Course title		UNEVERSITY OF EAST SARAJEVO Faculty of Mechanical Engineering         Study program: Mechanical Engineering/ Engineering design and applications mechanics         2 <sup>ST</sup> LEVEL OF STUDIES       1 <sup>ST</sup> YEAR         INDUSTRIAL DESIGN							
Department		Depar	Department of Mechanical constructions and Engineering Design						
Code			C	ourse status	urse status Semester		ECTS		
-			Mandatory I				6		
			PhD Biljana Marković, full professor M. Sc.Aleksija Đurić - teaching assistant						
Number of hours					Individual student workload (in ho semester)		Coefficient of student workload S₀		
L E		LE		L	L E		S <sub>0</sub>		
3	2		0	3*15*S₀	2*15*S₀	0*15*S₀		1.4	
Total total teaching 3*15 + 2*15 + 0									
Student learning objectives       der pro of it jus pro this the tea         Conditionality       No         Teaching methods       Lea         Th Th in it der syn dut ass Sh Ap Methods		The main goal of the course is to achieve the necessary skills and knowledge in the field of industrial design, as well as the application of acquired knowledge in the development, design and verification of product design solutions. Mastering methodologies and principles of product design from the point of view of functionality, aesthetic requirements, reliability and safety, quality, production characteristics, economic justification. The aim of the course is to develop the creative abilities of students in defining ideas for new products and their design and introduction to methods for product development. The student who passes this course acquires the ability to creatively harmonize the factors from the idea to the new solution within the product development. The student will be trained to apply product design methods and procedures, in team work or independently, to design products using current computer tools. No conditioning Lectures, exercises, graphic exercises, computer exercises, colloquiums <u>Theoretical classes</u> Theory, definition, history and development of industrial design. Contemporary concepts and philosophies in industrial design. Methodology and product development process. The role and importance of industrial design in product quality. Factors influencing design. Design elements. Lifetime design. Defining design during development. Appearance and shape of the product. Product design adapted to production, assembly and use. Functional and ergonomic component. Aesthetic elements and principles of form. Shapes, scales and similarities in nature and their influence on the development of industrial design. Application of creative methods in product development. Generating new variants of conceptual solutions. <i>Practical teaching</i>							
	Ex the	Exercises in the use of basic aesthetic elements and principles in industrial design. Training and work in the current software package. Principles of computer modeling of shapes. Product design, with the application of specific measures to improve the product. Photorealistic representation of the model.							
۸41	Authors			Required literature Name of the publication, publisher Ye			r Pages		
Autiors		INGI	Name of the publication, publisher		Yea		-		
				Additional lite		-			
Authors			Nam	e of the publicatio	n, publisher	Yea	r	Pages	
			Ту	pe of student eval	uation		Points	Percentage	
								· · ·	
Obligations,		attendance at lectures / exercises						5% 30%	
forms of knowledge check and assessment		Colloquium I and II Practical works					15+15 15	<u> </u>	
		Seminar paper					20	20%	
		final exam (oral / written)					30	30%	
	Тс	Total					100	100 %	

Web page	http://www.maf.ues.rs.ba/PDF_za_sajt/Elaborat%202%20ciklus%20Masinski%20fakultet%20IS%20KONA CAN.pdf (in Serbian language)
Date of certification	