	UNEVERSITY OF EAST SARAJEVO Faculty of Mechanical Engineering	
	Study program: Mechanical Engineering	
	1ST LEVEL OF STUDIES | 3ST YEAR	

Course title	**MACHINE JOINTS**
Department	Department of Mechanical constructions and Engineering Design

Code	**Course status**	**Semester**	**ECTS**
МАФ-1-1-МС-06-2-081-5-5-2-2-0	Elective	V	5

Professor	PhD Biljana Marković, full 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_o**
L	**E**	**LE**	**L**	**E**	**LE**	**S_o**
2	2	0	$2*15*S_o$	$2*15*S_o$	$0*15*S_o$	1.4

Total total teaching hours in semester 2*15 + 2*15 + 0*15 = 60 hours	Total student's workload (in hours in semester) $2*15*S_o + 2*15*S_o + 0*15*S_o$ = 84 hours
Total course workload: 60 + 84 = 144 hours in semester	

Student learning objectives	The student acquires basic theoretical and practical knowledge about the calculation and application of machine joints most often used in industry
Conditionality	No
Teaching methods	Lectures, exercises, graphic exercises, computer exercises, laboratory exercises and colloquiums
Content of the course by weeks	1. Introduction, types and division of machine joints 2. Basic welding procedures, types of welded joints / seams, 3. Welding positions; Presentation of welded joints in technical documentation. Quality and tolerances of welded joints; 4. Conditional division of welded machine structures, basic requirements of welded machine structures, Specifics of welded machine structures. 5. Technological form of welded structures 6. Calculation of welded structures and their examples 7. Testing of welded structures 8. Solder joints-Soldering processes, 9. Calculation and design of soldered joints 10. Adhesives joints - Adhesives, examples of gluing parts 11. Calculation and design of adhesives structures 12. Special threads - types and calculation 13. Rivets - method of joining and calculation of rivets 14. Shaft-hub joints via slip resistance - examples and calculation 15. Shaft-hub joints in the form of contact surfaces - examples and calculation

Required literature

Authors	**Name of the publication, publisher**	**Year**	**Pages**
B. Marković, A Djuric	Script – Machine joints	2020.	-

Additional literature

Authors	**Name of the publication, publisher**	**Year**	**Pages**
			-

	Type of student evaluation	**Points**	**Percentage**
Obligations, forms of knowledge check and assessment			
	attendance at lectures / exercises	5+5	10%
	Colloquium I and II + Written exam	20+20	40%
	Graphic works	15	15%
	laboratory exercises	5	5 %
	final exam (oral / written)	30	30%
	Total	100	100 %

Web page	http://www.maf.ues.rs.ba/PDF_za_sajt/MKRP2017/Masinski%20spojevi.pdf (in Serbian language)
Date of certification	