

GENERAL INFORMATION

Course information 1	
Name	Internship
Code	INT
Degree	Master in the Electric Power Industry (MEPI)
Year	1 st
Semester	Annual
ECTS credits	6 ECTS
Type	Elective
Department	Electrical Engineering
Area	Power Systems
Coordinator	Luis Olmos Camacho

Instructor	
Name	Luis Olmos Camacho
Department	Electrical Engineering
Area	Regulation and Economics of Energy
Office	D-404 – IIT, Santa Cruz de Marcenado 26
e-mail	olmos@comillas.edu
Phone	(+34) 91 540 62 60
Office hours	Arrange an appointment through email.

DETAILED INFORMATION

Contextualization of the course
Contribution to the professional profile of the degree
The objective of the Internship is for the student to apply the skills acquired throughout the masters program to real tasks to be carried in an entity of the power sector, and to obtain some experience of working in a professional environment.
Prerequisites
None prerequisites apply.

CONTENTS

Contents
Theory (Laboratory sessions marked in red)
Chapter 1. Collection of proposals and allocation of internships to students
1.1. Collection and refinement of proposals for internships 1.2. Allocation of internships to students
Chapter 2. Monitoring of the progress with the internship work
2.1. Interaction with internship supervisor
Chapter 3. Reporting on the work carried out
3.1. Report by student 3.2. Report by supervisor

Competences and Learning Outcomes

Competences

General Competences / Basic Competences

- CG1. Haber adquirido conocimientos avanzados y demostrado, en un contexto de investigación científica y tecnológica o altamente especializado, una comprensión detallada y fundamentada de los aspectos teóricos y prácticos y de la metodología de trabajo en uno o más campos de estudio.
- CG2. Saber aplicar e integrar sus conocimientos, la comprensión de estos, su fundamentación científica y sus capacidades de resolución de problemas en entornos nuevos y definidos de forma imprecisa, incluyendo contextos de carácter multidisciplinar tanto investigadores como profesionales altamente especializados.
- CG6. Haber desarrollado la autonomía suficiente para participar en proyectos de investigación y colaboraciones científicas o tecnológicas dentro de su ámbito temático, en contextos interdisciplinarios y, en su caso, con una alta componente de transferencia del conocimiento.
- CG7. Ser capaces de asumir la responsabilidad de su propio desarrollo profesional y de su especialización en uno o más campos de estudio.

Specific Competences

- INT1. Demostrar la capacidad de desarrollar una actividad profesional en el seno de alguna de las empresas colaboradoras con el Título bajo la supervisión de un profesional del sector.

Learning outcomes

Upon the completion of the Master's Internship, the students will have to be able to:

- LO1. Become acquainted with work in a professional environment, acquiring and applying skills related to team work, personal accountability, and discipline of work in such an entity.
- LO2. Undertake projects in a professional environment.

TEACHING METHODOLOGY

General methodological aspects

The internship work is to be carried out without a company cooperating with the program and should be supervised by an experienced professional within the electricity sector.

Entities within the electricity sector shall offer some internships at the beginning of the academic year. These shall be allocated by the thesis coordinator within the University. The coordinator shall put students in contact with potential internship supervisors in companies according to their academic and professional preferences and profile. The coordinator shall monitor the quality of tasks performed by students within companies and shall be responsible for the final assessment of the internship work.

The individual work developed by the student is essential and it should cover the activities that follow.

Internship (180 hours)	Competences
▪ Regular meetings with internship coordinator (4 hours)	CG1, CG6, CG7
▪ Identification of a topic (8 hours)	CG6, CG7
▪ Work within a professional team (140 hours): becoming part of a team undertaking some activities within a department of an entity in the electricity sector, while the student's work is monitored by the internship supervisor.	CG1, CG2, CG6, CG7, INT1
▪ Drafting of report (28 hours)	CG1, CG2

ASSESSMENT AND GRADING CRITERIA

Assessment activities	Grading criteria	Weight
Internship work (assessed by the supervisor)	<ul style="list-style-type: none"> Performance of the student as a member of the professional team 	60%
Professional environment (assessed by the student)	<ul style="list-style-type: none"> Description on the company where he has undertaken the internship Tasks accomplished Conclusions of the work carried out Personal thoughts and proposals for improvement 	40%

GRADING AND COURSE RULES

The internship coordinator within Pontifical Comillas University shall be responsible of grading the internship work carried out by the student, acting as coordinator of the corresponding subject. Aspects to take into account in the assessment and their relative weights follow.

Grading
Regular assessment
<ul style="list-style-type: none"> Assessment of the student's performance (report by the thesis supervisor), accounts for 60% Assessment of the internship report written by the student, accounts for 40%
Course rules
Students who commit an irregularity in any graded activity will receive a mark of zero in the activity and disciplinary procedure will follow (cf. Article 168 of the General Regulations (Reglamento General) of Comillas Pontifical University).

WORK PLAN AND SCHEDULE¹

In and out-of-class activities	Date/Periodicity	Deadline
Presentation and discussion of planning and rules	Week 1	
Presentation of possible topics	Week 7 (discussion 1 st set), week 14 (discussion 2 nd set)	
Selection of topics		Week 10, week 18
Monitoring of work progress	Throughout the academic year	
Internship work	Throughout the academic year	

¹ A detailed work plan of the subject can be found in the course summary sheet (see following page). Nevertheless, this schedule is tentative and may vary to accommodate the rhythm of the class.

Submission of reports	At the end of the academic year (beginning of July)	
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STUDENT WORK-TIME SUMMARY		
IN-CLASS HOURS		
Regular meetings with internship coordinator		
4		
OUT-OF-CLASS HOURS		
Identification of topic	Development of internship work	Drafting of report
8	140	28
ECTS credits:		6 (180 hours)