

Course Unit Descriptor

<b>Study Programme:</b> Fine Arts (module: Photography)			
<b>Course Unit Title:</b> Optics 1			
<b>Course Unit Code:</b> OPT1			
<b>Name of Lecturer(s):</b> Cvetinov Miroslav			
<b>Type and Level of Studies:</b> Undergraduate 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> 2			
<b>Prerequisites:</b> None			
<b>Course Aims:</b> Introduction to the concepts of light and principles of geometrical optics.			
<b>Learning Outcomes:</b> Students are capable of understanding the general principles of geometrical optics and light representations, and will be able to follow other courses in the curriculum.			
<b>Syllabus:</b>			
<i>Theory</i>			
Theoretical foundation of light (electromagnetic waves and interaction with matter, geometrical optics, polarization, lenses, image formation).			
<i>Practice</i>			
Students are instructed in how to measure focal length of lenses, combine different lenses, use polarisers and select parameters to achieve optimal image.			
<b>Required Reading:</b> Hedgecoe: <i>The Book of Photography</i> , DKL-LONDON 1976; Mono and Manjana: <i>Complete Photography Manual</i> , Harper Collins Publishers 2007; Сирс: <i>Оптика</i>			
<b>Weekly Contact Hours:</b> 2	<b>Lectures:</b> 2	<b>Practical work:</b> 0	
<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	10	written exam	40
Practical work	20	oral exam	30
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.			