

Department of Humanities and Social Sciences

Course Profile

Course Number : STS 443	Course Title : National Innovation Systems and Competitiveness
Required / Elective : Elective	Pre / Co-requisites : -
Catalog Description: Technology, industrialization and development. Economics of technical change. Determinants of national competitive advantage. Developing the framework for an innovation strategy; technology forecasting, technology foresight, technology assessment. Catching up in technology. Technology strategy for followers: imitation to innovation.	Textbook / Required Material : -
Course Structure / Schedule : (3+0+0) 3 / 5 ECTS	
Extended Description : The main objective of this course is to enable students to understand the impact of technical change on economic activity, explain the problems related to the nature and direction of technical changes which are developed in industrialized countries, and the necessity of national systems of innovation, industrial policies and innovation strategies that all constitute important aspects of the development process in a globalized world.	
Design content : none	Computer usage: No particular computer usage required
<p><u>Course Outcomes:</u></p> <ol style="list-style-type: none"> 1- Explain relationships between technology, industrialization and development (1,2). 2- Describe how technology is analyzed from different theoretical perspectives (6) 3- Analyze conditions necessary for national competitiveness (1,8). 4- Analyze the problems related to generating national innovation strategies (2). 5- Describe the tools used in developing technology / innovation strategies . 6- Recognize the problems related to generate an innovation culture in a country (9,10). 7- Assess the current problems of catching up (11,12). 8- Analyze and present the best country practices in catching up process (8,14). <p>(1) Apply analytical and critical thinking skills to contemporary global issues.</p> <p>(2) Describe the interrelationships between science, technology, and society.</p> <p>(6) Analyze how modes of thought are shaped by socio-cultural, historical, political and economic variables.</p> <p>(8) Summarize and assess current developments in their subject area.</p> <p>(9) Recognize ethical issues and social responsibilities in the contemporary world.</p> <p>(10) Synthesize complex ideas in clear and concise ways.</p>	

(11) Generate creative solutions to local and/or global problems.

(12) Recognize the relevance of coursework to personal experiences.

(14) Demonstrate an ability to communicate effectively with written, oral and visual means.

Recommended reading : -

Teaching methods : Class participation: Pre-class readings, lecture and class discussions, individual research.

Assessment methods : Exams, class presentation, class survey.

Student workload:

Pre-class reading20 hrs

Lectures45 hrs

Preparatory reading 30 hrs

Literature review for individual research... 30 hrs

TOTAL 125 hrs

Prepared by : Prof. Dr. Hacer Ansal

Revision Date :