

Department of Humanities and Social Sciences

Course Profile

Course Number : STS 341	Course Title : Human Dimensions of Biotechnologies
Required / Elective : Elective	Pre / Co-requisites : -
Catalog Description: Recent developments in biotechnology. Human genome project and its social, cultural, ethical, legal implications. Cloning. Genetic testing and counseling. Embryonic stem cell research. Genetically modified foods. Gene therapy. Predicted and personalized medicine.	Textbook / Required Material : -
Course Structure / Schedule : (3+0+0) 3 / 6 ECTS	
Extended Description : The developments related to the human genome project and its applications in biotechnology are expected to have important social, cultural, ethical and legal impacts on human life . The main objective of this course is to provide information on the human genome project and recent developments in the post genomic-area. Ethical, legal, social and cultural implications of these recent developments in biotechnology such as cloning, genetic testing and counseling, stem cell research , gene therapy , genetically modified food production will be discussed.	
Design content : none	Computer usage: No particular computer usage required
<p><u>Course Outcomes:</u></p> <ol style="list-style-type: none"> 1. Describe current developments in the post-genomic area (2, 7,8). 2. Analyze the social, cultural, ethical and legal implications of human genome project (1,2,9). 3. Explain how the applications of current developments in biotechnology shape human life and society (1,2,9). 4. Present a technological development and its effects on the society (8, 13,14). <ol style="list-style-type: none"> 1. Apply analytical and critical thinking skills to contemporary global issues. 2. Describe the interrelationships between science, technology, and society. 7. Apply discipline-relevant methods to HSS research assignments. 8. Summarize and assess current developments in their subject area. 9. Recognize ethical issues and social responsibilities in the contemporary world. 13. Demonstrate an ability to function on teams. 14. Demonstrate an ability to communicate effectively with written, oral and visual means. 	

Recommended reading : -

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

Assessment methods : Exams, class presentation, class survey.

Student workload:

Pre-class reading	30 hrs
Lectures	45 hrs
Homework preparatory reading	40 hrs
Literature review for research	25 hrs
Team work for presentation	10 hrs
TOTAL	150 hrs

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