COMILLAS & ICAI ENGINEERING MADRID

POST GRADUATE 23-24

MÁSTER UNIVERSITARIO EN

SECTOR ELÉCTRICO/ THE ELECTRIC POWER INDUSTRY

ENGINEERING AREA

COMILLAS UNIVERSIDAD PONTIFICIA ICAI

ICAI School of Engineering
Alberto Aguilera Campus, Madrid

MANIFESTO

COMILLAS IS MANY THINGS.

IT´S COMMITMENT
IT´S CARE
IT´S COMMUNITY

COMILLAS & AND EVERYTHING THAT COMES WITH US

- Comillas is Business and Law at ICADE.
- Comillas is Engineering at ICAI.
- Comillas is Humanities at CIHS.
- Comillas is the best Nursing and Physiotherapy School, San Juan de Dios.
- Comillas is 4 interconnected campuses in Madrid with double/dual degrees and cross-cutting courses.
- Comillas is history, innovation, experience and recognition.
- Comillas is committed to providing the best education, with the best professors and people, the best internships, opportunities and companions, the best values and personalised attention.
- And if you join us, COMILLAS WILL BE YOU.

OFFICIAL MASTER'S DEGREE IN

THE ELECTRIC POWER INDUSTRY

[more information]

OBJECTIVES

For students, upon completion of the course, to sucessfully address the challenges posed by the economic and regulatory aspects of the management of the main activities within the electric power industry.

STUDENT PROFILE

Engineers and university graduates in economics, mathematics, or physics seeking a career in the electricity industry. The course is also intended for working professionals, who will find it compatible with their schedules.

WHY TAKING THIS COURSE?

The liberalisation and de-regulation of the electric power industry, which started to take place already two decades ago, and the transformation it is undergoing to become the driver of the decarbonization of the economy, create a need for industries and public institutions to hire skilled professionals capable of understanding electricity markets, and participating actively in their management and regulation.

The MEPI offers the opportunity to become a qualified professional by delivering to the students an interdisciplinary curriculum that combines engineering, regulatory and economics courses. MEPI students have access, through direct contact with the most prominent industry professionals, to first hand information on practical applications as well as to the latest advances and trends that set the pace of progress in this industry.

MEPI students also acquire hands-on experience by undertaking a master's thesis at one of the partner companies, under the supervision of an experienced professional.

LANGUAGE

English.

"The strengths of the Master in the Electric Power Industry are the combination of theoretical contents and their practical application.
The content is well balanced and it covers all the aspects of Electric Power Industries that are needed in today's global environment. I have progressed in my career, and my job opportunities have grown extensively.

JUAN PALOMARES.
Official Master's Degree in the Electric Power Industry from Comillas Pontifical University.

PARTNERS

endesa · IBERDROLA · Naturgy · omie · CNMC Comisión Nacional de los Mercados y la Competencia · Asociación / Colegio Nacional de Ingenieros del ICAI · ENGIE · KPMG · red eléctrica

PROGRAM

The course curriculum includes 12 subjects, in addition to specialized conferences, technical visits and a master thesis.

1º SEMESTER

Electric power systems ..... 6 ECTS

Regulation of the electric power industry ..... 6 ECTS

Economy of the electric power industry ..... 6 ECTS

Decision support models in the electric power industry ..... 6 ECTS

2º SEMESTER

Wholesale and retail electricity markets ..... 6 ECTS

Network Business: Transmission, Distribution and Smart Grids ..... 6 ECTS

Environmental and renewable energy policy ..... 3 ECTS

The natural gas industry and fuel markets ..... 3 ECTS

Management skills ..... 2 ECTS

Business ethics ..... 1 ECTS

Law and Legislation of the power industry ..... 3 ECTS

MASTER'S THESIS ..... 6 ECTS

INTERNSHIP OR ELECTIVES ..... 6 ECTS

Complement for students without a background in electrical engineering and optimization techniques:

Fundamentals on electrical engineering and optimization techniques ..... 3 ECTS

Of the various options open to students charting a course for their careers, the energy, and in particular the electricity industry, feature a number of characteristics particularly attractive.

The universal use of electric power, the creation of electricity markets, the opening of new lines of business in electric utilities, the implementation of new generating technologies such as those based on the use of renewable energy sources, the interaction with other industries, such as gas, the need to regulate the industry and incorporate environmental criteria, the internationalization of energy markets and so on, are but a few of the many issues that illustrate the variety of areas in which to pursue an exciting career.

The official Master Degree in the Electric Power Industry (MEPI) trains a new generation of experts and professionals able to develop, to research and to innovate in this industry on an international scale.

ADMISSION CRITERIA

- Hold a B.A., B.Sc., or a degree in engineering or architecture or equivalent.
- Have a good academic record.
- Substantiate a sufficient command of the english language to ensure full comprehension of class discussion and course documents.
- Work experience in electric utilities will be highly appreciated.

NEW PLACES AVAILABLE

25

DURATION AND TIMETABLES

1 year (September to June). Monday through Thursday, from 5:00 p.m. to 9:00 p.m.

TUITION FEE

Full Master's Degree Program: **€17,231**

- Registration fee: **€2,480.40**
- 8 installments: **€1,843.76**

Available scholarships for taking an internship in one of the sponsoring companies (up to €6,000).

10% discount for Comillas Alumni.

CREDITS

60 ECTS

LOCATION

VENUE Alberto Aguilera
ICAI School of Engineering
C/ Alberto Aguilera, 25. 28015 Madrid

PROGRAM DIRECTOR

Luis Olmos Camacho
luis.olmos@iit.comillas.edu

COMILLAS &

COMMITMENT
CARE AND FAIR
COMMUNITY
EVERYTHING THAT
COMES WITH US

EVERYTHING YOU NEED TO KNOW

FUTURE STUDENTS OFFICE
C/ Alberto Aguilera, 21 - 28015 Madrid, SPAIN
+34 915 406 132
futurosalumnos@comillas.edu

comillas.edu