SYLL	ABUS
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The basic course information:				
Academic unit:	Faculty of Eng	gineering and Info	rmatics	
Title of the subject:	Machine Elements			
Level:	Bachelor			
Course Status:	Core			
Year of studies:	11			
Number of hours per week:	4			
Value of Credits - ECTS:	6			
Time / location:	Cabinet			
Course lecturer:	Flamur Salihu	I		
Contact details:	flamur.salihu	@ushaf.net		
Course description:	This course will provide students with the basic knowledge and concepts of calculating tolerances, loads, stresses and the safety factors of various mechanical elements using different methods of solving practical problems in engineering.			
Objectives of the course:	The aim of the course is to prepare students with the basic and advanced principles of use, calculation and construction of various machine parts based on their analytical calculations and constructive choices.			
Learning outcomes:	<ul> <li>After the completion of this module, student will be able to:</li> <li>know the concept of machine elements tolerances, the loads that operate as well as the safety factors of various machine elements,</li> <li>understand the calculation of tolerances, stresses, loads and safety factors of various machine elements (bolts, belt drives; chain drives, gear transmitters, shafts etc.),</li> <li>choose the right methods for calculating machine elements,</li> <li>apply appropriate theoretical methods in solving practical problems.</li> </ul>			
Contribution to the student load	- -	· · · · · · · · · · · · · · · · · · ·		
Activity	Hour	Day/week 15	In total	
Teaching (Lectures and exercises) Internship	4	15	60	
Contacts with teacher / consultations	1	3	3	
Field exercises	I	3	5	
Midterm, seminars and projects.		15	15	
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Self-learning time student (at the		3	15	45		
library or at home)						
Final preparation for the exam		3	8	24		
Time spent on evaluation (te	sts, quiz		3	3		
and final exam)						
Projects and presentations.				450		
Total				150		
Teaching methodology:	Teaching methodology: Lect		Lectures combined with exercises			
Assessment methods:		First assessme				
		Second assessi				
		Third assessme		1.1.00/		
			s (design assignmen	tsj 10%		
		Or through fin				
			Final exam 90 % Seminar papers (design assignments) 10%			
Literature			s (design dssignmen	(3) 1070		
Basic Literature:		1 Dr.sc Nijaz	i IBRAHIMI, DETALE	Τ Ε ΜΔΚΙΝΔ\/Ε Ι		
Basic Literature.		Prishtinë 2	•			
		2. Dr sc Nijazi IBRAHIMI DETALET E MAKINAVE II/1				
		and 2, Prishtinë 2006.				
		3. Dr sc Sadullah AVDIU, PRAKTIKUMI I DHE II,				
		Prishtinë 2003.				
		4. Dr sc Nijazi IBRAHIMI, DETALET E MAKINAVE I dhe				
		II, Përmbledhje e detyrave te zgjidhura, Prishtinë,				
		2007.				
Supplementary Literature:		5. Nieman: Maschinenelemente, Band I & II.				
		6. Jashari I., Pllana G.: Detalet e makinave.				
Designed learning plan:						
Week	Lectures and exercises to be held					
Week one:	The ma	in dimensions o	f machine elemen	ts. Tolerances.		
	Position	n of tolerances f	fields. Types of fits.			
Week two:	Carrying capacity of machine elements and machine			nd machine		
	elemen	ts loaded with static loads.				
	Numeri	cal exercises (to	olerances).			
Week three:	Mechar	nical elements J	oints (power screw	ı). Bolted		
	connections.					
			olted connections)			
Week four:	Rivets id	Rivets joints. Springs.				
	First (I) assessment (Held after the fourth week)					
	11130 (1)			weeky		

Week five:	Transmitters. Friction transmitters. Belt transmitters. Chain		
	transmitters.		
	Numerical exercises (belts and chains).		
Java e six:	Gear transmitter (introduction) The law of gearing		
Week seven:	Spur and helical gear pairs. Standard profile. Chordal		
	dimension and chordal dimension teeth. Contact ratio.		
Week eight:	Numerical exercises (Torque power and number of rotation		
	of gear transmitters. Contact ratio).		
Week nine:	Analysis of forces on gears.		
Week ten:	Shafts. Axes. Preliminary and final calculation of shafts.		
	Second (II) assessment (Held after the tenth week)		
Week eleven:	Types of shafts fits (press fits, channels and keys).		
Week twelve:	Bearings (Calculation and bearing selection)		
Week thirteen:	Couplings.		
	Numerical exercises (Calculation of shafts).		
Week fourteen:	Numerical exercises (Calculation of shafts and bearings).		
Week fifteen:	III (third) assessment.		

## Academic policies and rules of conduct:

Regular attendance of lectures and exercises is necessary, as well as active participation with discussion and solution of tasks. Not impeding the progress required for learning using mobile phones turned off or in silent mode.