		UNEVERSITY OF EAST SARAJEVO								
		Stu	Facuity of Mechanical Engineering							
		0.0	and applications mechanics							
		2 <sup>ST</sup> LEVEL OF STUDIES 1 <sup>ST</sup> YEAR								
Course title		LIGHTWEIGHT DESIGN								
Department Departr			ment of Mechanical constructions and Engineering Design							
Code			С	ourse status	;	Semester		ECTS		
- Professor		PhD P	iliana Marković	full professo	ull professor				0	
Teaching assistant		M. Sc.	M. Sc.Aleksija Đurić - teaching assistant							
Number of hours (por			wook)	Individual student workload (in hours in Coefficient of student						
Number of nours			week)		semester)			v	vorkload S <sub>o</sub>	
L		E	LE		<u> </u>	E			S₀	
3 2		2	0	3*15*8	<b>5</b> 0	2*15*S₀	0*15*S₀		1.4	
Tota	l total te	eaching ho	urs in semeste	r		Total student's workload (in hours in semester)				
3*15 + 2*15 +			$0^{*15} = 75$ hours $3^{*15*S_0} + 2^{*15*S}$					+ 0*15*S <sub>0</sub> = 105 hours		
		Total course workload: 75 + 105 = 180 hours in semester								
		Introducing students to the properties and types of lightweight structures, improvements that can be								
		achieved by using strategies and applying lightweight design in practice. Enabling students to understand								
Student learnin	ng	The possibilities of applying the design of light structures, as well as ways to reduce the weight of the structure, not only by choosing adequate materials, but also by knowing the rules in the design of such								
objectives		structure, not only by choosing adequate materials, but also by knowing the rules in the design of such structures. At the end of this course, students are trained to understand modern methods in construction								
		with an emphasis on understanding the basic principles and rules of application of light design in								
		construction.								
Conditionality N		No conditioning								
l eaching methods		Lectures, exercises, graphic exercises, computer exercises, colloquiums								
Content of the course by weeks		Theoretical classes								
		Modern methods in construction. The role and importance of lightweight design in product development.								
		The concept and definition of LW (lightweight) design, ie. lightweight design. Motives and goals of light								
		construction design application. Areas of application and trends in application. Lightweight construction								
		of materials used in light constructions. Development of lightweight structures.								
		Practical classes - creation, calculation and simulations in the design of light constructions, on concrete								
		examples. Auditory exercises, group and individual consultations. (Areas the same as for lectures)								
Authors			Nam	Name of the publication, publisher			Yea	r I	Pages	
									-	
				Additional literature						
Aut		Nam	Name of the publication, publisher				ar Pages			
			Tv	na of studen	t ovalu	ation		Pointe	- Percentage	
Obligations, forms of										
		attendance at lectures / exercises						5+5	10%	
		Colloquium I and II					20+20	40%		
knowledge che	eck	Practical					ctical works	20	20%	
and assessment		final exam (oral / written)						30	30%	
		Total						100	100 %	
Web page		http://www.maf.ues.rs.ha/PDF_za_sait/Flaborat%202%20ciklus%20Masinski%20fakultat%20IS%20KONA								
now page		CAN.pdf (in Serbian language)								
Date of			· · · · · · · · · · · · · · · · · · ·							
certification										