Course guide
205243 - PCVR - Professional Communication for Engineers Through Virtual Reality

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

Degree:
- BACHELOR’S DEGREE IN AUDIOVISUAL SYSTEMS ENGINEERING (Syllabus 2009). (Optional subject).
- BACHELOR’S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Optional subject).
- BACHELOR’S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Optional subject).
- BACHELOR’S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Optional subject).
- BACHELOR’S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Optional subject).
- BACHELOR’S DEGREE IN TEXTILE TECHNOLOGY AND DESIGN ENGINEERING (Syllabus 2009). (Optional subject).
- BACHELOR’S DEGREE IN AEROSPACE TECHNOLOGY ENGINEERING (Syllabus 2010). (Optional subject).
- BACHELOR’S DEGREE IN AEROSPACE VEHICLE ENGINEERING (Syllabus 2010). (Optional subject).
- BACHELOR’S DEGREE IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT ENGINEERING (Syllabus 2010). (Optional subject).
- BACHELOR’S DEGREE IN INDUSTRIAL TECHNOLOGY ENGINEERING (Syllabus 2010). (Optional subject).

Academic year: 2023  ECTS Credits: 3.0  Languages: English

LECTURER

Coordinating lecturer: Moncada Comas, Balbina

Others:

TEACHING METHODOLOGY

- Participatory lectures
- Participation in role plays and simulations
- Autonomous learning by means of the resolution of tasks and problems
- Autonomous learning of theoretical content
- Immersive learning (through Virtual Reality activities with goggles)

LEARNING OBJECTIVES OF THE SUBJECT

Familiarise students with spoken and written professional and technical communication and enable them to communicate effectively in English in authentic situations proper of their workplace settings. These objectives will be approached by immersing students in realistic professional scenarios in an imaginary company, where they will have to participate in different simulations.

Help students develop a range of professional communication skills, equipping them with a range of careers in bi- and multilingual and multicultural environments, thus familiarising students with intercultural competence.

Acquaint students with persuasive communication to effectively outline and communicate an idea for a product, service or project.

Help students deal with job applications to prepare an effective CV, a cover letter and a job interview. Familiarise students with product development processes to help them write an effective feasibility report and participate in meetings. Help students develop and practise their oral presentations skills, and help them write emails and memos, and read regulation documents regarding safety or environmental issues.
STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours large group</td>
<td>30,0</td>
<td>40.00</td>
</tr>
<tr>
<td>Self study</td>
<td>45,0</td>
<td>60.00</td>
</tr>
</tbody>
</table>

**Total learning time:** 75 h

CONTENTS

**Module 1: Starting a new job in an engineering company**

**Description:**
The scenario in this first module is as follows: You want to land your new dream job in an engineering company. You know it’s tough to go through the selection process, but you’re determined to work on presenting yourself as the best candidate.

**Related activities:**
- Job adverts/ job offers
- Job applications – CV
- Job interviews
- Meetings (Panel Interview)

**Full-or-part-time:** 25h
Theory classes: 10h
Self study : 15h

**Module 2: Launching a new product**

**Description:**
The scenario for students is as follows: You now face your first challenge. You’ve been assigned the development of the company’s new product. You’re part of a team in charge of the design and development process of (the product). You’ll start by brainstorming and sketching your product before you present your prototype to the company’s general management board in order to convince them to manufacture the product.

**Related activities:**
- Writing a feasibility report; participating in informal, team meetings;
- Writing the technical specifications of a product;
- Delivering a persuasive presentation in front of the management board

**Full-or-part-time:** 25h
Theory classes: 10h
Self study : 15h
Module 3: Complying with safety, quality and environmental standards

Description:
The scenario is the following: As an experienced engineer in the company, you now have to cope with different problems related to the safety and quality of the product, otherwise you think the company may stand chances of being sued.

Related activities:
- Meetings & presentations
- Leaflets
- Regulation documents

Full-or-part-time: 25h
Theory classes: 10h
Self study: 15h

GRADING SYSTEM

The final grade will mainly consist of continuous assessment. Assessment will be based on the following activities:
Class participation: 15%
Final task for each module: 45% (15% each task)
Progress tests for each module: 25%
Final written test: 15%

BIBLIOGRAPHY

Basic:

RESOURCES

Other resources:
Course materials on Atenea from the I-BEE-VR Erasmus+ Project, "An immersive Business and Engineering English through Virtual Reality"