Course guides
340050 - TEMA-M5O12 - Machine Theory

Unit in charge: Vilanova i la Geltrú School of Engineering
Teaching unit: 712 - EM - Department of Mechanical Engineering.

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

Academic year: 2021  ECTS Credits: 6.0  Languages: Catalan, Spanish

LECTURER

Coordinating lecturer: JOAN SOLE ROVIRA
Others: JOAN SOLE ROVIRA
AMELIA NÁPOLES ALBERRO
ALBA LÓPEZ MORALES

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
3. CE13. Knowledge of theatrical basics of machines and mechanisms

Transversal:
2. SELF-DIRECTED LEARNING - Level 3. Applying the knowledge gained in completing a task according to its relevance and importance. Deciding how to carry out a task, the amount of time to be devoted to it and the most suitable information sources.

TEACHING METHODOLOGY

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LEARNING OBJECTIVES OF THE SUBJECT

When finishing the subject the student has to be able of:

- Analyze and relate the solicitations of a mechanical system with its motion.

STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours small group</td>
<td>7,5</td>
<td>5.00</td>
</tr>
<tr>
<td>Self study</td>
<td>90,0</td>
<td>60.00</td>
</tr>
<tr>
<td>Hours large group</td>
<td>52,5</td>
<td>35.00</td>
</tr>
</tbody>
</table>

Total learning time: 150 h
## CONTENTS

### (ENG) 1 - Cinemàtica de mecanismes

**Description:**

  

**Full-or-part-time:** 36h  
Theory classes: 11h 15m  
Laboratory classes: 3h 45m  
Self study : 21h

### (ENG) 2 - Dinàmica de mecanismes

**Full-or-part-time:** 36h  
Theory classes: 11h 15m  
Laboratory classes: 3h 45m  
Self study : 21h

### (ENG) 3 - Dinàmica de mecanismes

**Full-or-part-time:** 36h  
Theory classes: 11h 15m  
Laboratory classes: 3h 45m  
Self study : 21h

### (ENG) Proves d’avaluació individual

**Description:**

Written exams.

**Full-or-part-time:** 6h  
Guided activities: 6h

## ACTIVITIES

### A1. EVALUATION OF THE LEARNING PROCESS

**Full-or-part-time:** 40h  
Theory classes: 40h

### A2. EVALUATION FOR ACCREDITATION

**Full-or-part-time:** 4h  
Theory classes: 4h
GRADING SYSTEM

The training activities of knowledge acquisition and related to the control of the learning process of the student will be evaluated with the support of the platform SoRAP and will assume 6% of the final grade of the subject. The reduced group sessions of students will be carried out in a practical way and will correspond to 6% of the final grade of the subject. The assessment evaluation activities will be solved in two evaluation acts that will be planned by the School within the periods of partial evaluation and final evaluation, respectively. These accrediting evaluation activities will take the form of written exercises, their results will correspond to 88% of the final grade of the subject and will be reevaluable (during the reevaluation period) according to what is specified in the academic regulations of the Degree studies.

BIBLIOGRAPHY

Basic:

Complementary: