

	ANTALYA BILIM UNIVERSITY FACULTY OF ECONOMICS, ADMINISTRATIVE AND SOCIAL SCIENCES	SYLLABUS
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Course Name: Technology, Innovation and Entrepreneurship				Degree: Bachelor		
Code	Year/Semester	Local Credits	ECTS Credits	Course Implementation, Hours/Week		
				Course	Tutorial	Laboratory
ECON 3181	2024-25, Spring	3	5	3	-	-
Department		Economics				
Instructors		Prof. Dr. M. Ufuk TUTAN				
Contact Information		e-mail: ufuk.tutan@antalya.edu.tr				
Office Hours		Thursday, 12.00 – 13.00 at the Office; appointment by e-mail.				
Web page						
Course Type		Elective		Course Language	English	
Course Prerequisites						
Course Description		In this course description, we will state that historical-descriptive areas of research, innovation, and invention in the waves of technical change. We will clarify that Schumpeter’s theories on technical and technological changes and many contemporary theories of innovation in relation to firm behaviour.				
Course Objectives		1. We will study some remarkable theories of technology, innovation, invention, and development in economics. 2.We will clarify Schumpeter’s theories on perspectives of technical and technological changes and many contemporary theories of innovation in relation to firm behaviours. 3.After discussing theoretical structure of economics of technology, we will focus on the historical experience of the leading industrialized countries during the last two centuries, and 4. We will study technological development of some industrial sectors of those countries.				
Course Learning Outcomes		I. Define the position and importance of technology, innovation, and invention within economic. II. Explain historical-descriptive areas of research, innovation, and invention in the waves of technical change. III. Define the Schumpeter’s theories on technical and technological changes. IV. Conceptualize some remarkable theories of technology, innovation, and invention on economics. V. Clarify many contemporary theories of innovation in relation to firm behaviour				
Instructional Methods and Techniques		The presentation of theories and applications; preparing projects by students				
Tutorial Date and Place		Wednesday, 09.00 – 11.50, A2-11/12 Classroom				
Textbook		The Economics of Industrial Revolution, Chris Freeman and Luc Soete 3rd Ed. Cassel, London, 1997 Yenilik İktisadı, Chris Freeman and Luc Soete, Trans. Ergün Türkcan, Tübitak, Ankara, 2003				
Other References		Betz, Frederick, Managing Technological Innovation: Competitive Advantage from Change Wiley-Interscience; 3rd edition Betz, Frederick, “Teknolojik Yenilik Yönetimi”.Tübitak, Ankara, 2010				
Exams, Presentation, Homework & Projects		Exams: There will be one midterm exam (30%), one presentation and one report of the presentation (%5+ %5= %10), and one final exam (60%). No makeup exams will be given, unless there are some valid and genuine reasons (which must be documented) to miss the midterm and the final. The exams aim at assessing various dimensions of learning: knowledge of concepts and theories and the ability to apply this knowledge to real world phenomenon, through analyzing the situation, distinguishing problems and by suggesting solutions. The written exams can be of two types, i.e. open-ended				

	<p>questions, which can also be in the form of problems or multiple-choice questions.</p> <p>Presentation: Students are required to prepare presentation on topics indicated below related to innovations or inventions: 1)Introduce a technological breakthrough in history 2)Introduce a technological breakthrough of a nation-state after the late 18th century 3)Introduce a nation state's strategy for technological breakthroughs</p> <p>The following are the timetable and the general guidelines for presentations and the executive summary reports for presentations: One specific presentation topic proposal should be selected as a team with two members and be posted to the instructor. The proposal should be approved by the instructor by the end of the fourth week of the semester. Presentations will start after the mid-term exam. Time schedule will be announced before presentations. Each student with his/her team members will separately present his/her part of the presentation during lecture hours. Each student should send both presentation (in pdf file format) of his/her part of the presentation and one page-executive summary report (in pdf file format) of his/her part of the presentation to the instructor's e mail indicated above within one day after the presentation is held on. Without presentation, the instructor will not accept his/her part of the presentation and one page-executive summary report and will not grade his/her part of the presentation and the report of the presentation.</p> <p>Time-table of preparation for presentation process:</p> <ul style="list-style-type: none"> • Each student will decide on a specific topic which is related to the main topic proposed as a team and will send the proposal to the instructor. • The topic proposal should be approved by the instructor by the end of the fourth week of the semester. • Time schedule of presentations will be announced. Presentations will start after the mid-term exam. • PowerPoint or similar software programs are needed for presentations. Bringing all equipment, including computers, for presentation is the responsibility of students. • During lecture time, each student of a team will present his/her part of the presentation proposed by the team. • After the presentation is held on, students should separately send both his/her part of the presentation and one page-executive summary report of his/her part of the presentation to the instructor's e-mail indicated above within one day after the presentation. • Without presentation, the instructor will not accept and grade the report of the presentation. <p>The Department of Economics does not tolerate any act of academic dishonesty. Examinations are individual and must be completed without any outside assistance. Students who attempt to cheat during exams will receive a failing grade from that exam. The case could also be carried to the Dean's Office for additional disciplinary action.</p>
Laboratory Work	---
Computer Use	---
Other Activities	---

Week	Topic
1	Schumpeter's Theories
2	Schumpeter's Theories
3	Theories of Entrepreneurship
4	Theories of Entrepreneurship
5	Entrepreneurship in Small Business and Family Firms: Strategic Management- Instructor Handouts
6	Chapters 1-2 The Rise of Science-related Technology- Industrial Revolution
7	Chapters 3-4-5 The Age of Electricity and Steel-Innovations in Oil and Chemicals-Synthetic Materials
8	Midterm Exam
9	Chapter 6 Mass Production and the Automobile / Presentations

10	Chapter 7 Electronics and Computers / Presentations
11	Chapters 8-9 Success and Failure in Industrial Innovation-Innovation and Size of Firms. Chapter 11 Innovation and the Strategy of Firms / Presentations
12	Chapter 12 National systems of innovation / Presentations
13	Chapter 13 Technology and economic growth / Presentations
14	Chapter 14 Innovation and international trade performance -- Chapter 15 Development and the diffusion of technology / Presentations
15	General Review

Assessment Criteria	Activities	Quantity	Method	Effects on Grading, %
	Attendance			
	Midterm	1		30
	Quiz			
	Homework			
	Term Paper/Project			
	Laboratory Work			
	Practices			
	Tutorial			
	Seminar			
	Presentation and Report	1		10
	Field Study			
	Final Exam	1		60
	TOTAL			100
	Effects of in term studies on grading, %			40
	Effects of final on grading, %			60
	TOTAL			100

ECTS/ WORKLOAD TABLE	Activities	Count	Hours	Total Workload
	Lecture	14	3	42
	Midterm	1	30	30
	Quiz			
	Homework			
	Term Paper/Project			
	Laboratory Work			
	Practices			
	Tutorial			
	Seminar			
	Presentation	1	10	10
	Field Study			
	Final Exam	1	50	50
	Total Workload			132
	Total Workload/25			132/25
	Course ECTS Credits			5

This syllabus is subject to change during the semester.

<i>Prepared by</i> Prof. Dr. M. Ufuk Tutan	<i>Date</i> 03.02.2025	<i>Signature</i>
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