

Study program: Mechanical engineering			
Type and level of studies: undergraduate studies			
Course unit: Computer Applications in Engineering 2			
Teacher in charge: Prof. Dr Vladimir Milićević			
Language of instruction: English			
ECTS: 3			
Prerequisites: none			
Semester: Summer			
Course unit objective: Introduction to Programming Fundamentals and Computer Applications in Engineering			
Learning outcomes of the course unit The student needs to learn how to use a computer at a user level to solve engineering tasks			
Course unit contents Theoretical classes Variables, Algorithmic Problem Solving, Branching Control Structures, Loops, Decision Statements, Functions, User-Defined Functions, Coding Practical classes Working in the development environment of the software tool Matlab. Interactive problem solving and programming.			
Literature Pršić Dragan, Matlab sa primerima, Fakultet za mašinstvo i građevinarstvo u Kraljevu, Kraljevo 2015. Walter Gander, Learning MATLAB - A Problem Solving Approach, Springer 2015			
Number of active teaching hours			Other classes
Lectures: 15	Practice: 15	Other forms of classes:	
		Independent work: 1	
Teaching methods Lectures and exercises in a computer classroom			
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	25	written examination	30
Seminars/homework	35		
Project	/		
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 51	Failing	