

# SUSTAINABLE ENERGY

Degree	Master of Engineering Sciences
Duration, study form	2 years (4 semesters), full time studies.
Requirements	<ul style="list-style-type: none"><li>• University Bachelor's degree diploma and its supplement (Transcript of Records or Mark Sheet)</li><li>• priority is given to those Energy Engineering, Electrical Engineering, Power Engineering</li><li>• additional courses might be required</li><li>• motivation letter (included in the Application Form)</li><li>• proof of English proficiency (CEFR - B2 or equivalent/TOEFL 87 iBT/534 PBR, IELTS 5.5)</li></ul>
Application deadline	July 10
Start of studies	August 26
Main study subjects	Mathematical Statistics and Modelling, Methodology of Scientific Research, Renewable Energy Sources, Energy Storage and Smart Grids, Integration of Renewable Energy to Energy Systems, Life Cycle Assessment of Renewable Energy, Thermotechnological Processes in Energetics, Heat and Mass Transfer, Hybrid Renewable Energy Systems, Wind Energetics, Hydro Energetics, Hydrogen Energetics and etc.

## LEARNING OUTCOMES OF STUDY PROGRAMME

Upon the completion of the study programme, graduates will be able to:

- understand technologies of energy conversion and their impact on the environment;
- conduct the analysis of energy sources and implementation of renewable energy projects;
- analyse and assess renewable energy sources and technologies as well as possibilities of their application in energetics;
- investigate the processes of energy exchange, assess their energetic effectiveness and sustainability factors;
- analyse and assess the processes of energy conversion using common and renewable energy sources, as well as the reliability of energy production, supply and distribution;
- create and improve technologies and processes of energy conversion with the aim to increase energetic effectiveness and reduce negative influence on the environment.

## RESEARCH WORK

Research is realised in University laboratories and industrial environment. Results of research are presented in scientific conferences and published in scientific journals. Studies are completed after preparation and defence of final thesis.

## EXCHANGE POSSIBILITIES

Students have a possibility to take part in various exchange programmes (Bilateral exchange, Erasmus+) for studies and traineeships abroad and get monthly scholarship that ranges from 300 to 700 Eur.

## THE CAREER OPPORTUNITIES

Graduates have an opportunity to work in the country's and European Union institutions as experts of energy efficiency of technological or energy conversion processes, analysts, researchers, engineers consultants in energy design, managers of construction of renewable energy systems, manufacturing and technical service companies dealing with renewable energy, education and consultation organizations, to establish and manage private business companies.

### Contact information:

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