

330400 - M - Mathematics

Coordinating unit: 330 - EPSEM - Manresa School of Engineering
 Teaching unit: 749 - MAT - Department of Mathematics
 Academic year: 2019
 Degree: BACHELOR'S DEGREE IN MINING ENGINEERING (Syllabus 2016). (Teaching unit Compulsory)
 ECTS credits: 6 Teaching languages: Catalan, Spanish

Teaching staff

Coordinator: Gimenez Pradales, Jose Miguel
 Others: Alsina Aubach, Montserrat - Cors Iglesias, Josep M. - Domenech Blazquez, Margarita - Freixas Bosch, Josep - Palacios Quiñonero, Francisco - Pons Valles, Montserrat - Puente Del Campo, M. Albina - Rossell Garriga, Josep Maria - Rubió Masegú, Josep - Ventura Capell, Enric

Degree competences to which the subject contributes

Specific:

1. (ENG) Capacitat per a la resolució dels problemes matemàtics que puguin sorgir en l'enginyeria. Aptitud per aplicar els coneixements sobre: àlgebra lineal, geometria, geometria diferencial, càlcul diferencial i integral i equacions diferencials ordinàries.

Transversal:

2. 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.
3. 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.
4. SELF-DIRECTED LEARNING - Level 1. Completing set tasks within established deadlines. Working with recommended information sources according to the guidelines set by lecturers.

Learning objectives of the subject

Study load

Total learning time: 150h	Hours large group:	0h	0.00%
	Hours medium group:	60h	40.00%
	Hours small group:	0h	0.00%
	Guided activities:	0h	0.00%
	Self study:	90h	60.00%

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Content

<p>title english</p>	<p>Learning time: 10h Theory classes: 2h Laboratory classes: 2h Self study : 6h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 30h Theory classes: 6h Laboratory classes: 6h Self study : 18h</p>
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<p>title english</p>	<p>Learning time: 30h Theory classes: 6h Laboratory classes: 6h Self study : 18h</p>
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title english	Learning time: 20h Theory classes: 4h Laboratory classes: 4h Self study : 12h
Description: content english	

title english	Learning time: 30h Theory classes: 6h Laboratory classes: 6h Self study : 18h
Description: content english	

Planning of activities

name english	Hours: 14h Theory classes: 2h Self study: 12h
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name english	Hours: 14h Theory classes: 2h Self study: 12h
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name english	Hours: 18h Theory classes: 3h Self study: 15h
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Bibliography

Basic:

Lay, David C. Álgebra lineal y sus aplicaciones. 4a ed. México: Pearson Educación, 2012. ISBN 9786073213981.

Nakos, George; Joyner, David. Álgebra lineal con aplicaciones. México, D.F. [etc.]: International Thomson, cop. 1999. ISBN 9687529865.

Larson, Roland ; Edwards, Bruce H. Cálculo. 9a ed. Madrid: McGraw-Hill, 2010. ISBN 9786071502735.

Stewart, James. Cálculo de una variable: trascendentes tempranas. 6ª ed. México: International Thomson, 2008. ISBN 9789706866530.

Stewart, James. Cálculo multivariable. 4a ed. México: International Thomson, 2001. ISBN 9706861238.