



UNIVERSITY OF
PATRAS
ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΑΤΡΩΝ

DEPARTMENT OF PHARMACY

SCHOOL OF HEALTH SCIENCES

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POSTGRADUATE PROGRAM: **COSMETOLOGY - PREPARATION AND EVALUATION
OF COSMETIC PRODUCTS**

COURSE TITLE: **DEVELOPMENT OF COSMETIC PRODUCTS**
CODE: **PHA-COS-15**

**MICROBIOLOGY
COURSE OUTLINE**

1. GENERAL

SCHOOL	HEALTH SCIENCES		
ACADEMIC UNIT	DEPARTMENT OF PHARMACY		
PARTICIPATING INSTITUTIONS	-		
TITLE of POSTGRADUATE PROGRAM	COSMETOLOGY - PREPARATION AND EVALUATION OF COSMETIC PRODUCTS		
LEVEL	POSTGRADUATE		
COURSE CODE	PHA-COS-15	SEMESTER	A'
COURSE TITLE	DEVELOPMENT OF COSMETIC PRODUCTS		
INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	CREDITS	
Courses	3	6	
COURSE TYPE	Field of Science		
PREREQUISITE COURSES	None		
LANGUAGE of INSTRUCTION and EXAMINATIONS	Greek		
COURSE OFFERED to ERASMUS STUDENTS	No		
COURSE (URL)	http://www.pharmacy.upatras.gr/images/DS/PHA-COS-15_EN.pdf		

2. LEARNING OUTCOMES

Learning Outcomes
By the end of this course the student will be able to design and develop new cosmetic products and prepare various Cosmetic Forms such as: creams, ointments, wash suspensions, foams, gels, sticks, loose and compressed powders, and aerosols
General Competences
By the end of this course the student will, furthermore, have develop the following general abilities (from the list above): <i>Decision making</i> <i>Autonomous (Independent) work</i> <i>Group work</i>

3. SYLLABUS

LECTURES
<ul style="list-style-type: none"> • Design of Cosmetic Products • Manufacturing techniques of various Cosmetic Forms such as: Creams, Ointments, Washes (lotions), Suspensions, Foams, Gels, Sticks, Free and Compressed Powders and Aerosols. • Manufacturing techniques of various Categories of Cosmetic Products such as: Sunscreen products, Color Products, Face products, Body products, Hair products, Baby and children's cosmetics. • Advanced forms of cosmetics with nanotechnology (nanocosmetics) and techniques for evaluating the penetration of ingredients into the skin • Packaging and Labeling of Cosmetic Products

4. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	In the classroom	
USE of INFORMATION and COMMUNICATIONS TECHNOLOGY	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.	
TEACHING METHODS	Activity	Semester Workload
	Lectures	60
	Literature study	50
	Assignment – Presentation of a relevant topic from the international literature	40
	Course Total (25 hours of work-load per ECTS credit)	150
STUDENT PERFORMANCE EVALUATION	Language of Evaluation: Greek	
	1. Written final exam (80%) which includes	
	<ul style="list-style-type: none"> • Short development questions • Critical thinking Questions 	
	2. Assignment – Compilation of Cosmetic Product Information File (20%)	

5. RECOMMENDED BIBLIOGRAPHY

<ol style="list-style-type: none"> 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
