

Study program: Mechanical engineering			
Type and level of studies: Master studies			
Course unit: Work Study and Ergonomics			
Teacher in charge: prof. dr Milan Kolarević			
Language of instruction: English			
ECTS: 6			
Prerequisites: Statistics and probability			
Semester: Autumn			
Course unit objective: Introduction to basic settings Studies of work and time analysis, analysis of loss of times, procedures to simplify the process of labor and industrial ergonomics.			
Learning outcomes of the course unit Mastering the methods and techniques for determining the time of making the recording and methods of standard elements of the work, methods for analyzing and quantifying the losses and methods of simplifying the work.			
Course unit contents <i>Theoretical classes</i> <ul style="list-style-type: none"> • Productivity, work study and the human factor • Motion and time study design and measurement of work • Analysis of the time losses • Simplification of work • Industrial Ergonomics <i>Practical classes</i> Exercise, Other modes of teaching, Study research work			
Literature G.Kanawaty, <i>Introduction to Work Study</i> , International Labor Office Geneva, 1992 D.Alexander, R.A.Rabourn, <i>Applied Ergonomics</i> , Taylor&Francis, 2001. N.Gkikas, <i>Automotive Ergonomics</i> , Taylor&Francis, 2012.			
Number of active teaching hours			Other classes
Lectures: 3	Practice: 1	Other forms of classes: Independent work: 1	
Teaching methods Lectures. Numerical computational exercises. Seminar. The practical realization of experiments in the laboratory.			
Examination methods (maximum 100 points)			
Exam prerequisites	No. of points:	Final exam	No. of points:
Student's activity during lectures	10	oral examination	
practical classes/tests		written examination	50
Seminars/homework		
Project	40		
Other			
Grading system			
Grade	No. of points	Description	
10	91-100	Excellent	
9	81-90	Exceptionally good	
8	71-80	Very good	
7	61-70	Good	
6	51-60	Passing	
5	Less than 50	Failing	