

Department of Humanities and Social Sciences

Course Profile

Course Number : STS 342	Course Title : Ethics and Biotechnology
Required / Elective : Elective	Pre / Co-requisites : -
Catalog Description: Principles of bioethics. Developments in biotechnology and their ethical impacts. Effects of biotechnological developments on environment, industry, agriculture and medicine. Ethical issues regarding genetic testing and counseling, human cloning. Commercialization and patenting.	Textbook / Required Material : -
Course Structure / Schedule : (3+0+0) 3 / 6 ECTS	
Extended Description : Application of biotechnology in medicine, agriculture, food production, drug development and environmental protection have raised a number of important ethical questions. The main objective of this course is to provide information about the recent developments in biotechnology and the effects of these developments on the society. The ethical, legal, cultural and social implications of biotechnological applications will be overviewed and solutions 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.Explain the recent developments in biotechnology (7,8). 2.Analyze the impacts of biotechnology on society (1,2). 3.Assess the ethical problems arising from the applications of biotechnology(9). 4.Generate and analyze the global solutions to the ethical problems in this field (11). 5.Present a technological development and its effects on the society (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. 11. Generate creative solutions to local and/or global problems. 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-class readings, lecture and class discussions, individual readings and team work for presentation.

Assessment methods : Exams, class presentation, class survey.

Student workload:

Pre-class reading30 hrs

Lectures45 hrs

Homework preparatory reading45 hrs

Literature review for presentation..... 25 hrs

Team work for presentation10 hrs

TOTAL 150 hrs

Prepared by : Prof. Dr. Hacer Ansal

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