



# ÇANKAYA UNIVERSITY

## Faculty of Economics and Administrative Sciences

### Course Definition Form

#### Part I. Basic Course Information

<b>Department Name</b>	ECONOMICS	<b>Dept. Numeric Code</b>	3 1
<b>Course Code</b>	E C O N 4 2 8	<b>Number of Weekly Lecture Hours</b>	3
		<b>Number of Weekly Lab/Tutorial Hours</b>	0
		<b>Number of Credit Hours</b>	3
<b>Course Web Site</b>	http:// econ428.cankaya.edu.tr		<b>ECTS Credit</b>
			0 5

#### Course Name and Other Course Information

*This information will appear in the printed catalogs and on the web online catalog.*

<b>English Name</b>	Economics of Innovation and Knowledge
<b>Turkish Name</b>	İnovasyon ve Bilgi Ekonomisi
<b>Mode of Delivery</b>	Face to face
<b>Language of Instruction</b>	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.*

Introduction to the economic analysis of knowledge and innovation, covering the creation and diffusion of knowledge, its role in the economic growth of nations, the effects of technological change on policy and the distribution of income, and other policy issues, i.e. methods for promoting innovation, such as prizes, intellectual property, and contests.

<b>Prerequisites</b> (if any) <i>Give course codes and check all that are applicable.</i>	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>
	<input type="checkbox"/> Consent of the Instructor	<input type="checkbox"/> Senior Standing	<input type="checkbox"/> Give others, if any	
<b>Co-requisites</b> (if any)	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>
<b>Course Type</b> <i>Check all that are applicable</i>	<input type="checkbox"/> Must course for dept. <input type="checkbox"/> Must course for other dept.(s) <input checked="" type="checkbox"/> Elective course for dept. <input type="checkbox"/> Elective course for other dept.(s)			

**Part II. Detailed Course Information****Course Objectives***Maximum 100 words.*

The course aims to elaborate students' understanding of the major role played by knowledge and innovation in contemporary economies' growth and competitiveness, at country, region and firm levels so as to enable them critically analyze global and domestic standing/policies and to mobilize innovation for economic/social problem solving at different levels.

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

Upon successful completion of this course, students should be able to:

1. Explain the process of scientific and technological innovation; the economic mechanisms at work during the production of innovation and knowledge, and their adoption by the rest of the society; the role of scientific and technological advancement in shaping economic and social outcomes.
2. Explain the mainstream theories and empirical methods for analyzing the economics of innovation
3. Describe the main models for the measurement and promotion of knowledge
4. Evaluate current policies being undertaken at the national and international levels to bolster innovation
5. Use existing data of knowledge creation and knowledge transfer in empirical works to prescribe policy.

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

Author(s)	Title	Publisher	Publication Year	ISBN
Suzanne Scotchmer	Innovation and Incentives	MIT Press	2004	9780262195157
Dominique Foray	The Economics of Knowledge	MIT Press	2004	9780262062398
Chris Freeman and Luc Soete	The Economics of Industrial Innovation	MIT Press	1997	9780262561136

**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 main method of teaching will be interactive lecture and class discussion. Other methods include the discussion of relevant current events, journal and newspaper articles that provide examples and insight into issues relating to innovation and technology.

**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.*

NA

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

NA

<b>Course Outline</b> <i>List the weekly topics to be covered.</i>	
Week	Topic(s)
1	Introduction
2	Ideas, Innovation and Economic Growth
3	The Nature of Knowledge and Innovation
4	Innovation and Institutions: A Brief History
5	Incentives: Public and Private Mechanisms
6	Measuring and Evaluating Innovation
7	Midterm Exam
8	Production of Knowledge
9	Reproduction of Knowledge
10	Knowledge Spillovers
11	Intellectual Property Rights in the Knowledge Economy
12	The Public Dimension of the Knowledge Economy
13	Policy Issues
14	Policy Issues (continued)

<b>Grading Policy</b> <i>List the assessment tools and their percentages that may give an idea about their relative importance to the end-of-semester grade.</i>								
Assessment Tool	Quantity	Percentage	Assessment Tool	Quantity	Percentage	Assessment Tool	Quantity	Percentage
Midterm Exam	1	35						
Final exam	1	45						
Term Project	1	20						

<b>ECTS Workload</b> <i>List all the activities considered under the ECTS.</i>			
Activity	Quantity	Duration (hours)	Total Workload (hours)
Attending Lectures ( <i>weekly basis</i> )	14	3	42
Attending Labs/Recitations ( <i>weekly basis</i> )	-	-	-
Compilation and finalization of course/lecture notes ( <i>weekly basis</i> )	14	1	14
Collection and selection of relevant material ( <i>once</i> )	1	1	1
Self study of relevant material ( <i>weekly basis</i> )	14	2	28
Take-home assignments	-	-	-
Preparation for quizzes	-	-	-
Preparation for mid-term exams ( <i>including the duration of the exams</i> )	1	10	10
Preparation of term paper/case-study report ( <i>including oral presentation</i> )	1	15	15
Preparation of term project/field study report ( <i>including oral presentation</i> )	-	-	-
Preparation for final exam ( <i>including the duration of the exam</i> )	1	15	15
<b>TOTAL WORKLOAD / 25</b>			125/25= 5
<b>ECTS Credit</b>			<b>5</b>

**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.					X
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.					X
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.					X
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.			X		
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.			X		

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