

30048 - Industrial Production

Información del Plan Docente

Academic Year	2016/17
Academic center	110 - Escuela de Ingeniería y Arquitectura
Degree	436 - Bachelor's Degree in Industrial Engineering Technology
ECTS	6.0
Course	4
Period	First semester
Subject Type	Optional
Module	---

1. Basic info

1.1. Recommendations to take this course

1.2. Activities and key dates for the course

2. Initiation

2.1. Learning outcomes that define the subject

2.2. Introduction

3. Context and competences

3.1. Goals

3.2. Context and meaning of the subject in the degree

3.3. Competences

3.4. Importance of learning outcomes

4. Evaluation

5. Activities and resources

5.1. General methodological presentation

A teaching program of 30 hours of lectures, 6 hours of problems, 18 hours of laboratory practice and 6 hours dedicated to visits to local companies, as well as the development of a works of interest (60 hours). These jobs are sometimes collectively made in groups of 3 or 4 students and in other cases, individually.

In sessions with the whole group the more theoretical aspects are addressed in the form of master class and are completed with immediate applications: trouble-type. It is intended to provide students with sufficient advance the

30048 - Industrial Production

documentation for each subject, in order that the student knows the contents on the subject to be treated, which favor a more participatory class.

The practice sessions are done in 3 hours. Each group is scheduled to perform practices Monday through Friday. As in the theoretical teaching, students have in advance the script of practices.

Both classroom sessions and lab will equip the student knowledge and skills to perform different case studies. These cases have been raised so that each group of students will apply throughout the course different techniques working on a company that will be given at the beginning of the course. This company will keep throughout all sessions. On it different situations for the application of knowledge indicated in the established modules that reflect real situations, in which the student must apply the appropriate technique and take appropriate decisions to the situation in question will arise.

The evaluation is focused on the more practical aspects. It aims to promote both teamwork and individual effort and has made planning for the hours of dedication are balanced each week.

5.2.Learning activities

5.3.Program

Lesson 1: Production Planning Problem

Lesson 2: Aggregate Planning and Master Production Schedule

Lesson 3: Material Requirements Planning (MRP)

Lesson 4: Warehouse Management

Lesson 5: Industrial Maintenance

Lesson 6: Simulation: Modeling & Analysis

Lesson 7: Manufacturing Resource Planning (MRP and MRPII)

5.4.Planning and scheduling

5.5.Bibliography and recomended resources