Add. 3	**Course program for the first, second and third degree of studies**					
1.	Course title	3D Modeling and Visualization				
2.	Code	102				
3.	Study group(s)	IND				
4.	The organizer of the study program (unit, institute, department)	Faculty of Mechanical Engineering - Skopje, Ss. Cyril and Methodius University in Skopje				
5.	Level (first, second, third)	First				
6.	Academic year / semester	summer	7.	Number of ECTS credits	6	
8.	Instructor	Assoc. Prof. Sofija Sidorenko, PhD Prof. Risto Tashevski, PhD				
9.	Prerequisites	Engineering Graphics - passed Design Techniques - passed Computer - Aided Design - passed				
10.	Course objectives (competences): Training of the students for modeling of complex 3D bodies and surfaces and photorealistic visualization.					
11.	Course content: Modeling of complex 3D surfaces using NURBS technique; modeling of complex bodies with polygons; application of techniques for body deformations. Application of materials and textures to the bodies, scene definition, selection of lights, selection of cameras, creation of effects, creation of photorealistic images.					
12.	Study methods: interactive lectures, auditory practice and/or laboratory practice, self running and/or team work projects, self learning.					
13.	Total hours	6 ECTS x 30 hours = 180 hours				
14.	Hours allocation per activity:	30 + 30 + 68 + 52 + 0 = 180 hours				
15.	Lectures/Lab	15.1.	Teaching lectures	30 hours		
		15.2.	Practice, seminars, team work	30 hours		
16.	Project Work/Assignments	16.1.	Project assignments	68 hours		
		16.2.	Selfrunning assignments	52 hours		
		16.3.	Home studying	0 hours		
17.	Points/Marks:					
	17.1.	Tests	60			
	17.2.	Projects	30			
	17.3.	Attendance	10			
18.	Grading scale	Under 50	5 (five) (F)			
		51 - 60 points	6 (six) (E)			
		61 - 70 points	7 (seven) (D)			
		71 - 80 points	8 (eight) (C)			
		81 - 90 points	9 (nine) (B)			
		91 - 100 points	10 (ten) (A)			
19.	Prerequisites for taking the final exam	Finished activities 15.1; 15.2; 16.1				
20.	Language of Instruction	Macedonian language				
21.	Course evaluation					

22.	Textbooks					
	22.1.	Instruction materials				
		No.	Author	Title	Publisher	Year
		1.	Sofija Sidorenko	3D modeling and visualization	internal book	2009

		2.				
		3.				
	22.2.	Supplemental Instruction Materials				
		No.	Author	Title	Publisher	Year
		1.	Dariush Derakhshani	Introducing MAYA 2008	Wiley Publishing, Inc	2008
		2.	Kelly L. Murdock	3ds Max 2009 Bible		2009