Basic data of the subject					
University	University o	of Applied Sc	ciences in Ferizaj		
Academic unit	Faculty of Engineering and Informatics				
Program	Industrial Engineering with Informatics				
Title of the subject	Product Design and Development				
Level	Bachelor				
Course Status	Obligatory				
Year of studies	III, Semester VI				
Number of hours per week	3				
Value of Credits - ECTS	4				
Time / location					
Course lecturer					
Contact details					
Course Description Objectives of the course Expected learning outcomes	<ul> <li>Product Design represents an integration of product management and development with technical and artistic product design skills. During this course students will be confronted with the analysis and evaluation of designs, design principles, as well as the application of the Solid Works program for the design and animation of product functions.</li> <li>This module aims to provide new knowledge of the process of creating plastic products, product combination and its principles of establishment, modeling, and product form design.</li> <li>Upon successful completion of this subject, students will be able to: <ul> <li>understand the methodology of product design and development.</li> <li>meet the needs of users with the technology available to them.</li> <li>apply the Solid Works program to product design.</li> <li>understand the product economy as well as ergonomic, aesthetic and marketing requirements.</li> </ul> </li> </ul>				
Prerequisites	The students must have knowledges on Engineering Graphics, CAD and Reverse engineering and 3D modeling course.				
Contribution to the stude	nt load (whic	h must corre	snond with loarning	ng outcomes)	
Activity	int ioau (will)	Hour	Day/Week	In total	
Lectures with numerical exercises		3	15	45	
		5	15		
Internship					
*	tions	1	5	5	
Internship Contacts with teacher / consulta	tions	1	5	5	
*		1	5	5	

## **SYLLABUS**

Salf lagring times at dont (at	the librory or						
Self-learning time student (at the library or		1	15	15			
at home)							
Final preparation for the exam							
Time spent on evaluation (tes	ts, quiz and						
final exam)							
Projects and presentations.		1	3	3			
Total				103			
Teaching mathadalagy	Lootunog an	d ananaigag a	amplined with tutor	iala commuton lab			
Teaching methodology	<b>bdology</b> <i>Lectures and exercises combined with tutorials, compute work and classroom exercises</i>			iais, computer tab			
		The student is assessed as following:					
Assessment methods							
	•		al assessment				
	2. Final Ex	am 20%: ina	ividual assessment				
	Additional	lanification					
	Additional c	v	activity above read	has the maximum			
	•		activity above reac aluated with 100 poi				
	points, then	he will be eve	iiuaiea wiin 100 pol	ents.			
	Ducient Tasl	(800/). ;; ;a	an activity in which	students apply the			
	•		an activity in which				
	-		concrete project. I	÷			
			be a group of 2 or				
	-	-	activity, document i	t, and present it to			
	• •	the subject professor.					
		Evaluation by Final Exam (50%), the student will undergo the					
		exam which is held after the end of the lectures of the course,					
	•	and is organized in the exam deadlines, determined by the					
	University senate.						
	° .	The final exam contains:					
	• Theoretical questions from the course materials						
	Rating	Rating:					
	0	91-100 points – graded 10 (ten)					
-		points – graded 9 (nine)					
	71-80 points – grade 8 (eight)						
		61-70  points - grade 7 (seven)					
		s – grade 6 (s.					
	1	0-50 points – The student repeats the exam.					
The ratio of theory and			•	1			
practice	60% theory	with exercise	s and 40% practical	WORK.			
Literature	·						
Basic Literature	1. Hand	douts provide	d by the lecturer				
Additional Literature	<i>1. Product Design and Development by Karl T. Ulrich and</i>						
		Steven D. Eppinger, 5 <sup>th</sup> Edition 2011					
			t and process design	n and			
			. Magrab, B. Ration				
		-	Techniques in revers				

	new product development, Prentice Hall, 2001		
Designed learning plan			
Week:	Lectures and exercises to be held		
Week one	Product design cycle		
Week two	Product design methodology		
Week three	Variety of products and the principles of their formation		
Week four	Identifying customer needs		
Week five	Market research		
Week six	Product model modeling and design		
Week seven	Reflection/consultations		
Week eight	Industrial design and the human factor		
Week nine	Cost analysis		
Week ten	Product management		
Week eleven	Software application in design		
Week twelve	Solid Works I		
Week thirteen	Solid Works II		
Week fourteen	Presentations		
Week fifteen	Presentations		
Academic policies and	rules of conduct		
Regular attendance of l	ectures and exercises is necessary, as well as active participation with		

Regular attendance of lectures and exercises is necessary, as well as active participation with discussion and solution of tasks. Not impeding the progress required for learning using mobile phones turned off or in silent mode.