

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Professional N	Mathematics 4 8 1						
Course Code		BPR111		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the	ne Course	The aim of this course is to give information about mathematical operations that are used in computer science with basic math knowledge. To gain the competence to apply the mathematical knowledge and skills required for the profession to the work.							
Course Content		Systems, Typ	e Conversions	s, Mathemati	cal Operati	ions on System	s, Function	Systems, Numbe and Matrix topics ystems will be exa	will be
Work Placeme	nt	N/A							
Planned Learning Activities and Teaching Methods			Explanation	(Presenta	tion), Individua	l Study, Pro	blem Solving		
Name of Lectu	rer(s)	Ins. Neslihan	BİLİNMEZ						

Assessment Methods and Criteria						
Method	Quantity	Percentage (%)				
Midterm Examination	1	40				
Final Examination	1	70				

Recommended or Required Reading

1 Mathematics for Schools and Vocational Schools Altın Nokta Publications Gültekin Tınaztepe 2015

Week	Weekly Detailed Course Contents						
1	Theoretical	Historical Development of Basic Computer Systems					
2	Theoretical	Number Systems					
3	Theoretical	Number Systems					
4	Theoretical	Number Systems in Computer Science					
5	Theoretical	Modular Arithmetic					
6	Theoretical	Modular Arithmetic					
7	Theoretical	Binary Number Systems					
8	Theoretical	Hexadecimal Number Systems					
9	Intermediate Exam	Midterm Exam					
10	Theoretical	ASCII Code Table					
11	Theoretical	Mathematical Operations on Number Systems					
12	Theoretical	Mathematical Operations on Number Systems					
13	Theoretical	Functions					
14	Theoretical	matrices					
15	Theoretical	matrices					
16	Final Exam	Final Exam					

Workload Calculation					
Activity	Quantity		Preparation	Duration	Total Workload
Lecture - Theory	14		2	2	56
Assignment	1		6	1	7
Midterm Examination	1		5	1	6
Final Examination	1		5	1	6
	75				
[Total Workload (Hours) / 25*] = ECTS					3
*25 hour workload is accepted as 1 ECTS					

Learning Outcomes

1 To comprehend basic mathematical knowledge



2	To understand the importance of mathematics in computer history				
3	To make applications about number systems in their profession				
4	To examine the usage areas of functions in their profession and make applications				
5	To examine the usage areas of matrices and make applications in their profession				

Programme Outcomes (Computer Programming)						
1	Having knowledge and skills in web project preparation and publishing					
2	Having the knowledge and skills necessary for proper use management of database applications					
3	Having knowledge and skills for software development, testing and installation					
4	Be able to use the hardware necessary for computer programming and solve the basic problems they have with hardware					
5	To be able to use information and communication technologies at the level required by computer programming					
6	To be able to produce solutions to problems encountered in the field					
7	Having the competencies to make job planning in the profession					
8	Communicating with colleagues and clients based on knowledge and skills					
9	Be able to take responsibility as an individual or as a team member and to fulfill the responsibility					
10	To be able to express written and oral expressions related to the study topic					
11	Be able to adapt the winning information to new situations					

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	1	1	1	1 (1
P3	1	1	1	1	1
P4	1	1	1	1	1
P5	2	1	1	1	1
P6	2	4	4	4	4
P7	1	1	1	1	1
P8	2	2	2	2	2
P9	1	1	1	1	1
P10	4	3	3	3	3
P11	4	4	4	4	4

