SYLLABUS

Basic data of the subject

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University	University of	of Applie	d Sciences in I	Terizaj 💮 💮			
Academic unit			ing and Inform				
Program	Industrial I	Industrial Engineering with Informatics					
Title of the subject:		Mechanics I					
Level:	Bachelor	Bachelor					
Course Status:	Core						
Year of studies:	1, Semester II						
Number of hours per week:	3						
Value of Credits - ECTS:	5						
Time / location:							
Course lecturer:							
Contact details:							
Course Description		This course will provide students with the basics of statics					
	der to increase						
	ulate the reactions of bodies to each						
Objection of the control				ers of these loads.			
Objectives of the course:	-	The aim of this course is to provide students with sufficient					
	_	knowledge and skills to calculate forces, the moment of forces per point and axis. and the resistance of materials in					
		•					
Expected learning	order to optimize the dimensioning of supporting bodies. Upon successful completion of this subject, student will be						
outcomes:	able to:						
	recognize the force and moment of force per point are						
	 axis. calculate the reactions and graphically represent them understand the divisions and strains to which the material is subjected. calculate the center of gravity and make the dimensioning of the material which is subject to axial 						
	splitting, twisting, bending.						
Prerequisites	N/A						
	1						
Contribution to the student	load (which m	nust corre	espond with lea	arning outcomes)			
Activity	·	Hour	Day/Week	In total			
Lectures with lab tutorials		3	15	45			
Internship							
Contacts with teacher / consultations		1	15	15			
Field exercises							
Midterm, seminars and projects.		2	2	4			
Midterm, seminars and project							
Homework		1	15	15			
Homework		2	15	15 20			

Time spent on evaluation	n (tes	ts. guiz and						
final exam)			1	6	6			
Projects and presentations.			1	5	5			
Total					125			
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Lectures and e	exercises combined with tutorials and ercises					
Assessment methods: Semin			eminar work 30%					
Literature								
		_	 Prof.dr.Xhevat Perjuci ,Mekanika teknike", Universiteti i Prishtinës 					
Additional Literature:		 Prof.dr. Fetah Jagxhiu, Përmbledhje detyrash nga mekanika teknike", Prishtinë Prof.dr. Fehmi Krasniqi, Detyrat grafike nga statika, Prishtinë. Prof.Dr. Ahmet Shala, Përmbledhje detuyrave nga Statika, Prishtinë Xhevat Perjuci, Rezistenca e materialeve I, Prishtinë Xhevat.Perjuci, Rezistenca e materialeve II, Prishtinë 						
Designed learning plan		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Week:	Lectures and exercises to be held							
Week one:	Introduction. Knowledge of vectors and forces.							
Week two:	Solid forces system.							
Week three:	Moment of force per point.							
Week four:	The planar system of parallel forces.							
Week five:	The system of arbitrary forces in the plane.							
Week six:	Graphic statics							
Week seven:	Balance of planar axis							
Week eight:	Friction							
Week nine:	Center of gravity.							
Week ten:	Sections, strains and deformations							
Week eleven:	Fatigue resistance							
Week twelve:	Pulling and pressing, cutting, bending and twisting							
Week thirteen:	Dimensioning of full bodies							
Week fourteen:	Dimensioning of other bodies							
Week fifteen:	Summary							

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.