



Introduction

The Humanities and Social Sciences Teaching Unit has a dual objective. On one hand, develop students' general culture and critical thinking by providing to them analytical tools and interpretation keys to understand the society in which they live (particularly in the course "Individuals and society", but also in the two other training actions). On the other hand, develop their knowledge of the ethical and organizational issues that engineers face in their professional life ("Ethics" and "Working today" courses). Through this dual perspective the Humanities and Social Sciences teaching Unit offers an introduction to the concepts and methods of the human and social sciences and philosophy.

Semester

S07

Programme

SHS tc 1: Individuals and society
SHS tc 2: Working today
SHS tc 3: Ethics

Learning Outcomes

- Being able to use the Human and Social sciences' point of view to analyze the social context.
- Question one's representations, especially regarding to the professional world.
- Understand the organizational context of companies.
- Understand the ethical issues of the engineering profession.
- Understand and put into perspective a document or a current issue.

Employment Sectors

Requirements

None

Assesment

A final exam for each course. Same ponderation for all the courses : SHStc1 : 1 ; SHStc2 : 1 ; SHStc3 : 1.

Option Website

Additional Information



INDIVIDUS ET SOCIÉTÉ

INDIVIDUALS AND SOCIETY

Lecturers: Nicolas HOURCADE, Jacqueline VACHERAND REVEL

| Lecturers : 20.0 | TC : 4.0 | PW : 0.0 | Autonomy : 0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

From the study of a general theme ("Individuals and Society"), this course aims to present the approaches of the Human and Social Sciences, as for their modes of investigation and their fundamental concepts. Beyond an introduction to social psychology and sociology, the goal is to provide students tools to analyse the human and social situations they face. Far from providing them with ready-made answers, the intention is to lead them to carry out a questioning that is well-constructed and well-argued serving their understanding of human and social issues. A secondary objective consists in enhancing the capabilities of the students to analyse a human sciences 'text, and, more broadly, of topicality.

Keywords : Psychology, sociology, individuals, society

Programme

The lectures include sessions in social psychology and sociology. The main topics discussed are: the Human and Social sciences point of view; the deconstruction of social representations; the influence of groups on individuals and social change; the construction of social norms, socialization and forms of deviance; the coexistence of an egalitarian society and social inequalities...

Learning outcomes

- Being able to use the point of view of the human and social sciences to analyse the society.
- Being able to question one's representations about the world and society.
- Question the social construction process of individuals and groups.
- Understand and analyse a topicality document on a current issue.

Independent study

Objectifs : Learn to analyse a social science or news text.

Méthodes : Students are required to read and analyse texts before each class. A text analysis method is available on Moodle.

Core texts

Assessment

Final examination.



TRAVAILLER AUJOURD'HUI

WORK IN THE CONTEMPORARY SOCIETIES AND COMPAGNIES

Lecturers: Nicolas HOURCADE, Jacqueline VACHERAND REVEL

| Lecturers : 14.0 | TC : 4.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

This course questions the place occupied by work in our Western societies through the taking of a sociological perspective on contemporary organizations, their management's modes and the roles played by engineers. The objective is to empower students with organizations analysis tools which they can apply to their own experiences in companies: in which they have been (during their work internship) or will be (during their future internships and professional life) confronted. More than practical advices, this teaching aims to achieve an awareness of the various issues they will encounter during their professional life, such as operating methods and processes at work, opportunities and choices implied by the forms of management.

Keywords : Work, organizations, companies, management, psychosocial risks, health and safety at work, engineers, managers.

Programme

The course covers several topics:

- How and to what extent work structures Western societies.
- The evolution of the forms of organisation and management of companies by detailing current methods.
- Focus on the situation of engineers and managers in organizations.
- The TDs deepen these themes, through the study of documents (films, texts ...). In particular, focusing on the theme of professional stress and psychosocial risks at work.

Learning outcomes

- Understand what work means and represents in our societies.
- Understand the organizational context of companies.
- Understand the engineers' place in companies.
- Being able to understand the links between the organizational modes of companies to the social and economic context.

Independent study

Objectifs : Documents' analysis (text or documentary).

Méthodes : TD1: excerpts analyses from a documentary film highlighting the management methods of a company. Instructions given at the beginning of the TD.

TD2: upstream analyse of documents on psychosocial risks at work and questions. This work is done in groups of a few students. They then have to

Core texts

Assessment

Final exam.



ETHIQUE

ETHICS

Lecturers: Romain SAUZET, Nicolas HOURCADE

| Lecturers : 14.0 | TC : 4.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

This course deals with ethical issues related to engineering professions, and, more broadly, to contemporary sciences and technologies. Ethics is an irreducible dimension of human action, with regard to its responsibilities, in various fields: personal or professional, individual or collective. Philosophy helps to analyze and understand the choices to make the best decisions in complex and unique situations.

Keywords : Ethics ; Morality ; Responsibility ; Technology

Programme

- Course 1 - Introduction
- Course 2 - What is a value?
- TD 1: The Ethics of Discussion
- Course 3 - Values and Technique
- Lessons 4 & 5 - The major ethical resolutions
- Course 6 - Values and problems of the engineering world
- Course 7 - Environmental ethics
- TD 2: The Ethics of Artificial Intelligence

Learning outcomes

- Understand ethical issues of engineering practices.
- Understand interest and limits of the professional deontology.
- Formalise a problem and identify the difficulties generated by an unpredictable and uncertain context.
- Being able to differentiate and articulate moral and ethical strategies.

Independent study

Objectifs : Documents'analysis (text or film).

Méthodes : TD1: analyse of extracts from a film related to the content of the ethics course. Instructions given at the beginning of the TD.

TD2: Upstream analyse of documents and answer to questions on them. The students have to present their work done in groups during the TD.

Core texts

Flandrin, Laure & Verrax, Fanny, *QUELLE ÉTHIQUE POUR L'INGÉNIEUR ?*, Charles Léopold Mayer., 2019

Billier, Jean-Cassien *INTRODUCTION À L'ÉTHIQUE*, PUF, 2014

Johnson, Deborah G. *ENGINEERING ETHICS. CONTEMPORARY AND ENDURING DEBATES*, Yale University Press, 2020

Assessment

Final exam.