

Course guides

280022 - 280022 - Mechanical Engineering Applied to Marine Systems

Last modified: 08/06/2021

Unit in charge: Barcelona School of Nautical Studies
Teaching unit: 742 - CEN - Department of Nautical Sciences and Engineering.

Degree: Academic year: 2021 **ECTS Credits:** 3.0
Languages: Spanish

LECTURER

Coordinating lecturer:

Others:

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

CE9MEM. Interpret operation, monitoring, performance evaluation and Maintaining security of propulsion installation and auxiliary machinery.

CE10MEM. Identify and define the causes of defects performances of the marine facilities.

Generical:

CG1MEM. Identify marine facilities. Influencing design activities, redesign, planning, management and operation thereof.

CG4MEM. Implement alternative and innovative solutions to engineering problems marina.

CG7MEM. Check with an advanced level processes operation, maintenance and repair.

Transversal:

CT4. EFFECTIVE USE OF INFORMATION RESOURCES: Managing the acquisition, structuring, analysis and display of data and information in the chosen area of specialisation and critically assessing the results obtained.

TEACHING METHODOLOGY

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LEARNING OBJECTIVES OF THE SUBJECT

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STUDY LOAD

Type	Hours	Percentage
Hours large group	27,0	100.00

Total learning time: 27 h

CONTENTS

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Description:

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Full-or-part-time: 6h

Guided activities: 2h

Self study : 4h

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Description:

content english

Full-or-part-time: 18h

Guided activities: 6h

Self study : 12h

title english

Description:

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Full-or-part-time: 5h

Guided activities: 2h

Self study : 3h

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Description:

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Full-or-part-time: 6h

Guided activities: 2h

Self study : 4h

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Description:

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Full-or-part-time: 6h

Guided activities: 2h

Self study : 4h

Description:

Full-or-part-time: 11h

Guided activities: 4h

Self study : 7h

Description:

Full-or-part-time: 23h

Guided activities: 9h

Self study : 14h

GRADING SYSTEM

EXAMINATION RULES.

BIBLIOGRAPHY

Basic:

- Calero Pérez, Roque; Carta González, José Antonio. Fundamentos de mecanismos y máquinas para ingenieros. Madrid: McGraw-Hill, 1999. ISBN 844812099X.
- Spotts, M. F. Proyecto de elementos de máquinas. 4a ed. Barcelona: Reverté, 1982. ISBN 8429160863.
- Cervera Ruiz, Miguel; Blanco Díaz, Elena. Mecánica de estructuras. Vol. 1 : Resistencia de materiales [on line]. 2a ed. Barcelona: Edicions UPC, 2002 [Consultation: 22/10/2018]. Available on: <http://hdl.handle.net/2099.3/36196>. ISBN 848301517X.

Complementary:

- Timoshenko, Stephen; Goodier, J.N. Teoría de la elasticidad. 2a ed. Bilbao: Urmo, 1975. ISBN 8431402318.
- Gere, James M. Resistencia de materiales. 5a ed. Madrid: International Thomson, 2002. ISBN 9788497320658.
- Ortiz Berrocal, Luis. Elasticidad. 3a ed. Madrid: McGraw-Hill, 1998. ISBN 8448120469.
- Niemann, G. Elementos de máquinas. Barcelona: Labor, 1987. ISBN 9788433562913.
- Vázquez Fernández, Manuel. Resistencia de materiales. 4a ed. Madrid: Noela, 1999. ISBN 8488012055.