Level: Bachelor			
Course title: Chemistry of Organic	Dyes	<mark>Шифра:</mark>	IHO-402
Наставник: dr Andrea R. Nikolić			
Status: elective			
ECTS: 6			
Requirements: none			
Learning objectives			
Acquiring knowledge about the properties, origins, significance, and division structures of			
organic dyes. Introduction to synthesis and application of synthetic and natural organic dyes.			
Acquiring knowledge about organic pigments division and structure of organic pigments.			
Learning outcomes			
Demonstration of acquired knowledge about the chemical properties, structure and application of			
organic dyes and pigments. The application of the acquired theoretical knowledge and			
experimental techniques in the synthesis and isolation of organic dyes. Formulating conclusions			
about the possible applications of natural and synthetic organic dyes and pigments, as well as			
their impact on the environment.			
Syllabus			
Theoretical instruction			
The concept of the origin of coloration. Classification of dyes. The most important types of			
colours. Structure, synthesis and application of colour: polymethine dyes, nitro and nitroso dyes,			
azo dyes, di and triphenylmethine dyes and their aza analogues, indigoid dyes, anthraquinone			
dyes, reactive dyes, sulphur dyes. Organic pigments. Classification and structure of organic			
pigments. Phthalocyanine pigments. Azo pigments. Synthesis of pigments. Effect of organic			
dyes and pigments on the environment.			
Practical instruction			
Synthesis of selected organic dyes. Isolation natural dyes.			
Weekly teaching load	Lecture:	Exercises:	
	2 (30)	3 (45)	