Basic data of the subject	
Academic unit:	**Faculty of Management**
Subject title:	**Technical Mechanics**
Study level:	**Bachelor**
Subject status:	**Compulsory**
Year of study:	**I**
Number of hours per week:	**4**
Value of credits – ECTS:	**6**
Lecturer of the subject:	**Prof. Dr. Bujar Pira**
Contact details:	**bujar.pira@ushaf.net**
Description of the subject:	Through this subject, students will be familiar with the basic concepts of statics, kinematics and dynamics starting from strength, moment of forces, loads and center of gravity, velocity and acceleration of the point and rigid body as well as energy.
Aim of the subject:	The objective of the subject of technical mechanics is to provide students with basic knowledge of mechanics, branches of mechanics and understand, analyze and solve mechanical-natural problems through various fields of mechanics.
Learning outcomes:	Upon sucsessful completion of this subject, student will be able to: • understand the basic concepts of mechanics (Force, Reactions, Moment, Speed, Acceleration, etc.) • understand the difference between different fields of mechanics • analyze natural problems and transform them into mechanical ones • provide solutions to these mechanical problems by applying the basic tools of mechanics in its various fields

Contribution in the student learning(which should correcpond to the leraninng outcomes)			
Activity	**Hrs**	**Days/Weeks**	**Total**
Lecturers and tutorials	4	15	60
Practical work	-	-	

Individual consultationis with the lecturer	1	15	15
Practical work in the field	-	-	-
Seminars/tests	2	2	4
Home work	1	15	15
Individual students work (library/university or at home)	2	15	30
Preparation (revision) for the exam	1	15	15
Time spent in the exam	1	2	2
Project, presentation, etc.	0.5	15	7.5
Total			**150**

Teaching methodology:	Lectures, seminars, discussions, graphic works and group work
Evaluation methods:	Final exam: **100%**
Literature	
Core literature:	➢ *Prof.dr.Xhevat Perjuci ,Mekanika teknike", Universiteti i Prishtinës*
Other literature:	➢ *Prof.dr.Fetah Jagxhiu,, Përmbledhje detyrash nga mekanika teknike",Prishtinë* ➢ *Prof.dr.Fehmi Krasniqi ,,Detyrat grafike nga statika", Prishtinë.*

Weekly teaching plan:

Week	Content of the lectures
First week:	What are the mechanics? How and where does mechanics apply? What are the kinds of mechanics and its basic concepts?
Second week:	What are statics? What is Force and what is its unit? Vector actions (collection, subtraction, and multiplication).
Third week:	Projections of force in coordinates. Loads, load types. Moment (force couple), constant loads.
Fourth week:	Action and counteraction. Understanding and assigning reaction forces. Release a body from the link.
Fifth week:	Determining the center of gravity of different surfaces.
Sixth week:	Particle Kinematics. The main issues of particle kinematics. The object of kinematics. Ways to give particle movement to kinematics. Vector mode. Vector equation of motion and particle trajectory. Particle velocity vector. Particle velocity Vector.

Seventh week:	Coordinate way. Cartesian Coordinates. Movement equations and point trajectory. Particle velocity. The rectilinear movement of the particle. Rectifying straight movement. Straightforward movement uniformly changed
Eighth week:	Tutorials
Ninth week:	Simple rigid body movement. Translating movement of the rigid body. Rotating the rigid body around the stationary shaft. The motion equation. Angular velocity and angular velocity of the body
Tenth week:	Introduction to Dynamics, in this lecture will be elaborated the basic concepts of dynamics
Eleventh week:	Basic laws of dynamics
Twelwth week:	The free and non-free particle dynamics, the point-to-point motion
Thirteenth week:	Free angular throw. Determination of maximum height and maximum length during angular throw.
Fourteenth week:	Energy
Fifteenth week:	Round up tutorials
Academic policies and code of conduct:	
Keeping quiet in the lesson Disconnection of mobile phones Entering the hall in time, not later than 15 after the beginning of the lesson.	