



MASTER'S DEGREE PROGRAMME IN ENERGY ENGINEERING	
<i>Study programme for students enrolled in the academic year 2023-2024</i>	
1st YEAR	
MANDATORY UNITS	CREDITS
APPLIED ENERGY	9
ENERGY SYSTEMS	9
MEASUREMENTS AND INSTRUMENTATION	9
COMBUSTION	6
HEAT TRANSFER AND THERMOFLUID DYNAMICS	9
ELECTRIC POWER SYSTEMS	9
2nd YEAR	
MANDATORY UNITS	CREDITS
RENEWABLE ENERGY TECHNOLOGIES	9
ENERGY ECONOMICS	9
FREE-CHOICE UNITS AMONG THE FOLLOWING ACTIVITIES (15 credits)	
UNITS	CREDITS
PROCESS TECHNOLOGIES FOR CARBON-NEUTRAL FUELS	6
COGENERATION AND COMBINED PLANTS	6
NUCLEAR FISSION AND FUSION PLANTS	9
GREEN POWER CONVERSION AND UTILIZATION	6
WIND AND HYDRAULIC TURBINES	9
HEATING VENTILATION AND AIR CONDITIONING SYSTEMS	9
ENERGY AND BUILDINGS	6
REFRIGERATION AND HEAT PUMP TECHNOLOGY	9
ADDITIONAL FREE-CHOICE UNITS (15 credits including free-choice units reported above and not already selected; maximum two laboratories)	
UNITS	CREDITS
ADVANCED CONTROL SYSTEMS	6
PHOTOVOLTAIC SCIENCE AND TECHNOLOGY	6

DESIGN AND OPTIMIZATION OF SUSTAINABLE ENERGY SYSTEMS	6
APPLIED ACOUSTIC AND DESIGN FOR PRODUCT SOUND QUALITY	6
LABORATORY OF APPLIED THERMODYNAMICS	3
LABORATORY OF COMPUTATIONAL THERMO-FLUID DYNAMICS	3
LABORATORY OF ENERGY AUDIT	3

ENGLISH LANGUAGE B2 (PRODUCTIVE SKILLS)	3
MASTER'S THESIS	18

Final notes:

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 2023. 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.