

Course guide 240IEL33 - 240IEL33 - Control and Protection of Electrical Systems

Academic year: 2023	ECTS Credits: 4.5 Languages: Spanish
Degree:	MASTER'S DEGREE IN INDUSTRIAL ENGINEERING (Syllabus 2014). (Optional subject).
Unit in charge: Teaching unit:	Barcelona School of Industrial Engineering 709 - DEE - Department of Electrical Engineering.

LECTURER

Coordinating lecturer: Bosch Tous, Ricardo

Others:

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

CEEELEC6. Model and solve problems related to the operation of the electric energy integrating the information technologies and the communications: protections, network operations, electrical market and stability.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

Acquire knowledge for the analysis of all the electrical systems in normal operation and in emergency situations

STUDY LOAD

Туре	Hours	Percentage
Hours large group	27,0	24.00
Hours small group	13,5	12.00
Self study	72,0	64.00

Total learning time: 112.5 h

CONTENTS

title english	
Description: content english	
Full-or-part-time: 6h Practical classes: 6h	

Last modified: 16/05/2023



title english

Description: content english

Full-or-part-time: 6h Practical classes: 6h

title english

Description: content english

Full-or-part-time: 10h Practical classes: 10h

title english

Description: content english

Full-or-part-time: 10h Practical classes: 10h

title english

Description: content english

Full-or-part-time: 8h Practical classes: 8h

GRADING SYSTEM

Continuous assessment through case and laboratory work during the course.

Reassessment by written and practical examination on the contents of the subject seen during the course.

BIBLIOGRAPHY

Basic:

- Elgerd, Olle Ingemar. Electric energy systems theory : an introduction. 2nd ed. New York [etc.]: McGraw-Hill, cop. 1982. ISBN 0070192308.

- Weedy, B. M. Sistemas eléctricos de gran potencia. Barcelona [etc.]: Reverté, DL 1978. ISBN 8429130942.