

Lifelong Learning for Sustainable Development (SUSDEV)



University of Natural Resources and Life Sciences, Vienna



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Evaluation, Quality assurance and Quality management at BOKU

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Major topics addressed

Quality assurance and management at the BOKU university Evaluation of staff, courses and programs

BOKU Quality Board



Established Working Groups:

WG acquisition of external fundsWG administration of studiesWG quality assurance in education

New University Law / Act 2002

Autonomy

Contract management

§ 14: Universities have to design an own Quality Assurance system
 Evaluations are a crucial component of Quality Assurance system
 Evaluations have to follow international standards
 Evaluations as an ongoing exercise
 All scientific staff have to be evaluated every 5 years
 Results of evaluations have to be considered

Quality Assurance Act for Higher Education 2012

Quality Audits for public universities every 7 years

ality strategy,
ure achievement of goals,
nitoring and information systems.
tematic incorporation of interest groups

- Core areas: education incl. continuous education, research & research management
- Cross sectional areas: administration, staff management internationalisation and societal objectives

Quality Management System at BOKU

Objectives:

- support strategy implementation
- clarify competencies & responsibilities
- optimize core processes
- organisational development
- setting up a quality culture

Principles:

- follow international standards (ENQA, DeGEval)
- evaluations as an ongoing exercise
- participation of interest groups, esp. students
- review of quality assurance tools

Quality Management System at BOKU

Framework:

University Act 2002, Human Capital Report, ENQA-Standards, DeGEval Standards



Individual Evaluation of Professors

For the last 3 years only limited contracts for professors at BOKU (3-7 years)

Objective: To check to which extend professors fulfilled their contracts & to set the basis for future contracts

Process: Setting up of an internal evaluation board, selection of 2 international peers, self report written by the candidate (research data basis), discussion of peer reports, final recommendation to rector, presentation to rectorate and senate, contract negotiation

Duration: 8 months

Lessons learnt:

Initial situation has to be defined before professor takes up his/her job

Objectives have to be defined more precisely

Consequences have to be defined before realisation of evaluation

Longer observation periods necessary

Evaluation procedure needs continuous refinement(e.g. student participation)



Evaluation of departments/ organisational units

Procedure:

- 1. Updating of data basis
- 2. Initiation of evaluation (selection of peers, evaluation design)
- 3. Internal Evaluation (SWOT analysis, self report)
- 4. External Evaluation (peer review)
- 5. Final Report
- 6. Follow-up measures: contract between rectorate and department

2006: Evaluation of the Department of Biotechnology (periodically every 6 years)

Structure of questionnaire:

What are you trying to do? (relation to strategic plans of department)How are you trying to do it? (description of current activities)How do you know it works? (Evaluation of current activities)How do you change in order to improve? (objectives and measures)

Areas:

- 1. Department and organisational development
- 2. Staff management
- 3. Research
- 4. Teaching, learning and continuing education
- 5. Societal aims
- 6. Resources: infrastructure

Course evaluations

- Standardized students' questionnaires (start 2005)
- General questions and specific questions for each lecture type
- Students are asked twice per semester
- online version
- Integration into BOKU information management system

Course evaluations: Main dimensions

teacher
course
framework
students
success of the course

Additional specific items for:

seminars
 practical work
 excursions

Extract:

Teacher informs about learning outcomes. Teacher informs about assessment criteria. I am well supported. I receive sufficient feedback. The relevance of the topics is pointed out. There is a link with practical applications. There is a link to other fields (interdisciplinary). There are very good scripts and other materials. The use of e-learning makes sense. There are links to research at BOKU. Active participation of students is fostered. The workload corresponds with the ECTS points....

Evaluation of Teaching and Learning

Evaluation of field of studies "Bio Technology and Food Technology"

Objective: to design a new curriculum in reference to content, didactics and organisation*Process:* Situation analysis, benchmarking, self report, curr.dev., peer review, implementation

Lessons learnt

Importance of empirical data basis Importance of external reconfirmation Advantage of external firm to raise the data and carry out the evaluation Chairman contributed largely to objectivity of the discussion The suggestions of reviewers were broadly accepted Motivation was risen among BOKU staff Some follow up activities still to be implemented

Quality Audit at the Centre of International Relations

- *Objective:* Evaluation of the university's international strategy and its implementation in reference to teaching , research & services
- *Process:* Self report workshop interviews feedback final report

Lessons learnt:

Integral focus of advantage (subjects, departments, service units etc. and their correlations) Representatives at BOKU who are critical of internationalisation shall be more included Existing network of experts was an advantage (IROICA) Other partners also profited Immediate follow up activities were elaborated (e.g. setting up of an internat. board)



Evaluation of the orientation period of 5 diploma studies

To what extend does the orientation phase prepare the students for the studies and reduce the drop out rate?

Realized by students' representation: external technical support, questionnaires, interviews, report, presentation

Graduates' questionnaires

To achieve information from graduates to design an innovative curriculum which helps to reduce drop out and the high average study period

Euro League of Life Sciences (ELLS)

- The Royal Veterinary and Agricultural University (KVL), Copenhagen, DK
- University of Hohenheim (UHOH), Stuttgart, Germany
- Swedish University of Agricultural Sciences (SLU), Uppsala, Sweden
- University of Natural Resources and Life Sciences (BOKU), Vienna, Austria
- Wageningen University and Research Centre (WUR), Wageningen, NL
- Agricultural University Prague (CUA)
- Agricultural University Warsaw (SGGW)

Objectives:

- Joint teaching and learning, esp. joint study programmes
- Student and lecturer mobility
- Quality assurance

Euro League of Life Sciences (ELLS) QA Support Group

Objectives:

•To carry out an exchange of information between the ELLS universities in the area of quality assurance, evaluation, benchmarking and quality development with special emphasis on teaching and learning

•To improve and further develop the quality of courses and international Master programmes

• To improve evaluation procedures and follow up processes Members: Experts from all member universities Student association ICA

Members:

Experts from all member universities Student association ICA

Guidelines for curriculum development of joint Master programmes

Basis: EUA: QA in Joint Master Programmes TUNING:

Steps:

•Need

•Degree profile and learning outcomes

•Programme structure and mobility

•Teaching, learning and assessment

•Admission

- •Master thesis and degree
- •Management and resources
- •Quality assurance and evaluation



Criteria: Learning, Teaching & Assessment

Teaching and learning activities must be designed to achieve the intended learning outcomes, consider the student group and the context of the programme.

- -The focus is on student centred learning approaches,
- -Teaching and learning activities are innovative,
- -The added value of the joint programme must be effective,
- -The international dimensions of these activities must be addressed.



Evaluation of Summer Schools:

International Summer School

on ecological aspects, environmental

problems and management related to

land use systems at different altitudes

in the Black Forest region,

Germany.





European Field Excursions in Environmental Science 2005 – Environmental Studies in the Black Forest and in the Rhine Valley

The 2^{ω} ELLS Summer University in Environmental Science is held 25 July – 13 August 2005 in South-West Germany.

The topic is the analysis of ecosystems across an altitude gradient from the upper Rhine valley at 200 m a.s.t. to the summit of the Black Forest at 1500 m a.s.t. and the understanding of man-made pressure onto these acosystems.

Objectives

- to apply environmental science theory to problems observed in the field
- to get insight into different types of ecosystems
- to investigate environmental problems caused by ancient' activities such as ore mining or by 'modern activities such as tourism
- to understand novel forest decline
- to learn new tools for collecting, analysing, modelling and interpretation of environmental data
- to combine different sources of knowledge for solving environmental problems
- to solve problems in a group of international students

The 3-week Summer University (6 ECTS) is in English, incl. videoconference, one-week individual study in home country, and two-week excursions in the state of Baden-Wuerttemberg.

- Pre-course videoconference 30 May 2005 for first contact and introduction
- Videoconference at 25 July introducing the 1-week home study in home country (25–29 July)
- 31 July-13 August Lectures and field excursions in the Black Forest and the upper Rhine valey in South-west Germany. The Summer University venue is the "Freizeit- und Bildungszentrum" in Alglashutten 40 km east of Freiburg at 1990 m a.s.l.

The Summer University is for 10–30 students in the end of B.Sc. or beginning of M.Sc. Application deadline is 1 March 2005 at the responsible contact person at your home ELLS University. The Summer University is sponsored by the Sokrates-Eresmus program of the European Commission and by ELLS.

Contact information: Prof. Dr. Andreas Fangmeier, Institute for Landscape and Plant Ecology (320), Okologiezantrum 2, August-von-Hartmannstr. 3, 70593 Stuttgart, tel. +49 711 459 2189, email afangm@uni-hohenheim.de

Further information: http://www.euroleague-study.org/efees.html



ELLS Quality Label

Requirements:

- Quality Checklist
- Mid course evaluation
- Final evaluation
- External Examiner system
- Implementation of required measures

Lessons learnt:

- Different approaches at ELLS institutions "one" QA system
- Main focus: Implementation of Bologna
- Higher level of commitment through joint MSc.
- Student participation valuable

QM network of Austrian universities

~ 50 members from all 22 Austrian universities: QM, controlling, curriculum development, didactics, research documentation...

3 meetings per year Homepage with an internal discussion forum

Working groups: surveys on graduates evaluation of scientists peer councelling analysis of students' progression setting up a QMS preparation of a quality audit

Resume

- Define quality
- Participatory approach
- Information, trust & communication
- Do things well and talk about them!
- •Once finished back to the start.



Documents & Links:

- QA Group of ELLS: <u>http://www.euroleague-study.org/supportteams/quality/index.html</u>
- European University Association EUA: <u>http://www.eua.be/eua/index.jsp</u>
- Austrian Quality Assurance Agency AQA: <u>http://www.aqa.ac.at/</u>
- Accreditation guidelines for "Fachhochschulen", in English: http://www.fhr.ac.at/fhr_inhalt_en/00_documents/accreditation_guidelines.pdf
- Accreditation Law for Private Universities in Austria: http://www.bmbwk.gv.at/universitaeten/recht/gesetze/uniakkg/uniakkg3332.xml
- European Charta for Researchers:

http://europa.eu.int/eracareers/pdf/am509774CEE_EN_E4.pdf

LLL Course "Rural Land Management":

Introduction

2010: Request from *Land & Forest Enterprises Austria* to implement a LLL course ,,Land Management in Rural Areas"

Objectives of the extra occupational CPD study programme

- Delivery of understanding & practical competences in key areas of land management (administration and documentation; cultivation and use; validation; development)
- Delivery of up-to date expertise
- Sharing of knowledge and knowledge exchange
- Extension of professional network



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LLL Course "Rural Land Management":

Introduction

2 years

Extra-occupational programme

Bologna conform - European Qualification Frame 5-6

~ 60 ECTS

Blended learning concept (35% physical presence)

Maximum of 25 students

Cost-covering



Curriculum Development





Target Groups:

- Owners and managers of land;
- Managers and experts in private companies and/or public institutions dealing with land;
- Consultancies (legal, financial, taxation) for land



Curriculum Development





Development of content and didactical concept by experts from:

- research & teaching
- public and private practice



Potentielle Tätigkeitsfelder / Aufgaben

- Entwicklung eines Rechnungswesen inkl. Kostenrechnung und Controlling
- Aufbau und F
 ührung eines Geografischen Information Systems (GIS)
- Verfassen von fachspezifischen Anträgen und Meldungen
- Beantragung von Förderungen
- Durchführung von Öffentlichkeitsarbeit (z.B. Entwicklung einer Homepage, Verfasseranmen Porteemitteilungen zientralten eines Folders)
- Teilung
- Organis Betriebliche Öffentlichkeitsarbeit
 - Betriebliche Ziele und Grundsätze formulieren und kommunizieren können
 - Berichte (Monats-, Quartals- Jahresberichte) gestalten bzw. erstellen können
 - Leistungen f
 ür die Gesellschaft identifizieren und kommunizieren k
 önnen
 - Auf Angriffe (spez. solche in Medien) adäquat reagieren können
 - Unglücks- und Schadensfälle an die Öffentlichkeit kommunizieren können
 - Die wichtigsten Akteure im betrieblichen Umfeld identifizieren und adressieren können
 - Ein konsistentes PR-Konzept in den Grundzügen entwerfen können
 - Den Prozess einer Leitbild- oder Logoentwicklung managen können

Curriculum Development





Course structure:

- 9 modules (a' 5 ECTS)
- Interdisciplinary Project (3 ECTS)
- Excursion (2 ECTS)
- Thesis (10 ECTS)

Vermarktung land- & forstwirtschaftl. Produkte und Dienstleistungen	1
Betriebliche Öffentlichkeitsarbeit	1
Projektmanagement	1
Verhandlungsführung	2
MODUL Vermessung und Landinformation	4 ECTS
Vermessung und Fernerkundung	2
GIS und Geodatenbanken	2
	-
MODUL Bodenmarkt und Bodenpolitik	5 ECTS
Bodenpolitik und Bodenschutz	2
in anti-lion work and Grundvarkahr	



Example 1:

QAS – Quality of Implementation & Realisation

Clearly defined responsibilities

- Academic (course-, module-, and lecture-level)
- Administration





- Selection of teachers
 - Long-time experience
 - 50 % of teachers with habilitation
- Selection of participants
 - Formal requirements (education)
 - Motivation letter
 - Standardized Interviews
- Examination regulations
 - Defined in curriculum

Example 2: QAS – Quality of Result

Participants Survey

- Teachers
- Teaching materials
- Lecture rooms

(Questionnaires, personal discussion, visits)

Statistics

- Participation rate in courses
- Drop-out rate
- Extend of qualified teachers

Review of Graduate

- ??? (one year after finalising the programme)



In EU in general and in Austria in particular, Life Long Learning (LLL) is an important issue

No extra money for LLL activities

On academic level (up to ERF 5) universities have to take leadership for LLL programs

- Good experience to develop a study program from the scratch
- Development of LLL study programs is very time consuming
- Study Course Land Management in Rural Areas is a success story at BOKU

LÄNDLICHES LIEGENSCHAFTS-MANAGEMENT

Berufsbegleitender Universitätslehrgang der Universität für Bodenkultur Wien







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