Basic data of the subject							
Faculty:	Faculty of En	gineering	g and Informatic	s			
Title of the subject:	Product Design and Development						
Level:	Bachelor	achelor					
Course Status:	Core						
Year of studies:	3						
Number of hours per week:	3						
Value of Credits - ECTS:	4						
Time / location:							
Course lecturer:	Prof.dr. Bujar Pira						
Contact details:	bujar.pira@ushaf.net						
Course Description	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.						
Objectives of the course:	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.						
Expected learning outcomes:	 Upon successful completion of this subject, students will be able to: understand the methodology of product design and development meet the needs of users with the technology available to them apply the Solid Works program to product design understand the product economy as well as ergonomic, aesthetic and marketing requirements. 						
Contribution to the student load (which must correspond with learning outcomes)							
Activity		Hour	Day/Week	In total			
Lectures with lab tutorials		3	15	45			
Internship							
Contacts with teacher / consultations		1	5	5			
Field exercises							
Midterm, seminars and projects.		20		20			
Homework		1	15	15			

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15

Self-learning time student (at the library or at

Time spent on evaluation (tests, quiz and final

Final preparation for the exam

home)

exam)

SYLLABUS

15

Projects and presentations.		1	3	3		
Total				103		
Teaching methodology:	Lectures and e	Lectures and exercises combined with tutorials, computer				
	lab work and	lab work and classroom exercises				
Assessment methods:	Course work &	Course work 80%				
	Presentation 2	Presentation 20%				
Literature						
Basic Literature:	1. Hand	1. Handouts provided by the lecturer				
Additional Literature:	2. Produ	2. Product Design and Development by Karl T. Ulrich				
	ana S	and Steven D. Eppinger, 5" Edition 2011				
	3. Integrated product and process design and development E.M. Magraph B. Pation, CPC Process			esign and tion CPC Bross		
	1007		ient, E.M. Mugrub, B. Rution, CRC Press			
	4. Produ	ict Desian.	Techniques in rev	erse enaineerina		
	and n	and new product development, Prentice Hall, 2001				
Designed learning plan			1 2			
Week:	Lectures and exe	Lectures and exercises to be held				
Week one:	Product design cycle					
Week two:	Product design m	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	Presentations				

Academic policies and rules of conduct

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.