

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title General Mathematics 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. Ahr		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 Cour	se 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 Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	4	3	98
Midterm Examination	1	10	2	12



				Course information Form
Final Examination	1	15	2	17
		Т	otal Workload (Hours)	127
		[Total Workload	(Hours) / 25*] = ECTS	5
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

Lean	ing 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

Programme Outcomes (Nutrition and Dietetics)

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1	Assess, apply and evaluate the accuracy, reliability and validity of basic knowledge and evidence based current scientific developments on nutrition and dietetics.
2	Assess scientifically the energy and nutrients need of individuals and develop nutrition plans and programs for the clients according to the principles of adequate and balanced nutrition and assessment of energy and nutrient requirements
3	Develop food and nutrition plans and policies for the prevention and promotion of healthy lifestyle applying the methods of nutritional assessment for the population.
4	Assess the nutritional status of the patients, evaluate the clinical symptoms, plan and apply individualized medical nutrition therapy for the patients.
5	Evaluate the factors affecting the quality of food consumed by the individuals and populations from production to consumption and implement the legal standards and legislations on food safety and food security.
6	Consider, interpret and apply the basic scientific knowledge on nutrition and dietetics especially have skills on critical thinking, problem solving and decision making and use effectively the appropriate current technologies and computer, demonstrate skills in preparing research manuscripts, project proposals, collecting and verifying data and writing report.
7	Assess, evaluate and interpret the nutritional status of the individuals and population groups using current knowledge, develop preventive measures, apply medical nutrition therapy, demonstrate active participation, teamwork and contributions with national and international stakeholders in health and social areas, in terms of ethical principles.
8	Plan menus in the institutional food service systems depending on the energy and nutrient requirements of target groups in the scope of nutrition and dietetic principles, take care of food safety in all settings from purchase of food to service, apply appropriate service using technological developments.
9	Develop and use effective strategies for the education, counseling and encouragement of individuals and population groups to facilitate behavior change and choose healthy and safety foods, prepare and update the related educational materials.
10	Apply laboratory work on product development, food analysis and related factors effecting food quality and interpret the results and evaluate them according to the legal arrangements.
11	Plan, manage, evaluate, monitor and report researches and programs to educate and increase and improve the knowledge and awareness of individuals and population groups on healthy nutrition during all lifecycle period, and lead such activities, support and take role in the preparation and implementation of national and international food and nutrition plans and policies.
12	Work and perform duties in the scope of occupational responsibilities and ethical principles, understand the importance of lifelong learning, follow the latest developments (innovations) in science, technology and health, demonstrate professional attributes for the enhancement of nutrition and dietetics profession.
13	Use, apply, discuss and share scientific and evidence based knowledge in nutrition and dietetics practice with team and team members, develop and demonstrate effective skills using oral, print, visual methods in communicating and expressing thoughts and ideas, communicate with all stakeholders within ethical principles. Develop and demonstrate effective communications skills using oral, print, visual, electronic and mass media methods
14	Plan, apply, monitor and evaluate individualized medical nutrition therapy within interdisciplinary approaches, considering the sociocultural, economical status of patients in various age groups and also contribute to clinical researches.

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

	0						
	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	1	1	1	1	1		
P6	1	1	1	1	1		
P7	1	1	1	1	1		
P8	1	1	1	1	1		
P9	1	1	1	1	1		
P10	1	1	1	1	1		



P11	1	1	1	1	1
P12	1	1	1	1	1
P13	1	1	1	1	1
P14	1	1	1	1	1

