</b>
	Lectures	60
	Literature study	50
	Assignment – Presentation of a relevant topic from the international literature	40
	<b>Course Total (25 hours of work-load per ECTS credit)</b>	<b>150</b>
<b>STUDENT PERFORMANCE EVALUATION</b>	Language of Evaluation: Greek  Written final exam which includes <ul style="list-style-type: none"> <li>• Short development questions</li> <li>• Critical thinking Questions</li> </ul>	

### 5. RECOMMENDED BIBLIOGRAPHY

1. Handbook of Cosmetic Science and Technology, André O. Barel, Marc Paye, Howard I. Maibach, eds, Marcel Dekker, Inc. New York • Basel, 2001, ISBN: 0-8247-0292-1
2. Formulas, Ingredients and Production of Cosmetics Technology of Skin- and Hair-Care Products in Japan Hiroshi Iwata, Kunio Shimada eds, Springer Tokyo Heidelberg New York Dordrecht London 2013, ISBN 978-4-431-54060-1
3. New Cosmetic Science T. Mitsui ed, Elsevier the Netherlands 1998, ISBN 0 444 82654 8
4. Chemistry and Technology of the Cosmetics and Toiletries Industry, Williams, D.F., Schmitt W.H eds, Springer Science+ Business Media New York 1992. ISBN 978-94-010-5007-4