Syll	labus
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Basic data of the subject					
Academic unit:	Faculty of En	gineering	g and Informatio	S	
Title of the subject:	Mechanics 2				
Level:	Bachelor				
Course Status:	Core				
Year of studies:	2				
Number of hours per week:	4				
Value of Credits - ECTS:	6				
Time / location:					
Course lecturer:	Prof.dr. Buja	r Pira			
Contact details:	bujar.pira@u	ushaf.net			
Course Description	This course deals with the motion of the point and the body, the velocity and acceleration of the point and the rigid body or system of bodies (mechanisms) and the laws of motion under the action of forces, the causes that cause this motion and the consequences arising from this motion.				
Objectives of the course.	knowledge in point motion, and body Forc relationship be	the field o trajectory etween the	f kinematics and c , velocity and acce , work, power, etc em.	dynamics, such as eleration of point c., and the	
Expected learning outcomes:	 Upon successful completion of this subject, student will be able to: know the general laws of point dynamics and material system. understand kinetic energy, work, amount of movement and force pulse understand the motion of the point, its trajectory as well as the speed and acceleration of the point presented in different coordinate systems. calculate the angular velocities and accelerations of the links as well as the velocities and accelerations of a planar mechanism. 				
Contribution to the student log d (which much compared with log with a second					
Activity		Hour	Day/Week	In total	
Lectures with lab tutorials	Lectures with lab tutorials		15	60	
Internship					
Contacts with teacher / consultations		1	5	5	
Field exercises					
Midterm, seminars and projects					
Homework					
Self-learning time student (at the library or at home)		3	15	45	
Final preparation for the exam		3	12	36	

Time spent on evaluation (tests, quiz and final		2		2
exam)				
Total				1/9
				140
Teaching methodology:	 Teaching and learning will be realized through: Theoretical lectures - where students will understand the 			
	basic concepts	s of alffere	nt elements of me	2CNANICS
	 Numerical ex the theoretical 	ercises – where students will be able to apply		
	problems	r uspeets e	j solving meenam	icar (natarai)
	• Semester ind	lividual wa	ork - students will	be given by the
	teacher a natu	ral mechanical problem and by the end of		
	the semester t	they will be able to solve the problem and		
	submit and pr	esent the s	solution to the pro	blem before the
	teacher.			
Accoccment methode	The assessment	nt of the a	chievement of too	nching results in
Assessment methous.	this subject is	done with	colloquiums and	individual
	semester worl	k.		
	Colloquiums w	vill be orga	inized twice durin	g the semester:
	• On the 8th w	veek, the fi	rst colloquium wi	ll be organized, ■
	On the 15th w	eek, the co	olloquium of	
	second,	each collo	auium will be 100	/
final evoluat		n.	quium win be 40/	0
Those studer		s who hav	e not been succes	sful with
colloquiums, t		he evaluation will be done with a final exam,		
assessed with		80% of the	e grade. The collo	quiums and the
	exam consist o	of tasks an	d theoretical que	stions. Individual
	semester work	k will be as	signed to student	s in the fourth
	week of the se	emester an 20 nossible	d will consist of a	task selected
	evaluation we	ight of the	individual semin	ar work will be
	20% of the fin	al evaluati	on.	
Literature				
Basic Literature:	1. Dr. sc.	F. Jagxhiu	ı : Mekanika pjesa	a II/Kinematika,
	Prisht	inë.		
	2. Dr.sc.	Ahmet Ge	ca: DINAMIKA, Pr	ishtinë.
Additional Literature:	3. Prof.A	soc.Dr. Ah	met Shala, Ushtri	me
	4. Thana	is Gaçe: M	ekanika teorike II.	I (Dinamika), Aakanika Takaika
	lirane Dricht	:, 1984. Dr inë	. sc. xn. Perjuci: N	чекатіка текпіке,
	5 Dr.co	F Krasnir	ii - Dr sc A Shala	· Kinematika -
	Përmb	bledhie det	vrash (seminarike	e). Prishtinë.
Designed learning plan:				
Week:	Lectures and exe	rcises to k	pe held	
Week one:	Introduction to Mechanics 2			

Week two:	The movement of the point according to the Descartes
	coordinate and its trajectory
Week three:	Speed and point acceleration according to straight angle
	coordinates
Week four:	Movement, speed and acceleration according to natural
	and polar coordinates
Week five:	The linear and curved line motion of the point
Week six:	Rigid body kinematics, body movement around the
	stationary axis
Week seven:	Translatory movement of the lower body. Speed and
	acceleration pole. Special cases of speed poles
Week eight:	The complex motion of the point. Understanding the
	displacement and absolute motion. Understanding speed
	and relative acceleration and shifting. Theorem on the
	collection of velocities and accelerations when the
	displacement motion is translator.
Week nine:	Introduction to Dynamics
Week ten:	The dynamics of free and non-free material points
Week eleven:	Direct oscillations of a point
Week twelve:	Dallamber's principle of free and not free points
Week thirteen:	The impulse of force, the amount of motion of a point and
	its laws, the moment of the amount of motion, and its
	laws.
Week fourteen:	The force and force of the concrete case and the kinetic
	energy of the point
Week fifteen:	The relative motion of the material point

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.