



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Algorithms and Programming							
Course Code		BPR181		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		This course is designed to teach algorithm and coding concepts.							
Course Content		Algorithms, Flowchart, Coding tools, Variables and constants, Input/output operations, Operators, decision algorithms, loop controls,unidimensional arrays, multi-dimensional arrays, Void sub-programmes, Non-void sub-programmes							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Visual Studio 2011, M.Mastar, Kodlab Yayınevi.
2	C#.net ile Nesne Tem. Prog. Giriş, Ö.Sebetci, Gazi Yayınevi.
3	Introduction to programming and algorithms Soner Çelikkol Murathan Yayın

Week	Weekly Detailed Course Contents	
1	Theoretical	.Algorithms
2	Theoretical	Flowchart
3	Theoretical	Coding tools
4	Theoretical	Variables and constants
5	Theoretical	Input/output operations
6	Theoretical	Operators
7	Theoretical	Decision algorithms
8	Theoretical	Loop control
9	Intermediate Exam	Midterm exam
10	Theoretical	Loop control
11	Theoretical	One-dimensional arrays
12	Theoretical	Multi-dimensional arrays
13	Theoretical	Void sub-programmes
14	Theoretical	Non-void sub-programmes
15	Theoretical	Non-void sub-programmes
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Term Project	1	0	4	4
Laboratory	5	0	1	5
Reading	3	0	1	3
Midterm Examination	1	4	1	5



Final Examination	1	4	1	5
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Introduction to coding and designing program flowchart
2	Control statements, array operations and working with sub-programmes
3	Learns the concept of everyday life like algorithms, with examples from everyday life.
4	Understands the components and their uses.
5	Learns the basic properties of Visual Basic.

Programme Outcomes (Construction Technology)

1	Being able to have professional knowledge and skills as a result of being supported by the application on vocational qualifications gained in secondary education
2	To choose and use building materials
3	Building installations can be done
4	Applying concrete technology
5	Construction of roads
6	To be able to make professional computer applications
7	Technical drawings
8	Making professional drawing
9	Bidding and contracting
10	To be able to organize the site
11	Control and documentation of manufacturing
12	Can make application of building repair and strengthening works
13	To be able to determine soil types and make soil tests
14	Can control water supply and transmission activities
15	Making waste treatment facilities for polluting resources
16	Projecting of construction elements
17	Being able to make a professional project
18	Make land measurements
19	To be able to make professional practices

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

	L1
P1	3
P7	3
P8	2
P19	4

