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Implementation of TEMPUS project “Improvement of education on environmental management” Final KGNU report

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*TEMPUS project “Improvement of education on environmental management”,
Final coordination meeting in St.-Petersburg, 21-23 March 2012*



Outcomes and outputs

1. Introduction of approved syllabus into the MSc training programme
2. Development, compilation, publication and introduction of new materials into the education process
3. Training of trainers and students
4. Development and introduction of international e-learning system
5. Adaptation of training materials for e-learning



1. Introduction of approved syllabus into the MSc training programme

- A comparison on curricular is performed
- A curriculum for specialisation “Ecological management” was compiled, approved and introduced
- Working programs on new courses were developed and approved by Methodological Commission
- 3 comparative courses were selected
- **September 2011** - opening of a new specialisation “Environmental Management”



In academic year 2010/2011 a **pilot students' group** was created

Training in English:

➤ **BSc students:**

- ★ «Best Environmental Management Practices»

➤ **MSc students:**

- ★ «Certification on ISO 14001»
- ★ «Environmental technologies»
- ★ «Integrated Management of Territory: Modern Approach»

New courses were developed:

- GIS in environmental management
- Strategical environmental management
- Regional environmental management
- EMS auditing
- Environmental management in sustainable regional development
- Environmental marketing
- Environmental insurance

For each course following **methodological and education materials** were developed and approved:

- Education program (including description of course);
- Questions for colloquium / workshops / practical training;
- Tests.



Academic year 2011/2012

Number of MSc students: **16**

Development of MSc qualification thesis

Some titles of MSc thesis:

- Development of eco-tourism management system on a regional level
- Improvement of environmental management system on priorities of eco-entrepreneurship, Kharkiv Oblast
- Management environmental quality in the context of solution of nature management problems
- Management and optimisation of the use of recreation potential

Questionnaire, developed by “ETB-Technology trade” will allow to receive feedback from students



2. Development, compilation, publication and introduction of new materials into the education process

■ Text-books:

- Common Ecology and Neo-ecology;
- Organisation of management in environmental protection activity.

■ Manuals:

- Ecological management;
- Solid Municipal Waste Management.

■ Methodological manuals:

- Monitoring of the Environment;
- Norms of Anthropogenic Load on Environment.

■ Chapters for text-books on 3 comparative courses:

- Environmental policy;
- GIS for Environmental Management.



3. Training of trainers and students

Month, year	Lectures by
February 2011	- Anton Sharuba and Viktor Kireev (CEU);
March 2011	- Yevgen Makarovskiy (USRIEP);
April 2011	- John Kiousopoulos (TEI-A);
September 2011	- Matthijs Hisschemöller (IVM), John Kiousopoulos (TEI-A), Maria Kozova (Camenius University), Matyas Szabo (CEU), Vladislav Donchenko (SPSU);
March 2012	- Georgio Saio (GISIG);
April 2012	- Hans-Peter Nachtnebel (BOKU).



Special training for teachers:

- ✓ Computer technologies for education process (how to compile computer tests)
- ✓ English language
- ✓ Pedagogical and psychological mastery
- ✓ Workshops and trainings provided back-to-back with coordination meetings



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Inter-coaching with Tempus project “Regional Seminar for Excellence in Teaching”

- Two young teachers from KGNU participates. They will develop new courses, which will be introduced in KGNU curricular
- **July 2011** - Summer school in Pskov
- **October 2011** – workshop in Minsk
- **April 2012** – workshop in Kyiv



4. Development and introduction of international e-learning system

- Opening of a Computer Auditorium for inter-active and distance learning
- Opening of a Computer class



5. Adaptation of training materials for e-learning

E-text-book and e-manual:

- «Common Ecology and Neo-ecology»;
- «Environmental Monitoring»

Computer tests were developed and introduced into the education process.



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6. Dissemination

- 21 publications;
- Participation in conferences;
- Workshops for students;
- A workshop for university teachers on distant learning;
- Information day on Tempus programme (together with Tempus-office);
- Web-page on the site, devoted to the project.



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7. Sustainability

- In 2011 a **local project** “Scientific and practical fundamentals for training of specialists on environmental management” (state registration number: 0111U006857) started.
- **New Tempus project proposal** “INternational NEtwork for Life Long Learning in UA and MD” was submitted.
- **Contacts with local environmental authorities** were established, **recommendations** for “Program on economic and social development of Kharkiv Oblast” were developed.
- **Agreements on cooperation** were signed with:
 - Ukrainian Stepper Nature Reserve;
 - Biospheric Nature Reserve Askania Nova;
 - Getman National Nature Park;
 - Environmental Inspection in Kharkiv Oblast;
 - Ukrainian Scientific and Research Institute of Ecological Problems;
 - National Scientific Center “Institute for Soil Science and Agrochemistry Research n.a. O.N. Sokolovskiy.
- **Branches of Departments** were created under:
 - Ukrainian Scientific and Research Institute of Ecological Problems;
 - National Scientific Center “Institute for Soil Science and Agrochemistry Research n.a. O.N. Sokolovskiy.
- **Agreements on practical training** of BSc and MSc students were signed with 8 organisations.



Students

- March 2012 - Medvedeva Yulia (MSc student) won the **First Place** in All-Ukrainian Competition of Student Research Projects;
- Year 2011/2012 - **5 publications**;
- **Program of the Ministry of Education and Science, Youth and Sports of Ukraine – 3 students and 1 PhD student** have received grants for mobility and 2 months training in Hochschule Mittweide (University of Applied Science), Germany.



Monitoring missions

- March 2010 – KGNU, Kharkiv
 - **Discussed issues:** topicality of the project, project effectiveness, project impacts, sustainability of the project.
 - **Participated partners:** TNU, USRIEP, “ETB-Technology trade”, SPSU.
 - **Target groups:** University top-management, academic staff, administrative staff, students.
 - **Key outputs:** positive assessment of the project progress, demonstration of a Computer Auditorium for inter-active and distance learning.

- September 2011 – TNU, Simferopol



Inter-coaching event – Tempus project “Environmental Governance for Environmental Curriculum”

- September 2011
- Its specific objective was to take stock of curriculum development efforts undertaken by the project partners to the date, to come up with the joint curriculum document, and to ensure that it is problem-oriented and based on principles of self-managed and self-reflective learning and on the best EU practices



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Thank you for your attention!



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