



## Course guide

### 295401 - DIN - Dynamics

**Last modified:** 27/05/2024

**Unit in charge:** Barcelona East School of Engineering  
**Teaching unit:** 737 - RMEE - Department of Strength of Materials and Structural Engineering.

**Degree:** BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Compulsory subject).

**Academic year:** 2024    **ECTS Credits:** 6.0    **Languages:** Spanish

#### LECTURER

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**Coordinating lecturer:** DAVID SÁNCHEZ MOLINA

Primer quadrimestre:  
DAVID SÁNCHEZ MOLINA - Grup: M11, Grup: M12, Grup: M13, Grup: M14, Grup: T11, Grup: T12, Grup: T13

**Others:**

Primer quadrimestre:  
RODRIGO ESTEBAN ALVA BAÑUELOS - Grup: T13  
IGNASI DE POUPLANA SARDÀ - Grup: T11, Grup: T12  
DANIEL DI CAPUA - Grup: M11, Grup: M12  
DAVID SÁNCHEZ MOLINA - Grup: M11, Grup: M12, Grup: M13, Grup: M14, Grup: T11, Grup: T12, Grup: T13

Segon quadrimestre:  
IGNASI DE POUPLANA SARDÀ - Grup: M13, Grup: M14, Grup: T11, Grup: T12  
SILVIA GARCIA VILANA - Grup: M11, Grup: M12, Grup: M13, Grup: M14, Grup: M15, Grup: M16  
RAFAEL PACHECO BLAZQUEZ - Grup: M11, Grup: M12, Grup: M15, Grup: M16  
DAVID SÁNCHEZ MOLINA - Grup: T11, Grup: T12, Grup: T13

#### REQUIREMENTS

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SISTEMES MECÀNICS - Prerequisite

#### DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

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**Specific:**  
CEMEC-20. Calculate the characteristics of, design and test machines.

**Transversal:**

05 TEQ N1. TEAMWORK - Level 1. Working in a team and making positive contributions once the aims and group and individual responsibilities have been defined. Reaching joint decisions on the strategy to be followed.

07 AAT N1. SELF-DIRECTED LEARNING - Level 1. Completing set tasks within established deadlines. Working with recommended information sources according to the guidelines set by lecturers.

04 COE N1. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 1. Planning oral communication, answering questions properly and writing straightforward texts that are spelt correctly and are grammatically coherent.

03 TLG. THIRD LANGUAGE. Learning a third language, preferably English, to a degree of oral and written fluency that fits in with the future needs of the graduates of each course.



## TEACHING METHODOLOGY

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## LEARNING OBJECTIVES OF THE SUBJECT

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## STUDY LOAD

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Type	Hours	Percentage
Hours small group	15,0	10.00
Self study	90,0	60.00
Hours large group	45,0	30.00

Total learning time: 150 h

## CONTENTS

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### title english

**Description:**

content english

**Specific objectives:**

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**Related activities:**

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**Related competencies :**

07 AAT N1. SELF-DIRECTED LEARNING - Level 1. Completing set tasks within established deadlines. Working with recommended information sources according to the guidelines set by lecturers.

**Full-or-part-time:** 153h

Theory classes: 30h

Practical classes: 15h

Guided activities: 15h

Self study : 93h

## GRADING SYSTEM

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## BIBLIOGRAPHY

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**Basic:**

- Beer, Ferdinand Pierre ... [et al.]. Mecánica vectorial para ingenieros [on line]. 10ª ed. México [etc.]: McGraw-Hill, cop. 2013 [Consultation: 27/04/2020]. Available on:

[http://www.ingebook.com/ib/NPcd/IB\\_BooksVis?cod\\_primaria=1000187&codigo\\_libro=4260](http://www.ingebook.com/ib/NPcd/IB_BooksVis?cod_primaria=1000187&codigo_libro=4260). ISBN 9781456218317.

- Bedford, A; Fowler, Wallace. Mecánica para ingeniería [on line]. 5a ed. México: Pearson Educación, cop. 2008 [Consultation: 29/04/2020]. Available on: [http://www.ingebook.com/ib/NPcd/IB\\_BooksVis?cod\\_primaria=1000187&codigo\\_libro=1279](http://www.ingebook.com/ib/NPcd/IB_BooksVis?cod_primaria=1000187&codigo_libro=1279). ISBN 9786074428759.



## RESOURCES

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Other resources: