

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		General Math	ematics I						
Course Code		MAT173		Couse Level		First Cycle (Bachelor's Degree)			
ECTS Credit	5	Workload 127 (Hours)		Theory	3	Practice	0	Laboratory	0
Objectives of the Course		The aim of the course is to give knowledge about relation, function, limit, continuity and derivation in order to construct a basic mathematical structure, and to gain the ability of thinking rationally for solving problems.							
Course Content		Sets and num derivation	bers, line equ	ations in the	e coordinate	system, some	special fun	ctions, limit and co	ntinuity,
Work Placement N/A									
Planned Learning Activities and Teaching Methods			Explanatio	n (Presenta	tion), Discussi	on, Individua	al Study, Problem S	Solving	
Name of Lecturer(s) Ins. Nihal GÜNEL, Lec. Ahn		net ÜNLÜ							

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

Recommended or Required Reading

1	Kenneth A. Ross, Elementary Analysis: The Theory of Calculus, Springer-Verlag(1980)
2	Çoker ., Özer O., Taş K. "Genel Matematik", Cilt 1 (1996)
3	Thomas, G.B. and Finney, R.L.,"Calculus and Analytic Geometry", 9th ed., Addison Wesley, (1998)
4	Prof.Dr.Mustafa Balcı "Genel Matematik I" Balcı Yayınları
5	Doç.Dr.Cevdet Cerit, "Yüksek Matematik I"

Week	Weekly Detailed Course Contents				
1	Theoretical	Sets			
2	Theoretical	Numbers and Functions			
3	Theoretical	Coordinates in plane and line equations			
4	Theoretical	Properties of functions			
5	Theoretical	Limit and its properties			
6	Theoretical	Indeterminate forms at limits(Uncertainty of limits.)			
7	Intermediate Exam	Midterm exam			
8	Theoretical	Continuity			
9	Theoretical	Definition of derivation and derivation rules			
10	Theoretical	Tangent line of a curve			
11	Theoretical	Derivation of Special Functions			
12	Theoretical	Theorems on derivatives			
13	Theoretical	Theorems on derivation and geometrical interpretation of derivation			
14	Theoretical	Problems of maximum and minimum			
15	Theoretical	Graphing a curve			
16	Final Exam	Final Exam			

WORKLOAD CAICULATION					
Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	4	3	98	
Midterm Examination	1	10	2	12	



				Course Information For
Final Examination	1	15	2	17
		Тс	otal Workload (Hours)	127
		[Total Workload (Hours) / 25*] = ECTS	5
*25 hour workload is accepted as 1 ECTS				
Learning Outcomes				

1	Ability to understand definition of sets
2	Ability to draw the line equations in the coordinate system
3	Ability to understand the definition of functions and to understand some special functions
4	Ability to interpret limit and continuity of functions at given points
5	Ability to find derivation of given function at a point