

Study program: Civil Engineering			
Course: Technical Mechanics			
Professor/Assistant: PhD Danijela Zlatković / Simona Smiljković			
Status of course: compulsory			
ECTS credits: 6			
Pre-requisites: none			
Aims of the course: Introduction of students to the basics of mechanics and statics and their application in further study.			
Learning outcomes: Static determination of loads necessary for further study and professional practice.			
Syllabus:			
<i>Theoretical part</i> Statics axioms, staggering, decomposition and balance of force, analytical method of force matching, force moment with respect to the point, spreg force and momentum of force, basics of graphic statics, flat level grids, cross-sectional forces in the plane, calculation and plotting of moment diagrams, transversal and normal forces.			
<i>Practical part</i> It consists of auditory exercises that are carried out in the fields specified by the theoretical part of teaching. Independent production of 3 graphic works.			
Literature:			
<ol style="list-style-type: none"> 1. Nikolić, V., <i>Technčka mehanika</i>, Građevinska knjiga, Belgrade, 1968. 2. Rašković, D., <i>Mehanika i statika</i>, Naučni rad, Belgrade, 1973. 3. Spajić, R., <i>Tehnička mehanika i statika</i>, Niš, 1998. 			
Number of active classes			Other forms of teaching:
Lectures: 2	Practical classes: 3	Research work: 0	
Teaching methods: Combined, interactive with case management from practice.			
Grading system (maximum 100 points), grading scale from 5 to 10: below 51 points grade 5, grade 6 from 51-60 points, grade 7 from 61-70 points, grade 8 from 71-80 points, grade 9 from 81-90 points, grade 10 from 91-100 points.			
Pre-commitments	points	Final exam	points
activity during lectures	5	written exam	-
activity during practical	5	oral exam	30
colloquium(s)	20 + 20		
seminar paper(s)	20		
Sum	70	Sum	30