

BIOLANDMAN

Master Program „Management of Biodiversity and Multifunctional Landscapes“

UE Socrates/Erasmus Curriculum Development Project.

Approved budget: EUR 187 998, incl. EU grant EUR 131 598

Planned applications: ERASMUS MUNDUS (will be submitted in 2007 or 2008)

The aim of the project is to launch a joint Master program on management of biodiversity and multifunctional landscapes and natural resources. The graduates study the relations of human activity and nature considering the sustainability principles.

Start of the project: **01.10.2004**

End of the project: **30.09.2007**

Project is divided in 3 stages:

Inception period: **01.10.2004 – 01.03.2005**

Developmental period: **01.03.2005 - 01.09.2006**

Testing and implementation period: **01.09.2006 – 30.09.2007**

MSc Program should be launched in full extent in Autumn 2007. In Autumn 2006, the one-year trial version of courses and modules will be started.

Project partners and their responsibilities:

- (1) **Eesti Maaülikool (EMU) – Estonian University of Life Sciences** – coordinating institution, CD (curriculum development), teaching in all modules, financial responsibility;
- (2) **Latvijas Lauksaimniecības Universitāte** (Latvia) – CD, teaching, 1 module;
- (3) **Lietuvos Zemes Ūkio Universitetas** (Lithuania) – CD, teaching, 1 module;
- (4) **Institut Supérieur D'agriculture de Lille** (France) – CD, teaching;
- (5) **University of Brighton** (United Kingdom) – CD, teaching.
- (6) **Den Kgl. Veterinær- og Landbohøjskole** (Denmark) – CD; contact: Poul Einer Hansen
- (7) **Universität Hohenheim** (Germany) – CD;
- (8) **Sveriges Lantbruksuniversitet** (Sweden) – CD, contact: Kenneth Olwig
- (9) **European Commission Joint Research Centre** (Italy) – evaluation of the curriculum of the project;

Project meetings:

21-22. Feb. 2005 Kick-off meeting in Otepää, Estonia – all partners

15. Apr. 2005 Kick-off meeting part II in Jelgava, Latvia – EMU, LLU, LZUU

10. Jan. 2006 Meeting in Jelgava – EMU, LLU

Feb-March 2006 – Meeting in Kaunas – EMU, LZUU

Plans for the coming year:

In Spring 2006 Prof H.C. Dubourguier, a visiting professor of the EMU, will deliver in EMU a 2-week course in Ecotoxicology, which is part of the BioLansMan Program. The rest of the teaching staff in Estonia, Latvia and Lithuania will prepare for the testing period (Autumn 2006 – Spring 2007) of the program. In autumn 2006, Latvia University of Agriculture will

run the module “Management of rural landscape and environmental quality” for Baltic MSc students and ERASMUS exchange students. Some of the modules will be tested in EMU.

Co-operation with NOVA partners: The participation of NOVA partners has not been very active. According to the Project proposal, some of the KVL and SLU specialists are participating as experts in the process of curriculum development. However, we would encourage all interested parties to come up with fresh ideas concerning to the curriculum. We would also be glad if we could receive some visiting professors/lecturers from NOVA.

Biolandman Curriculum (Draft):

Responsible institution	Basic study, first semester, 30 ECTS	ECTS credits
EAU	English	1.5
EAU	Environmental Economics, Environmental Management and Policy, Environmental Philosophy and Ethics.	6
EAU	Biodiversity.	6
EAU	Statistics in natural sciences.	2
EAU	Mechanisms of evolution. Boreal fauna, flora. and nature Conservation biology.	7
EAU	Global and Advanced ecology.	4.5
EAU	Geographic Information Systems (GIS) of nature resources	2.5
EAU	Academic Writing	0.5

Responsible institution	General part of modules, second term, 30 ECTS	ECTS credits
	Module 1: Diversity and management of aquatic environment	
EAU	Hydrobiological features of the Baltic Sea region, water pollution control and waste management.	3
EAU	Conservation genetics and protection of biodiversity in aquatic ecosystems and aquaculture.	3
	Module 2: Diversity of terrestrial ecosystems	
EAU + LLU ? (Inga Straupe ?)	Anthropogenous and and natural dynamics of plant communities.	3
EAU	Introduction to biosystematics. Phylogeny of Eucaryote	3
EAU + LLU ? (Inga Straupe ?)	Biodiversity management and economics in forestry	3

	Module 3: Environmental management and policy	ECTS credits
EAU	Investigation of polluted sites, ecotoxicology and remediation techniques.	3

EAU + LLU ? (Inga Straupe ?)	Environmental Law, Monitoring and inspection Environmental indicators Performances.	3
	Module 4: Management of rural landscape and environmental quality	
LLU	Environmental issues in rural development, landscape planning and management	3
LLU	Landscape ecology and analyses	3
	Module 5: Wildlife management	
LZUU	Wildlife conservation biology.	3
LZUU	Game management and use.	3
	Module 6: Global changes of the ecosystems	
JRC	Principles of world climate formation	1
TU	Global and advanced ecology.	4.5

Responsible institution	Specific part of the modules. Third term, 30 ECTS	ECTS credits
	Module 1: Diversity and management of aquatic environment	
EAU	Applied hydrobiology.	3
EAU	Ecotoxicology of water bodies.	3
	Module 2: Diversity of terrestrial ecosystems	
EAU	Mycology	1.5
EAU	Ecophysiology and phenology	4.5
EAU + LLU ? (Inga Straupe ?)	Forest regeneration in contrasting ecosystem types: wetland and mineral soils.	4
	Module 3: Environmental management and policy	
EAU + LLU ? (Inga Straupe ?)	Advanced course on Environmental Economics and Management	4.5
EAU + LLU ? (Inga Straupe ?)	Environmental engineering.	1.5

	Module 4: Management of rural landscape and environmental quality (living quality)	ECTS credits
LLU	Ecological agriculture	2.5
LLU	Management of rural landscapes, Regional development and policy	3.5

	Module 5: Wildlife management	
EAU	Impact of environmental factors on animal welfare, health and behavior.	1.5
EAU	Ecology of infectious diseases.	3
EAU	Reproductive biotechnology and conservation of animal genetic resources.	1.5
	Module 6: Global changes of the ecosystems	
JRC	Global changes in the water habitats	1
JRC	Global changes in the terrestrial habitats	1
JRC	Globalisation as a trend in consumption of natural resources	2
Compilation of master thesis, final term		30