



<b>Study program:</b> Integrated Academic Studies in Pharmacy			
<b>Course title:</b> Cosmetology			
<b>Teacher:</b> Veljko S. Krstonošić, Dejan M. Ćirin			
<b>Course status:</b> compulsory			
<b>ECTS Credits:</b> 3			
<b>Condition:</b> Pharmaceutic technology II			
<b>Course aim</b> Introducing students to the basic properties of cosmetic products and features and components of the product phase. Introducing students to manufacture practice of cosmetic and dermatocosmetic products.			
<b>Expected outcome of the course:</b> Knowing the rules and characteristics of cosmetic raw materials, as well as the cosmetic products, types, forms, route of administration, methods of preparation and testing, as well as the effects produced by the skin and skin adnexa. The application of theoretical knowledge in practice. The use of different sources of information. Development of model systems and cosmetic products. Analysis of the cosmetic product.			
<b>Course description</b> <i>Theoretical education</i> <ol style="list-style-type: none"> <li>1. Introduction to the basics of cosmetology. Development of cosmetics and cosmetology. The importance of cosmetology.</li> <li>2. Definition, classification and standardization.</li> <li>3. Classification of raw materials.</li> <li>4. Cosmetic products ingredients. Active substances, emollients and humectants, surfactants, viscosity modifiers, antioxidants, vitamins, colorants, UV filters, natural extracts, preservatives.</li> <li>5. The composite, function and skin types.</li> <li>6. Classification of cosmetic products.</li> <li>7. Care products and skin cleansers. Dermocosmetic products - cosmeceutics. Cosmetic emulsions. The products for the skin protection.</li> <li>8. Sun protection products.</li> <li>9. Deodorants and antiperspirants.</li> <li>10. Preparations for the treatment of scalp and hair. Shampoos. Preparations for modelling and fixing.</li> <li>11. Other cosmetic products. Items in contact with mucous membranes (mouth care and dental care, decoration of the lips, intimate hygiene). Make-ups: Colouring and beauty skin care, nail polishes. Beauty products for babies and the elderly.</li> </ol> <i>Practical education</i> <ol style="list-style-type: none"> <li>1. Preparations for skin care. Emulsion and non-emulsion creams. Preparation and analysis.</li> <li>2. Gel type compositions. Preparation and analysis.</li> <li>3. Preparations for cleansing the skin. Soaps. Preparation and analysis.</li> <li>4. Hair care products. Shampoos. Preparation and analysis.</li> <li>5. Preparations for sun protection. Preparation and analysis.</li> <li>6. Preparations for the care of mouth, toothpastes. Preparation and analysis.</li> <li>7. Preparation for the care of lips. Development and testing of lubricity.</li> </ol>			
<b>Literature</b> <i>Compulsory</i> <ol style="list-style-type: none"> <li>1. Barel AO, Paye M, Maibach H I. Handbook of Cosmetic Science and Technology. New York: Informa Healthcare USA, Inc, Third Edition; 2009.</li> </ol>			
<b>Number of active classes</b>	<b>Theoretical classes:</b> 30	<b>Practical classes:</b> 30	
<b>Teaching methods</b> Lectures and practical work.			
<b>Student activity assessment</b> (maximally 100 points)			
<b>Pre-exam activities</b>	<b>points</b>	<b>Final exam</b>	<b>points</b>
Lectures	5	Written	55

Practices		Oral	
Colloquium	40	.....	
Essay			