

ÇANKAYA UNIVERSITYFaculty of Economics and Administrative Sciences

Course Definition Form

Part I. Basic Course Information

Department Name	BANKING AND FINANC	E			Dep	t. Numeric Code	3 5
Course Code	B A F 3 0 9	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				ECT	S Credit	0 6

	and Other Course Information will appear in the printed catalogs and on the web online catalog.
English Name	Financial Econometrics I
Turkish Name	Finansal Ekonometri I
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.

The course will introduce undergraduate students to the main theoretical frameworks employed in research financial econometrics and discuss the empirical evidence on these theories. We will review the Maximum Likelihood Estimation, Univariate Time Series and Applications to Finance, Modelling Volatility – Conditional Heteroscedastic Models, Modelling Volatility and Correlations – Multivariate GARCH Models, Vector Autoregressive Models, Limited Dependent Variable Models.

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

Part II. Detailed Course Information

Course Objectives

Maximum 100 words.

First of all our course seeks to bridge the gap between the typical financial econometrics courses and the more advanced courses which are given at the graduate level. Therefore, we enhanced the theoretical background of the students by giving them newly established theoretical models in the field of financial econometrics. Secondly, the level of abstraction and analytical sophistication of these models are very extensive that creates problems for student to understand intuition behind these theories. By using simple version of these models we prepare students for more advance settings of financial econometrics models. Finally, these models are not included in most of the undergraduate programs by introducing the simple version of these models; we are filling the gap of our students in this field.

Learning Outcomes

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

Familiarize the students with concepts; Maximum Likelihood Estimation, Univariate Time Series and Applications to Finance, Modelling Volatility – Conditional Heteroscedastic Models, Modelling Volatility and Correlations – Multivariate GARCH Models, Vector Autoregressive Models, Limited Dependent Variable Models.

Textbook(s) List the textbook(s), if any, and	other related main course material.			
Author(s)	Title	Publisher Publication Year ISE		ISBN
Chris Brooks	Introductory Econometrics for Finance.	Cambridge University Press	2008	ISBN-13: 9780521694681

Reference Books List, if any, other reference boo	ks 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.)

There will be one mid-term examination and two or three quizzes which are counted as class participation. In addition to these responsibilities, the students who are taking this class are responsible from homework.

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 Statistical Properties of Financial Returns 2 Matrix Algebra, Regression and Applications in Finance 3 Matrix Algebra, Regression and Applications in Finance Maximum Likelihood Estimation 4 5 Maximum Likelihood Estimation 6 Univariate Time Series and Applications to Finance 7 Midterm Week 8 Modelling Volatility - Conditional Heteroscedastic Models 9 Modelling Volatility - Conditional Heteroscedastic Models 10 Modelling Volatility and Correlations - Multivariate GARCH Models 11 Modelling Volatility and Correlations - Multivariate GARCH Models 12 Vector Autoregressive Models 13 Vector Autoregressive Models 14 Limited Dependent Variable Models

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
Quiz	3	%10						
Homework	2	%10						
Midterm	1	%35						
Final Exam	1	%45						

Activity	Quantity	Duration (hours)	Total Workload (hours)
Attending Lectures (weekly basis)	14	3	42
Attending Labs/Recitations (weekly basis)	14	-	-
Preparation beforehand and finalizing of notes (weekly basis)	14	1	14
Collection and selection of relevant material (once)	1	3	3
Self study of relevant material (weekly basis)	14	2	28
Homework assignments	2	6	12
Preparation for Quizzes	3	2	6
Preparation for Midterm Exams (including the duration of the exams)	1	14	14
Preparation of Term Paper/Case Study Report (including oral presentation)	1	5	5
Preparation of Term Project/Field Study Report (including oral presentation)	1	6	6
Preparation for Final Exam (including the duration of the exam)	1	20	20
	TOTAL V	VORKLOAD / 25	150/25=6
		ECTS Credit	30

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.	No Program Qualifications		Coi	ntribu	tion	
110	1 Togram Quantoutons	0	1	2	3	4
BAF-1	Be able to monitor and analyze the dynamics of banking and financial markets.				х	
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.		х			
BAF-3	Be able to identify and analyze the validity of theories related to the banking and finance and their relationships regarding current conditions.			х		
BAF-4	Have a good knowledge of the regulations and legislation underpinning the financial markets and institutions.			х		
BAF-5	Have the ability to efficiently perform all responsibilities of managerial finance within a corporation.					х
BAF-6	Be able to use quantitative techniques and methods that are predominantly used in banking and finance.				х	
BAF-7	Be able to use the theoretical and practical knowledge obtained in his/her field in analyzing and evaluating data.				Х	
BAF-8	Be able to construct, analyze and interpret financial and economic models				х	
BAF-9	Be able to understand and evaluate the problems in baking and finance and to discuss and express his/her opinions clearly.			х		
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.			х		
BAF-11	To maintain scientific, social, and ethical standards when collecting, interpreting, and disseminating financial information, and in application of financial ideas.				х	

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