Course guides

240640 - 240640 - Plans and 3D Printing

Unit in charge: Barcelona School of Industrial Engineering
Teaching unit: 712 - EM - Department of Mechanical Engineering.
Degree: BACHELOR’S DEGREE IN INDUSTRIAL TECHNOLOGY ENGINEERING (Syllabus 2010). (Optional subject).
BACHELOR’S DEGREE IN MATERIALS ENGINEERING (Syllabus 2010). (Optional subject).
BACHELOR’S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2010). (Optional subject).

Academic year: 2020    ECTS Credits: 4.5    Languages: Catalan, Spanish

LECTURER

Coordinating lecturer: Fenollosa Artes, Felip

Others: Fenollosa Artes, Felip
Buj Corral, Irene

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
CE5. Spatial vision capacity and knowledge on graphic representation techniques, both with traditional methods of metrical geometry and descriptive geometry, and by means of computer aided design applications.
CE15. Basic knowledge of industrial production systems.
CETI6. Knowledge applied to manufacturing systems and processes, metrology and quality control.
CETI1. Knowledge and capacities to calculate, design and test machines.

General:
CG8. PROJECT MANAGEMENT: Being able to present, execute and direct Industrial Engineering projects, by means of applying scientific and technologic knowledge, attitudes and procedures, once conditions have been identified or valued.

Transversal:
05 TEQ. TEAMWORK. Being able to work as a team player, either as a member or as a leader. Contributing to projects pragmatically and responsibly, by reaching commitments in accordance to the resources that are available.
07 AAT. SELF-DIRECTED LEARNING. Detecting gaps in one’s knowledge and overcoming them through critical self-appraisal. Choosing the best path for broadening one’s knowledge.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Hours medium group</td>
<td>30,0</td>
<td>26.67</td>
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<tr>
<td>Self study</td>
<td>67,5</td>
<td>60.00</td>
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<td>Hours small group</td>
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<td>13.33</td>
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Total learning time: 112.5 h
<table>
<thead>
<tr>
<th>Title</th>
<th>Description</th>
<th>Full-or-part-time</th>
<th>Theory classes</th>
<th>Self study</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>26h 15m</td>
<td>10h 30m</td>
<td>15h 45m</td>
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<td>7h 30m</td>
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<td>18h 45m</td>
<td>7h 30m</td>
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<td></td>
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<td>26h 15m</td>
<td>10h 30m</td>
<td>Guided activities 15h 45m</td>
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title english

Description:
content english

Full-or-part-time: 26h 15m
Theory classes: 10h 30m
Self study : 15h 45m

GRADING SYSTEM

BIBLIOGRAPHY

Basic:

Complementary:

RESOURCES

Audiovisual material:
- Nom recurs. Resource