

Department of Humanities and Social Sciences

Course Profile

Course Number : HSS 422	Course Title : Technology and Development
Required / Elective : Required	Pre / Co-requisites : -
Catalog Description: Concepts of technology, industrialization, development, progress. Technology from different perspectives: Technology in the neoclassical economic theory, Dependency School and technological dependence, appropriate technology approach, technology in the labour process theory. Historical Overview: Taylorism, Fordism, emergence of post- Fordist production systems and flexible specialization, Japanese production system. National Innovation Systems and technology policies.	Textbook / Required Material : -
Course Structure / Schedule : (3+0+0) 3 / 5 ECTS	
Extended Description : Technology has a significant effect on the development process of a country. 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 generally developed in industrialized countries, and the recognize the necessity of national systems of innovation and industrial policies that all constitute important aspects of the development process in a globalized world.	
<u>Course Outline:</u>	
Week	Topics
1	Introduction
2	Technology & Industrialization
3	Technology in Neoclassical Economic Theory
4	Dependency School and Technological Dependence
5	Appropriate Technology Approach
6	Technology in Labour Process Theory
7	Historical Overview: Taylorism, Fordism
8	Economic Crisis in the 1970s
9	Emergence of Post- Fordist Production Systems
10	Flexible Specialisation Model
11	Japanese Production System:Lean Production
12	Socio-economic Conditions in Japan and Success of Lean Production
13	Transferability of Japanese System
14	National Innovation Systems
15	Conclusion

Design content : none

Computer usage: No particular computer usage required

Course Outcomes:

	Program Outcomes	*Level of Contribution				
		1	2	3	4	5
1	Apply analytical and critical thinking skills to contemporary global issues.				X	
2	Describe the interrelationships between science, technology, and society.					X
3	Describe the interrelationships between art, culture, and society.					
4	Explain the historical, political and economic conditions in which science and technology emerge.					X
5	Explain the historical, political and material conditions in which art and cultural expression emerge.					
6	Analyze how modes of thought are shaped by socio-cultural, historical, political and economic variables.				X	
7	Apply discipline-relevant methods to HSS research assignments.					
8	Summarize and assess current developments in their subject area.					X
9	Recognize ethical issues and social responsibilities in the contemporary world.	X				
10	Synthesize complex ideas in clear and concise ways.		X			
11	Generate creative solutions to local and/or global problems.		X			
12	Recognize relevance of coursework to personal experiences, lifelong learning, and job security.					
13	Demonstrate an ability to function on teams.		X			
14	Demonstrate an ability to communicate effectively with written, oral and visual means.				X	

Recommended reading : -

Teaching methods : Class participation: Pre-class readings, lecture and class discussions, individual readings and team work for presentation.

Assessment methods : Exams, class presentation, class survey.

Student workload:

Pre-class reading	25 hrs
Lectures	45 hrs
Homework preparatory reading	30 hrs
Literature review for presentation.....	15 hrs
Team work for presentation	10 hrs
TOTAL	125 hrs ... to match 25 X 5 ECTS

Prepared by : Prof. Dr. Hacer Ansal

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