

COURSE OUTLINE

(1) GENERAL

SCHOOL	of HEALTH and CARE SCIENCES		
ACADEMIC UNIT	BIOMEDICAL SCIENCES		
DIVISION	AESTHETICS AND COSMETIC SCIENCE		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	5041	SEMESTER	5
COURSE TITLE	Adverse effects of cosmetic products-Toxicology		
INDEPENDENT TEACHING ACTIVITIES <i>if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits</i>		WEEKLY TEACHING HOURS	CREDITS
Lectures		3	4
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>			
COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i>	SBC		
PREREQUISITE COURSES:	..		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	GREEK		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	...		
COURSE WEBSITE (URL)	https://eclass.uniwa.gr/courses/BISC261/		

(2) LEARNING OUTCOMES

<p>Learning outcomes</p> <p><i>The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.</i></p> <p><i>Consult Appendix A</i></p> <ul style="list-style-type: none"> • <i>Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area</i> • <i>Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B</i> • <i>Guidelines for writing Learning Outcomes</i>
<p>Aim and objective of the course:</p> <p>The aim of the course is for students to understand the side effects of cosmetics, which are now widely used by both women and men.</p> <p>The objective of the course is to teach students the basic principles of side effects, from the use of cosmetics.</p> <p>After the end of the course, students will be able to:</p> <ul style="list-style-type: none"> ✓ Recognize the appearance of the side effects on the skin ✓ To manage the side effects of cosmetics within their specialty . ✓ Be aware of the toxicity caused by cosmetics ✓ Evaluate the safety of the cosmetic to be used based on the toxicity of the individual components ✓ Know the process of submitting a file for the safety of cosmetics

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data and information, with the use of the necessary technology
Adapting to new situations
Decision-making
Working independently
Team work
Working in an international environment
Working in an interdisciplinary environment
Production of new research ideas

Project planning and management
Respect for difference and multiculturalism
Respect for the natural environment
Showing social, professional and ethical responsibility and sensitivity to gender issues
Criticism and self-criticism
Production of free, creative and inductive thinking
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Others...
.....

- *Autonomous work,*
- *Teamwork,*
- *Work in an interdisciplinary environment,*
- *Work in an international environment*

(3) SYLLABUS

1. Historical background of cosmetics. Frequency of skin reactions from cosmetics.
2. Identification control of "absorption energies". Reference to skin tests to evaluate the safety of substances contained in cosmetics. Coated skin tests (PATCH-TEST). Open tests. Photo tests.
3. Reference to cosmetic skin reactions. Acute irritant dermatitis, allergic contact dermatitis, photodermatitis.
4. Side effects from the use of cosmetics, special categories such as: Facial cleansing products, Creams, Face masks, Sunscreen products, Bleaching agents, Coating products and powders, Lip cosmetics, Products for and after shaving.
5. Side effects from: eye shadows, use of mascara, eye pencils, from synthetic lashes. 6. Side effects from: Products for the bath, Products for after the bath, From cosmetic products for the hands, Colognes-perfumes, Deodorants-antiperspirants, Sunscreens, Depilatories.
7. Side effects from: Products for the care and protection of the skin of infants and young people, Risks and protection of children and the elderly from cosmetic products.
8. Side effects from: Hair washing products, Hair dyes. Nail cosmetics. Products for the teeth and the oral cavity. From special products. Insect repellent products.
9. Evidence of toxicology. Absorption elements from the skin. Toxicity tests.
10. Basic Principles of Cosmetic Safety Control: Acute oral toxicity. Dermal Absorption. Skin irritation. Ocular irritation.
11. Sensitization of the skin. Chronic Toxicity, Phototoxicity (if exposed to ultraviolet light)
12. Toxicokinetics. Toxicokinetic studies. Studies in silico 13. Human Toxicity Data. Mutability. Genotoxicity. Carcinogenesis.

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY <i>Face-to-face, Distance learning, etc.</i>	Face to face in the classroom	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY <i>Use of ICT in teaching, laboratory education, communication with students</i>	<ul style="list-style-type: none"> • Use of ICT in teaching • Use of the e-mail and the website (eclass) for communication with the students 	
TEACHING METHODS <i>The manner and methods of teaching are described in detail.</i> <i>Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</i> <i>The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS</i>	Activity	Semester workload
	Lectures	70
	Study-Essay writing	50
	Course total	120
STUDENT PERFORMANCE EVALUATION <i>Description of the evaluation procedure</i> <i>Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other</i> <i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i>	<p>LANGUAGE: GREEK</p> <p>EVALUATION METHODS</p> <p>70% Written Assessment (Multiple Choice Test, Short Answer Questions)</p> <p>30% Essay</p>	

(5) ATTACHED BIBLIOGRAPHY

<p>GREEK</p> <ol style="list-style-type: none"> 1. Γ.Θ. Παπαϊωάννου, Μ.Ράλλης, «Έλεγχος και Αξιολόγηση των Καλλυντικών προϊόντων», Πανεπιστημιακές Σημειώσεις, Αθήνα 1996 2. Χατζή Ι.: Δερματολογία- Αφροδισιολογία, Αθήνα, 1994 3. Κουτσελίνης Α., Μουλοπούλου-Καρακίτσου Κ. : Καλλυντικά. Ταξινόμηση, Χρήση, Τοξικότητα, Ανεπιθύμητες Ενέργειες. Εκδόσεις Gutenberg, Αθήνα 1984 4. Μουλοπούλου Κ., Ρηγόπουλος Δ., Στρατηγός Ι.: Καλλυντικά Συστατικά και Εφαρμογές. Β' έκδοση 5. Παπαϊωάννου Γ.Θ. (1988) Κοσμητολογία. Συστατικά- Παρασκευή- χρήση καλλυντικών. Αθήνα 6. Χαρθάλα Α., (1994) «Αλκαλοειδή και μη Μορφοποιημένες Δρόγες» Εκδόσεις Πανεπιστημίου Αθηνών, Αθήνα. <p>FOREIGN</p> <ol style="list-style-type: none"> 1. Aburjai T., Natsheh F.M. Plants Used in Cosmetics, Phytother. Res. 17, 987–1000. 2003. 2. Harborne, B. J. and Baxter, H., "Phytochemical Dictionary" Taylor & Francis (eds), London. 1993 3. Tisserand R., Balacs T. Essential Oils Safety, Elsevier. 2006
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