

Sustainable treatment with landscape sources

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Subjects code: STLS

Year of Study: 1.

Lectures: 45

Exercises: 30

ECTS: 7

Contents subjects

- overview of landscape (renewable and non-renewable) resources;
- methods used in studying sustainable development which equally deal with economic, social and environmental development;
- complex (integral) approach when dealing with problems of various landscape unit, when an economic aspect must confront with limits (capacity) of environmental landscape resources;
- multidisciplinary problem evaluation what is essential for management (planning) of the activities connected with sustainable and nature-identical regional development;
- multidisciplinary
- focus on renewable energy resources, technologies of use of renewable sources to end products;
- renewable energy sources:
 - solar power
 - wind power,
 - hydro power,
 - ocean power and wave power,
 - geothermal power,
 - biomass energy;
- overview of the latest technologies of using renewable energy sources to produce heat energies, cooling energies, electric energies and bio fuels and combined production of electric and heat energy and three-generation.
- Evaluation of biomass system efficiency
- Economic and environmental estimation of use of renewable energy sources;
- National and regional directions of using individual renewable energy sources;
- International cooperation in the fight for climate changes and in development for potential use of the renewables.