

YAŞAR UNIVERSITY FACULTY OF ECONOMICS AND ADMINISTRATIVE SCIENCES BUSINESS ADMINISTRATION DEPARTMENT COURSE SYLLABUS

Course Title	Course Code	Semester		urse / Week	Local Credit	ECTS
CALCULUS FOR BUSINESS & ECONOMICS II	MATH 104	Spring	Theory 3	Practice 0	3	6
Course Type		Compulsory				
Language of Instruction		English				
Level of Course		Bachelor's Degree				
Mode of Delivery		Face to Face				
Prerequisites Course(s) (compulsory)	N/A					
Special Pre-Conditions of the Course(recommended)		N/A				
	Course (Cordinator				
Name Surname						
Assist. Prof. Dr. Esra DALAN YILDIRIM						
	Course In	structor(s)				
Name Surname						
Prof. Dr. Şaban EREN, Prof. Dr. Mehmet TERZILER, Assist. Prof.	Dr. şahlar MEHERRE	M, Assist. Prof. Dr	. Esra Dalan YIL	DIRIM, Assist. Pr	of. Dr. Sule AYAR	ÖZBAL
	Course Assist	ant(s)/Tutor(s)				
Name Surname						
	Aim(s)	of Course				
The aim of this course is to provide a logical and systematic fra	mework in which qu	antitative relations	can be studied.			
	Course	Content				
Related rates, Elasticity of demand, First and second derivatives, optimization, applications in business and economics, antiderivatives and indefinite integrals, definite integrals, integration methods, functions of several variables, partial derivatives and double integrals over rectangular regions.						
	Learning Outcor	nes of the Cour	se			
		aladaa Aha Calla				

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences:

C01 To develop skills for expressing very compactly the long verbal definitions of the theory related to business and economics.

C02 To associate mathematical models with the phenomena.

C03 To construct mathematical models for business and economic problems for arriving valid conclusions.

C04 To interpret conclusions by using mathematical techniques for the solution of the model.

COURSE OUTLINE/SCHEDULE (Weekly)				
Week	Торіс	Preliminary Preparation	Methodology and Implementation(Theory, practice, assignment etc.)	
1	Implicit Differentiation, Related rates		Theory and practice	
2	Elasticity of demand		Theory and practice	
3	First and second derivatives and graphs		Theory and practice	
4	L'Hopital's Rule		Theory and practice	
5	Optimization		Theory and practice	
5	Antiderivatives and Indefinite Integrals		Theory and practice	
7	Integration by substitution		Theory and practice	
3	The definite integrals		Theory and practice	
)	Area between curves		Theory and practice	
0	Applications in Business and Economics		Theory and practice	
1	Integration by parts		Theory and practice	
12	Other Integration methods		Theory and practice	
13	Functions of several variables		Theory and practice	
14	Partial derivatives		Theory and practice	
15	Final Exam		Written exam	

Required Course Material(s)/Reading(s)/Text Book(s)

1. R. A. Barnett, M.R. Ziegler and K.E.Byleen, Calculus For Business, Economics, Life Sciences, and Social Sciences, Pearson Global Edition, ISBN 13: 978-1-292-06228-0 (2015) 2. H. Bradley, Calculus For Business, Economics, Social and Life Sciences, McGraw-Hill International Edition, ISBN-13: 978- 0- 07- 351287- 7(2007)

ASSESSMENT			
Semester Activities/ Studies		Number	WEIGHT in %
Mid-Term		1	40
Attendance		14	0
Quiz		2	10
Homework		0	0
Project		0	0
Field Studies(Technical Visits)		0	0
Presentation/Seminar		0	0
Practice(Lab., Virtual Court,Stu. Studies etc.)		0	0
Other (Intership etc.)		0	0
Course Teaching Hours(14 weeks)Total course hours		0	0
Further self-study		0	0
Contribution of final Examination and Final Project		1	50
	TOTAL	19	100

		ECTS /STUDENT WORKLOAD				
NUMBER	HOUR	Total WorkLoad				
1	15	10				
14	0	0				
2	5	10				
0	0	10				
0	0	0				
0	0	0				
0	0	0				
0	0	0				
0	0	0				
14	3	42				
14	4	56				
1	20	15				
		143				
	1 14 2 0 0 0 0 0 0 0 0 14	1 15 14 0 2 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 14 3 14 4				

Total Workload/ 25	5,72
ECTS	5,72

ASSESSMENT and EVALUATION METHODS

Final grades and assessment criteria are determined according to the Yaşar University Associate Degree, Bachelor Degree and Graduate Degree Education and Examination Regulation.

STUDENT WITH DISABILITIES OR SPECIAL NEEDS

Students with disabilities or special needs are encouraged to contact the instructor and the Unit for Student with Disabilities (http://eob.yasar.edu.tr/) for academic adaptations.