

Course Unit Descriptor

<b>Study Programme:</b> Conservation and Restoration of Works of Fine and Applied Arts and Design (module: Master in Conservation and Restoration)
<b>Course Unit Title:</b> Optical Methods in Conservation
<b>Course Unit Code:</b> KR11
<b>Name of Lecturer(s):</b> Cvetinov Miroslav
<b>Type and Level of Studies:</b> Master academic studies
<b>Course Status (compulsory/elective):</b> Compulsory
<b>Semester (winter/summer):</b> Winter
<b>Language of instruction:</b> English
<b>Mode of course unit delivery (face-to-face/distance learning):</b> Face-to-face
<b>Number of ECTS Allocated:</b> 3
<b>Prerequisites:</b> None
<p><b>Course Aims:</b>Poznavanje principa i sposobnost čitanja informacija iz imidžing i spektroskopskih tehnika koje se su zastupljene u konzervaciji i restauraciji.</p> <p>(Knowledge of basic principles and ability to extract information from imaging and spectroscopic techniques that are prevailing in conservation field.)</p>
<p><b>Learning Outcomes.</b> Nakon završenog kursa student je osposobljen da napravi fotodokumentaciju za potrebe konzervacije i restauracije. Takođe, student mora biti sposoban da razume različite aspekte brojnih spektroskopskih i imidžing metoda, kao i da ima mogućnost da kompetentno komunicira sa stručnjacima iz oblasti spektroskopije i imidžinga.</p> <p>(Having successfully finished the course, student has competence to assemble photo-documentation in the process of art conservation. Additionally student must be able to understand different aspect of diverse array of spectroscopic and imaging techniques, as well as to competently communicate with the experts in the field of spectroscopy/imaging.)</p>
<p><b>Syllabus:</b></p> <p><i>Theory and practice</i></p> <p>Принципи и значај конзерваторске документације кроз конвенционалну и специјалну фотографију. Фотографија у дифузно и бочном светлу, макрофотографија. Принципи рада и читање информација из метода имиджинга и спектроскопије: инфрацрвена рефлектографија, ултраљубичаста флуоресценција, инфрацрвена фотографија лажних боја (FCIR), рендгенски снимак, Раманова и инфрацрвена спектроскопија, флуоресцентна спектроскопија X зрака.</p> <p>(Basic principles and significance of conservatory documentation as seen through prism of conventional and special photography. Principle of operation and information gathering from imaging and spectroscopic methods: infrared reflectography, ultraviolet fluorescence, infrared false color photography, radiography, x-ray fluorescence, Raman and infrared spectroscopy.)</p>
<p><b>Required Reading:</b> Non-Destructive Microanalysis of Cultural Heritage Materials, Elsevier 2004 (poglavlje 2: IR, UV and X-Ray imaging).</p> <p>Thomas Moon, Michael R. Schilling and Sally Thirkettle, A note on the use of false-color infrared photography in conservation, Studies in Conservation, Vol. 37, (1992), 42-52.</p>

<b>Weekly Contact Hours:</b> 4	<b>Lectures:</b> 2	<b>Practical work:</b> 2	
<b>Teaching Methods:</b> Group lectures with the use of supplementary teaching and video material.			
<b>Knowledge Assessment (maximum of 100 points):</b> 100			
<b>Pre-exam obligations</b>	points	<b>Final exam</b>	points
Active class participation	50	written exam	50
Practical work		oral exam	
Preliminary exam(s)		.....	
Seminar(s)			
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			