

Course Unit Descriptor

Study Programme: Graphic Engineering and Design			
Course Unit Title: Colour Management			
Course Unit Code: F50419			
Name of Lecturer(s): Ivana Tomic			
Type and Level of Studies: Master Level			
Course Status (compulsory/elective): compulsory			
Semester (winter/summer): Winter			
Language of instruction: English			
Mode of course unit delivery (face-to-face/distance learning): Face-to-face			
Number of ECTS Allocated: 3			
Prerequisites: None			
<p>Course Aims: The objective of this course is to introduce students to the fundamental concept of colour management in digital systems for colour reproduction in graphic industry. Students will be introduced with basic elements of the colour management system, concepts for colour information digitalization, their quantification and transformation modes in order to preserve original values. The course includes basic concepts of calibration, characterization and profiling of input, presenting and output devices in digital working flows. At the end of the course students will be trained to perform a colour management system set-up in the graphic industry, and to perform the instrumental information management related to proper and faithful colour reproduction.</p>			
<p>Learning Outcomes: Acquired knowledge is used in profession, research, individual work, as well as in further professional development</p>			
<p>Syllabus: Basics in colour management (concept of ICC colour management, CMM, survey purposes, profiles, PCS). Colour management working flows. Fundamental concepts in calibration, characterization and profiling (colour range, tone reproduction curve, dynamic range). Colour gamut mapping. Fundamentals in ICC profiles (structure, LUT matrix digitalization system). Arranging, controlling and applying ICC systems. Colour management in presenting devices (CRT, LCD, plasma screens). Colour management in projection devices (DLP, Lcos, LCD projectors). Colour management in input devices (digital camera, scanner). Colour management in output devices (digital and conventional printing and printing systems). Colour management in operation systems, Internet applications. Procedure standardization in colour management.</p>			
Required Reading: Relevant literature in English TBD			
Weekly Contact Hours: 4	Lectures: 2	Practical work: 0	
<p>Teaching Methods: Teaching is held with contemporary didactic means and methods, interactively in the form of lectures, computer and laboratory practice. Theory is presented in lectures. At practice, lecture content is repeated and knowledge is expanded by using measuring equipment. Apart from lectures and practice, consultations are also held.</p>			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Laboratory exercise attendance	3	Written part of the exam	40

Laboratory exercise defense	20	Oral part of the exam	30
Lecture attendance	5		
Computer exercise attendance	2		

The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.