

Rector's Meeting in Oulu

Arkhangelsk State Technical University Situation Report

Natalia Podrazhanskaya
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Arkhangelsk State Technical University

- ASTU – Master programme in Environmental Engineering
- ASTU – member of Barents Environmental Engineering Consortium with UO, NUC, MSTU, MSPU, LUT

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- License for Bachelor Programme granted
- 21 January 2009 – first graduates defended their theses
- Applied for license for Master programme
- Evaluation of ASTU by Ministry of Education and Science
- Master programme in Environmental Engineering – autumn 2010

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- 9th working group meeting, 18-20 November 2008, Narvik, NUC
- 4 ASTU representatives participate
- Application material
- Selection criteria
- Marketing materials, brochure, study guide
- Web-site, information displayed, links to partner-universities
- Study guide in cooperation with partner-universities
- Advertising and funding possibilities

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- Programme developed
- Curriculum – multidisciplinary
- Orientations to be launched:
 - Clean production UO
 - Water and Environment UO
 - Sustainable Energy NUC
 - Integrated Use of Water Resources MSTU
 - Industrial Ecology and Rational Use of Natural Resources ASTU (September 2010)

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- Industrial Ecology and Rational Use of Natural Resources ASTU
 - Implementation of “Green chemistry” principles for solving environmental problems of technology; assessment and control of environmental state; management...
 - Graduates may perform environmental, design and management duties in industry, state, monitoring bodies, research and project institutions
 - Two courses developed in English (5 ECTS each): analytical chemistry of environmental objects; environmental monitoring

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- Analytical Chemistry of Environmental Objects (5 ECTS)
 - Optical methods
 - Chromatographic methods
 - Environmental analytical chemistry: general requirements to defining pollutants methods
 - Air analytical chemistry: air quality control, sampling, samples' treatment, air quality control
 - Aquatic analytical chemistry: development of analytical control system, sampling, samples' treatment, main qualitative characteristics, state evaluation
 - Soil analytical chemistry: classification of pollutants, sampling, samples' treatment, analysis and soil pollution control

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- Environmental Monitoring (5 ECTS)
 - Complex analysis of environment
 - Regional environmental load
 - Permissible biosphere load
 - Monitoring of biosphere changes, caused by anthropogenic activities; classification
 - Environmental and biological monitoring; their interrelation.
 - Environmental monitoring of on-land and marine systems
 - Space monitoring
 - Climate monitoring
 - Uniform system of environmental monitoring
 - Atmosphere monitoring
 - Environmental monitoring of surface water and related ecosystems.
 - Soil and on-land ecosystems monitoring

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Joint action plan and its implementation:

- Text to the study guide
- Comment the study guide
- Finalizing the study guide
- Give the description of two courses
- Comment the text for marketing material
- Comment the letter about the selection committee
- Assign members for the selection committee
- Comments and additions to bee.oulu.fi page

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- Joint Selection Committee
- Invitation to the selection committee
- Two members from ASTU
- April 2009 – meeting in Oulu:
 - Preliminary selection of eligible candidates
 - Preparation of students selection proposal for universities