1.	Course Title	Computer Animation							
2.	Code	F18L3S113							
3.	Study program	Software engineering and information systems							
4.	Study Program Organizer	Faculty of Computer Science and Engineering							
5.	Degree (first, second, third cycle)	first cycle							
6.	Academic year / semester 4 / summer / optional	7. ECTS credits 6							
8.	Teacher	associate professor Ivan Chorbev							
9.	Course enrollment prerequisites	Компјутерска графика или Дизајн на интеракцијата човек-компјутер							
10.	Course program goals (competencies): After the completion of the course it is expected for students to be capable of using basic methods for productive creation of computer based animations and working with applications for creating animations. They should be able to model, apply textures, rig, add lights, animate, render and compose digital scenes.								
11.	Course program content: Basic principles of 3D space, describing digital scenes, hierarchical organization, polygonal geometry, modeling of digital objects and characters, NURBS modeling, deformation techniques, rigging of objects and characters, principles of animation, animating digital characters, shading and materials, texturing, UV coordinates, lights in digital scenes, cameras, scripting and automation, compositing and post-production.								
12.	Learning methods: Lectures using presentations, interactive lectures, exercises (using equipment and software packages), teamwork, case studies, invited guest lecturers, independent preparation and defense of a project assignment and seminar work.								
13.	Total available time	6 ECTS x 30 hours = 180 hours							
14.	Distribution of the available time	30 + 45 + 15 + 15 + 75 = 180 hours							
15.	Teaching activity forms	15.1. Lectures–theoretical 30 hoursteaching15.2. Exercises(laboratory, 45 hours							
16.	Other activity forms	auditory), seminar papers, teamwork 16.1. Project Tasks 15 hours							

		16.2. Independent Tasks				nt Lear	arning 15 hours				
				16.3.	Home learr	ning	75 hours				
17.	Assessment methodology										
	17.1.	1. Tests					10 points				
	17.2. Seminar paper/project (presentation: written and oral)						10 points				
	17.3. Activity and learning					10 points					
	17.4. Final exam					70 points					
18.	Assessment criteria (points/grade) up to 50 points					ts 5	5 (five) (F)				
	51 to 60 points						6 (six) (E)				
	61 to 70 points					ts 7	7 (seven) (D)				
	71 to 80 points						8 (eight) (C)				
					1 to 90 poin						
	91 to 100 points						10 (ten) (A)				
19.	Course require	se completion and final exam Realized activities 15.1 and 15.2									
20.			nguage	and English							
21.	Teachi	ng qua	lity evaluation metho		Internal evaluation mechanisms and questionnaires						
22.	Course Material										
	22.1.										
		No	Author	Title				Year			
		1	Rick Parent	Computer Animation: Algorithms and Techniques, 3rd Edition		Newnes		2012			
		2	Akenine-Möller, Tomas, Eric Haines, Naty Hoffman	Real-time rendering		CRC Press		2008			
		3	Jeremy Birn	Digital and (3rd Ed	Lighting Rendering ition)	New Riders		2013			
	22.2.	Addit	tional course materia								
		No. Author			Title		Publisher Year				
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