

## 820457 - DMM - Diagnosis of Machines

Coordinating unit: 820 - EUETIB - Barcelona College of Industrial Engineering  
 Teaching unit: 712 - EM - Department of Mechanical Engineering  
 Academic year: 2014  
 Degree: BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)  
 ECTS credits: 6 Teaching languages: Catalan, Spanish

### Teaching staff

Coordinator: Jesus M<sup>a</sup> Petreñas Ranedo - JESUS MARIA PETREÑAS RANEDO  
 Others: Jesus M<sup>a</sup> Petreñas Ranedo y Enric Porta

### Degree competences to which the subject contributes

#### Specific:

1. Summarise information and undertake self-directed learning activities.
2. Understand and apply the fundamentals of fluid mechanics systems and machines.
3. Study the feasibility of a proposed project.

#### Transversal:

4. SELF-DIRECTED LEARNING - Level 1. Completing set tasks within established deadlines. Working with recommended information sources according to the guidelines set by lecturers.
5. 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.

### 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) (CAT) Tema 1: Introducció; definicions, classificacions.

Degree competences to which the content contributes:

(ENG) (CAT) Tema 2 : Manteniment assistit per ordinador. MAO

Degree competences to which the content contributes:

(ENG) (CAT) Tema 3 : Manteniment Preventiu

Degree competences to which the content contributes:

(ENG) (CAT) Tema 4 : Manteniment de instal·lacions de B.T.

Degree competences to which the content contributes:

(ENG) (CAT) Tema 5: Mantenimiento contratado y subcontratado

Degree competences to which the content contributes:

(ENG) Tema 6: Manteniment d' elements mecànics

Degree competences to which the content contributes:

(ENG) (CAT) Tema 7: Treball sobre manteniment

Degree competences to which the content contributes:

(ENG) (CAT) Tema 8: Manteniment Predictiu

Degree competences to which the content contributes:

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### Planning of activities

(ENG) (CAT) (CAST) (CAT) EXPOSICIÓ  
UTILIZANDO PRESENTACIÓ EN  
POWERPOINT

Hours: 6h 06m  
Theory classes: 2h  
Practical classes: 2h  
Laboratory classes: 2h 06m

(ENG) (CAT) (CAST) (CAT) RESOLUCION DE EJERCICIOS

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### Bibliography

#### Basic:

Rosaler, R. C.; Rice, J. O. (eds.). Manual de mantenimiento industrial. México [etc.]: McGraw-Hill, cop. 1993. ISBN 9701003926.

Borda Elejabarrieta J. Técnicas de mantenimiento avanzado y competitividad industrial. Bilbao: Deusto, DL 1991. ISBN 8423409341.

Jesus M<sup>a</sup> Petreñas. Técnicas de mantenimiento (Apuntes de Clase). 2000. Terrassa: EUETIB, 2000.

#### Others resources:

##### Audiovisual material

Soporte de CD para estudio por parte del alumno de Mantenimiento Industrial. apuntes del Postgrado de Mantenimiento industrial en Terrassa 2000.