



**MASTER'S DEGREE (LM) COURSE IN  
ELECTRICAL ENGINEERING**

*Study programme for students enrolled in the academic year 2025-2026*

<b>1st YEAR</b>	
<b>MANDATORY UNITS FOR ALL</b>	<b>CREDITS</b>
STATIC POWER CONVERTERS	9
COMPUTATIONAL ELECTRICAL ENGINEERING	9
ELECTRICAL MEASUREMENTS	9
ELECTRICAL POWER SYSTEMS	9
<b>MANDATORY UNITS BY ADDRESS "GREEN TECHNOLOGIES &amp; ENERGY INFRASTRUCTURES"</b>	<b>CREDITS</b>
ELECTRICAL ENERGY GENERATION PLANTS	9
<b>2nd YEAR</b>	
<b>MANDATORY UNITS BY ADDRESS "GREEN TECHNOLOGIES &amp; ENERGY INFRASTRUCTURES"</b>	<b>CREDITS</b>
POWER SYSTEMS FOR INDUSTRY AND MOBILITY INFRASTRUCTURES	9
<b>MANDATORY UNITS BY ADDRESS "MACHINES &amp; DRIVES FOR INDUSTRY AND MOBILITY"</b>	<b>CREDITS</b>
ELECTRIC DRIVES	9
ELECTRICAL MACHINE DESIGN	9
<b>18 CREDITS AMONG THE FOLLOWING ACTIVITIES (CARATTERIZZANTI)</b>	
<b>SUGGESTED FREE-CHOICE UNITS BY ADDRESS "GREEN TECHNOLOGIES &amp; ENERGY INFRASTRUCTURES"</b>	<b>CREDITS</b>
ELECTROHEAT TECHNOLOGIES FOR SUSTAINABILITY (1st YEAR)	9
RENEAWABLE ELECTRIC ENERGY CONVERSION AND STORAGE (1st YEAR)	9
NUCLEAR FISSION AND FUSION PLANTS (2nd YEAR)	9
TECHNOLOGIES FOR HVAC AND HVDC TRANSMISSION SYSTEMS (1st YEAR)	6
HIGH VOLTAGE MEASUREMENTS AND MODELS (2nd YEAR)	6
MEASUREMENTS AND TESTING OF ELECTRICAL MACHINE AND INSTALLATIONS (2nd YEAR)	6
ENERGY STORAGE ENGINEERING (2nd YEAR)	6

<b>SUGGESTED FREE-CHOICE UNITS BY ADDRESS “MACHINES &amp; DRIVES FOR INDUSTRY AND MOBILITY”</b>	<b>CREDITS</b>
SYSTEMS FOR AUTOMATION (2nd YEAR)	9
INDUSTRIAL ELECTROMAGNETIC COMPATIBILITY (2nd YEAR)	9
COMPUTER ASSISTED ELECTROMAGNETIC DESIGN (1st YEAR)	6
ROAD ELECTRIC VEHICLES (2nd YEAR)	6
PIEZOELECTRIC DEVICES (2nd YEAR)	6
APPLIED CONTROL OF ELECTRIC CONVERTERS AND DRIVES (2nd YEAR)	6
<b>12 CREDITS AMONG THE FOLLOWING ACTIVITIES (AFFINI)</b>	
<b>FREE-CHOICE UNITS FOR ALL</b>	<b>CREDITS</b>
ADVANCED CONTROL SYSTEMS (1st YEAR)	6
PHOTOVOLTAIC SCIENCE AND TECHNOLOGY (1st YEAR)	6
ELECTRICITY MARKET (1st YEAR)	6
PLASMA-BASED TECHNOLOGY FOR INDUSTRIAL APPLICATIONS (1st YEAR)	6
BUSINESS MANAGEMENT (2nd YEAR)	6
LIGHT ENGINEERING AND PHOTOMETRY (2nd YEAR)	6
ENERGY SYSTEM MODELLING AND SCENARIOS (2nd YEAR)	6
COGENERATION AND COMBINED PLANTS (2nd YEAR)	6
<b>15 ADDITIONAL FREE-CHOICE CREDITS (Including free-choice units reported above and not yet selected)</b>	
<b>ENGLISH LANGUAGE B2 (PRODUCTIVE SKILLS)</b>	<b>3</b>
<b>FINAL THESIS/DISSERTATION</b>	<b>18</b>

#### ANY FURTHER NOTES

Attendance requirement: although not mandatory, classroom attendance is strongly recommended.

The Master's Degree Course proposes two Addresses:

- “GREEN TECHNOLOGIES & ENERGY INFRASTRUCTURES”;
- “MACHINES & DRIVES FOR INDUSTRY AND MOBILITY”.

Students are required to submit their study plan through the UNIWEB platform as early as the first enrolment year. If the free-choice activities are chosen from those ones offered by the Master's Degree Course, the study plan will be “automatically accepted”.

There are no preparatory units for attending second year activities.

This document was prepared in Spring 2025: therefore, it is strongly recommended to check, at the beginning of each academic year, the correct placement of the course units in the semesters and the actual activation of the free-choice activities.