

Joint Master's program Environmental Technology

- proposal for Northern Cross Border University

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Grounds for the joint program 1/2

- Planned and implemented in mutual understanding and co-operation
- The duration of the program is two years
- Admission for students having a suitable bachelor degree or comparable knowledge and skills (e.g. three years of studies), some additional studies may be required
- Studying language primarily English
- All courses fully recognized by partner universities as part of the degree

Grounds for the joint program 2/2

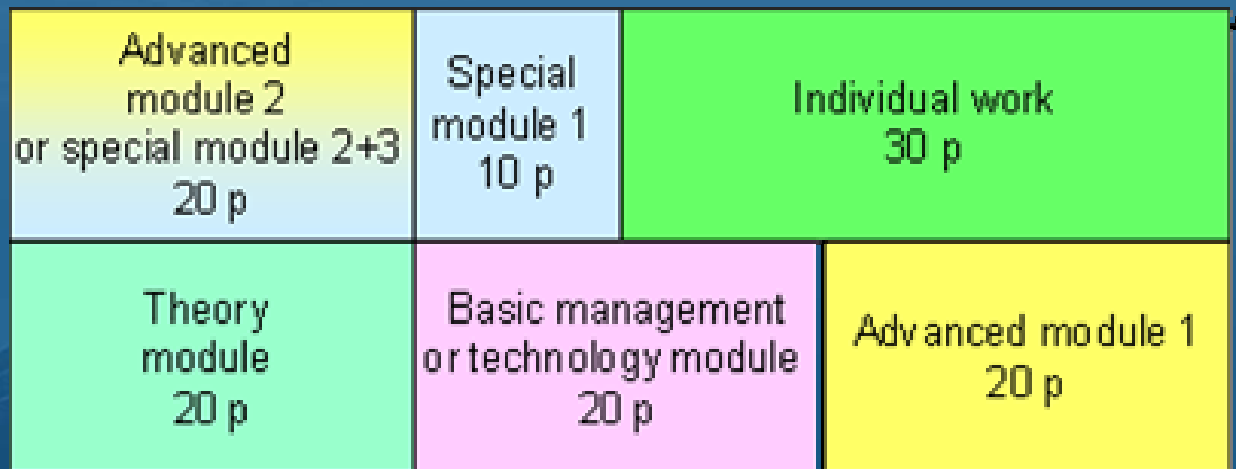
- Student selection in co-operation
- All students have to complete a significant part of their studies in foreign partner university
- Student and teacher mobility has a significant role in the program
- Students are supported by the hosting university (e.g. in accommodation, guidance in studying etc.)

Draft of the content and structure of the curriculum

- Duration two years, admission requirements BSc degree or comparable knowledge and skills, possibly additional studies
- First one to two terms in the home institution, at least one in a foreign institution, the place of master's work free selection
- Two specialization options: clean production and infrastructural issues
- The content will be based on two proposals:
 - *Clean Production (UoO)*
 - *Environmental protection and rational use of natural resources (ASTU)*

Draft of the curriculum

Proposed structure for the Joint Degree Program Environmental Technology



Foundation in B.Sc. level

Draft of the curriculum

In the beginning of the program, all students will get their own individual study plan, basically being composed of the following elements:

- **Theory module 20 ECTS**
 - Common to all students; includes e.g. legislation, essentials in natural sciences, environmental sciences, environmental problems of the region
- **Basic modules 20 ECTS**
 - Optional modules e.g. Basic technology module (energy, water and waste management, eco-efficiency)
 - Basic management module (environmental management methods etc)
 - Basic infrastructure module (water supply, water treatment, environmental structures, soil remediation)
- **Advanced modules 20 ECTS**
 - Includes e.g. Industrial Ecology and Green Chemistry, Waste minimization in industry, Water and wastewater engineering, Environmental management and economics
- **Special modules 10 ECTS**
 - to deliver deep knowledge in a specific subject, e.g. Waste treatment technologies, Separation technologies, Air pollution control, Energy management, Biotechnologies, Environmental business, Human resources management, Quality management, Environmental management
- **Individual work (master's thesis) 30 ECTS**

Short list of issues need to be agreed

- Partners, responsibilities, funding, resources
 - Student selection procedures and responsibilities, student admissions
 - Content and structure of the program, careful curriculum design in co-operation
 - Teaching and study arrangements, e.g. forms and methods of teaching, student assessment
 - Quality assurance, monitoring, evaluation
 - Student and teacher mobility, funding
 - Degree, diplomas and certificate
- All this and more, and thousands of details!