340036 - ORPR-F5O32 - Production Organisation

**Coordinating unit:** 340 - EPSEVG - Vilanova i la Geltrú School of Engineering

**Teaching unit:**
- 732 - OE - Department of Management
- 709 - EE - Department of Electrical Engineering

**Academic year:** 2018

**Degree:**
- BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Teaching unit Compulsory)
- BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Compulsory)
- BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Teaching unit Compulsory)
- BACHELOR'S DEGREE IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT ENGINEERING (Syllabus 2009). (Teaching unit Optional)

**ECTS credits:** 6

**Teaching languages:** Catalan

**Teaching staff**

**Coordinator:** 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.
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
340036 - ORPR-F5O32 - Production Organisation

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>Total learning time: 150h</th>
<th>Hours large group: 30h</th>
<th>20.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours medium group:</td>
<td>0h</td>
<td>0.00%</td>
</tr>
<tr>
<td>Hours small group:</td>
<td>30h</td>
<td>20.00%</td>
</tr>
<tr>
<td>Guided activities:</td>
<td>0h</td>
<td>0.00%</td>
</tr>
<tr>
<td>Self study:</td>
<td>90h</td>
<td>60.00%</td>
</tr>
<tr>
<td>Module</td>
<td>Learning time</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>---------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Module 1</td>
<td>25h</td>
<td>a</td>
</tr>
<tr>
<td></td>
<td>Theory classes: 5h</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Practical classes: 5h</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Laboratory classes: 0h</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Guided activities: 0h</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Self study : 15h</td>
<td></td>
</tr>
<tr>
<td>Module 2</td>
<td>25h</td>
<td>a</td>
</tr>
<tr>
<td></td>
<td>Theory classes: 5h</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Practical classes: 5h</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Laboratory classes: 0h</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Guided activities: 0h</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Self study : 15h</td>
<td></td>
</tr>
<tr>
<td>Module 3:</td>
<td>25h</td>
<td>a</td>
</tr>
<tr>
<td></td>
<td>Theory classes: 5h</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Practical classes: 5h</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Laboratory classes: 0h</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Guided activities: 0h</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Self study : 15h</td>
<td></td>
</tr>
<tr>
<td>Module 4:</td>
<td>25h</td>
<td>a</td>
</tr>
<tr>
<td></td>
<td>Theory classes: 5h</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Practical classes: 5h</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Laboratory classes: 0h</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Guided activities: 0h</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Self study : 15h</td>
<td></td>
</tr>
</tbody>
</table>
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 = exams mark * 0.7 + Work mark * 0.2 + Oral presentation mark + Involvement mark * 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.

---

**Module 5: Pull.**

**Learning time:** 25h

- Theory classes: 5h
- Practical classes: 5h
- Laboratory classes: 0h
- Guided activities: 0h
- Self study: 15h

**Description:**


**Module 6:**

**Learning time:** 25h

- Theory classes: 5h
- Practical classes: 5h
- Laboratory classes: 0h
- Guided activities: 0h
- Self study: 15h

**Description:**


---

**Qualification 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 = exams mark * 0.7 + Work mark * 0.2 + Oral presentation mark + Involvement mark * 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:


Others resources:

Hyperlink

http://www.manufacturing-europe.com/

http://www.lean.org/

http://www.institutolean.org

http://www.leanglobal.org
340036 - ORPR-F5O32 - Production Organisation

http://www.poms.org/

http://www.wclass.com/