MASTER'S DEGREE PROGRAMME IN ELECTRICAL ENGINEERING *Study programme for students enrolled in the academic year 2024-2025*	
1st YEAR	
MANDATORY UNITS FOR ALL	**CREDITS**
STATIC POWER CONVERTERS	**9**
COMPUTATIONAL ELECTRICAL ENGINEERING	**9**
ELECTRICAL MEASUREMENTS	**9**
ELECTRICAL POWER SYSTEMS	**9**
MANDATORY UNITS BY ADDRESS "GREEN TECHNOLOGIES & ENERGY INFRASTRUCTURES"	**CREDITS**
ELECTRICAL ENERGY GENERATION PLANTS	**9**
2st YEAR	
MANDATORY UNITS BY ADDRESS "GREEN TECHNOLOGIES & ENERGY INFRASTRUCTURES"	**CREDITS**
POWER SYSTEMS FOR INDUSTRY AND MOBILITY INFRASTRUCTURES	**9**
MANDATORY UNITS BY ADDRESS "MACHINES & DRIVES FOR INDUSTRY AND MOBILITY"	**CREDITS**
ELECTRIC DRIVES	**9**
ELECTRICAL MACHINE DESIGN	**9**
FREE-CHOICE UNITS (CARATTERIZZANTI) AMONG THE FOLLOWING ACTIVITIES (18 credits, max 21)	
UNITS	**CREDITS**
ELECTROHEAT TECHNOLOGIES FOR SUSTAINABILITY (**1st YEAR**)	**9**
RENEWABLE ELECTRIC ENERGY CONVERSION AND STORAGE (**1st YEAR**)	**9**
SYSTEMS FOR AUTOMATION (**2st YEAR**)	**9**
INDUSTRIAL ELECTROMAGNETIC COMPATIBILITY (**2st YEAR**)	**9**
NUCLEAR FISSION AND FUSION PLANTS (**2st YEAR**)	**9**
TECHNOLOGIES FOR HVAC AND HVDC TRANSMISSION SYSTEMS (**1st YEAR**)	**6**

COMPUTER ASSISTED ELECTROMAGNETIC DESIGN **(1st YEAR)**	**6**
ROAD ELECTRIC VEHICLES **(2st YEAR)**	**6**
PIEZOELECTRIC DEVICES **(2st YEAR)**	**6**
MEASUREMENTS AND TESTING OF ELECTRICAL MACHINES AND INSTALLATIONS **(2st YEAR)**	**6**
APPLIED CONTROL OF ELECTRIC CONVERTERS AND DRIVES **(2st YEAR)**	**6**
ENERGY STORAGE ENGINEERING **(2st YEAR)**	**6**
HIGH VOLTAGE MEASUREMENTS AND MODELS **(2st YEAR)**	**6**
FREE-CHOICE UNITS (AFFINI) AMONG THE FOLLOWING ACTIVITIES (12 credits)	
UNITS	**CREDITS**
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 MANAGEMEN **(2st YEAR)**	**6**
LIGHT ENGINEERING AND PHOTOMETRY **(2st YEAR)**	**6**
ENERGY SYSTEM MODELLING AND SCENARIOS **(2st YEAR)**	**6**
COGENERATION AND COMBINED PLANTS **(2st YEAR)**	**6**
ADDITIONAL FREE-CHOICE UNITS (15 credits including free-choice units reported above and not already selected)	
ENGLISH LANGUAGE B2 (PRODUCTIVE SKILLS)	**3**
MASTER'S THESIS	**18**

FINAL NOTES:

The master's degree course proposes two addresses:

- **GREEN TECHNOLOGIES & ENERGY INFRASTRUCTURES**
- **MACHINES & DRIVES FOR INDUSTRY AND MOBILITY**

There are no preparatory units for attending second year activities.
Although not mandatory, **classroom attendance is strongly recommended.**
Students are required to submit their study plan through the UNIWEB platform as early as **the first enrolment year.**

This document was prepared in Spring 2024. 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.