

Study program: Informatics			
Course title: Basics of Multimedia Technologies			
Professor/assistant: Vladimir M. Nedić			
Type of course: Elective			
ECTS credits: 6			
Prerequisites: none			
Aims of the course: Introducing students to the basics of multimedia, its history and various types of multimedia content. Getting acquainted with the basic principles of creating, processing and transferring multimedia content, including text, speech, audio, still and moving pictures, graphics, video and animations.			
Learning outcomes: The student can recognize the need for applying certain multimedia technologies. The student is trained to use several software tools, which are necessary for creating, processing and producing various types of multimedia content.			
Syllabus:			
<i>Theoretical part:</i>			
Basics of multimedia.			
Basics of Audio.			
Visual effects.			
Audio – visual integrations.			
Multimedia data acquisition.			
Text compression.			
Multimedia communication standards.			
Aspect of multimedia application.			
Application software for multimedia.			
<i>Practical part:</i>			
Practical training: Students apply acquired theoretical knowledge, create animations, use software tools for creating multimedia presentations, to compress the text etc. Students get familiar with different standards in multimedia communication.			
Literature:			
1. Dr Zoran Bojković, Dr Dragoljub Martinović, Osnove multimedijalnih komunikacija, Visoka škola elektrotehnike i računarstva strukovnih studija, Beograd, 2011			
2. Prof. Dr Dragan Cvetković, Prof. Dr Dragan Marković, Nikola Savanović, Multimedija, Univerzitet Singidunum, Beograd, 2015			
Total number of active classes: 75		Lectures: 45	Practical classes: 30
Teaching methods: practical computer exercises			
Grading system (maximum 100 points)			
grading scale from 5 to 10: below 51 points – student fails the exam, grade 6 from 51- 60 points, grade 7 from 61-70 points, grade 8 from 71-80 points, grade 9 from 81-90 points, grade 10 from 91- 100 points.			
Pre-exam obligations:	Points:	Final exam:	Points:
Activity during lectures	max 5	Written exam	50
Practical training	max 5		
Written test(s)	max 25		
Term papers	max 15		
Minimum requirement for the final exam	30		