


University of Niš Faculty of Medicine	Study program: INTEGRATED ACADEMIC STUDIES OF MEDICINE Accreditation 2018	
Course: Dermocosmetic preparations		
Subject head: Prof. dr Marija Tasić Kostov		
Teachers: Prof. dr Ivana Nešić, Prof. dr Vesna Savić		
Course status:	elective	
Semester : VIII	Study year: IV	
ECTS: 4	Course mode: M-IV-28.dj	
Course purpose:		
<p>The aim of this course is to provide students with the basic knowledge necessary for a correct understanding of the composition, purpose and effects of the application of dermocosmetic preparations. Students gain insight into the relevant legislative (national and international), knowledge and ability to properly apply this increasingly numerous and current class of these borderline products between cosmetic preparations and dermatological drugs. Students will be trained for providing reliable information and advice on application of dermocosmetics, as well as any side effects they may have.</p>		
Course outcome: (knowledge, skills, attitudes)		
The acquired knowledge will enable future medical doctors to:		
<ul style="list-style-type: none"> ▪ use modern databases of dermocosmetic preparations, raw materials for their production and dermocosmetic (cosmeceutical) actives; ▪ prescribe dermocosmetic preparations, respecting personal needs of each patient, rational therapeutic attitudes and the latest scientific evidences; ▪ correctly prescribe compounded dermocosmetic preparations, ie. correctly choose the bases and combine active substances in accordance with the type of skin impairments and the patients` needs; ▪ actively communicate and affirm interprofessional cooperation with pharmacists; ▪ assess the possibility of applying these preparations in prevention of certain skin pathologies. 		
Students will develop the ability to critically evaluate dermocosmetic preparations available on the market and make an adequate selection in accordance with patient needs.		
Nr. of classes of active teaching: 60		
Lectures: 30	Practice: 15	OFT:15
Course content:		
Active teaching		
1. Lectures		Number of classes
1.	Definition and characteristics of dermocosmetic preparations. Cosmetics vs. Dermatological drugs – similarities and differences.	3
2.	Legal framework for dermocosmetics.	1
3.	The importance of the vehicle for active substances in dermocosmetic preparation and selection of vehicle according to the type of dermatosis. Ingredients for dermocosmetics.	2
4.	The importance of dermocosmetics for skin pH and skin barrier function.	2
5.	Dermocosmetic actives. New generation of actives.	4
6.	Dermocosmetic preparations used for pathologically dry skin and their importance: cleaning, care and protection of dry skin.	2
7.	Dermocosmetics for use in rosacea	2
8.	Dermocosmetics for skin with acne	2
9.	Dermocosmetics in sun protection. UV filters and SPF. The choice of proper sunscreen.	3
10.	"Anti-age" dermocosmetics and dermocosmetics for hyperpigmentations.	2
11.	Dermocosmetics for babies and children.	2
12.	Efficacy evaluation of dermocosmetics-clinical studies.	1
13.	Safety profile of dermocosmetics. Safety evaluation studies- principles and design..	2
14.	Basic principles of pharmaceutical compounding. Compounding of dermocosmetics.	2
Total		30
2. Practical teaching		Number of classes

1.	Basics of excipients and actives for dermocosmetics.	5
2.	Selection of actives and principles of preparation of emulsions (creams), "anti-aging" serums, preparations for cleaning and washing diseased skin, sun protection preparations with selected active substances.	5
3.	Basic principles of compounding of dermocosmetics - selection of active substances and vehicle. Combining active substances-restrictions.	5
	Total	15
3. OFT-seminars		Number of classes:
1.	Importance of dermocosmetics in selected skin pathologies	5
2.	Skin photoaging and photocarcinogenesis - the importance of dermocosmetic products in prevention.	5
3.	Dermocosmetic preparations on the market: analysis of the current situation	5
	Total	15
Recommended literature:		
<p>1. Нешић И. Практикум из Козметологије. Ниш: Медицински факултет; 2020.</p> <p>2. Тасић-Костов Марија, Савић Весна, Станковић Милица. Практикум из Фармацеутске технологије 1 са радном свеском. Медицински факултет, Универзитет у Нишу, Ниш, 2020.</p> <p>3. Васиљевић Д, Савић С, Ђорђевић Љ, Крајишник Д. Приручник из козметологије. Београд: Наука; 2009.</p> <p>4. Вулета Г, Милић Ј, Приморац М, Савић С. Фармацеутска технологија 1. Београд: Фармацеутски факултет; 2019.</p> <p>5. Schlossman ML. Chemistry and Manufacture of Cosmetics: Cosmetic Specialties and Ingredients. Carol Streams: Allured Publishing Co; 2010.</p> <p>6. Fiedler HP, Hoepfner EM, Reng A, Schmidt PC. Encyclopedia of excipients: for pharmaceuticals, cosmetics and related areas. 6th ed. Berlin: ECV Editio Cantor Verlag; 2002.</p>		
Teaching methods:		
<ul style="list-style-type: none"> ▪ Interactive theoretical and practical teaching ▪ Consultations ▪ Seminars 		
Required previously passed exams:		
None		
Grade (max. 100 points):		
Pre-exam obligations		
<ul style="list-style-type: none"> ▪ Activity at lectures: 0-10 points ▪ Activity at panels: 0-10 points ▪ Seminars (researches conducted by smaller groups of students): 0- 30 points 		
Final exam		
<ul style="list-style-type: none"> ▪ Written/oral exam: 0- 50 points 		