

Course Title	Cosmetology II				
Course Code	PHA 705				
Course Type	Compulsory				
Level	Postgraduate/Master				
Year / Semester	1st year (2 nd semester)				
Teacher's Name	A. Varvaresou, C. Triantis, P.Dallas, K. Gardlikis, T.A.Politou, M.Rikkou-Kalourkoti, G. Papagiouvannis				
ECTS	8	Lectures / Week	2	Laboratory / week	15* / semester
Course Purpose	<p>The course seeks to provide specialized knowledge in the field of Cosmetology-Development cosmetic and pharmaceutical forms. The basic principles of design and development of anhydrous (ointments), aqueous and emulsified products as well as solid forms are taught. The development and production of natural raw materials used in the cosmetics industry are described, as well as the instrumental analytical and microbiological methods applied for the quality control of cosmetic products and packaging materials. The toxicological studies required for safety control in dermal application as well as in the internal use of substances and allergens found in cosmetics and dietary supplements are analyzed. Nanosystems and their possible side effects are taught. Cosmetics Legislation is taught as well as the conditions for waste control in the Cosmetics Industry</p> <p>Finally, the laboratory part of the course seeks to educate students in the methods of preparation-shaping of various cosmetic forms e.g. anhydrous, emulsified and solutions</p>				
Learning outcomes	<p>By the end of this course, the students should be able to:</p> <ul style="list-style-type: none"> (a) Design and develop cosmetic and pharmaceutical forms (b) Apply quality control methods of cosmetic products and packaging materials (c) Evaluate the toxicological studies for dermal application and internal use products as well as the possible side effects from the use of nanosystems (d) Identify potential allergens that may be found in cosmetics / dietary supplements (e) Evaluate the methods used to control the waste of the cosmetics industry (f) Manage issues related to Cosmetics Legislation (g) Apply laboratory techniques for the preparation of cosmetic forms 				
Pre-required	-	Co-required	-		
Course content	Theory				

	<ul style="list-style-type: none"> • Ointments, • Emulsions • Solutions, Syrups, Suspensions • Tablets, Capsules • Research, development and production of natural intangibles in the cosmetics industry • Quality control with physicochemical (chromatography, spectroscopy), molecular and microbiological methods of analysis of cosmetics / supplements • Quality control of packaging materials • Toxicological study on topical application, after internal use • Nanosystem toxicity. • Potential toxicity of new materials • Allergens in cosmetics • Nutritional supplements to improve the skin • Cosmetic waste / supplement control. • Elements of Legislation <p>Indicative workshops include compositions /preparations:</p> <ul style="list-style-type: none"> • Cosmetic creams and gel • Shampoo • Lipstick • Cologne • Nutritional supplements
Teaching Methodology	<p>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.</p>
Bibliography	<p>Bibliography in Greek</p> <ul style="list-style-type: none"> • Applied Cosmetology-Dermocosmetics. Tsirivas E, Varvaresou A, Papageorgiou S. Parisianos Publications, 2017 • Cosmetology. G. Papaioannou. A.Σ. Publications Vego, 2018 <p>Bibliography in English</p> <ul style="list-style-type: none"> • Chemistry and Manufacture of Cosmetics”, M. Schlossman, Allured Pub Corp; 4th ed. 2009 • Discovering Cosmetic Science. Barton S, Eastham A, Isom A, Mclaverty D, Ling Soong Y. RCC Publishing, 2020

Assessment	<p><u>1. Final examination (60%)</u> 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.</p> <p><u>2. Mid-term examination (25%)</u> 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.</p> <p><u>3. Submission - Presentation of projects (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.</p>
Language	Greek / English