

340051 - RMA2-M5037 - Strength of Materials II

Coordinating unit: 340 - EPSEVG - Vilanova i la Geltrú School of Engineering
 Teaching unit: 737 - RMEE - Department of Strength of Materials and Structural Engineering
 Academic year: 2019
 Degree: BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Compulsory)
 BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
 BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
 ECTS credits: 6 Teaching languages: Catalan, Spanish, English

Teaching staff

Coordinator: Musté Rodríguez, Marta

Degree competences to which the subject contributes

Specific:

1. CE14. Knowledge and application of basics of material resistance.
2. CE22. Knowledge and ability to apply basics of elasticity and resistance of materials into behavior of real solids.

Transversal:

3. 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.

Learning objectives of the subject

Study load

Total learning time: 150h	Hours large group:	45h	30.00%
	Hours medium group:	0h	0.00%
	Hours small group:	15h	10.00%
	Guided activities:	0h	0.00%
	Self study:	90h	60.00%

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Content

(ENG) Flexió. Càlcul de bigues. Flexió esviada. Flexió hiperestàtica	Learning time: 10h 40m Theory classes: 2h Practical classes: 2h Self study : 6h 40m
(ENG) Torsió. Torsió hiperestàtica	Learning time: 7h 20m Theory classes: 1h Practical classes: 3h Self study : 3h 20m
(ENG) Sol.licitacions combinades	Learning time: 5h Theory classes: 2h Practical classes: 2h Self study : 1h
(ENG) Flexió. Bigues hiperestàtiques. Deformacions: teoremes energètics	Learning time: 13h Theory classes: 5h Practical classes: 5h Laboratory classes: 2h Self study : 1h
(ENG) Torsió i torsió hiperestàtica	Learning time: 9h Theory classes: 2h Practical classes: 6h Self study : 1h
(ENG) Sol·licitacions combinades	Learning time: 13h Theory classes: 4h Practical classes: 8h Self study : 1h



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Bibliography