



**AYDIN ADNAN MENDERES UNIVERSITY**  
**GRADUATE SCHOOL OF SOCIAL SCIENCES**  
**MANAGEMENT INFORMATION SYSTEMS**  
**MANAGEMENT INFORMATION SYSTEMS**  
**MANAGEMENT INFORMATION SYSTEMS MASTER**  
**COURSE INFORMATION FORM**

Course Title	Software Development								
Course Code	MIS516	Course Level		Second Cycle (Master's Degree)					
ECTS Credit	7	Workload	181 (Hours)	Theory	2	Practice	1	Laboratory	0
Objectives of the Course	Teaching the basic principles of software, writing algorithms in a software system, gaining ability for designing and developing in software, introducing interface to use the vb.net programming language, teaching the development of application software using basic programming principles with the help of libraries that come with vb.net programming language								
Course Content	Algorithms, data types, controls, loops, classes, objects, methods, inheritance, encapsulation, the .NET Framework, vb.net Interface, vb.net Control Structures and Loops, vb.net Error Control, vb.net Forms, Controls, Dialogue windows, vb.net Text / Date-Time / Mathematical methods, vb.net DataTable use, the sample project application.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Discussion, Case Study, Project Based Study, Individual Study, Problem Solving								
Name of Lecturer(s)									

#### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

#### Recommended or Required Reading

1	The C++ Programming Language- Bjarne Stroustrup
2	Java How to Program-Paul Deitel

Week	Weekly Detailed Course Contents	
1	Theoretical	Algorithmic Programming Design, Flowcharts
2	Theoretical	Introduction to Object Oriented Programming, Data Types, Variables, Control Structures for Selection, Control Structures for Selection
3	Theoretical	Classes, Objects, Types
4	Theoretical	Constructors & Destructors, Overloading, Interface
5	Theoretical	Encapsulation, Subclass & Inheritance, Polymorphism
6	Theoretical	Design a Project
7	Intermediate Exam	MIDTERM
8	Theoretical	Data Types & Operators in C#
9	Theoretical	Control Structures for Selection in vb.net, Control Structures for Iteration in C#
10	Theoretical	Forms, User Controls in vb.net
11	Theoretical	String Methods in vb.net, Date/Time Methods in vb.net, Math Methods in vb.net
12	Theoretical	Publishing, Application Project
13	Theoretical	Application Project
14	Theoretical	Application Project
15	Final Exam	Final

#### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	16	0	3	48
Assignment	1	0	20	20
Individual Work	26	0	3	78
Midterm Examination	1	10	5	15



Final Examination	1	15	5	20
Total Workload (Hours)				181
[Total Workload (Hours) / 25*] = ECTS				7
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	Analyse the needs for an information systems and have control over the processes at the analysis, design and implementation stages of the database that belongs to the system
2	Be aware of the different types of information technologies and systems using in business, have enough knowledge to design a suitable system
3	Convey information about current trends and their own studies both verbally and visually ways.
4	Be able to follow current developments in modern business techniques and technologies, especially information technologies
5	Understand the interaction between his department and other relational departments, if necessary make a team, take responsibility and do the works with team.
6	Know the information technologies and systems using in different types of business, if necessary take the system responsibility.

### Programme Outcomes (Management Information Systems Master)

1	Be aware of the different types of information technologies and systems using in business, have enough knowledge to design a suitable system
2	Analyse the needs for an information systems and have control over the processes at the analysis, design and implementation stages of the database that belongs to the system
3	Convey information about current trends and their own studies both verbally and visually ways.
4	Be able to follow current developments in modern business techniques and technologies, especially information technologies
5	Understand the interaction between his department and other relational departments, if necessary make a team, take responsibility and do the works with team.
6	Know the information technologies and systems using in different types of business, if necessary take the system responsibility.
7	Be aware of the social transformation especially in their own field and social, legal and moral responsibilities belongs to other work field.
8	Develop their knowledge to the level of expertise which they learn them in license level.
9	Carry out a work which requires an expertness in their field.
10	Construct and perform an academic work.

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

	L1	L2	L3	L4	L5	L6
P1	4	4	2	4		
P2	4				4	4
P3	4	4	4	4	4	4
P4	4	4	4	4	4	4
P5		4	4	4		4
P6	4	4	4	4	5	4
P7	4	4	4	4	5	4
P8	4	4	4	5	5	4
P9	4	4	4		4	4
P10	4	4	4	4	4	4

