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.

Course Outline:

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
Design content . none	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.					Х
9	Recognize ethical issues and social responsibilities in the contemporary world.	X				
10	Synthesize complex ideas in clear and concise ways.		Х			
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	
ecom	mended reading : -					
	ng methods : Class participation: Pre-class readings, lecture ual readings and team work for presentation.	and	cla	ss d	iscus	ssic
ssess	ment 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

Course Category:

ISCED General Area Codes	General Areas	ISCED Basic Area Codes	Basic Educational Areas	Percentage
1	Education	14	Teacher Training and Educational Sciences	
2	Humanities and Art	21	Art	
2	Humanities and Art	22	Humanities	20
3	Social Sciences, Management and Law	31	Social and Behavioral Sciences	80
3	Social Sciences, Management and Law	32	Journalism and Informatics	
3	Social Sciences, Management and Law	38	Law	
4	Science	42	Life Sciences	
4	Science	44	Natural Sciences	
4	Science	46	Mathematics and Statistics	
4	Science	48	Computer	
5	Engineering, Manufacturing and Civil	52	Engineering	
5	Engineering, Manufacturing and Civil	54	Manufacturing and Processing	
5	Engineering, Manufacturing and	58	Architecture and Structure	

	Civil			
6	Agriculture	62	Agriculture, Forestry, Livestock, Fishery	
6	Agriculture	64	Veterinary	
7	Medicine and Welfare	72	Medical	
7	Medicine and Welfare	76	Social Services	
8	Service	81	Personal Services	
8	Service	84	Transport Services	
8	Service	85	Environment Protection	
8	Service	86	Security Services	
Prepared by	Prepared by : Prof. Dr. Hacer Ansal		Revision Date : 27. 06. 2013	