



Course guides

330100 - GM - Maintenance Management

Last modified: 05/05/2020

Unit in charge: Manresa School of Engineering
Teaching unit: 712 - EM - Department of Mechanical Engineering.

Degree: BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN ENERGY AND MINING RESOURCE ENGINEERING (Syllabus 2012). (Optional subject).
BACHELOR'S DEGREE IN MINING ENGINEERING (Syllabus 2016). (Optional subject).
BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2016). (Optional subject).
BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2016). (Optional subject).
BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2016). (Optional subject).
BACHELOR'S DEGREE IN AUTOMOTIVE ENGINEERING (Syllabus 2017). (Optional subject).

Academic year: 2020 **ECTS Credits:** 6.0 **Languages:** English

LECTURER

Coordinating lecturer: ESTEBAN PEÑA PITARCH

Others: JOSE ORTUÑO MARTIN - FERRAN MARTINEZ CANO

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

1. (ENG) Coneixements i capacitats per la gestió del manteniment.
2. (ENG) Augmentar las seves opinions i la de tercers de forma lògica i coherent en contextos multilingüe. Utilitzar la terminologia tècnic-científica relativa a la gestió del manteniment en diferents idiomes, especialment l'anglès.
3. (ENG) Redactar informes tècnics i projectes relatius al manteniment de productes, màquines industrials i instal·lacions.

Transversal:

4. TEAMWORK - Level 3. Managing and making work groups effective. Resolving possible conflicts, valuing working with others, assessing the effectiveness of a team and presenting the final results.
5. 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

LEARNING OBJECTIVES OF THE SUBJECT



STUDY LOAD

Type	Hours	Percentage
Hours small group	30,0	20.00
Hours large group	30,0	20.00
Self study	90,0	60.00

Total learning time: 150 h

CONTENTS

(ENG) Títol del contingut 1: Introducció a la gestió del manteniment

Full-or-part-time: 10h

Theory classes: 3h

Laboratory classes: 1h

Self study : 6h

(ENG) Títol del contingut 2: Gestió dels equips

Full-or-part-time: 10h

Theory classes: 3h

Laboratory classes: 1h

Self study : 6h

(ENG) Títol del contingut 3: Gestió dels recursos humans

Full-or-part-time: 10h

Theory classes: 3h

Laboratory classes: 1h

Self study : 6h

(ENG) Títol del contingut 4: Gestió dels treballs

Full-or-part-time: 10h

Theory classes: 3h

Laboratory classes: 1h

Self study : 6h

(ENG) Títol del contingut 5: Manteniment correctiu

Full-or-part-time: 40h

Theory classes: 12h

Laboratory classes: 4h

Self study : 24h



(ENG) Títol del contingut 6: Manteniment preventiu

Full-or-part-time: 40h
Theory classes: 12h
Laboratory classes: 4h
Self study : 24h

(ENG) Títol del contingut 7: Manteniment predictiu

Full-or-part-time: 30h
Theory classes: 9h
Laboratory classes: 3h
Self study : 18h

ACTIVITIES

(ENG) TÍTOL DE L'ACTIVITAT 1: ESTUDI D'UNA MÀQUINA

Full-or-part-time: 4h
Laboratory classes: 1h
Self study: 3h

(ENG) TÍTOL DE L'ACTIVITAT 2: GESTIÓ DELS EQUIPS

Full-or-part-time: 4h
Laboratory classes: 1h
Self study: 3h

(ENG) TÍTOL DE L'ACTIVITAT 3: GESTIÓ DELS RECURSOS HUMANS

Full-or-part-time: 4h
Laboratory classes: 1h
Self study: 3h

(ENG) TÍTOL DE L'ACTIVITAT 4: GESTIÓ DELS TREBALLS

Full-or-part-time: 10h
Laboratory classes: 1h
Self study: 9h

(ENG) TÍTOL DE L'ACTIVITAT 5: MANTENIMENT CORRECTIU

Full-or-part-time: 12h
Laboratory classes: 3h
Self study: 9h



(ENG) TÍTOL DE L'ACTIVITAT 6: MANTENIMENT PREVENTIU

Full-or-part-time: 12h
Laboratory classes: 3h
Self study: 9h

(ENG) TÍTOL DE L'ACTIVITAT 7: MANTENIMENT PREDICTIU

Full-or-part-time: 11h
Laboratory classes: 2h
Self study: 9h

GRADING SYSTEM

BIBLIOGRAPHY

Complementary:

- Mobley, R. K., ed. Maintenance engineering handbook. 8th ed. New York: McGraw-Hill, 2014. ISBN 9780071826617.
- Kelly, A.; Harris, M. J. Management of industrial maintenance. London: Butterworths, 1987. ISBN 040801377X.
- Bloch, H. P.; Geitner, F. K. Machinery failure analysis and troubleshooting. 2nd ed. Houston: Gulf, 1994. ISBN 0872012328.
- Monchy, F. Teoría y práctica del mantenimiento industrial. Barcelona: Masson, 1990. ISBN 8431105240.
- Navarro Elola, L.; Pastor Tejedor, A. C.; Mugabaru Lacabrera, J. M. Gestión integral de mantenimiento. Barcelona: Marcombo, 1997. ISBN 8426711219.