NAME OF THE COURSE	Three-dimensional design of physical objects									
Code	PMII70	Year of stu	dy							
Course teacher	doc.dr. sc. Hrvoje Kalinić	Credits (EC	CTS)	5,0						
Associate teachers	Dražen Kustura mag. ing. mech.	Type of ins (number of	truction hours)	L 30	S	E 30	F			
Status of the course		Percentage application	e of of e-learning							
COURSE DESCRIPTION										
Course objectives	pjectives Introduction to 3D modeling and object design. Students should be able to use tools for 3D modeling and object design.									
Course enrolment requirements and entry competences required for the course										
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 Introduction to 3D modeling and object design tools 3D object representation: drawing and profile Introduction to projections Mirroring, symmetry and their use in computer design Computer implementation of spline and their use 									
Course content broken down in detail by weekly class schedule (syllabus)	 Computer Implementation of spine and their use Drawing as a basis for 3D object Profile extrusions & Edit profile Profile and drawings Degrees of freedom and constraints on profile Object rotation and revolution Geometric projections Line construction, Centerline & Mirror Extruded cut Multiple object construction Screws and screw threads Shell 2D and 3D splines and their use Smoothing: chamfers and fillets Introduction to Blender 3D printing 									
Format of instruction	 ☑ lectures □ seminars and works □ exercises □ on line in entirety □ partial e-learning □ field work 	shops	 □ independ □ multimed ⊠ laborator □ work with □ homewore 	ndent assignments edia ory ith mentor rork assignments						
Student responsibilities	Participate in course activities. Homework. Exam.									

Screening student work (name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course)	Name	Ects	Name	Ects	N	ame	Ects				
	Class attendance	Class attendance 1 Research			Experimental work						
	Oral exam	am Report		1	Homework assignments						
	Seminar essay		Essay								
	Tests		Practical training	1							
	Written exam	1	Project	1							
Grading and evaluating student work in class and at the final exam	Student activities in class (20%) Project (40%) Exam (40%)										
Required literature (available in the library and	Title			NI	Number of copies in the library						
Required literature (available in the library and		Fitle		coj	bies in library	Availabili other m	ty via edia				
Required literature (available in the library and via other media)	Lecture notes in 3D Kalinić	Г itle modeli	ng, Hrvoje	the	library	Availabili other m	ty via edia				
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal)	Lecture notes in 3D Kalinić Lecture notes avail additional links Matt Lombard: Soli Dassault Systems Essentials	Fitle modeli able on dworks Solidwo	ng, Hrvoje the Internet inc 2009 Bible, Wi rks Corporatior	cop the cluding ley Pub	0 solved problems olishing, li works 20	Availabili other m roblems and nc 10, Soldiwo	ty via edia				
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences	Lecture notes in 3D Kalinić Lecture notes avail additional links Matt Lombard: Soli Dassault Systems Essentials Students feedback,	Fitle modeli able on dworks Solidwo studer	ng, Hrvoje the Internet inc 2009 Bible, Wi rks Corporatior its results and s	coluting the cluding ley Put self-eva	0 solved pl blishing, li works 20	Availabili other m roblems and nc 10, Soldiwo	ty via edia				