Department of Humanities and Social Sciences

Course Profile

Course Number : STS 303	Course Title : History of Science and Technology					
Required / Elective: Required	Pre / Co-requisites : -					
Catalog Description: Development of	Textbook / Required Material : -					
science and technology from	James E. McClellan III & Harold Dorn,					
Enlightenment to present. Industrial	Science and Technology in World History					
Revolution. Emergence of engineering.	(London: The John Hopkins University					
Interdependence of science and	Press, 1999); John Henry, The Scientific					
technology. Development of medical	Revolution and the Origins of Modern					
sciences and information technologies.	Science (2008)Palgrave Macmillan.					
Science and technology in the Ottoman						
Empire and Turkey in context of global						
developments.						

Course Structure / Schedule: (3+0+0) 3 / 5 ECTS

Extended Description: Today we go through a period where our technology is deeply diffused into and integrated with our life styles. It is imagine our daily routines without our computers, I-pods, cell phones, mobile internet connections, automobiles, and jeans. Besides its prominent place in our lives, technology is also identified with progress and an important role is assigned to it in the shaping of the future and technological change is seen as the main driving force of history. This course will discuss this role that is assigned to technology in human history. In the first part of the course, we will focus on the social history of technology in a chronological fashion and examine some key transitions related to technology in history such as the emergence of the human kind as the agent of history, the emergence of agriculture based civilizations, and the industrial revolution. We will also discuss the twentieth century technologies. In this part of the course we will both discuss the mutual ways technology and society have shaped each other throughout human history. In the second part of the course we will shift to a thematic discussion of the social history of technology. These topics will be studied through the assigned readings, documentary films, lectures, class discussions, and student presentations.

Course Outline

Week	Topics
1	Introduction
2	What is technology?
3	Emergence of the humans
4	Agricultural Revolution
5	Industrial Revolution 1: 1st Industrial Revolution and Coal
6	Industrial Revolution 2: Industry, Time and Clocks
7	Industrial Revolution 3: Train
8	Industrial Revolution 4: 2nd Industrial Revolution and Electricity
9	Technology and Militarism
10	Biotechnology
11	Genetically Modified Food
12	Technology and Environmental Change
13	Gender and Technology
14	Technology in Turkey
15	Overview & Conclusion

Design content : none Computer usage: No particular usage required				ular	con	nputer				
Course Outcomes:										
						NAT 1 C				
	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.				X					
4	Explain the historical political and economic conditions in					X				
5	Explain the historical, political and material conditions in which art and cultural expression emerge.						X			
6	Analyze how modes of thought are shaped by socio-cultural, historical, political and economic variables.				X					
7	Apply discipling relevant methods to USS research									
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.									
12	Recognize relevance of coursework to personal experiences, lifelong learning, and job security.									
13	Demonstrate an ability to function on t	eams.	X							
14	Demonstrate an ability to communication					X				
Dagge	written, oral and visual means.									
	mended reading:-	alass mandinas lastuma	and	010	aa d:	0.0110	aiona.			
	ng methods: Class participation: Pre-	_	anu	Cla	88 UI	scus	Sions,			
individual readings and research and team work for presentation.										
Assessment methods: Exams, class presentation, class survey. Student workload:										
Pre-reading										
Lectures										
Preparatory reading										
Literature review for presentation 15 hrs										
Team work for presentation10 hrs										
TOTAL 125 hrs to match 25x5 ECTS										
Prepare	Prepared by : Dr. Gülhan Balsoy Revision Date : 11.07.2013									