ÇANKAYA UNIVERSITY
Faculty of Economics and Administrative Sciences
Course Definition Form

Part I. Basic Course Information

Department Name	BANKING AND FINANCE					**Dept. Numeric Code**	3 5
Course Code	B A F 1 0 2	**Number of Weekly Lecture Hours**	3	**Number of Weekly Lab/Tutorial Hours**	0	**Number of Credit Hours**	3
Course Web Site	http:// bf.cankaya.edu.tr					**ECTS Credit**	0 4

Course Name *This information will appear in the printed catalogs and on the web online catalog.*	
English Name	Graphical Analysis
Turkish Name	Grafiksel Analiz
Mode of Delivery	Face to face
Language of Instruction	English

Course Description
Provide a brief overview of what is covered during the semester. This information will appear in the printed catalogs and on the web online catalog. Maximum 60 words.

This course is designed to build a basic background for the students in working with graphs which will provide a basis to support other courses provided by the program during the upcoming semesters through concentrating on topics as, histograms, charts and trends , plotting, interpreting and analyzing linear and quadratic models including basic curves, gradients, simultaneous equations and linear inequalities, types of functions and their linkage with financial data.

Prerequisites (if any) *Give course codes and check all that are applicable.*	1st	2nd	3rd	4th
	☐ Consent of the Instructor	☐ Senior Standing	☐ Give others, if any.	
Co-requisites (if any)	1st	2nd	3rd	4th
Course Type *Check all that are applicable*	■ Must course for dept.	☐ Must course for other dept.(s)	☐ Elective course for dept.	■ Elective course for other dept.(s)

Course Classification *Give the appropriate percentage for each category.*					
Category					
Percentage					

Part II. Detailed Course Information

Course Objectives
Maximum 100 words.

This course is aimed to equip the students with the basic understanding of working with graphs by focusing on topics as, histograms, charts and trends as well as plotting, interpreting and analyzing linear and quadratic models including basic curves, gradients, simultaneous equations and linear inequalities. Notions regarding maxima and minima, types of functions and their linkage to financial data will also be mentioned.

Learning Outcomes
Explain the learning outcomes of the course. Maximum 10 items.

After successfully completing this course, the students will be able to:

1. understand the basics of graphs
2. plot equations
3. find the equations of basic graphs
4. analyze linear and quadratic graphs
5. work with histograms, charts and trends
6. continuity and derivatives
7. Trends, seasonality, least squares estimation

Textbook(s)
List the textbook(s), if any, and other related main course material.

Author(s)	Title	Publisher	Publication Year	ISBN
David Lippman, Melonie Rasmussen	Precalculus – An Investigation of Functions		2003	

Reference Books
List, if any, other reference books to be used as supplementary material.

Author(s)	Title	Publisher	Publication Year	ISBN

Teaching Policy
Explain how you will organize the course (lectures, laboratories, tutorials, studio work, seminars, etc.)

The course will mainly base on lectures accompanied with exercises.

Laboratory/Studio Work
Give the number of laboratory/studio hours required per week, if any, to do supervised laboratory/studio work and list the names of the laboratories/studios in which these sessions will be conducted.

Computer Usage
Briefly describe the computer usage and the hardware/software requirements for the course.

Course Outline
List the weekly topics to be covered.

Week	Topic(s)
1	Introduction to Functions
2	Linear Functions
3	Polynomial and Rational Functions
4	Exponential and Logarithmic Functions
5	Trigonometric Functions
6	Trigonometric Functions (continued)
7	Midterm Week
8	Inverse Trigonometric Functions
9	Linear Least Squares Estimation
10	Non Linear Least Squares Estimation
11	Linear Interpolation
12	Spline Interpolation
13	Lagrange Polynomials
14	Taylor Expansion of Functions

Grading Policy
List the assessment tools and their percentages that may give an idea about their relative importance to the end-of-semester grade.

Assessment Tool	Quantity	Percentage	Assessment Tool	Quantity	Percentage	Assessment Tool	Quantity	Percentage
Homework			Case Study			Attendance		
Quiz(es)			Lab Work			Field Study		
Midterm Exam	1	40	Classroom Participation	42	10	Project		
Term Paper			Oral Presentation			Final Exam	1	50

ECTS Workload
List all the activities considered under the ECTS.

Activity	Quantity	Duration (hours)	Total Workload (hours)
Attending Lectures (*weekly basis*)	14	3	42
Attending Labs/Recitations (*weekly basis*)			
Compilation and finalization of course/lecture notes (*weekly basis*)	14	1	14
Collection and selection of relevant material (*once*)	1	1	1
Self study of relevant material (*weekly basis*)	14	1	14
Take-home assignments			
Preparation for quizzes			
Preparation for mid-term exams (*including the duration of the exams*)	1	8	14
Preparation of term paper/case-study report (*including oral presentation*)			
Preparation of term project/field study report (*including oral presentation*)			
Preparation for final exam (*including the duration of the exam*)	1	8	15
		TOTAL WORKLOAD / 25	100/25=4
		ECTS Credit	**4**

Total Workloads are calculated automatically by formulas. To update all the formulas in the document first press CTRL+A and then press F9.

Program Qualifications vs. Learning Outcomes *Consider the program qualifications given below as determined in terms of learning outcomes and acquisition of capabilities for all the courses in the curriculum. Look at the learning outcomes of this course given above. Relate these two using the Likert Scale by marking with X in one of the five choices at the right.*

No	Program Qualifications	Contribution				
		0	1	2	3	4
BAF-1	Be able to monitor and analyze the dynamics of banking and financial markets.				X	
BAF-2	Be able to utilize the basic knowledge that obtained with an interdisciplinary approach to business, economics, etc. in creating expertise in the fields of Banking and Finance in accordance with the requirements of the globalized business environment.			X		
BAF-3	Be able to identify and analyze the validity of theories related to the banking and finance and their relationships regarding current conditions.		X			
BAF-4	Have a good knowledge of the regulations and legislation underpinning the financial markets and institutions.	X				
BAF-5	Have the ability to efficiently perform all responsibilities of managerial finance within a corporation.		X			
BAF-6	Be able to use quantitative techniques and methods that are predominantly used in banking and finance.				X	
BAF-7	Be able to use the theoretical and practical knowledge obtained in his/her field in analyzing and evaluating data.					X
BAF-8	Be able to construct, analyze and interpret financial and economic models					X
BAF-9	Be able to understand and evaluate the problems in baking and finance and to discuss and express his/her opinions clearly.		X			
BAF-10	Gain self-evaluation skills to identify exactly his/her self-learning and self-improvement needs, being at the same time equipped with the capacity to follow advanced courses and degree studies.					X
BAF-11	To maintain scientific, social, and ethical standards when collecting, interpreting, and disseminating financial information, and in application of financial ideas.					X

Scale for contribution to a qualification: **0**-none, **1**-little, **2**-moderate, **3**-considerable, **4**-highest