

# Barents Environmental Engineering

## Master Program according the State Standard III

### 24100.68 “Energy and resource saving processes in chemical engineering, petrochemical and biotechnology”

- September 1, 2011 – new curriculum developed in NArFU including “Environmental Monitoring” and “Ecoanalytics” courses (to be translated in English)
- 2012 – 9 Bachelors of “Environmental Engineering” → to start a 2-year Master program

#### Challenges:

- High workload of the teaching staff
- Lack of English language proficiency → English for academic purposes at NArFU
- Lack of funding for student mobility →
  1. NArFU Development Program – to provide mobility grants
  2. Establishment of a Centre of Academic Mobility at NArFU
- “Environmental Monitoring” – a distant course?

# Comparative Social Work

BCBU cooperation from the point of view of the Social Work Department:

- A new license for the MA program for the next 5 years (compulsory and 6 optional courses) – development of courses in English, joint supervision of MA students and research
- Kolarctic project to consolidate preparation of the teaching staff, distant learning, Master’s studies supervision
- February 2011 – student recruitment for international Master’s program, 3 out of 7 students selected by the Finnish commission for studies at ULapland, however, due to some reasons refused to participate
- 2011/2012 – 5 quotas for the first year of the “Russian” MA program, 3 students ready to accomplish their MA theses

# Comparative Social Work

BCBU cooperation from the point of view of the Social Work Department:

Project risks:

- Lack of stability in implementation of the educational process (internal issues connected with infrastructure , Internet access)
- Poor student recruitment
- Lack of English language proficiency (both teaching staff and students)
- Extra workload to modify the Russian-taught program according to the State Standard III

Proposals:

- Development of conditions to enhance the teaching staff activity
- Development of new MA programs in Russian considering the existing courses in English
- Activities to attract students to the programs
- Dissemination of information both on the website and through other mass media
- Consolidation of the individual research component of a lecturer and a Master student

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## Circumpolar Health and Well-being

NArFU as an associate member

3 Master students

November 2011 – defense of a Master thesis of the first class of graduates

The educational process includes both contact hours and distant learning.

NArFU – 2 optional 5 ECTS courses

Proposals:

- NArFU to present a 15-20 ECTS module (together with NSMU) to implement student exchange;
- To consolidate the interaction between teaching staff and a MA student (internships at UOulu);
- BCBU+ to consolidate video-lecturing and video-conferencing in order to provide more inclusiveness of the Russian part in the program implementation;
- Attraction of MA and BA students to development of research projects to consolidate motivation for possible further studies, development of language proficiency and scientific culture.

Issues to be solved:

- Payment for the work of research advisors of MA students (theses related issues)
- Lack of English language proficiency of students

# Software, Systems and Services Development in the Global Environment (GS3D)

- March 2011 - International youth scientific-practical school «High-performance computation on GRID systems»
- Twice a week – distant courses for MA students by professors from St. Petersburg State University and Nizhny Novgorod University
- FIRST grant for teacher exchange in August 2010
- Promotion of the project over the last year: 5 scientific publications, 4 presentations at scientific conferences, including international conferences
- 2011 – first enrolment for MA programs “Corporate Information Systems” (5 students) and “Information Technologies in Education” (5 students), curricula with integrated courses in English (3 at each)
- During the whole period – work on the course catalogue of the joint MA program
- 2 MA students are provided with double research supervision of MA theses
- October-December 2011 – “Organization of distant learning in a HEI” training of the Institute teaching staff by 6 lecturers of the Institute (25 persons)
- Technical specification on equipping of two classes for distant learning has been prepared and approved
- 15-18 November 2011 – training on distant teaching for the Institute teaching staff

## Law

Program topic: “Legal base for sustainable development of Russian North-West and Northern Europe”

•Lack of funding for teacher and student exchange to compensate by video-lecturing

•By February 2011 – development of video lectures and materials on “Comparative municipal law of Finland and Russia” module (2 courses presented by NArFU)

•Second module to be elaborated

“Social welfare protection and healthcare systems in Finland and Russia: a comparative analysis of legal base”

To supplement the module both with video-lectures and a textbook on comparative law

# Resources to speed up the process

- Internationalization program
- International coordinators at institutes (deputy-directors)
- Autonomous status, freedom to develop ES
- Contest for modernization of Master's programs (resource: DP)
- Contest for the development of English-taught courses (resource: DP)
- BCBU+: a wage increase for thematic coordinators

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## International programs to support academic mobility

- **DAAD**
- **FIRST**
- **ERASMUS MUNDUS**
- **Fellowship Programme for Studies in the High North**
- **North2North**
- **Quota Scheme**
- **VISBY**
- **Exchange programs in the framework of bilateral agreements**
- **Scholarships and grants from business**
- **Tromsø-Arkhangel'sk exchange program (UiT)**

# International integrated programs

- **Environment protection engineering (BCBU)**
- **Programming and IT in global information environment (BCBU)**
- **Comparative social; work (BCBU)**
- **Circumpolar health and welfare (BCBU)**
- **Sustainable management (University of Nordland)**
- **Development and exploitation of marine and shelf oil and gas deposits (University of Stavanger, Statoil)**
- **Bachelor of Circumpolar Studies (University of the Arctic)**
- **«Russian Studies» (University of Tromso)**
- **Management in tourism (HiH, Kemi-Torneo, Un. of Bremen)**