

330405 - EAP - Applied Statistics

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: 4,5 Teaching languages: Catalan

Teaching staff

Coordinator: Palacios Quiñonero, Francisco
 Others: Alsina Aubach, Montserrat - Cors Iglesias, Josep M. - Domenech Blazquez, Margarita - Freixas Bosch, Josep - Gimenez Pradales, Jose Miguel - Molina Hernandez, M. Antonia - Molinero Albareda, Xavier - 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 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, equacions diferencials i en derivades parcials, mètodes numèrics, algorísmica numèrica, estadística i optimització.

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: 112h 30m	Hours large group:	0h	0.00%
	Hours medium group:	45h	40.00%
	Hours small group:	0h	0.00%
	Guided activities:	0h	0.00%
	Self study:	67h 30m	60.00%

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Content

title english	Learning time: 22h 30m Theory classes: 3h Laboratory classes: 6h Self study : 13h 30m
Description: content english	
title english	Learning time: 30h Theory classes: 4h Laboratory classes: 8h Self study : 18h
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Planning of activities

name english	Hours: 4h Laboratory classes: 1h Self study: 3h
name english	Hours: 4h Laboratory classes: 1h Self study: 3h
name english	Hours: 4h Laboratory classes: 1h Self study: 3h
name english	Hours: 16h Theory classes: 4h Self study: 12h

Bibliography

Basic:

Forcada, Santiago; Rubió Massegú, Josep. Elements d'estadística [on line]. Barcelona: Edicions UPC, 2007 [Consultation: 13/03/2018]. Available on: <<http://hdl.handle.net/2099.3/36675>>. ISBN 9788483019269.

Grima Cintas, Pere; Marco Almagro, Lluís; Tort-Martorell Llabrés, Xavier. Estadística pràctica con Minitab. Madrid [etc.]: Pearson Educación, cop. 2004. ISBN 8420543551.

Ryan, Barbara F; Joiner, Brian L. Minitab handbook. 3rd ed. Belmont, CA: Duxbury Press, 1994. ISBN 0534212409.

Walpole, Ronald E. Probabilidad y estadística para ingeniería y ciencias. 9ª ed. México: Pearson Educación, 2012. ISBN 9786073214179.

Complementary:

Devore, Jay L. Probabilidad y estadística para ingeniería y ciencias. 6ª ed. México [etc.]: Thomson, 2005. ISBN 9706864571.

Lipschutz, Seymour; Schiller, John J. Introducción a la probabilidad y estadística. Madrid [etc.]: McGraw-Hill/Interamericana de España, DL 2001. ISBN 8448125045.

Mendenhall, William; Scheaffer, Richard L; Wackerly, Dennis D. Estadística matemática con aplicaciones. México: Grupo Editorial Iberoamérica, 1986. ISBN 9687270179.

Moore, David S. Estadística aplicada básica. 2a ed. Barcelona: Antoni Bosch, 2005. ISBN 8495348047.