ADVANCED PROGRAMMING

1	Course Title:	ADVANCED PROGRAMMING
2	Course Code:	BIL2108
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	4
7	ECTS Credits Allocated:	4.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	-
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Dr. Ögr. Üyesi ÖMER UYSAL
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	Dr. Öğr. Üyesi Ömer Uysal omeruysal@uludag.edu.tr
17	Website:	www.uzaktanogren.ademuzn.com
18	Objective of the Course:	The purpose of this course is to give teacher candidates fundamental information about developing software applications including database and reporting using design principals and coding appropriate interface objects.
19	Contribution of the Course to Professional Development:	It enables them to use the theories and applications specified in the purpose of the course in their professional practice.
20	Learning Outcomes:	

	1	Uses detailed properties, events and methods of basic objects.
	2	Designs effective interface
	3	Manages constraints and validation of data input
	4	Identifies basic concepts of database programming
	5	Developes database applications using different programming approaches
	6	Prepares suitable reports from database
	7	
	8	
	9	
	10	

21	Course Content:
	Course Content:

Week	Theoretical	Practice
1	Basic controls in Visual Basic .NET	Using detailed properties, methods and events of Button, Textbox, RadioButton, Checkbox
2	Basic controls in Visual Basic .NET	Using detailed properties, methods and events of Listbox and Combobox
3	Working with forms in Visual Basic .NET	Using properties, methods and events of form object
4	Interface design in Visual Basic .NET	Discussing effective interface design principals

5	Restriction and validation in Visual Basic .NET	An example of restriction an validation
6	Introduction to database programming in Visual Basic .NET	Definition of basic concepts of database programming. Discussing the purpose of database programming
7	Developing database applications in Visual Basic .NET using drag and drop	Applications of developing database applications using drag and drop
8	Using databinding in Visual Basic .NET	Applications of databinding
9	Using dataset designer in Visual Basic .NET	Applications of dataset designer
10	Using dataset designer in Visual Basic .NET 2010	Creating methods in dataset designer
11	Connected database model in Visual Basic .NET	Creating connection objects, applications of querying database
12	Reporting Visual Basic .NET	Applications of reporting
13	A sample database applicion using Visual Basic .NET	Developing the sample application
14	A sample database applicion using Visual Basic .NET	Developing the sample application

22	Textbooks, References and/or Other Materials:	Profesyonel Programlama Teknikleri .NET, 2007, Tansu Türkoğlu Visual Basic .NET Complete, 2002, Greg Jarboe, Hollis Thomases, Mari Smith, Chris Treadaway Dave Evans, Sybex Designing Enterprise Applications with Microsoft Visual Basic .NET, 2003, Robert Lan Oliver, Microsoft Press Visual Basic .NET Power Tools, Evangelos Petroutsos,

Activites			Number	Duration (hour)	Total Work Load (hour)
TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**			
Theoretical			14	2.00	28.00
Practicals/Labs			14	2.00	28.00
Self-study and preperation	0	0.00	14	2.00	28.00
Homeworks			0	0.00	0.00
Project Exam	1	60.00	13	1.00	13.00
Field Studies			0	0.00	0.00
Midterm exams			1	10.00	10.00
Others			0	0.00	0.00
Final Exams			1	13.00	13.00
Total Work Load					130.00
Total work load/ 30 hr					4.00
ECTS Credit of the Course					4.00

Contribution of Term (Year) Learning Activities to Success Grade	40.00	
Contribution of Final Exam to Success Grade	60.00	
Measurement and Evaluation Techniques Used in the Course	Process evaluation will be applied during the period. Test	

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	5	5	4	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	5	5	4	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	4	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	5	4	5	5	0	0	0	0	0	0	0	0	0	0	0	0

ÖK5	4	4	4	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	5	4	4	5	0	0	0	0	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**