



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Economics of Innovation and Technology							
Course Code		ECO421		Course Level		First Cycle (Bachelor's Degree)			
ECTS Credit	6	Workload	150 ( <i>Hours</i> )	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		The aim of the course is to examine the concepts of technology and innovation and technology and innovation policies is to understand the importance of economic growth and in development. Turkey also applied science, technology and innovation policies are a comparative analysis.							
Course Content		Science and Technology Policy, Objectives, Tools and Indicators, Nature of Technological Development and Technology Trends, Micro-economics of innovation, Macro-economics of innovation, Conceptual View of Technology.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study					
Name of Lecturer(s)									

### Prerequisites & Co-requisites

ECTS Requisite	105
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### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

### Recommended or Required Reading

1	Chris FREEMAN - Luc SOETE, Yenilik İktisadi, Çev: Ergun TÜRKCAN, Tübitak Yayınları, Akademik Dizi 2, Ankara, 2003.
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Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to Basic Concepts
2	Theoretical	Conceptual View of Technology
3	Theoretical	Nature of Technological Development and Technology Trends
4	Theoretical	Theories of Economic and Technological Development
5	Theoretical	Micro-economics of innovation
6	Theoretical	Micro-economics of innovation
7	Theoretical	Macro-economics of innovation
8	Intermediate Exam	Midterm Examination
9	Theoretical	Science and Technology Policy, Objectives, Tools and Indicators
10	Theoretical	International Trade and Technological Development
11	Theoretical	International Trade and Technological Development
12	Theoretical	Technological Innovation and Competitiveness
13	Theoretical	Technological Innovation and Productivity
14	Theoretical	Applied Science and Technology Policy, and Outcomes in Turkey
15	Theoretical	General Assetment
16	Final Exam	Final Examination
17	Final Exam	Final Examination

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	3	42
Reading	14	0	2	28
Individual Work	14	0	3	42
Midterm Examination	1	15	1	16



Final Examination	1	21	1	22
Total Workload (Hours)				150
[Total Workload (Hours) / 25*] = ECTS				6
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	Understands the limits of the concept of technological development.
2	Examines theories of economics approach to the concept of technology and innovation.
3	Defines the concept of innovation.
4	Analyzes microeconomic and macro-economic dimensions and effects of innovation.
5	Explain the education-learning organization.

### Programme Outcomes (Economics)

1	It defines and evaluates the basic economic concepts, theories, and methods.
2	It offers a basic level of policy proposals towards current economic problems.
3	It analyzes in the context of economic and social events in a historical perspective.
4	It explains the role of economic actors (such as government, company, or household) in the economy.
5	It follows national and international economic indicators and developments and it uses economic knowledge and methods in different areas.
6	It provides methods, tools and techniques necessary for the modelling and analysis of economic data and evaluates outcomes accordingly.
7	It defines economic systems, decision-making, policies and problems and it provides feedback about them.
8	It benefits from other disciplines that contribute to economic basis and holds a basic knowledge of these disciplines.
9	It explains and comments on economic growth, development and productivity problems on basic grounds.
10	It provides sufficient know-how in sub-branches such as public economics, industry, agriculture, environment and natural resources, labor, knowledge and ownership of the economy, international finance, money, in political economy and econometrics.
11	It defines and evaluates the concept of business on basic grounds.
12	It provides a sufficient level of legal know-how that may be demanded from high skill labor in both public and private sectors.
13	It defines the role of innovation, creativity and technology in the dynamic global economy.
14	It shows skills that will be useful for future employment opportunities and the working environment.
15	It considers science as a rational individual with professional and ethical responsibility.

### Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4
P1	3	4	3	4
P2	4	3	4	3
P4	3	3	3	3
P7	2	3	3	3
P13	5	5	5	5
P14	2	2	2	2

