INTRODUCTION TO COMPUTER PROGRAMMING

1	Course Title:	INTRODUCTION TO COMPUTER PROGRAMMING	
2	Course Code:	BMB1002	
3	Type of Course:	Compulsory	
4	Level of Course:	First Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	6.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	2	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. NECMETTIN KAYA	
15	Course Lecturers:	Yrd. Doç. Dr. Erol Solmaz	
16	Contact information of the Course Coordinator:	necmi@uludag.edu.tr 224-2941979 U.Ü. Müh. Mim. Fak., Makine Mühendisliği Bölümü Bursa	
17	Website:	http://homepage.uludag.edu.tr\~necmi\bpg.htm	
18	Objective of the Course:	The purpose of this course is to give the student engineering problem solving skills to write programs in Pascal language and to develop algorithms.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Be able to write computer programs to solve mathematics, physics and engineering problems
		2	Be able to use theoretical knowledge on professional activities and develop own skills in this context,
		3	Identifying problems in mechanical engineering, algorithm development, gaining the ability to formulate and solve with computer facilities.
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21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	Introduction to computers, hardware, software, operating systems, algorithms.	

2	Steps of solving problems with computer programming, algorithms and flow charts, loops.	
3	Examples of algorithms and flow charts.	
4	Introduction to Pascal language, structure of a pascal program, naming of variables, data types, read and write commands, operators, pascal editor.	
5	Input and output wih formatting, arithmetic functions.	
6	Condition commands:, if-then command.	
7	Condition commands: case-of, Loops: for-do command.	
8	Loops: while-do command, repeat-until command.	
9	Repeating courses and midterm exam	
10	Arrays, 2 dimensional arrays, matrices.	
11	Subroutines: Procedure.	
12	Subroutines: Procedure, with or without parameters.	
13	Subroutines: Procedure, with or without parameters.	
14	Subroutines: Procedure, with or without parameters.	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	1.00	14.00
Self study and preperation	14	1.00	14.00
Homeworks	7	4.00	28.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	2	10.00	20.00
Others	0	0.00	0.00
Final Exams	1	15.00	15.00
Total Work Load			119.00
Total work load/ 30 hr			3.97
ECTS Credit of the Course			6.00

3. Turbo Pascal ve Programlama Sanatı, Önder Akgöbek, Beta Yayınları
5. Lecture Notes (webpage of lecture)

23	Midterm Exam 2 50.00 Quiz 0 0.00 Home work project 7 0.00 Final Exam 1 50.00 Total 10 100.00	
	Contribution of Term (Year) Learning Activities to Success Grade	50.00
	Contribution of Final Exam to Success Grade	50.00
	Total	100.00
	Measurement and Evaluation Techniques Used in the Course	
24	**ECTS / WORK LOAD TABLE**	

25	**CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS**															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ÖK2	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0
ÖK3	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**