

Department of Humanities and Social Sciences

Course Profile

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| Course Number : HSS 422 | Course Title : Technology and Development |
| Required / Elective : required | Pre / Co-requisites : - |
| Catalog Description: Concepts of technology, industrialization, development, progress. Technology from different perspectives: Technology in the neoclassical economic theory, Dependency School and technological dependence, appropriate technology approach, technology in the labour process theory. Historical Overview: Taylorism, Fordism, emergence of post-Fordist production systems and flexible specialization, Japanese production system. National Innovation Systems and technology policies. | Textbook / Required Material : - |
| Course Structure / Schedule : (3+0+0) 3 / 6 ECTS | |
| Extended Description : Technology has a significant effect on the development process of a country. The main objective of this course is to enable students to understand the impact of technical change on economic activity, explain the problems related to the nature and direction of technical changes which are generally developed in industrialized countries, and the recognize the necessity of national systems of innovation and industrial policies that all constitute important aspects of the development process in a globalized world. | |
| Design content : none | Computer usage: No particular computer usage required |
| <p>Course Outcomes:</p> <ol style="list-style-type: none"> 1- Explain how the social and economic environment shape scientific and technological developments (4). 2- Describe how technology is analysed from different perspectives (6,7) 3- Analyze the problems related to technology transfer to different environment (1,4). 4- Recognize the problems related to generate an innovation culture in a country (4,12). 5- Assess the current technological developments and related problems (8). 6- Present a technological development issue through team work (13,14). <p>(1) Apply analytical and critical thinking skills to contemporary global issues.</p> <p>(4) Explain the historical, political and economic conditions in which science and technology emerge.</p> <p>(6) Analyze how modes of thought are shaped by socio-cultural, historical, political and economic variables.</p> | |

- (7) Apply discipline-relevant methods to HSS research assignments.
- (8) Summarize and assess current developments in subject areas.
- (12) Recognize the relevance of coursework to personal experiences.
- (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:

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| Pre-class reading | 25 hrs |
| Lectures | 45 hrs |
| Homework preparatory reading | 35 hrs |
| Literature review for presentation..... | 25 hrs |
| Team work for presentation | 20 hrs |
| TOTAL | 150 hrs |

Prepared by : Prof. Dr. Hacer Ansal

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