Course guide
240662 - 240662 - Human Preparation for Workplace

Last modified: 17/06/2025

Unit in charge: Barcelona School of Industrial Engineering
Teaching unit: 756 - THATC - Department of History and Theory of Architecture and Communication Techniques.

Degree: BACHELOR'S DEGREE IN INDUSTRIAL TECHNOLOGY ENGINEERING (Syllabus 2010). (Optional subject).

Academic year: 2025 **ECTS Credits:** 3.0 **Languages:** Catalan

LECTURER

Coordinating lecturer: Aguilar Perez, Marta

Others: Aguilar Perez, Marta

TEACHING METHODOLOGY

The course tackles the so-called Soft Skills, with social and human impact, that seek to help students from ETSEIB to be better prepared for the labour market (impacting on their employability)

The subject is based upon a combination of sessions on topics related to the workplace which are suggested and put forward by the teacher (by means of descriptions, explanations, arguments and role-play), as well as activities where students participate both individually and in groups and formative assessments tasks, (individual and in group and with or without written tasks). Students also carry out activities autonomously via ATENEA.
Active teaching methodologies are used, such as discussions, teamwork, and class presentations. This method promotes student participation and involvement together with deliberation, and so students take on an active role in their learning.

LEARNING OBJECTIVES OF THE SUBJECT

General objective
Raise awareness about the relevance of values, attitudes and general competences for the access, consolidation and development in the labour market, improve preparation in some of these areas and plant the seed so that the students themselves actively and autonomously seek to to complement their training in the future in parallel with their scientific and technological training.
Show and raise awareness about the importance of the Soft Skills that enhance students's employability.

STUDY LOAD

Type	Hours	Percentage
Hours large group	30,0	100.00

Total learning time: 30 h

CONTENTS

1. Responsibility

Description:
Technological and digital society. What and who is an engineer? Commitment, duties and responsibilities. Engineering and human values. Ethic codes. Deontology development.

Full-or-part-time: 6h
Practical classes: 6h

2. Communication

Description:
Components and the need to focus on communication from a sociolinguistic and empathy perspective to address different audiences. The cost of poor communication for engineers. How to accommodate our communication to every type of audience, both inside and outside the company, and from locally and internationally. The intercultural communicative competence. Active listening. Organization Communication. Rumours in companies. Conflict communication.

Full-or-part-time: 6h
Practical classes: 6h

3. Atmosphere at work

Description:
The place of work (description of the position). Positive and negative work atmosphere. Relationships between people within the company. Mediation. Motivation Theories. Dynamics in the workplace.

Full-or-part-time: 6h
Practical classes: 6h

4. Leadership

Description:
Leadership Styles and Models. Dialogue. Negotiation. Management. Leadership

Full-or-part-time: 6h
Practical classes: 6h

5. Employability

Description:
Job interview (difficult and common questions). Duties and tasks. Agreements. Contracts. Statistics. Miscellanea.

Full-or-part-time: 6h
Practical classes: 6h

GRADING SYSTEM

The methodology revolves around stduent participation. Assessment is formative, which allows for feedback and which also allows the lecturer to see the learning that is taking place. There is a final exam.
In participatory and interactive activities, the student works in teams.
The final grade is obtained through taking into account attendance (10%), formative assessment while activities are performed (45%) and the final exam (45%).

EXAMINATION RULES.

The exam usually takes place on the last class session, provided ALL students agree.
In the exam, the use of Artificial Intelligence tools will be strongly penalised, as well as in some class assignments or activities the teacher may consider.

BIBLIOGRAPHY

Basic:
- Golobardes, E. [et al.]; Madrazo, L. [et al.]. Guia per a l'avaluació de competències en l'àrea d'enginyeria i arquitectura [on line]. 1a ed. Barcelona: Agència per a la Qualitat del Sistema Universitari de Catalunya, 2009 [Consultation: 14/06/2024]. Available on: https://www.aqu.cat/doc/Estudis/Informes-dels-processos-d-avaluacio/Guia-per-a-l-avaluacio-de-competencies-en-l-area-d-Enginyeria-i-Arquitectura.
- Adell, R. [et al.]. Dirigir en el siglo XXI : un estudio basado en una encuesta realizada a más de 1000 directivos españoles. Barcelona: Deusto, cop. 2002. ISBN 8423419118.
- Suzan LAST. TECHNICAL COMMUNICATION. Canada: British Columbia,
- Aylsworth & Castro. Kantian Ethics and the Attention Economy. Palgrave MacMillan, 2024. ISBN http://creativecommons.org/licenses/by/4.0/.- Edited by: Shannon Chance, Tom Børsen, Diana Adela Martin, Roland Tormey, Thomas Taro Lennerfors, Gunter Bombaerts. The international Routledge handbook of Engineering Ethics. Routledge, 2024. ISBN https://doi.org/10.4324/9781003464259.

RESOURCES

Other resources:
Materials uploaded to Atenea.
Guest speakers from the engineering labour market may come to deliver a session.