



Universität für Bodenkultur Wien Department für Wasser-Atmosphäre-Umwelt

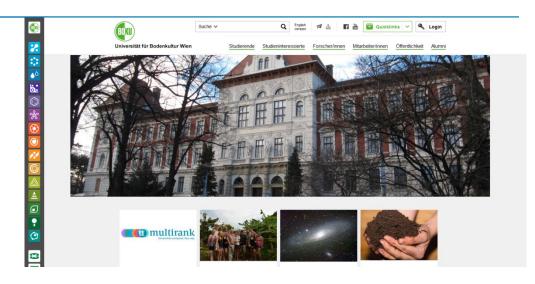
QANTUS General Assembly

31.03. - 01.04.2015, Vienna

Willibald Loiskandl, Alexandra Strauss-Sieberth and Margarita Himmelbauer



Content



- **Qualification Framework in Austria**
- **Environmental studies at BOKU/ Examples**
- Quality assurance



Decision 2008 → EQF LLL

between the two systems and thus guarantees the successful implementation of the national qualifications framework in Austria.

The coordination point for the NOF, which has been established at the OeAD-GmbH / National Agency for Lifelong Learning, is supported by the European Commission and has been commissioned by the national authorities.

Link To the European Commission: The European Qualifications Framework (EQF) 2

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Deutsch

AAA

sonen



Nationalagentur Lebenslanges Lernen National Agency for Lifelong Learning

NS Koordinierungsstelle für den NQR | Österreich

The Coordination point in Austria (NCP) for the National Qualifications Framework (NQF) is the central administration, coordination and information office.

The aim of the National Qualifications Framework is

→ to create a translation tool between the different qualifications systems and their levels for all areas of education in Austria.



Nationalagentur Lebenslanges Lernen National Agency for Lifelong Learning

NS Koordinierungsstelle für den NQR | Österreich

The recording and classification of the qualifications into eight levels is oriented upon learning results and is <u>based</u> on the Recommendation of the Parliament and of the <u>Council</u> of April 23rd, 2008 for the establishment of a common European reference framework, <u>the European Qualifications Framework for Lifelong Learning (EQF).</u>



Nationalagentur Lebenslanges Lernen National Agency for Lifelong Learning

NS Koordinierungsstelle für den NQR | Österreich

The NCP team assures

- •the relationship between the national qualifications system and the European Qualifications Framework,
- •improves the quality and transparency between the two systems
- •and thus guarantees the successful implementation of the national qualifications framework in Austria.

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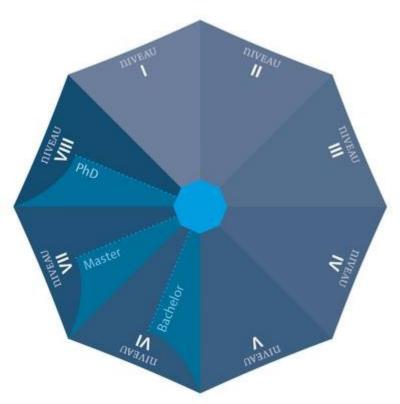
Nationalagentur Lebenslanges Lernen National Agency for Lifelong Learning



Tasks of the Coordination Point

- •Support of the development and implementation of the NQF in Austria
- •Establishment of an internet-based NQF information system, including an NQF register
- •Public relations, events and guidance
- •Networking on the national and European level

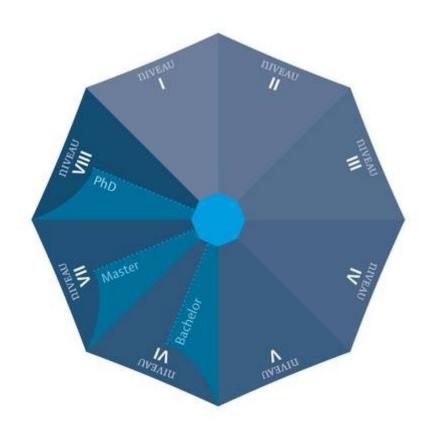
The coordination point for the NQF, which has been established at the OeAD-GmbH / National Agency for Lifelong Learning, is supported by the European Commission and has been commissioned by the national authorities



At the core of the European Qualifications Framework for Lifelong Learning (EQF) there are <u>eight reference levels</u> that comprise the entire spectrum of possible qualifications <u>from basic education to the highest level of academic and vocational education and training and are characterised on the basis of learning outcomes.</u>

By 2013 the entire <u>Austrian qualifications</u> system have been integrated into a classification scheme with eight levels.

[©] NQR Koordinierungsstelle / Nationalagentur Lebenslanges Lernen / Oead GmbH; Grafik: Alexandra Reidinger

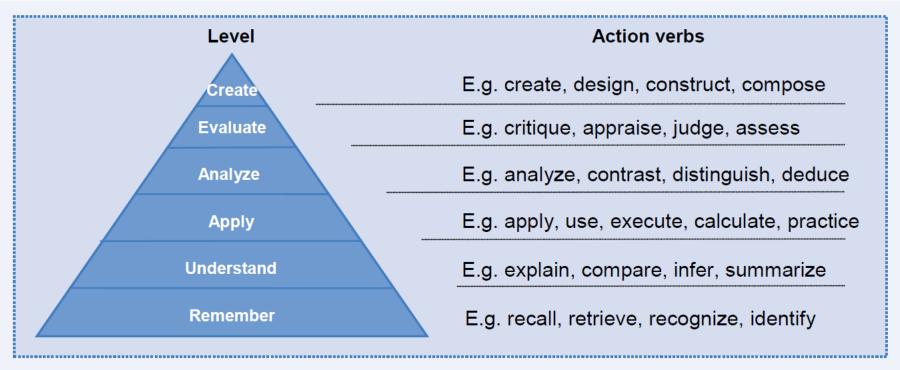


The NQF comprises eight levels with qualifications from all educational contexts assigned to <u>Levels 1 to 5</u>, also characterised by EQF descriptors (competence, skills, knowledge).

[©] NQR Koordinierungsstelle / Nationalagentur Lebenslanges Lernen / Oead GmbH; Grafik: Alexandra Reidinger



At <u>Levels 6 to 8</u>, different sets of descriptors are applied. Whereas qualifications of the Bologna architecture acquired at higher education (HE) institutions (i.e. bachelor, master and PhD) are classified according to the Dublin descriptors (Knowledge and Understanding, Application of Knowledge and Understanding, Ability to Make Judgements, Ability to Communicate and Learning Skills), assignment of all the other qualifications builds on the EQF descriptors (competence, skills, knowledge), which have been formulated to complement the EQF descriptor, and 'reference qualifications'.



Graph 2 - Example for Bloom's Taxonomy after Anderson et al. 2001 (after Steen 2009)

Source: E-Learning: Didactical Recommendations and Quality Assurance An Overview

Euroleague for Life Sciences / Quality Assurance Support Team & eLearning Support Team Copyright 2012 by the Euroleague for Life Sciences http://www.euroleague-study.org

Learning outcome

Learning outcomes are statements that specify what learners will know or be able to do as a result of a **learning activity**. Outcomes are usually expressed as knowledge, skills, or competences.

Passive $\leftarrow \rightarrow$ Active

Learning outcomes should flow from a needs assessment. The needs assessment should determine the gap between an existing condition and a desired condition. Learning outcomes are statements which described a desired condition – that is, the knowledge, skills, or competences needed to fulfil the need.

Learning outcome

Learning outcomes provide direction in the **planning of a learning** activity. They help to:

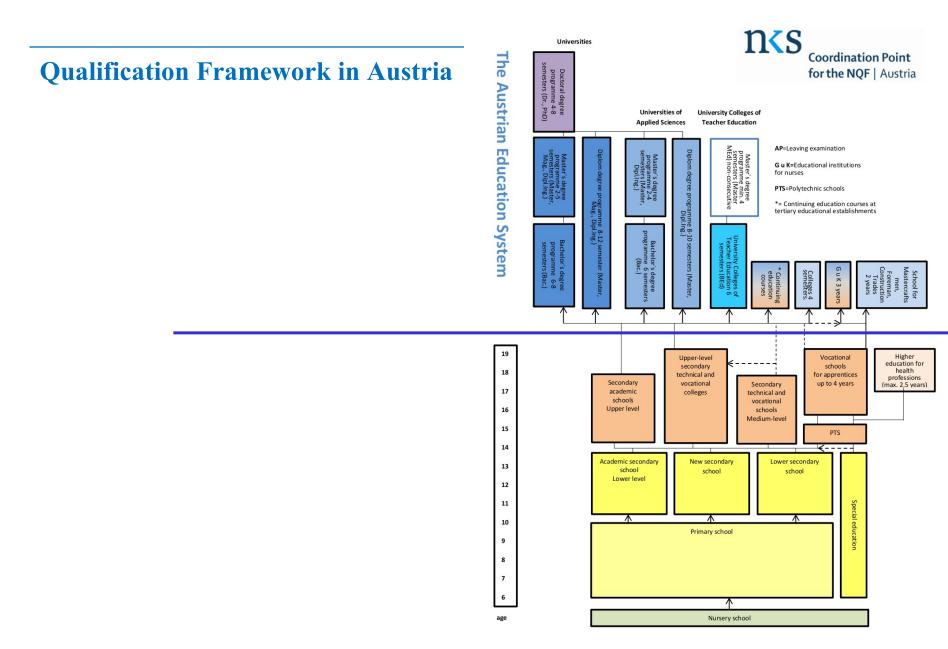
Focus on learner's behaviour that is to be changed
Serve as guidelines for content, instruction, and evaluation
Identify specifically what should be learned
Convey to learners exactly what is to be accomplished

More definitions:

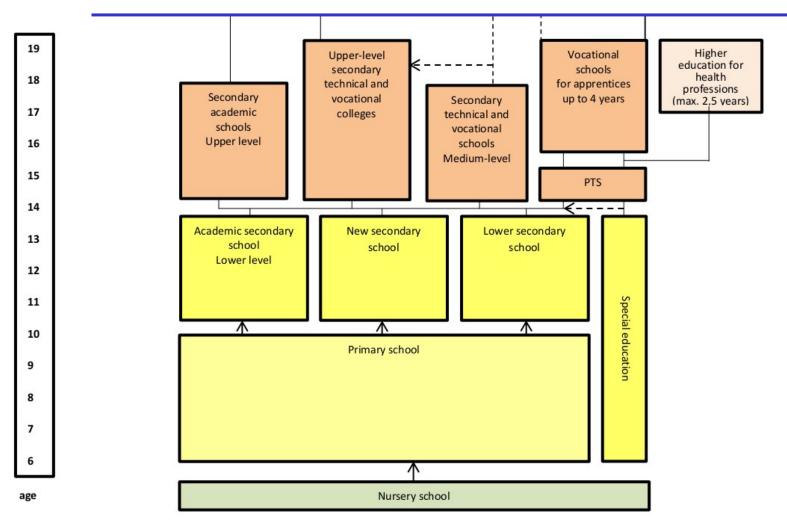
"An educational need is something individuals should learn for their own good, for the good of their organization or profession, **and** for the good of society." (Knowles, 1970)

A need represents a gap between an individual's current level and some desired level of knowledge, skills, or attitudes.

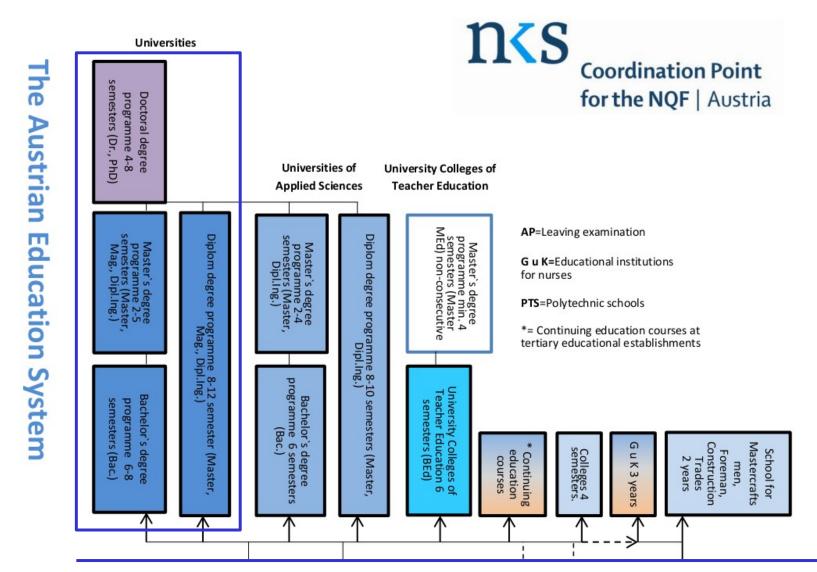
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Sources: BMUKK, BMWF, IBW.



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Development of NQF Austria

- •2007 research institutions carried out "extended studies".
- •since 2008 several pilot projects have been carried out in the following sectors: "building", "tourism", "health", electrical and in the commercial and administrative field.
- •after the consultation process in 2008 and the analysis of numerous comments in 2009 by a group of experts a decision about the first few principles of the NQF in Austria could be taken on the basis of NQF position paper by a speech in front of the Ministerial Council in November 2009.

Development of NQF Austria

•in 2010 criteria and procedures for the classification of qualifications were developed. These are now undergoing a first testing procedure through the simulation phase. The simulation phase pursues the following aims:

- ➤ Testing of the criteria elaborated for the classification of qualifications in the NQF and of the procedure for the classification of qualifications (Draft Handbook K1)
- ➤ Development of an evaluated and tested basis for future classifications of qualifications of all corridors.
- > "Testing" of the critical moments in the procedure

Development of NQF Austria

- •in 2011 the National Coordination Point started_extended public relations activities. On one hand with a road show through Austria and the beginning of the seminar series "Fit for NQF", and on the other hand with individual counselling. The aim is to look into various aspects of the NQF/EQF and the learning result orientation and related topics and tools for selected target groups.
- •in 2012, too, there will be several events focusing on specific target groups. Another project for this year is the completion of an Austrian EQF classification report, which will provide an overview of the current developments.

Environmental studies - Bachelor, Master, PhD & LLL Programmes at BOKU

Bachelor Programmes

Duration: 6 semesters

ECTS: 180

Academic Degree: Bachelor of Science (BSc.)

Language: German

Master Programmes

Duration: 4 semesters

ECTS: 120

Academic Degree: Master of Science (MSc.)

Language: English and German

PhD Programmes

Duration: 6 semesters

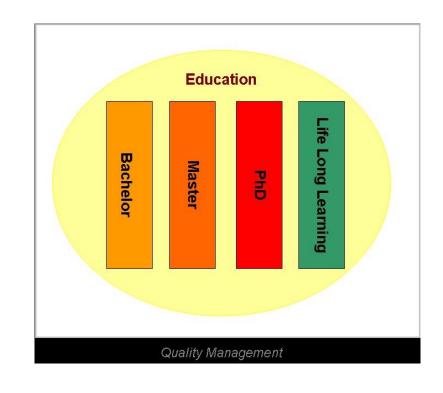
ECTS: 180

Academic Degree: PhD

Language: English and German

LLL Programmes

Language: English and German



Environmental studies - Bachelor, Master and PhD programmes at BOKU

8 Bachelor programs

http://www.boku.ac.at/en/studienangebot

4 English master programs

http://www.boku.ac.at/en/studienangebot/englischsprachige-masterstudien

15 German master programs

http://www.boku.ac.at/en/studienangebot/deutschsprachige-masterstudien

11 International master programs

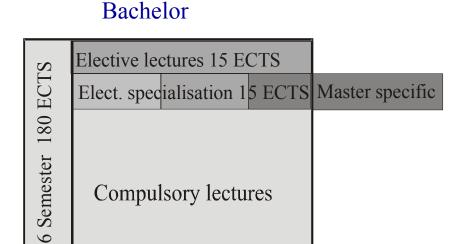
http://www.boku.ac.at/en/studienangebot/internationale-masterstudien

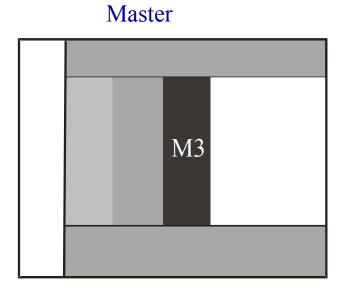
4 Doctoral programs

http://www.boku.ac.at/en/studienangebot/doktoratsstudien

Environmental studies – Bachelor and Master programmes at BOKU

Modularised curriculum concept



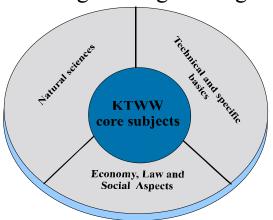


Module: closed, formal structured learning process (Bologna declaration)

- thematic defined learning and teaching
- with defined, coherent learning outcomes
- defined workload of students (ECTS-Credits)
- unambiguous and transparent grading criterias

Environmental studies - Bachelor and Master programmes at BOKU related to the IHLW

- Environmental Engineering
- Environmental Engineering (KTWW in German)
- Water Management and Environmental Engineering (in Engl.)
- NARMEE (in Engl.)
- International Course in Environmental Management and Ecological Engineering ENVEURO (in Engl.)



3 Pillars of Education

Identity and Characteristic of BOKU-Studies

Bachelor:

à 25% Natural Sciences, Technique,

Socioeconomic

Master:

à 15% Natural Sciences, Technique,

Socioeconomic

Bachelor Programme

Master Programme

Environmental studies - LLL Austria

Legal Framework

LLL: 2020 - Strategy for Life Long Learning Austria

- 4 Basic Principles
- 5 Strategic Guidelines
- 8 Key Competences

Publishers

- Ministry of Education, Arts and Culture
- Ministry of Science and Technology
- Ministry of Labour and Social Affaires
- Ministry of Economy, Family and Youth

Environmental studies - LLL Austria

4 Basic Principles

- Gender and Diversity
- Equal Chances and Social Mobility
- Quality and Sustainability
- Performance and Innovation

5 Strategic Guidelines

- Life Phase orientation
- Apprentice is the centre
- Life Long Guidance
- Competence orientation
- Participation support

8 Key Competences

- Competence in mother tongue
- Competence in foreign languages
- Competence in Mathematics and Natural Sciences
- Competence with Computer
- Learning Competence
- Competence in interpersonal, intercultural and social interaction
- Enterprise Competence
- Cultural Competence

Environmental studies - LLL programmes at BOKU

BOKU Implementation Procedure

- Departments suggest LLL-Activity
- Senate develops Quality Assurance
- Office of Rector approves LLL-Activity

BOKU Implementation Guidelines

- Self-financing
- Provision of professional and work-related extra qualifications
- Relevant to society
- Belonging to one of four categories (cf. next slide)

Environmental studies - LLL programmes at BOKU

Category I:

- 90 ECTS
- Finally certified: Master of ...(e.g. Business Administration)

Category II:

- 60 ECTS
- Academically certified ...
 (e.g. Academic Estate Manager)

Category III:

- < 60 ECTS
- Summer Schools, Seminars
- With course assessment

Category IV:

- < 60 ECTS
- Summer Schools, Seminars
- With certificate of attendance
- Without course assessment

Source: http://www.boku.ac.at/17543.html

Environmental studies - LLL programmes at BOKU

Category I: (3 Courses)

- MBA in Sustainable Development and Management
- MBA in Environmental Management
- MEng NanoBiosciences & NanoMedicine

Category II: (3 Courses)

- Academic hunter
- Academic Course: Media naturae
- ULG Ländliches Liegenschaftsmanagement

Category III:

• Summer schools – Euroleague – EU — e-learning

Category IV:

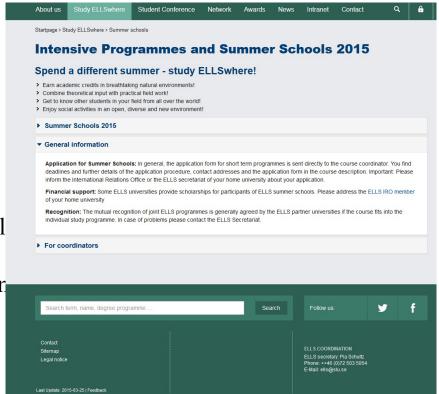
Univ.-Kurs Bleichen in der Papierrestaurierung

Source: http://www.boku.ac.at/17542.html

Environmental studies - Summer Schools

Intensive Programmes and Summer Schools 2015 Spend a different summer - study ELLS where!

- •Earn academic credits in breath taking natural environments!
- •Combine theoretical input with practical fiel work!
- •Get to know other students in your field from all over the world!

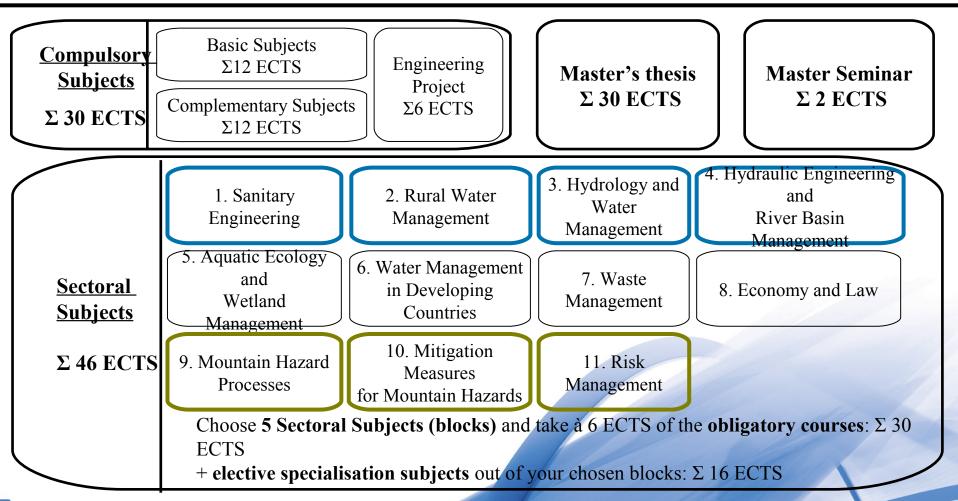


Link http://www.euroleague-study.org/109923#jfmulticontent_c232519-2

Master Programme

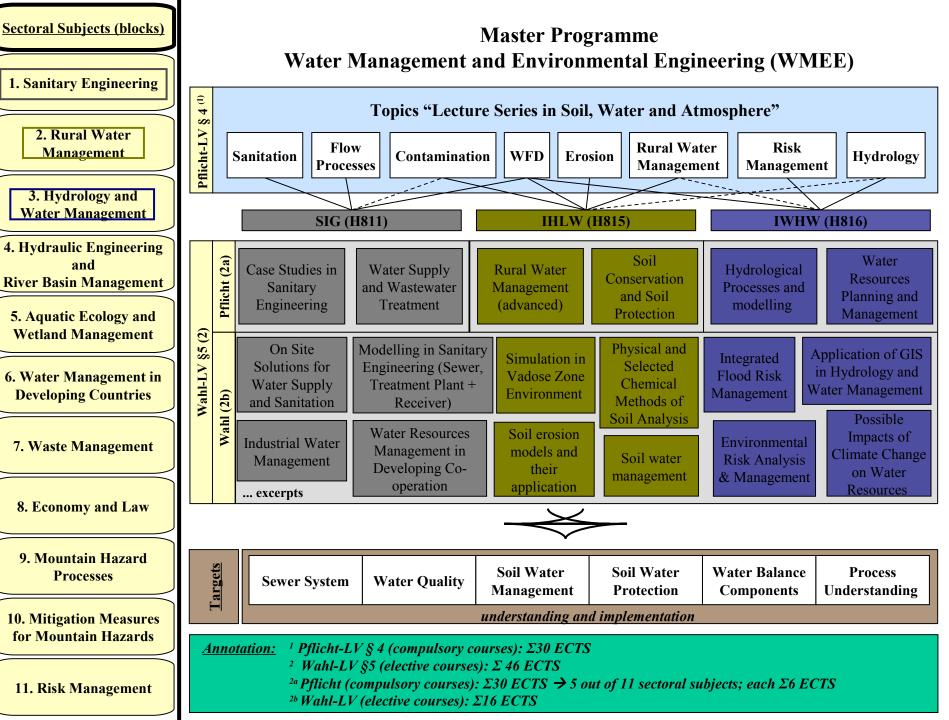
Water Management and Environmental Engineering (WMEE)



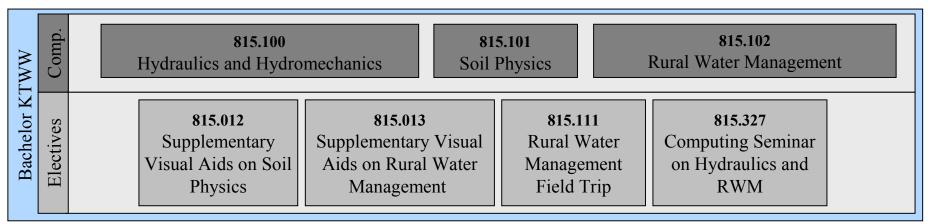


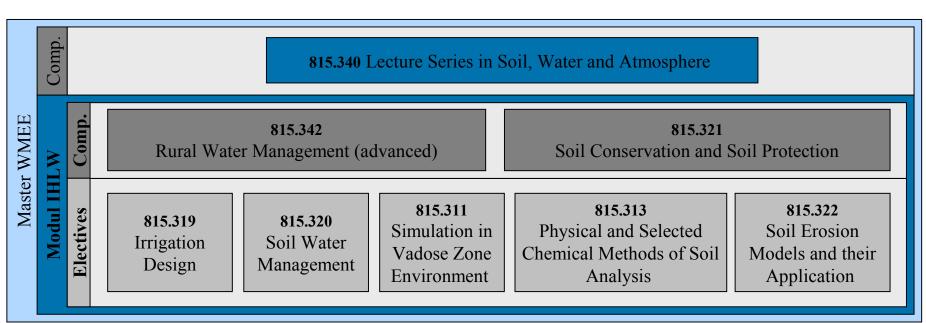
+ Σ 12 ECTS free electives

Master – Water Management and Environmental Engineering → 3 Blocks out of and



Lectures at the Institute of Hydraulics and Rural Water Management





Environmental studies – Lecture Example





University of Natural Resources and Life Sciences, Vienna

Department of Water, Atmosphere and Environment

Lecture Series in Soil, Water and Atmosphere VO 815.340

Thomas Ertl H811 Institute of Sanitary Engineering and Water

Pollution Control

Willibald Loiskandl H815 Institute of Hydraulics and Rural Water

Management

Hubert Holzmann H816 Institute of Water Management, Hydrology

and Hydraulic Engineering

Lecturers

Priv.-Doz. DI Dr. Thomas Ertl

Email: thomas.ertl(@boku.ac.at

Office hours: Please ask for an appointment per e-mail

Ao. Univ.-Prof. DI Dr. Hubert Holzmann

Email: hubert.holzmann@boku.ac.at

Office hours: Tuesday and Thursday 10:00-12:00

Univ.-Prof. DI Dr. Willibald Loiskandl

Email: willibald.loiskandl@boku.ac.at Office hours: Monday 15:30-17:00

Lecture Room

MUG3-SR13 (alternatively HS XXI)

Time: Friday 14:00 – 16:30h

Registration of Participants

All participating students have to register to the BOKU-Online system. Herewith all required personal information is available to the lecturer.

Please make the registration even if you have already registered by email!

Environmental studies – Lecture Example

Materials and Information

Course Materials on the Internet

http://www.boku.ac.at/iwhw/LVA816335/

International Glossary of Hydrology (from UNESCO)

http://webworld.unesco.org/water/ihp/db/glossary/glu/aglu.htm

Glossary of Soil Science Terms (from SSS of America)

https://www.soils.org/publications/soils-glossary/

Schedule and Content

Date	Lecturer	Content	
		Basic level	
16.11.2012	Holzmann	Introduction	
		Water Balance and Scale Issues	
		Processes	
		Monitoring and Observation of water balance components	
	Loiskandl	Interaction Soil / Vegetation / Atmosphere – Introduction	
	Ertl	Water quality and index class	
23.11.2012	Loiskandl	Soil (Genesis, Type, Properties)	
		Soil-Water-Movement	
30.11.2012	Holzmann	Runoff Formation	
		Rainfall Excess, Methods	
07.12.2012	Holzmann	Runoff Processes (Drought, Flood)	
		Model Overview	
		Legislation	
13.12.2012	Loiskandl	Soil-Water-Plant Interaction	
		Soil Erosion by Water	
Date	Lecturer	Content	
		Advanced level	
14.12.2012	Loiskandl	Legislation and Soil Water Management	
		Case Studies from Thailand, Iran and East Africa	
11.01.2013	Holzmann	Application of Rainfall Runoff Models (Forecast, Risk Management)	
		Spatial Analysis, GIS	
18.01.2013	Ertl	Urban Water and Solute Flow Processes	
25.01.2013	Ertl	Urban Drainage	
		Sanitary Engineering	
		Case Studies and Indication	

- The grading for the lecture is based on a written examination
- Dates and locations will be announced in BOKUonline

Aim of the lecture

Providing an overview of the relevant processes of the water cycle in the surface and subsurface environment and its interaction with atmosphere, plants and soils.

The course introduces methods of meteorological, hydrological and soil physical measurements and refers to computational methods for the modelling of water transport. Also soil functions and soil processes are addressed. Water quality and quality impact will be considered with respect to surface and subsurface water bodies.

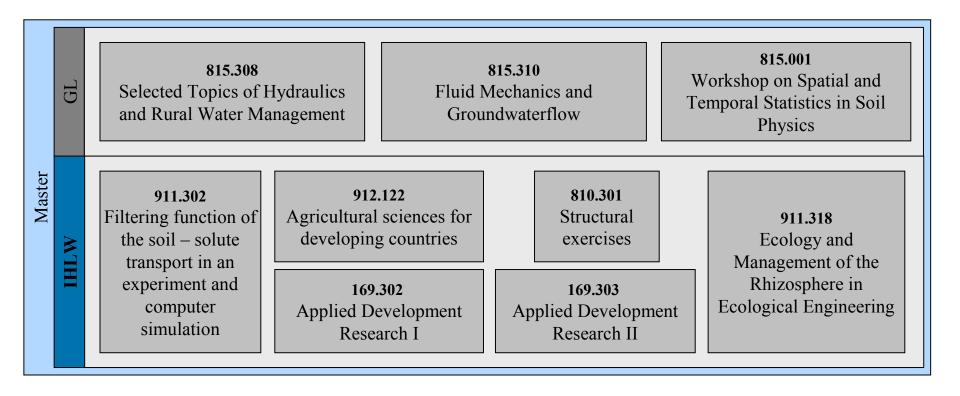
The objective of the course is to provide a basic knowledge for follow up courses.

Outcome

With respect to the Bologna Study Principles the outcome of the particular courses has to be defined.

These outcomes will explicitly be addressed for the specific course units.

Guest Lecturer (GL) at the IHLW and other Lectures with IHWL-Participation



Corner Stones

Bolgona Process

Berlin Conference 2003

"As for Quality Assurance, Ministers stressed that consistent with the principle of institutional autonomy, the primary responsibility for quality assurance in higher education lies with each institution itself."

Bergen Conference 2005

Approval of ENQA Standards and Guidelines for the Quality Assurance of the European Higher Education Area

London Conference 2007

Setting up European Register (EQAR) for Quality Assurance Agencies

Leuven/Louvain 2009

National qualififcation frameworks based on learning outcomes and workload

Bucharest Conference 2012

EQAR-registered agencies allowed to perform their activities across EHEA

Contact

University of Natural Resources and Life Sciences, Vienna Department of Water, Atmosphere and Environment Institute of Hydraulics and Rural Water Management

Universität für Bodenkultur Wien (BOKU) Department für Wasser-Atmosphäre-Umwelt Institut für Hydraulik und landeskulturelle Wasserwirtschaft

Willibald Loiskandl Muthgasse 18, 1190 WIEN, AUSTRIA Tel.: +43 1 47654 5488, Fax: +43 1 47654 5499 willibald.loiskandl @boku.ac.at











Following slides are prepared by Thomas Guggenberger

New University Act 2002

- → **Autonomy**
- → Contract management
- § 14: Universities have to design their own Quality Management System

 Evaluations are a crucial component of Quality Management System

Evaluations have to follow international standards

Evaluations as an ongoing exercise

All scientific staff has 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

•4 standards: quality strategy,

assure achievement of goals,

monitoring and information systems,

systematic incorporation of interest groups

•5 areas: education incl. continuous education,

research & research management,

administration,

staff management,

internationalisation and societal objectives

BOKU Quality Management System

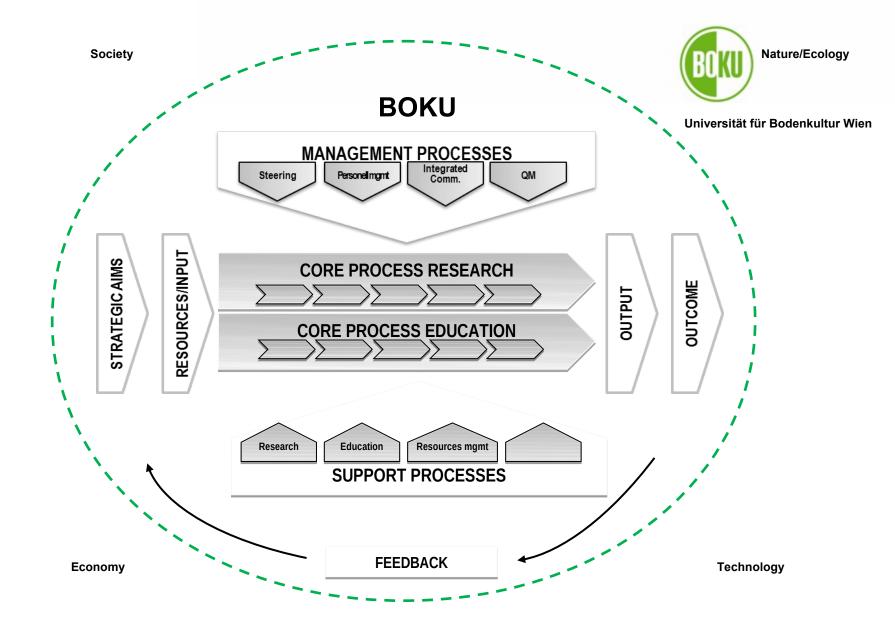


Objectives:

- → support achievement of strategic aims
- → set up a quality culture
- → document and optimize core processes (PDCA cycles, cover interfaces),
- → organisational development

Principles:

- participation of internal and external interest groups
- integration of centralized and decentralized quality assurance measures
- further development of QA tools and evaluations processes
- follow international standards (ENQA, DeGEval)
- communication and dialogue



BOKU Quality Management System



Activities:

Evaluations

Departments, professorships, courses, degree programmes, strategies

Development of criteria & guidelines

Guidelines for development and implementation of new curricula, Guidelines for Joint ELLS Master Programmes, habilitation criteria

Process quality management & elaboration of a Quality Handbook Study organisation, management of externally funded projects

Gratuate survey with INCHER Kassel & graduate tracking

Reporting and monitoring:

Human capital report, achievement report, sustainability report



Evaluation of Departments at BOKU

Specific objectives:

- → **assess** the overall performance profile
- → increase the **efficiency and effectiveness** of the department
- → promote profile and organizational development
- → highlight developmental **perspectives**, problem solutions and potentials

Evaluation Process



- 1. Updating of data basis
- 2. Evaluation contract
- 3. Selection of peers
- 4. Internal Evaluation: SWOT analysis, self evaluation report
- 5. External Evaluation: Peer review
- 6. Final Report
- 7. Meeting with head of peers
- 8. Performance contract between rectorate and department

Duration: 8-10 months

Areas of the Evaluation:



Universität für Bodenkultur Wien

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

Summative Evaluation formative

Assessment (past 5 years)

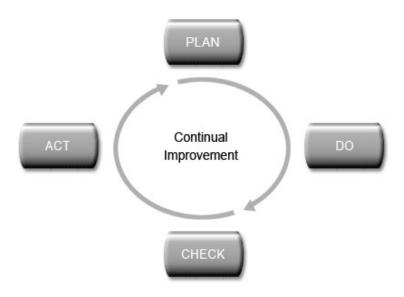
Strategic and oparational plan



Core idea of Self-Assessment-Report:

Universität für Bodenkultur Wien

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





Individual Evaluation of Professors

Universität für Bodenkultur Wien

Limited contracts for most 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,

data retrieval,

self report,

discussion of evaluation of peers and students,

final report incl. recommendations,

presentation to rectorate,

contract negotiation.

Duration: 8 months



Individual Evaluation of Professors

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**)



Education: New Concept for Course Evaluations

- Standardized questionnaire
- Open questions
- OR: round table discussions



Course Evaluations: Main dimensions:

Universität für Bodenkultur Wien

- teacher
- course
- framework
- students
- success of the course

Additional specific items for:

- seminars
- practical work
- excursions

Teacher informs about learning outcomes.

Teacher informs about assessment criteria.

I am well supported him Countries of the Countries of the

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 (interdisciplinarity).

There are very good scripts and other materials.

The use of elearning makes sense.

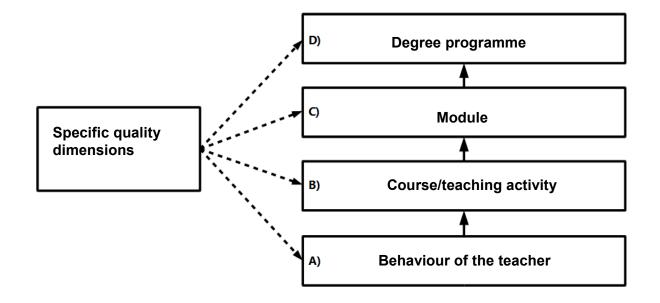
There are links to research at BOKU.

Active participation of students is fostered.

The workload corresponds with the ECTS points.



Evaluation of Teaching and Learning





A) Behaviour of the Teacher:

Universität für Bodenkultur Wien

A good teacher...

cares about and has an effect on student learning;
knows the subject area;
clearly states the objectives of the course;
is well prepared for each class session;
explains the course material clearly and effectively;
is enthusiastic about teaching the subject and makes the course stimulating;
summarizes or emphasizes major points in the lecture;
is readily available for consultation with students;
encourages students to ask questions and express their ideas or opinions;
clearly explains how students will be evaluated in the course;
gives exams or assigns papers which reflect the important aspects of the course;
relates the subject matter to other academic disciplines or real world problems;
provides opportunities for students to assess their progress in the course;
develops and maintains an atmosphere of mutual respect.

Source: Indiana University Northwest

Euro League of Life Sciences (ELLS)



Universität für Bodenkultur Wien

- 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: QA Support Group



Objectives:

- To carry out an <u>exchange of information</u> between the ELLS universities in the area of quality assurance, evaluation, benchmarking and quality development with special emphasis on teaching and learning
- To <u>improve</u> and further develop the <u>quality</u> of courses and international Master programmes
- To improve evaluation procedures and follow up processes

Members: Experts from all member universities

Student association

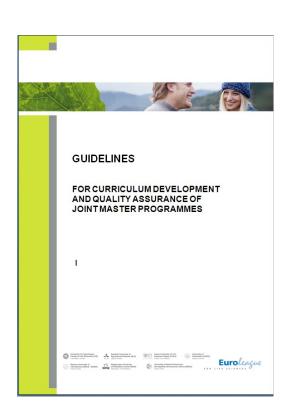
ICA



Guidelines for Curriculum Development of Joint Master programmes



- Need
- 2. Degree profile
- 3. Programme structure and mobility
- 4. Learning, teaching and assessment
- 5. Admission
- 6. Master thesis and degree
- 7. Management and resources
- 8. Quality assurance



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.

Guidelines: Thesis Evaluation Form



Name:	Title of Thesis:	
University	_	
Starling Dale: Finishing Dale	:Number of pages	
Evaluation Criteria	Comments	Grade points/ Grade s
Problem definition • relevant		
 clearly physical les lable 		
Research design • Theore Ical Harnework • researchme Hods		
Eneoution - scholarly level - level offmnovation		
Re search re suits - description - analysis		
Analysis, interpretation, conclusions clear determable		
Justification of the source cand literature used		
Clearly phra sed reporting		
Structure of the the dis		
Further comments		
Grade ³		
Dale, Name and signalure of the exam	Iner	



Lessons learnt

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



2. 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



QM network of Austrian universities

Working groups: surveys on graduates

evaluation of scientists

peer councelling

analysis of students' progression

setting up a QMS

preparation of a quality audit



Documents & links:

- QA Group of ELLS: www.euroleague-study.org/supportteams/quality/index.html
- European University Association EUA: www.euy.be/eua.index.isp
- Network QM of Austrian universities: www.qm-netzwerk.at/Home/das_netzwerk/
- Quality Management at BOKU: www.boku.ac.at/qm.html



Thank you for your attention!

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 $http://www.lebenslanges-lernen.at/fileadmin/lll/dateien/lebenslanges_lernen_pdf_word_xls/nqr/EQR-Zuordnungsbericht/Austrian_EQF_Referencing_Report.pdf$



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 $http://www.lebenslanges-lernen.at/fileadmin/lll/dateien/lebenslanges_lernen_pdf_word_xls/nqr/EQR-Zuordnungsbericht/EQF_Referencing_AT_Supplementary_Information.pdf$

http://www.lebenslanges-lernen.at/fileadmin/lll/dateien/lebenslanges_lernen_pdf_word_xls/nqr/EQR-Zuordnungsbericht/Anhang_3_Positionspapier_NQR_200910.pdf

http://www.lebenslanges-lernen.at/fileadmin/lll/dateien/lebenslanges_lernen_pdf_word_xls/nqr/EQR-Zuordnungsbericht/Annex_4_Manual_for_Including_Formal_Qualifications_in_NQF.pdf

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http://www.lebenslanges-lernen.at/fileadmin/lll/dateien/lebenslanges_lernen_pdf_word_xls/nqr/EQR-Zuordnungsbericht/Anhang_7_BGBl_II_Nr_300_2011_Anlage_1.pdf

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http://www.lebenslanges-lernen.at/fileadmin/lll/dateien/lebenslanges_lernen_pdf_word_xls/nqr/EQR-Zuordnungsbericht/Anhang_8_2_Curriculum_MA_Alpine_Naturgefahren.pdf

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