Course guides

340036 - ORPR-F5O32 - Production Organisation

Last modified: 11/02/2021

Unit in charge: Vilanova i la Geltrú School of Engineering
Teaching unit: 732 - OE - Department of Management.
709 - DEE - Department of Electrical Engineering.

Degree:
BACHELOR’S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Compulsory subject).
BACHELOR’S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Compulsory subject).
BACHELOR’S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Compulsory subject).
BACHELOR’S DEGREE IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT ENGINEERING (Syllabus 2009). (Optional subject).

Academic year: 2020
ECTS Credits: 6.0
Languages: Catalan

LECTURER

Coordinating lecturer: ORIOL CUATRECASAS CASTELLSAGUES - MARTA DIAZ BOLADERAS

Others: - SEVERINO ABAD PEQUEÑO - ORIOL CUATRECASAS CASTELLSAGUES - OSCAR GIL SOLA-JOSEP A. SÁNCHEZ LOPEZ

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
1. CE15. Basic knowledge of production and fabrication systems.
2. CE17. Applied knowledge of business organization.

Transversal:
4. SELF-DIRECTED LEARNING - Level 2: Completing set tasks based on the guidelines set by lecturers. Devoting the time needed to complete each task, including personal contributions and expanding on the recommended information sources.
3. EFFECTIVE USE OF INFORMATION RESOURCES - Level 2. Designing and executing a good strategy for advanced searches using specialized information resources, once the various parts of an academic document have been identified and bibliographical references provided. Choosing suitable information based on its relevance and quality.
8. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 2. Using strategies for preparing and giving oral presentations. Writing texts and documents whose content is coherent, well structured and free of spelling and grammatical errors.
12. ENTREPRENEURSHIP AND INNOVATION - Level 2. Taking initiatives that give rise to opportunities and to new products and solutions, doing so with a vision of process implementation and market understanding, and involving others in projects that have to be carried out.
16. TEAMWORK - Level 2. Contributing to the consolidation of a team by planning targets and working efficiently to favor communication, task assignment and cohesion.
TEACHING METHODOLOGY

Presentation-synthesis

In the sessions the teacher makes a summary of the topic. This presentation is intended as a guide work study students, with the function of introducing the item, propose material for study, clarify doubts and synthesis.

Each topic will be provided with:

- Power Point presentations used in class in pdf and other supplementary material will be available on the Digital Campus.
- Bibliography indicating specific location, preferring to material in electronic format.

Working activities and exercises

- Problems and Exercises for fixing the concepts introduced in the presentation.

Casework and articles

The work on cases will be based on questions raised by the professor.

The casework seeks to promote the following capabilities:

- Understanding of the situation presented and the ability to synthesize the most relevant issues
- Apply the concepts to practical cases.
- Capturing the complexity of real life situations, different points of view and various dimensions of the organizational and management issues
- Ability to exchange views and discuss, and ability to learn from the debate

Practice

Practices are held in groups of up to four members, to be established at the beginning of the course and will be maintained.

These practices serve as the backbone of learning, following the principles of project based learning. For each practice it will provided a dossier that shall include the objectives, description, date of delivery, and criteria assessment. Each practice will consist of a report and a presentation at pp.

Oral presentations

Each student will present oral argument at least once during the term. The days of presentation are announced at the beginning of the course.

Individual tutoring

The teacher will follow up the student progress and supervise their practices and work, providing feedback on their progress, the degree of achievement of the objectives of their work, giving directions for improvement.

LEARNING OBJECTIVES OF THE SUBJECT

1. Know production function, cost estimating and production processes.

2. Apply basic techniques and tools for safety and manufacturing management

3. Apply techniques and tools for manufacturing planning in different levels: overall planning, manufacturing planning, materials calculations.

4. Understand and apply different techniques and basic tools for decision making in management.

5. Avaluation of socks management oriented to market and budgets.
## STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours small group</td>
<td>30.0</td>
<td>20.00</td>
</tr>
<tr>
<td>Hours large group</td>
<td>30.0</td>
<td>20.00</td>
</tr>
<tr>
<td>Self study</td>
<td>90.0</td>
<td>60.00</td>
</tr>
</tbody>
</table>

**Total learning time:** 150 h

## CONTENTS

**Module 1:**

**Description:**

Full-or-part-time: 25h  
Theory classes: 5h  
Practical classes: 5h  
Self study: 15h

**Module 2:**

**Description:**

Full-or-part-time: 25h  
Theory classes: 5h  
Practical classes: 5h  
Self study: 15h

**Module 3:**

**Description:**

Full-or-part-time: 25h  
Theory classes: 5h  
Practical classes: 5h  
Self study: 15h

**Module 4:**

**Description:**

Full-or-part-time: 25h  
Theory classes: 5h  
Practical classes: 5h  
Self study: 15h
Module 5: Pull.

Description:

Full-or-part-time: 25h
Theory classes: 5h
Practical classes: 5h
Self study: 15h

Module 6:

Description:

Full-or-part-time: 25h
Theory classes: 5h
Practical classes: 5h
Self study: 15h

GRADING SYSTEM

In the evaluation of the student will be considered both the work done in groups and the individual achievement in written exams. These exams consist of short questions or multiple choice, open questions or development.

Students will also have a mark obtained from the oral presentation practice, and another mark for involvement evaluated in terms of attendance and contributions in theoretical and practical lessons.

\[
NF = \text{exams mark} \times 0.7 + \text{Work mark} \times 0.2 + \text{Oral presentation mark} + \text{Involvement mark} \times 0.1
\]

Students who may be eligible for reevaluation according to academic regulations may improve on a written exam only the corresponding mark "Exams Mark", which has a weight of 70% on the final grade of the subject, as indicated in the formula above.

BIBLIOGRAPHY

Basic:
- Goldratt, Eliyahu M.; Cox, Jeff. La meta. 3a ed. Madrid: Díaz de Santos, cop. 2005. ISBN 847978718X.

Complementary:

RESOURCES

Hyperlink:
- http://www.manufacturing-europe.com/
- http://www.lean.org/
- http://www.institutolean.org
- http://www.leanglobal.org
- http://www.poms.org/
- http://www.wclass.com/