

Department of Humanities and Social Sciences

Course Profile

Course Number : HSS 223	Course Title: Science, Technology and Society
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:

Week	Topics
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

Prepared by : Prof. Dr. Hacer Ansal

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