Basic data of the subject					
University	University	of Appli	ed Sciences in	Ferizaj	
Academic unit	Faculty of Engineering and Informatics				
Program	Industrial Engineering with Informatics				
Title of the subject	Mechanics II				
Level	Bachelor				
Course Status	Core				
Year of studies	II, Semeste	er III			
Number of hours per week	3				
Value of Credits - ECTS	5				
Time / location					
Course lecturer					
Contact details					
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	The aim of this course is to provide students with basic knowledge in the field of kinematics and dynamics, such as point motion, trajectory, velocity and acceleration of point and body Forces, energy, work, power, etc., and the relationship between them.				
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 their 				
				inar mechanism.	
Prerequisites	To pass the		A V A		
	10 puss the	meenum			
Contribution to the student le	ad (which a	unst oorr	ospond with la	orning outcomes)	
Contribution to the student lo	bau (which h				
Activity		Hour	Day/Week	In total	
Lectures with lab tutorials		3	15	45	
Internship					
Contacts with teacher / consultations		1	5	5	
Field exercises		2			
	Midterm, seminars and projects.		6	12	

Homowerk		2	2	C		
Homework		2	3	6		
Self-learning time student (at the library or at home)		1	22	22		
Final preparation for the exam		2	10	20		
Time spent on evaluation (tests, quiz and final exam)		1	15	15		
Projects and presentations.		3	15	45		
Total			125			
8 8		and exercises combined with case studies and ussions, as well as active collaboration in ums				
Assessment methods		Final exam graded with 100% grade. The exam consists of tasks and theoretical questions.				
The ratio of theory and	70% theory	70% theory with exercises and 30% laboratory work.				
practice	7070 theory					
Literature	-	_		-		
Basic Literature		1. Dr. sc. F. Jagxhiu Mekanika pjesa				
	II/Kinematika, Prishtinë.					
Additional Titonature		2. Dr.sc. Ahmet Geca DINAMIKA, Prishtinë.				
Additional Literature	•	 Prof.Asoc.Dr. Ahmet Shala, Ushtrime Thanas Gaçe Mekanika teorike III (Dinamika), 				
		5		, , ,		
			Dr. sc. Xh. Per	<i><i>μсι мека</i>піка</i>		
		Teknike, Prishtinë. 5 Dr. se E Krasnigi Dr. se A Shala				
		5. Dr. sc. F. Krasniqi - Dr. sc. A. Shala Kinomatika Përmbladhja daturash				
		Kinematika - Përmbledhje detyrash (seminarike), Prishtinë.				
Designed learning plan	(Sen					
Week	Lectures and exercises to be held					
Week one	Introduction to M	echanics	2			
Week two	The movement of	the point	according to the	e Descartes		
	coordinate and its					
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			•		
** 7 * • • •	acceleration pole.	<u> </u>				
Week eight	The complex moti			U U		
	displacement and absolute motion. Understanding speed and relative acceleration and shifting. Theorem on the					
	collection of velocities and accelerations when the			nen the		
Woolt ning	displacement motion is translator.					
Week nine Week top	Introduction to Dynamics The dynamics of free and non-free material points					
Week ten	ine aynamics of f	ree and n	on-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.