

**Department of Humanities and Social Sciences**

**Course Profile**

Course Number : <b>HSS 223</b>	Course Title: <b>Science, Technology and Society</b>
Required / Elective : Required	Pre / Co-requisites : -
Catalog Description: Historical review of science and technology, science - technology relations, technology – environment relations, public understanding of science, scientific process, scientific method.	Textbook / Required Material : -

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

**Extended Description :** This course aims to provide an understanding on the human, social and economic aspects of science & technology. Both science & technology as social institutions whose impacts are interconnected with other social institutions such as economy, politics and cultural values will be explored by focussing on these interconnections. A broad range of issues from different perspectives using examples and different experiences around the world will be studied. The present complex issues regarding science & technology will be presented in an accessible and engaging form to provoke, engage, inform and stimulate thoughtful discussion in an interdisciplinary way.

**Course Outline:**

<b>Week</b>	<b>Topics</b>
1	Introduction
2	Importance of S&T, Presentation skills
3	Understanding Science & Technology. Scientific Community
4	Science in Business Organisations; Academic, Government & Industrial R&D
5	Rights & Wrongs of Science
6	Responsibility of Scientists
7	Sociology of Scientific Knowledge /Scientific; Change & Scientific Revolutions
8	Controversies on S&T
9	Science, Technology and Society Relationship, Emergence of STS Discipline
10	Technological Determinism
11	Science, Technology & Economy: Technical Change & Economic Growth
12	Technology, Industrialisation & Development Relationships
13	Science, Technology & Developing Countries; From Technology Transfer to Technological Capabilities
14	Science, Technology & the Future

15	Overview & Conclusion					
Design content : none			Computer usage: No particular computer usage required			
<u>Course Outcomes:</u>						
	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.	X				
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 research and team work for presentation.						
Assessment methods: Exams, class presentation, class survey.						
Student workload:						

Pre-reading .....25 hrs  
 Lectures .....45 hrs  
 Preparatory reading ..... 30 hrs  
 Literature review for presentation..... 15 hrs  
 Team work for presentation .....10 hrs  
**TOTAL ..... 125 hrs ... to match 25x5 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	40
3	Social Sciences, Management and Law	31	Social and Behavioral Sciences	50
3	Social Sciences, Management and Law	32	Journalism and Informatics	
3	Social Sciences, Management and Law	38	Law	
4	Science	42	Life Sciences	5
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 Civil	58	Architecture and Structure	

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	5
8	Service	86	Security Services	
Prepared by : Prof. Dr. Hacer Ansal			Revision Date : 27. 06.2013	