

## Course Syllabus

Academic year: 2018-2019

Institution	University of Petroșani
Faculty	Mechanical and Electrical Engineering
Field of study	Industrial engineering
Level	Bachelor
Program of study	Machine Building Technology

Course	<b>Mechanics I</b>
Code	2BB1OD06
Year of study (semester)	I (I)
Number of hours	56
Number of credits	4
Professor	Lecturer eng,Ph.D. ITU Vilhelm

No.	Topic
1.	The balance of the free and bound point. Frictionless links of the material point. Friction links of the material point.
2.	Moment of force relative to a point. Moment of torque. Equivalence and composition of couples. Reducing any forces. Tors. Its properties.
3.	Balance of free and bound rigid. Ties rigid. Their forces and / or their connecting moments.
4.	Table centers.
5.	Axioms and principles in statics of systems.
6.	Wire rubbing. Thread equilibrium.
7.	Lattice beams.



Ministry of Education  
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8.	Vector position, speed and acceleration. Speed and acceleration in Cartesian coordinates. Recurring movements. Speed and acceleration in polar coordinates. Circular movements. Vectors: angular velocity and angular acceleration.
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