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:	2
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:	
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Dr. Ögr. Üyesi HAKAN TACETTİN TÜRKER
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	hakantturker@uludag.edu.tr
17	Website:	http://insaat.uludag.edu.tr
18	Objective of the Course:	The objective of this course is to provide the ability of algorithm creation and the basics of programming concepts by using Python programming language and enable students to gain experience in laboratory environment.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

		1	Understanding of computer logic
		2	Gain skills in algorithm development for given problems using basic rules
		3	Ability of use basic commands of Python
		4	Code creation for engineering problems by using Python programing language
		5	To be capable of analyze and generation a code about engineering problem in laboratory.
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21	Course Content:	

Course Content:		
Week	Theoretical	Practice
1	Computer and programing Logic	Laboratory Application
2	Development of Algorithm and basic rules	Laboratory Application

3	Python Basics: Running Python, Python Comments, Data Types, Variables, Writing a Python Module print() Function	Laboratory Application
4	Expressions and Arithmetic	Laboratory Application
5	Conditional Statements - Boolean expressions - If/Else statement - Other Conditional Expressions	Laboratory Application
6	Iteration - Loops, for, while	Laboratory Application
7	Iteration - Loops, for, while	Laboratory Application
8	Using Functions	Laboratory Application
9	Writing Functions -1	Laboratory Application
10	Writing Functions -1	Laboratory Application
12	Lists, Tuples - Using Lists	Laboratory Application
14	Graphic processing	Laboratory Application

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	7.00	98.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	10.00	10.00
Total Work Load			174.00
Total work load/ 30 hr			5.80
ECTS Credit of the Course			6.00

Materials:
-Fırat Özdil, Her Yönüyle Python, Kodlab, 2016

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
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	4	3	4	2	3	3	4	2	0	0	0	0	0	0	0	0
ÖK2	3	5	5	3	4	3	4	4	0	0	0	0	0	0	0	0
ÖK3	3	4	2	4	4	4	3	5	0	0	0	0	0	0	0	0
ÖK4	3	3	3	2	4	5	5	2	0	0	0	0	0	0	0	0
ÖK5	4	5	5	5	2	4	3	3	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**