MASTER OF SCIENCE IN ELECTROMECHANICAL ENGINEERING (ELECTRICAL POWER ENGINEERING)

120 ECTS CREDITS - LANGUAGE: ENGLISH

The Faculty of Engineering and Architecture (FEA) offers most of its Engineering programmes at Master's level in English. This underlines the international ambition of the faculty, as well as the importance of an international education and multiple language skills for students.

WHAT

The world of electromechanical engineering encompasses development, design, manufacturing, testing and control of tools, machines, vehicles and other electrical or mechanical systems, as well as research on these topics. The Electromechanical Engineering is a two-year degree programme intended to prepare students for a future technical leadership role in industry. The programme offers in-depth training in all aspects of electromechanical engineering and its economic and social implications based on a solide scientific basis.
Graduates will have acquired an attitude of scientific synthesis, analytical reasoning as well as scientific and technical independence. Training in research skills provides mastery in developing, implementing and monitoring technical and scientific innovations.

STRUCTURE

The programme consists of a general module, main subject modules, electives and a dissertation. The general module contains course units on all topics related to Electromechanical Engineering, ranging from electrical drives and machine manufacturing, to management skills.
Students can choose one of five main subject modules with specialist course units on different topics of interest. The Electrical Power Engineering main subject handles all aspects of generation, distribution and use of electrical energy, with special attention to electrical machines and drives, and electrical power systems.
Through elective course units students broaden their knowledge and skills on technical and non-technical topics. The Master's dissertation is a final step in the learning process. It aims at fostering the ability to conduct scientific research independently.

LABOUR MARKET

Electromechanical Engineering graduates from all five main subjects are employed in all branches of industry. Both at government agencies and private companies, their range of professional activity is broad and varied: electrical energy production and distribution, electrical and mechanical equipment manufacturing, metal industry, building construction, transport, consultancy, banking and insurance.
Electrical Power Engineering graduates are employed by electrical utilities and electrical equipment manufacturers. Their activities are situated in the development, design and control of machines and equipment for generation and distribution of electric energy (alternators, transformers, high-voltage lines) and for use of electrical energy (electric drive technologies, mechatronics) and in the operation of electrical transmission and distribution networks.

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ADMISSION REQUIREMENTS FOR INTERNATIONAL DEGREE STUDENTS

Students who wish to enrol for the Master of Science in Electromechanical Engineering can enter the programme without any prerequisites if they hold the following diploma: an academic diploma of Bachelor (or Master) of Science in Engineering (university level, minimum three years), with the main subject in Electromechanical Engineering or an equivalent to this.

Admission can only be granted after an individual application procedure. The Study Programme Committee will make the final decision whether to accept the application or not. The Study Programme Committee can decide that students need to follow a preparatory course or an individual Master's programme, for instance for students who hold another diploma of Bachelor or Master.
Important: Students who wish to enrol must add the result of a GRE test to their application, more specifically the result of the Quantitative Reasoning of the General Test. The GRE test result will be assessed using the faculty's grading scale.
Information on admission requirements and the administrative procedure for admission on the basis of a diploma obtained abroad, can be found on the following page: www.ugent.be/prospect/en/administration/enrolment-or-registration.

LANGUAGE REQUIREMENTS

Language requirements	Dutch: no language requirements English: CEFR level B2

The language requirements for this study programme can be found on: www.ugent.be/languagerequirements

PRACTICAL INFORMATION

Study programme
studiekiezer.ugent.be/master-of-science-in-electromechanical-engineering-electrical-power-engineering-en/programma

Information sessions
EVOLV
evolv.gent/en/students/further-studies

Enrolling institution
Information on enrolment at Ghent University.

Application Deadline (for International degree students)
For students who **need a visa**: 1st of April
For students who **do not need a visa**: 1st of June
Read more

Tuition fee
More information is to be found on: www.ugent.be/tuitionfee

Learning path counsellor
studietrajectir.ea@ugent.be

Contact (for international degree students)
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