Course guides

220262 - 220262 - Machine Design and Mechanical Vibrations

Unit in charge: Terrassa School of Industrial, Aerospace and Audiovisual Engineering
Teaching unit: 712 - EM - Department of Mechanical Engineering.
Degree: MASTER'S DEGREE IN INDUSTRIAL ENGINEERING (Syllabus 2013). (Optional subject).
Academic year: 2020  ECTS Credits: 5.0  Languages: Catalan, English, Spanish

LECTURER

Coordinating lecturer: Clot Razquin, Arnau
Arcos Villamarín, Robert

Others: Orta Roca, Jordi

PRIOR SKILLS

...

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
5. Ability to learn and understand the dynamic phenomena and its formulation for application in the development of each of the stages of conception, design and mechanical calculations.

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 small group</td>
<td>15,0</td>
<td>12.00</td>
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<tr>
<td>Self study</td>
<td>80,0</td>
<td>64.00</td>
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<tr>
<td>Hours large group</td>
<td>30,0</td>
<td>24.00</td>
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</table>

Total learning time: 125 h
CONTENTS

Description:

Specific objectives:

Related activities:

**Full-or-part-time:** 4h
Theory classes: 2h
Self study: 2h

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Description:

Specific objectives:

Related activities:

**Full-or-part-time:** 60h 30m
Theory classes: 14h
Laboratory classes: 7h 30m
Self study: 39h

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Description:

Specific objectives:

Related activities:

**Full-or-part-time:** 60h 30m
Theory classes: 14h
Laboratory classes: 7h 30m
Self study: 39h
### ACTIVITIES

<table>
<thead>
<tr>
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<tr>
<td>Specific objectives:</td>
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<tr>
<td>Material:</td>
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<tr>
<td>Delivery:</td>
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<tr>
<td><strong>Full-or-part-time:</strong> 44h</td>
<td>Theory classes: 26h</td>
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<td>Self study: 18h</td>
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<td>Delivery:</td>
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<tr>
<td><strong>Full-or-part-time:</strong> 12h 30m</td>
<td>Laboratory classes: 3h 30m</td>
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<tr>
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<td>Self study: 9h</td>
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<tr>
<td></td>
<td>Self study: 9h</td>
</tr>
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</table>
Description:
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Specific objectives:
...

Material:
...

Full-or-part-time: 12h 30m
Laboratory classes: 3h 30m
Self study: 9h

Description:
...

Specific objectives:
...

Material:
...

Full-or-part-time: 12h 30m
Laboratory classes: 3h 30m
Self study: 9h

Description:
...

Specific objectives:
...

Material:
...

Delivery:
...

Full-or-part-time: 18h
Self study: 18h
Description:
...

Specific objectives:
...

Material:
...

Delivery:
...

**Full-or-part-time:** 6h
Theory classes: 2h
Self study: 4h

Description:
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Specific objectives:
...

Material:
...

Delivery:
...

**Full-or-part-time:** 7h
Theory classes: 2h
Laboratory classes: 1h
Self study: 4h

**GRADING SYSTEM**
...

**EXAMINATION RULES.**
...
BIBLIOGRAPHY

Basic:

RESOURCES

Other resources:
...