



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

COURSE TITLE: QUALITY AND SAFETY TESTING OF COSMETIC PRODUCTS CODE: PHA-COS-21

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-21	SEMESTER	B'
COURSE TITLE	QUALITY AND SAFETY TESTING 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		
COUSRSE (URL)	http://www.pharmacy.upatras.gr/images/DS/PHA-COS-21_EN.pdf		

2. LEARNING OUTCOMES

Learning Outcomes

By the end of this course the student will know

- Techniques for testing the Quality of Cosmetic Products, such as: Physicochemical tests (Organoleptic Characteristics, Control of pH, viscosity, rheological properties,
- The necessary Stability test protocols
- The determination of the shelf life of products (Period After Opening, Minimum Shelf Life).
- The required Cosmetic Product Safety tests.
- The drafting of a Cosmetic Product Safety Assessment Report, Risk Assessment.

General Competences

By the end of this course the student will, furthermore, have develop the following general abilities (from the list above):

Search, analysis and synthesis of data and information, using the necessary technologies Decision making

Autonomous (Independent) work

3. SYLLABUS

LECTURES

- Quality Control of Cosmetic Products: Physicochemical tests (Organoleptic Characteristics, Control of pH, viscosity, rheological properties,
- Stability test protocols Determination of shelf life (Period After Opening, Minimum Shelf Life).
- Cosmetic Product Safety test:
- Cosmetic Product Safety Assessment Report, Risk Assessment.
- In vitro Safety Assessment Methods (eg HET-CAM tests).

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. Lec- tures and presentations are all done using Information and Commu- nication Technologies (ICTs) and information is searched through rel- evant databases.	
TEACHING METHODS	ActivitySemester WorkloadLectures60Literature study50Assignment – Presentation of a relevant topic40from the international literature40Course Total150(25 hours of work-load per ECTS credit)150	
STUDENT PERFORMANCE EVALUATION	 Language of Evaluation: Greek 1. Written final exam (80%) which includes Short development questions Critical thinking Questions 2. Assignment – Cosmetic Product Safety test and preparation of a Cosmetic Product Safety Assessment Report (Risk Assessment) (20%) 	

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
- 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 N ew York 1992. ISBN 978-94-0IO-5007-4
- 5. THE SCCS NOTES OF GUIDANCE FOR THE TESTING OF COSMETIC INGREDIENTS AND THEIR SAFETY EVALUATION