

# 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. Öğr. 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 programming language
		5	To be capable of analyze and generation a code about engineering problem in laboratory.
		6	
		7	
		8	
		9	
		10	
21	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
1	Computer and programming 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		
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical	Using Lists	14	2.00	28.00
Practicals/Labs		14	2.00	28.00
12	Self-study and preparation - Lists, Tuples - Using Lists	Laboratory Application	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
14	Graphic processing	Laboratory Application	10.00	10.00
Final Exams		1	10.00	10.00
Total Work Load				174.00
Total work load/ 30 hr		-Firat Ozdil, Her Yonuyile Python, Kodlab, 2016		
ECTS Credit of the Course				6.00
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			