

Course Unit Descriptor

Study Programme: Graphic Engineering and Design			
Course Unit Title: Raster Graphics			
Course Unit Code: F214I2			
Name of Lecturer(s): Ivana Tomic			
Type and Level of Studies: Bachelor Level			
Course Status (compulsory/elective): compulsory			
Semester (winter/summer): Summer			
Language of instruction: English			
Mode of course unit delivery (face-to-face/distance learning): Face-to-face			
Number of ECTS Allocated: 5			
Prerequisites: None			
Course Aims: Understanding of digital raster images - their concepts, elements, and structure, and methods for digitization, processing, compression and reproduction.			
Learning Outcomes: Upon successful completion of this course students will understand digital raster image concepts, and methods of digitization, processing, compression, and reproduction.			
Syllabus: The notion of digital raster image. Digitization of analog signals. Digitization of images. Negative byproducts of digitization and methods for correction. Global image processing operations. Local image processing operations. Convolution. Filters for image processing. Image compression, lossless and lossy. Vector image rendering. Rendering fonts. Raster image reproduction.			
Required Reading: Relevant literature in English TBD			
Weekly Contact Hours: 4	Lectures: 2	Practical work: 0	
Teaching Methods: Lectures, computer labs, consultations. The exam is written.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Computer exercises defence	50	Written part of the exam	50
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			