



## MASTER'S DEGREE PROGRAMME IN ENERGY ENGINEERING

*Study programme for students enrolled in the academic year 2024-2025*

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	Profile
PROCESS TECHNOLOGIES FOR CARBON-NEUTRAL FUELS	6	G
COGENERATION AND COMBINED PLANTS	6	G
NUCLEAR FISSION AND FUSION PLANTS	9	G
GREEN POWER CONVERSION AND UTILIZATION	6	G/U
WIND AND HYDRAULIC TURBINES	9	G
HEATING VENTILATION AND AIR CONDITIONING SYSTEMS	9	U
ENERGY AND BUILDINGS	6	U
REFRIGERATION AND HEAT PUMP TECHNOLOGY	9	U
ADDITIONAL FREE-CHOICE UNITS (15 credits including free-choice units reported above and not already selected; maximum two laboratories)		
UNITS	CREDITS	Profile
ADVANCED CONTROL SYSTEMS	6	G/U
PHOTOVOLTAIC SCIENCE AND TECHNOLOGY	6	G
DESIGN AND OPTIMIZATION OF SUSTAINABLE ENERGY SYSTEMS	6	G

