



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Computer Programming							
Course Code		BK420		Course Level		First Cycle (Bachelor's Degree)			
ECTS Credit	2	Workload	46 (Hours)	Theory	1	Practice	1	Laboratory	0
Objectives of the Course		to teach logic of algorithm and simple programming computer							
Course Content		This course aim to teach computers, computer programming, terminology of computer science and creating logical construction. And also teach to history of computer science, term of software and hardware, and relation of them. Main aim of course is understanding of problem, creating steps of solving, writing program and tracking errors in program.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)		Assoc. Prof. Ümit ÖZYILMAZ							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	code.org
2	http://www.codecademy.com
3	http://mebk12.meb.gov.tr/meb_iys_dosyalar/42/03/175302/dosyalar/2013_02/13012444_programlamayagiris.pdf
4	http://www.hakankör.com.tr/Algoritma.pdf
5	Vatansever, F., 2011. Algoritma Geliştirme ve Programlamaya Giriş, Seçkin Yayıncılık.
6	Taşbaşı, M., 2003. Qbasic. Altaş Yayınları.
7	Tungut, H. B., 2013. Algoritma ve Programlama Mantığı, Kodlab Yayınları.
8	http://www.uozyilmaz.com/files/programlama.pdf

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction,Collecting student's expectations,Explaining aim of course,Explaining course programmeExplaining course structureExplaining course's tools and sourcesDetection of student's interests on course and knowledge level by chatting
2	Theoretical	History of computers and programming language.Terminology
3	Theoretical	Logic of algorithm
	Practice	Exercises
4	Theoretical	Variables, constants. Mathematic formulas in computer programming. Coding firs program.
	Practice	Exercises
5	Theoretical	Printing data on screen and teach how to input data for calculation by user.
	Practice	Execises
6	Theoretical	Comment lines, location of cursor
	Practice	Exercises
7	Practice	Execises
	Intermediate Exam	Exam
8	Theoretical	Conditions in proramming
	Practice	Exercises
9	Theoretical	Loops in programming
	Practice	Exercises
10	Theoretical	Common mathematical functions
	Practice	Exercises
11	Theoretical	Common alpha numeric functions
	Practice	Exercises



12	Theoretical	Converting numeric to alphanumeric or alphanumeric to numeric. Error tracking and solving
	Practice	Exercises
13	Theoretical	Exercises
	Practice	Exercises
14	Practice	Example. Creating whole programming (basic)
15	Practice	Example. Creating whole programming (more complicated)
16	Final Exam	Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Lecture - Practice	14	1	1	28
Midterm Examination	1	1	1	2
Final Examination	1	1	1	2
Total Workload (Hours)				46
[Total Workload (Hours) / 25*] = ECTS				2

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	History of computers, computer programming, and terminology
2	Operations with alpha numeric and numeric variables
3	Flow chart (algorithm)
4	Writing program and running without error
5	Conditions and loops

Programme Outcomes (Agricultural Biotechnology)

1	To be able to develop skills in identifying, modeling and solving problems in agricultural biotechnology
2	To be able to synthesize life and engineering sciences for the effective resource planning of agricultural biotechnology applications
3	To be able to interpret about living organisms structure, metabolic and physiological processes in order to propose biotechnological solutions to the agricultural problems
4	To be able to analyze genomic, metabolomic and proteomic information via bioinformatic tools.
5	To have the ability to analyze collected data and interpret the results.
6	To have the ability of individual working ability and to make independent decisions, to work in inter-disciplinary and interdisciplinary teamwork, to communicate by expressing their ideas orally and in writing, clearly and concisely
7	To have the awareness of professional liabilities and ethics
8	To be able to follow current national and international problems

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P1	1	1	1	1	1
P2	2	2	2	2	2
P3	2	2	2	2	2
P4	2	2	2	2	2
P5	2	2	2	2	2
P6	2	2	2	2	2
P7	2	2	2	2	2
P8	2	2	2	2	2

