



Bachelor • Porto

ENERGY SYSTEMS ELECTROTECHNICAL ENGINEERING



Direction

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Exams

Have the following set:

- 07 Física e Química and 16 Matemática

Secretariat

Inês de Freitas Ramos
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Duration

3 Years

Credits

180 ects

Presentation

The degree of Electrical Engineering of Power Systems aims training highly skilled electrical power engineers who have expertise ranging from electrical systems design to management and control of power systems, including the fields of power generation, transmission, distribution and utilization, as well as the energy conversion systems based on power electronic converter technologies. Throughout the programme, the students will gain the fundamental understanding in electrical energy and power systems. In addition, they will develop other skills concerning the development, operation, maintenance, commissioning and technical assistance of sales departments for electrical energy and power systems. Thus, this graduation lays the groundwork for the pursuit of an advanced degree or provides the opportunity for career advancement. After graduation the students are able to perform a set of activities, within the framework of electrical engineering and power systems domain, as follows: √ Provision of technical support for sales and innovative management approaches; √ Maintenance of electrical facilities, systems and devices; √ Design of low voltage electrical networks; √ Design and development of electrical devices and

Electrical Engineering of Power System graduation is included in the FEANI INDEX.
Also it is registered in the Portuguese Order of Technical Engineers, enabling also the admission to other professional orders.

STUDY PLAN

1st Year / Common Core

1º Semestre	ects	2º Semestre	ects
Algebra	6	Computer Science and Programming	4
Digital Systems	5	Electrical Circuits II	5
Electrical Circuits I	5	Engineering Laboratories II	4
Engineering Laboratories I	4	Mathematical Analysis II	6
Mathematical Analysis I	6	Statistics	6
Physics	5	Technical Drawing and CAD	4

2nd Year / Common Core

1º Semestre	ects	2º Semestre	ects
Automation and Control	5	Electrical Installations	5
Electrical Facilities Laboratory	4	Electrical Machines I	5
Electromagnetism	5	Electronics	5
Energy Electric Systems I	5	Energy Electric Systems II	5
Mathematical Analysis III	6	Numerical Methods	5
Signals and Systems	5	Power Electronics	5

3rd Year / Common Core

Semestral	ects	1º Semestre	ects	2º Semestre	ects
Optional II	5	Electrical Facilities Project	5	End of Course Project	10
		Electrical Machines II	5	Energy Markets	5
		Energy and Energy Efficiency Management	5	Fundamentals of Economics and Management	4
		Optional I	5	Smart Grids and Electric Mobility	5
		Renewable Energies	5		
		Transport and Distribution Networks	6		

Linha direta
para o teu futuro



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