Business Administration (English)			
Bachelor	TR-NQF-HE: Level 6	QF-EHEA: First Cycle	EQF-LLL: Level 6

Course Introduction and Application Information

Course Code:	UNI245
Course Name:	Economics of Technology & Innovation
Semester:	Fall
Course Credits:	ECTS 5
Language of instruction:	English
Course Condition:	
Does the Course Require Work Experience?:	No
Type of course:	University Elective
Course Level:	Bachelor / TR-NQF-HE:6. Master`s Degree / QF-EHEA:First Cycle / EQF-LLL:6. Master`s Degree
Mode of Delivery:	Face to face
Course Coordinator:	Doç. Dr. AYFER USTABAŞ
Course Lecturer(s):	
Course Assistants:	

Course Objective and Content

Course Objectives:	The aim of the course is to provide students with a general comprehension about the crucial impacts of technical and technological progresses on economic development.
Course Content:	Innovations and inventions in the waves of technical change, Schumpeter's theories on technical and technological changes, contemporary theories of innovation in relation to firm behaviour.

Learning Outcomes

The students who have succeeded in this course;

1) Comprehend the crucial impacts of technical and technological progresses on economic development.

2) Have a comprehensive knowledge of Schumpeter's theories.

3) Learn the difference between inveentions and inovations.

4) Learn the modern theories on the economics of technology.

Course Flow Plan

Week	Subject	Related Preparation
1)	Schumpeter's Theories	
2)	Schumpeter's Theories	
3)	Theories of Entrepreneurship	
4)	Theories of Entrepreneurship	
5)	The Rise of Technology, Industrial Revolution	
6)	The Age of Electricity, Innovations in Oil and Chemicals-Synthetic Materials	
7)	Mass Production and Automobile	
8)	MIDTERM	
9)	Electronics and Computers	
10)	Success and Failure in Industrial Innovation	
11)	Innovation and Firm Strategies	
12)	National Systems of Innovation	
13)	Technology and Economic Growth	
14)	International Trade Performance, Diffusion of Technology	

Sources

Course Notes / Textbooks:	The Economics of Industrial Revolution, Chris Freeman and Luc Soete 3rd Ed. Cassel, London, 1997
References:	Yenilik İktisadı, Chris Freeman and Luc Soete, Trans. Ergün Türkcan, Tübitak, Ankara, 2003

Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3	4
Program Outcomes				
1) Using other social sciences and mathematics, they have a broad and interdisciplinary perspective on business and management sciences.				
2) They have knowledge and skills about different functions and interactions of the enterprise.				
3) They can use different theoretical approaches to understanding and solving various business problems.				
4) Being aware of the needs of society, they use business knowledge to meet these needs.				
5) They have knowledge depthly about current problems of Turkey and Global Business World's				
6) They can determine the objectives of the institution in which they are involved, taking into account the market needs and economic conditions.				
7) They can solve complex business problems by using various statistical techniques and numerical methods and makes analysis by using statistical programs effectively.				
8) They can use a foreign language at least B1 General Level in terms of European Language Portfolio criteria according to the education level of a foreign language.				
9) They can develops teamwork, negotiation, leadership and entrepreneurship skills.				
10) They have the knowledge of universal ethical values, social responsibility awareness and sufficient level of labor law.				
11) They can identify the individual learning needs and carries out studies to correct them by developing positive attitudes about lifelong learning.				
12) They can express their ideas and solutions both written and orally, and if required they can present and publish them on both national and international platforms.				
13) They use information and communication technologies together with computer software at the advanced level of European Computer Driving License required by the field.				

Course - Learning Outcome Relationship

No Effect	1 Lowest	2 Average	3 Highest

	Program Outcomes	Level of Contribution
1)	Using other social sciences and mathematics, they have a broad and interdisciplinary perspective on business and management sciences.	
2)	They have knowledge and skills about different functions and interactions of the enterprise.	
3)	They can use different theoretical approaches to understanding and solving various business problems.	
4)	Being aware of the needs of society, they use business knowledge to meet these needs.	
5)	They have knowledge depthly about current problems of Turkey and Global Business World's	2
6)	They can determine the objectives of the institution in which they are involved, taking into account the market needs and economic conditions.	
7)	They can solve complex business problems by using various statistical techniques and numerical methods and makes analysis by using statistical programs effectively.	
8)	They can use a foreign language at least B1 General Level in terms of European Language Portfolio criteria according to the education level of a foreign language.	
9)	They can develops teamwork, negotiation, leadership and entrepreneurship skills.	
10)	They have the knowledge of universal ethical values, social responsibility awareness and sufficient level of labor law.	
11)	They can identify the individual learning needs and carries out studies to correct them by developing positive attitudes about lifelong learning.	3
12)	They can express their ideas and solutions both written and orally, and if required they can present and publish them on both national and international platforms.	
13)	They use information and communication technologies together with computer software at the advanced level of European Computer Driving License required by the field.	

Assessment & Grading

Semester Requirements	Number of Activities	Level of Contribution
Midterms	1	% 40
Final	1	% 60

total		% 100
PERCENTAGE OF SEMESTER WORK		% 40
PERCENTAGE OF FINAL WORK		% 60
total		**% 100**

Workload and ECTS Credit Calculation

Activities	Number of Activities	Preparation for the Activity	Spent for the Activity Itself	Completing the Activity Requirements	Workload
Course Hours	14	1	3		56
Study Hours Out of Class	14	0	2		28
Midterms	1	15	1		16
Final	1	25	1		26
Total Workload					**126**