BM1300

Study program / course: Mechanical Engineering
Type and level of study: Bachelor academic studies
Course: Computer Tools
Lecturers: Grujović A. Nenad, Filipović D. Nenad
Status of course: Obligatory, joint for all modules, I semester
Number of ECTS: 6
Precondition: No
The objective of course Basic knowledge and skills in engineering and business applications of IT. Trained to create algorithms and solve simple programming tasks.
The outcome of course Basic use of Office programs (Word, Excel), programming using FORTRAN, C and VBA programming languages and bases for use on engineering software.
Syllabus **Theoretical study** Use computers in business and Internet (text processing, spreadsheet, Internet, drawings and pictures). Basics of FORTRAN programming language (programming structures, matrices, subroutines). Basics of C programming language (basic syntax, pointers, structures, functions); Engineering software. Selected algorithms. **Practical classes** Training in computer lab.
Recommended reading (in Serbian) 1. N.Grujović, V.Dimitrijević, N.Milivojević: APPLICATION OF COMPUTERS MS Office (in Serbian), Center for Information Technology, Faculty of Mechanical Engineering, Крагујевац, 2005. 2. N. Parezanović: FORTRAN 77 (in Serbian), Naučna knjiga, Belgrade, 1994. 3. N. Filipović, Programing language C (in Serbian), Technical Faculty Čačak, Čačak, 2003. 4. A. Hensen: Programing in language C, Mikroknjiga, Belgrade, 1991. 5. www.mfkg.kg.ac.yu

The number of hours of active teaching:				Other classes:
Theory: 2	Practical classes: 0.6	Other forms of teaching: 1.4	Research study: 0	1

Methods of teaching

Evaluation of knowledge

Pre-final exam obligations	points	Final exam	points
Activities during the classes:		Written exam	**40**
Practical classes:			
Colloquiums(s) :	**60**		
Seminar(s) :			