ÇANKAYA UNIVERSITY
Faculty of Economics and Administrative Sciences
Course Definition Form

Part I. Basic Course Information

Department Name	ECONOMICS					Dept. Numeric Code	3	1
Course Code	E C O N 1 0 4	Number of Weekly Lecture Hours	1	Number of Weekly Lab/Tutorial Hours	2	Number of Credit Hours	2	
Course Web Site						ECTS Credit	0	5

Course Name and Other Course Information	
This information will appear in the printed catalogs and on the web online catalog.	
English Name	ANALYSIS OF ECONOMIC AND FINANCIAL DATA
Turkish Name	İKTİSADİ VE FİNANSAL VERİ ANALİZİ
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 provides an introductory understanding of elementary mathematical, graphical and statistical empirical tools to analyze basic properties of economic data. The course covers; data types (time, series, cross section, panel data, data frequency), graphical representation of data, frequency tables, measures of central tendency, measures of dispersion, economic policy change and change in data generating mechanism, stochastic and deterministic trend (seasonality), probability and probability distributions.

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)

Part II. Detailed Course Information

Course Objectives	2/4
Maximum 100 words.	

The course aims to provide elementary mathematical, graphical and statistical tools to uncover underlying patterns in economic data. Students will be capable of examining data using appropriate graphics and statistical tools; explaining the implications of the measures of central tendency and measures of dispersion; observing and explaining the effects of economic policy change on real life economic variables; forming frequency tables; probability and probability distributions, sampling, sampling distributions, point and interval estimation.

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

Upon completion of this course, students should be able to:
1. have a knowledge of real life economic data types, data frequencies, trend and seasonality in the data
2. construct frequency tables
3. compute measures of central tendency and elaborate on their values
4. compute measures of dispersion and elaborate on their implications
5. solve basic probability problems using appropriate distributions
6. discuss the different sampling methods in distinct cases
7. estimate point estimators for population parameters
8. estimate interval estimators for population parameters

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

Author(s)	Title	Publisher	Publication Year	ISBN
Eric J. Craig	Statistics and Data Analysis for Social Science	Allyn Bacon	2012	
Garry Koop	Analysis of Economic Data	Wiley	2009	
Newbold, Carlson &Thorne	Stat for Bus. Economics	Pearson	2010	

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.)

Theory: 2 hour lectures per week

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.

One hour computer application every week.

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

Assignments: elementary statistical analysis with real life data. Eviews (Econometrics Views) and excel are required

Course Outline
List the weekly topics to be covered.

Week	Topic(s)
1	Data Types & Graphical tools to examine alternative data types
2	Introduction to Functions: Linear Functions & Graphs
3	Polynomial and Rational Functions & Graphs
4	Exponential and Logarithmic Functions & Graphs
5	Trigonometric Functions & Graphs
6	Measures of Dispersion
7	Midterm Exam
8	Measures of central tendency
9	Frequency tables: graphs, presentation
10	Interpolation of Data
11	Seasonality and Trends analysis
12	Introduction to Probability Theory
13	Sampling methods and Distributions
14	Point estimation and Interval Estimation

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
Mid Term Exam	1	30%						
Final Exam	1	50%						
Assignment	4	20%						

ECTS Workload
List all the activities considered under the ECTS.

Activity	Quantity	Duration (hours)	Total Workload (hours)
Attending Lectures (*weekly basis*)	14	2	28
Attending Labs/Recitations (*weekly basis*)	14	1	14
Compilation and finalization of course/lecture notes (*weekly basis*)	14	1	14
Collection and selection of relevant material (*once*)	1	2	2
Self study of relevant material (*weekly basis*)	14	2	28
Take-home assignments	4	5	20
Preparation for quizzes	-	-	-
Preparation for mid-term exams (*including the duration of the exams*)	1	10	10
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	15	15
TOTAL WORKLOAD **/** 25			131/25
ECTS Credit			**5**

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
1	To know the fundamental concepts in economics and associated social sciences, and relate these concepts to each other.					
2	To know the quantitative and qualitative methods and computer skills necessary for testing hypotheses derived from economic theories for the purpose of contributing towards the solution of economic problems.					X
3	To acquire the necessary knowledge for gathering and processing data, and for building up the scientific research capacity to guide economic policy.					X
4	To specialize in some of the sub-disciplines of economics, and to gain interdisciplinary analytical skills by making connections between those sub-disciplines and other social sciences.					X
5	To have the ability to question, interpret, and analyze the findings of economic studies.					X
6	To develop the ability to present in writing as a report and verbally as a presentation the knowledge acquired through education.					
7	To be able to work in teams, and when necessary to rise up to the challenge individually.				X	
8	To gain life-long learning and critical-thinking skills.				X	
9	To be able to assess one's need for advanced study and to make plans accordingly by using the critical and analytical thinking skills gained during undergraduate studies.				X	
10	To gain the ability to use a language at least at the Level B1 of the European Language Portfolio to follow economic news and developments, and to communicate with colleagues.					
11	To maintain scientific, social, and ethical standards when collecting, interpreting, and disseminating economic information, and in application of economic ideas.					X
12	To be conscious of social and environmental needs.					
13	To develop an open-minded attitude towards new ideas and developments.				X	
14	To relate the knowledge gained through education to the cultural and historical characteristics of the society.					

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