"KADRI ZEKA" UNIVERSITY
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COURSE SYLLABUS

Course title: **Applied software in mathematics**

Basic course information:	
Academic unit:	**Faculty of Applied Sciences**
Course title:	**Applied software in mathematics**
Level:	**Bachelor**
Course status:	**Elective**
Year of study:	**Year I semester II, 2019/2020**
Number of classes in a week	**2+2**
ECTS:	**5**
Time / location:	
Course lecturer:	**Prof.Ass.**
Contact details:	
Course overview:	Basics of computer programs in general and application programs in particular, Tabulation calculations, MATHCAD analytical software, MATHEMATICS, MATLAB. Describe some of the opportunities that you are giving these applications and solutions to some problems by utilizing these.
Course objectives:	Increase the culture of using application programs. Knowing the most widely used application programs in the mathematics field in the world such as Mathematics, Matlab and Mathcad.
Intended learning outcomes:	By applying some application programs, increasing the level of knowledge and use of application programs especially in the fields of mathematics.

Impact on student commitment			
Activity	**Classes**	**Days/weeks**	**Total**
Lectures	2	15	30
Theoretical/laboratory exercises	2	15	30
Contacts with the lecturer/consultation hours	1	15	15
Partial exams, workshops	2	3	6
Homework	1	15	15
Self-studying (in the library or home)	2	15	30
Final preparation for the exam	5	1	5
Time spent in evaluation (tests, final exam)	4	1	4
Projects, workshops, presentations ,etc	10	2	20

Total			**155:25 ≈6.2 6 ECTS**

Teaching methods:	Lectures, laboratories, homework
Evaluation methods:	First test: 30 points Second test: 30 points Homework: 30 points Presence and activity in lectures: 5+5=10 points Final exam: 60 points(for students that do not pass with partial exams(tests)) Total: 60+30+10=100 points. Grading: Total number of points is 100. 50-60 = 6; 61-70 = 7; 71-80 = 8; 81-90= 9; 91-100 = 10 Points under 50 do not reach a passing grade.
Literature	
Basic literature:	-Andrew Knight, Basics of matlab, USA, CRC Press LLC, 2000, ISBNO-8493-2039-9 - Stephen Wolfram, The Mathematica Book, 5th ed. (Wolfram Media, 2003)
Additional literature:	-Matlab numerical computing , tutorjal Linku: http://mayankagr.in/images/matlab_tutorial.pdf

Designed plan of study:

Week	**Lectures:**
First week:	Syllabus
Second week:	Basic understanding of computer programs in general and application programs in particular,
***Third week*:**	Tabular calculation,
Fourth week:	Analytical software,
Fifth week:	MathCad,
***Sixth week*:**	Some basic opportunities
Seventh week:	Test 1
Eighth week:	Use for problem solving
Ninth week :	Mathematika
Tenth week:	Some basic opportunities
***Eleventh week*:**	Use for problem solving
***Twelfth week*:**	MATLAB. Some basic opportunities
***Thirteenth week*:**	Describe some of the opportunities that you are giving these applications and solutions to some problems
***Fourteenth week*:**	Presentations
***Fifteenth week*:**	Test 2

Academic policy and rules of conduct:
The student is obligated to attend the lectures and exercises. Cheating at exams is punishable according to the statute and regulations of the university. The code of conduct refers to the students as well as to the teachers.