

	UNIVERSITY OF EAST SARAJEVO Faculty of Mechanical Engineering					
	Study program: Mechanical Engineering					
	1 ST LEVEL OF STUDIES			3 rd YEAR		
Course title	Power transmission					
Department	Department of Mechanical constructions and Engineering Design					
Code		Course status		Semester		ECTS
MAΦ-1-1-MC-06-1-079-5-6-3-1.5-0.5		Mandatory		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_o
L	E	LE	L	E	LE	S_o
3	1.5	0.5	3*15*S _o	1.5*15*S _o	0.5*15*S _o	1.4
Total total teaching hours in semester 3*15 + 1.5*15 + 0.5*15 = 75 hours			Total student's workload (in hours in semester) 3*15*S _o + 1.5*15*S _o + 0.5*15*S _o = 105 hours			
Total course workload: 75 + 105 = 180 hours in semester						
Student learning objectives	In addition to acquiring basic knowledge in the field of power transmissions, a student who passes this course will be able to form variant solutions of transmissions according to the requirements of a specific task, select transmissions according to given criteria, determine kinematic size and determine calculation the parts of transmissions elements.					
Conditionality	No conditioning					
Teaching methods	Lectures, auditory and laboratory exercises					
Content of the course by weeks	<ol style="list-style-type: none"> 1. The basic concepts and definitions. Types of drives and operation machines. Types of working machines. 2. Classification, characteristics and application of power transmission. Connecting the power transmission to the drive and working machine. 3. Friction power transmissions 4. Variators 5. Belt Drive Power Transmission 6. Power transmission chain. 7. Gearboxes. 8. Planetary gearbox. 9. Construction of planetary gearbox 10. Differential gearbox. 11. Gearboxes on motor vehicles. 12. Power flow diagrams for different types of gearboxes on motor vehicles. 13. Machine tool gearbox. 14. Hydraulic transmissions 15. Hydrodynamic transmission 					
Required literature						
Authors		Name of the publication, publisher			Year	Pages
M. Milutinovic		Authorized presentations				
Stokes		Manual gearbox design			1992	
Giesbert Lechner,		Automotive Transmissions: Fundamentals, Selection, Design and Application			1999	
Additional literature						
Authors		Name of the publication, publisher			Year	Pages
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Obligations, forms of knowledge check and assessment	Type of student evaluation				Points	Percentage
	attendance at lectures / exercises				5	5%
	Colloquium I and II + Written exam				40	40%
	Project task				15	15%
	final exam (oral / written)				40	40%
Total				100	100 %	
Web page						

Date of certification	
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