

Specification for the book of courses

Study program		Electrical Engineering and Computer Science		
Module		Electronics - Multimedia technologies		
Type and level of studies		Undergraduate Academic Studies		
The name of the course		Animation 2		
Lecturer (for lectures)		Pavlović D. Vlastimir		
Lecturer/associate (for exercises)		Pavlović D. Vlastimir		
Lecturer/associate (for OFE)		Pavlović D. Vlastimir		
Number of ECTS	5	Course status (obligatory/elective)	Obligatory	
Prerequisites				
Course objectives	Introducing with the use of visual effects on 3D models. Presentation of the technique of the dynamics of particle systems for the simulation of cloths, fibers, fluids etc.			
Course outcomes	Obtaining the knowledge necessary for the production of complex visual effects on 3D models, using the technique of dynamics of particle systems.			
Course outline				
Theoretical teaching	Visual effects. 2D and 3D visual effects. Compositing and compositing software. Introduction to dynamic simulation. Particle systems. Dynamics of particle systems. Dynamics of cloth. Dynamics of fibers. Fluids and the dynamics of fluids. 2D fluids, 3D fluids. Cashing and rendering of dynamic simulations. MEL scripting.			
Practical teaching (exercises, OFE, study and research)	2D and 3D visual effects. Compositing and compositing software. Dynamic simulations. Particle systems. Dynamics of particle systems. Dynamics of cloth. Dynamics of fibers. Fluids and the dynamics of fluids. 2D fluids, 3D fluids. Cashing and rendering of dynamic simulations. MEL scripting. Study research work: Use video material recorded with a camera, add special effects to it and to post-production using a compositing software.			
Textbooks/references				
1	Morgan Robinson and Nathaniel Stein, "Maya 8 - Visual QuickStart Guide", Peachpit Press, 2007.			
2	Lee Lanier, "Advanced Maya Texturing and Lighting", Wiley, 2008.			
3	Lee Lanier, "Maya - Professional Tips and Techniques", Wiley, 2007.			
4				
5				
Number of classes of active education per week during semester/trimester/year				
Lectures	Exercises	OFE	Study and research work	Other classes
2	2	1	0	0
Teaching methods	Lectures, laboratory exercises, consultations.			
Grade (maximum number of points 100)				
Pre-exam duties	Points	Final exam	Points	
Activity during lectures	20	Written exam		
Exercises	20	Oral exam	40	
Colloquia				
Projects	20			