Course Title	Dermatology - Skin Physiology				
Course	PHA 701				
Code					
Course	Compulsory				
Category					
Level	Postgraduate/Master				
Year / Semester	1 st year, (1 st semester)				
Teacher's Name	G. Koulermou, A. Varvaresou, N Drakoulis, G.A. Karikas				
ECTS	8	Lectures / Week	3	Laboratory / Week	-
Aim and objectives of the course	The course seeks to educate students on the subject of Dermatology and Dermatopharmacology. Basic knowledge of skin anatomy and physiology will be taught, as well as the study of pathophysiological biochemical mechanisms and the most common skin problems and injuries. Through Dermatopharmacology, special emphasis will be given to the treatment of pathological skin conditions and the role of cosmetics. In the same context, the pharmacodynamics, pharmacokinetics, and pharmacogenomics (genes, proteins, and the role of genetic polymorphisms in skin diseases) of xenobiotics in general, in the human body, will be given in particular.				
Learning	Upon completion of the course students will be able to:				
outcomes	(a) Describe the anatomy and physiology of the skin and its components.				
	(b) Recognize common skin dysfunctions and mild skin problems(c) Analyze the causes of skin conditions.				
	(d) Explain the Pathological Biochemistry, Pharmacokinetics and Pharmacogenomics of xenobiotics.				
	(e) Evaluate the biological and cosmetic role of cosmetics				
Pro-required	-	Co-re	equired	•	
Course content	 Anatomical structure of the skin. Skin components (hair - its chemical structure, sweat and sebaceous glands, sebum, sweat - chemical composition). Layers of skin, skin pigments, sensory nerves, blood vessels, nail glands • Skin physiology. Health and skin, treatment of mild skin problems 				

	 Skin dysfunctions, phototoxicity Abnormal skin conditions and their causes Burns / injuries Elements of Pathological Biochemistry Introduction to the treatment of pathological skin conditions Concise Dermatopharmacology Pharmacodynamics / Pharmacokinetics of xenobiotics in the human body Pharmacogenomics: (genes, proteins and the role of genetic polymorphisms in skin diseases) Role / importance of cosmetics and their mechanism of action. 				
Teaching Methodology	The theoretical part of the course is offered through lectures and discussions. Discussion with students includes questions / answers, pros / cons, role play and case studies. In addition, recent research findings and reviews are included. Detailed notes with PowerPoint are used in teaching.				
Bibliography	Bibliography in Greek:				
	 Clinical Dermatology with Color Images. Du Vivier. Publications: Broken Hill Publishers Ltd., 2012 				
	 Clinical Biochemistry G Beckett, S. Walker, P. Rae, P. Ashby, 7th Edition Parisianos, 2010 				
	 Laboratory diagnosis manual. Th. Protopapa 4th Edition of Parisianou, 2015 				
	 Pharmacology (8th ed.) HP RANG, J. RITTER, R. FLOWER, G. HENDERSON. Edited by G. KARAKIOULAKIS. Parisianos Publications, 2018 				
	Pharmacokinetics in simple words. D. Birkett, Parisian Publications, 20				
	Bibliography in English:				
	 Atlas of Clinical Dermatology. Du Vivier, 4th Edition, 2013 Pharmacogenomics Editors: Yui-Wing Francis Lam, Stuart Scott eBook ISBN: 9780128126271, 2nd Edition - November 27, 2018 				
Evaluation	1. Final examination (60%)				
	The final exam is a written exam and is scheduled during the exam period at the end of the semester. The subject matter is determined by the teacher and communicated in a timely manner to the students.				
	2. Mid-term examination (25%)				
	The midterm exam is a written exam and is scheduled within the semester (6th - 8th week of courses). The subject matter is determined by the teacher and communicated in a timely manner to the students.				

	3. <u>Submission - Presentation of project (15%)</u> This work is individual or group and concerns the elaboration of a small- scale research project. Students are expected to design and implement small-scale research, (including literature review, methodology, presentation of results and discussion) and present their research to their classmates as part of the course and assessment.
Language	Greek / English