AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Computer Programming							
Course Code	BK420			Couse 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 *(Dairy Technology)*

1	Having sufficient infrastructure in basic sciences and engineering subjects and ability to use the theoretical and applied info instantly in this field.
2	Determining the modern techniques, tools and information technologies required for applications related with his field and ability to use them efficiently
3	Ability for planning, projecting, and designing, following up, analyzing and finding target-driven solutions related with his field
4	Ability to have professional ethic and awareness.
5	Ability to work, decide, express opinions orally and in written individually
6	Ability to participate team studies, taking responsibility, making leadership.
7	Ability to conceive Ataturk's principles and reforms, to communicate in Turkish and foreign language.
8	Ability to comprehend the necessity to learn for a life time, to monitor developments in science and technology and continuously renew himself.
9	Having sufficient level of information about production and quality control of milk and dairy products and also product development, increasing product quality and food security fields.
10	Ability to detect, define, solve problems related with his field and to select and apply suitable methods and modeling techniques for this purpose.
11	To be conscious about workplace applications, worker health, work security and environment subjects, to have knowledge about legal results of the engineering applications related with his subject.

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

	L1	L2	L3	L4	L5
P2	5	5	5	5	5