

## 68570 - Design, organisation and development of activities for the learning of Industrial Processes

### Información del Plan Docente

<b>Academic Year</b>	2018/19
<b>Subject</b>	68570 - Design, organisation and development of activities for the learning of Industrial Processes
<b>Faculty / School</b>	107 - Facultad de Educación
<b>Degree</b>	368 - University Master's in Professional Development Teaching: Industrial Processes 415 -
<b>ECTS</b>	4.0
<b>Year</b>	XX
<b>Semester</b>	Indeterminate
<b>Subject Type</b>	Compulsory
<b>Module</b>	---

### **1.General information**

#### **1.1.Aims of the course**

**The subject and its expected results respond to the following approaches and objectives:**

The student must acquire the competence to design, manage and develop learning activities in the specific subjects and develop the environments and resources necessary for the student's work.

This is a subject fundamentally based on student projects, which apply the knowledge and competences of other subjects for the realization of them.

#### **1.2.Context and importance of this course in the degree**

Regarding its curricular context, this subject is related to other subjects of the specialty, responding to its specific requirements of contextualization in the professional field.

#### **1.3.Recommendations to take this course**

### **2.Learning goals**

#### **2.1.Competences**

#### **2.2.Learning goals**

The student achieved the following results:

- 1) Select appropriate strategies to different learning.

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- 2) Select from existing resources required for those activities designed or designs and develops these resources.
- 3) Value the importance of the use of ICT in designing learning activities.
- 4) It is able to understand and properly use the tools of Web 2.0
- 5) Organizes the spaces and educational resources for use in subjects related to the specialty of Industrial Processes.
- 6) It is able to organize the process of student work, taking into account the level of education : task sequence and timing.
- 7) Choose properly the role of the teacher in each activity.

### **2.3.Importance of learning goals**

### **3.Assessment (1st and 2nd call)**

#### **3.1.Assessment tasks (description of tasks, marking system and assessment criteria)**

### **4.Methodology, learning tasks, syllabus and resources**

#### **4.1.Methodological overview**

The methodology followed in this course is oriented towards achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as lectures, practice sessions, assignments and tutorials.

#### **4.2.Learning tasks**

The course includes the following learning tasks:

- Lectures (1 ECTS). Whole group sessions where the teacher presents the course contents.
- Practice sessions (0.5 ECTS). Small group sessions where students work on examples of management models related to the production environment of industrial processes developed in previous topics.
- Guided assignment (2 ECTS).
- Tutorials (0.5 ECTS).

#### **4.3.Syllabus**

The course will address the following topics:

1. Theoretical classes: Theoretical master's exposition (1 ECTS)

Module 1: Types of activities

- \* Definition of activity
- \* Initial activities. Characteristics and objectives
- \* Motivating activities. Characteristics and objectives

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- \* Discovery activities. Characteristics and objectives
- \* Orientation activities. Characteristics and objectives
- \* Analysis activities. Characteristics and objectives
- \* Evaluation activities. Characteristics and objectives
- \* Other activities. Characteristics and objectives Module 2: The case method

### Introduction

- \* Case definition.
- \* Advantage
- \* Factors that influence the definition of a case
- \* Modalities of case studies Development of the case
- \* Analysis of the situation
- \* Content organization
- \* Development of the case itself
- \* Use of practical and theoretical tools
- \* Practical examples and analysis of them. Practical application of case development
- \* Analysis of the problem. Definition of the situation
- \* Selection of the type of methodology
- \* Teamwork Module 3. Sources of resources

Computer tools of the application web in educational environments Interactive simulators  
Various educational applications (hotpotatoes, etc.) Design of presentations

### Module 4. The virtual resources center of Aragón

#### 2. Practical classes (0.5 ECTS)

Type 2 (in the classroom and in small groups)

Study and development of examples of management models of activities related to the productive environment of the industrial processes developed in the previous modules.

### 4.4.Course planning and calendar

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course, will be provided on the first day of class or please refer to the Faculty of Education website.

### 4.5.Bibliography and recommended resources