

## **NOVA-BOVA MSc course**

### **Renewable Energy Technologies**

*Faculty of Agricultural Engineering,  
Lithuanian University of Agriculture, Kaunas, Lithuania*

**October 24-28, 2005**

#### **Course description**

**Background:** The potential of renewable energy sources is enormous as they can in principle meet many times the world's energy demand. Renewable energy sources such as biomass, wind, solar, hydropower, and geothermal can provide sustainable energy services, based on the use indigenous resources. The development and use of renewable energy sources can enhance diversity in energy supply markets, contribute to securing long term sustainable energy supplies, help reduce local and global atmospheric emissions, and provide commercially attractive options to meet specific energy service needs, particularly in rural areas helping to create new employment opportunities there.

The aim the proposed course is to give an overview of potential of Renewable Energy Resources, Energy Conversion Technologies, Environmental Considerations and Evaluation of Benefits and Energy Efficiency. The main topics of the course will be Solar Energy, Biomass and Biogas Energy, Biofuels, Hydro and Wind Energy. The participant will study potential and use of Indigenous Energy resources and conversion technologies in Baltic States and Nordic Countries.

**Distance learning – home task:** Individual distance studies of the proposed literature and presentation on one of the topics proposed by course organizers. Presentations should concentrate on the problems in the home country.

**Participants:** The course is intended for the MSc students from the Baltic Agricultural Universities and North West Russia. Total number of course students - 20.

**Language:** English.

**Course value** is up to 4 ECTS depending on quality of prepared homework and overall activity during course.

**Deadline for registration:** September 24, 2005

**Distance learning** module starts from September 26, 2005.

**Course session:** October 24-28, 2005.

**Venue:** Faculty of Agricultural Engineering, Lithuanian University of Agriculture, Lithuania.

## Main course topics

**Renewable Energy Resources**  
**Energy for Biological Systems**  
**Solar Energy**  
**Biogas production and utilization**  
**Biomass energy**  
**Wind Energy**  
**Hydraulic energy**

## Course leader:

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## Course teachers:

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