


	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
3	1.5	0.5	3*15*S _o	1.5*15*S _o	0.5*15*S _o
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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