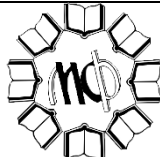
		UNEVERSITY OF EAST SARAJEVO					
		Faculty of Mechanical Engineering					
		Study program: Mechanical Engineering					
		1 ST LEVEL OF STUDIES		3 rd YEAR			
Course title		CAD – 3D modeling					
Department		Department of Mechanical constructions and Engineering Design					
Code		Course status		Semester		ECTS	
MAΦ-1-1-MC-06-2-034-6-5-2-0-2		Election		I		6	
Professor		PhD Miroslav Milutinovic, assistant professor					
Teaching assistant		M. Sc.Aleksija Đurić - teaching assistant					
Number of hours (per week)			Individual student workload (in hours in semester)			Coefficient of student workload S ₀	
L	E	LE	L	E	LE	S ₀	
2	0	2	2*15*S ₀	0*15*S ₀	2*15*S ₀	1.4	
Total total teaching hours in semester 2*15 + 0*15 + 2*15 = 60 hours			Total student's workload (in hours in semester) 2*15*S ₀ + 0*15*S ₀ + 2*15*S ₀ = 84 hours				
Total course workload: 75 + 105 = 180 hours in semester							
Student learning objectives		1. Education students for 2. Independent working of geometric models of machine parts and assemblies, 3. Independent working of technical documentation, 4. Parametric variation of the model					
Conditionality		No conditioning					
Teaching methods		Lectures, laboratory exercises					
Content of the course by weeks		1. Introductory considerations, 2. Application of computers in the process of construction and development of new products, 3. Geometric modeling of machine parts, 4. Types of models. Advantages and disadvantages, 5. Euler-Pinocare operations. B-rep model validation 6. CSG model, 7. Modeling of prismatic shapes, 8. Modeling of cylindrical shapes, 9. Mathematical transformations of the model, 10. Parametric modeling, 11. Use of standard and standardized machine elements, 12. Making of subassemblies and assemblies, 13. Preparation of construction documentation. Projections, sections and views, 14. Simulation of working assembly, 15. A simple stress analysis					
Required literature							
Authors		Name of the publication, publisher			Year	Pages	
M.M.M. SARCAR, at all.		Computer Aided Design and Manufacturing			2008		
M.Milutinovic		Authorized presentations					
Additional literature							
Authors		Name of the publication, publisher			Year	Pages	
						-	
Obligations, forms of knowledge check and assessment		Type of student evaluation			Points	Percentage	
		attendance at lectures / exercises			5+5	10%	
		Colloquium I and II + Written exam			50	50%	
		final exam (oral / written)			40	40%	
		Total			100	100 %	
Web page							
Date of certification							