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New and Innovative Courses for Precision Agriculture



Dr. Arnold Sterenharz

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Development of Quality Assurance of new/modernized curricula implementation

Preliminary Steps before developing new curricula/ modernizing the existing curricula

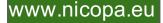
The quality group should:

•Conduct a need analysis of university regarding curricula update/development

•Defining requirements of the labor market

•Formulating competences of specialists that will be valuable in the next 3-5 years





Development of Quality Assurance of new/modernized curricula implementation

Developing Quality Indicators

After the preliminary steps:

- Develop indicators for quality assessment of implementation of each new/ modernized curricula or curricula package in the target field.
- Develop them BEFORE creating new curricula or modernizing the old ones
- Quality Indicators should be developed according to the QA system of each of the PC universities; examples of quality indicators provided by ECM can also be taken into considerations



Examples of Quality Indicators

Examples of quality indicators (only suggestion, universities should develop their own quality indicators)

- 1. Balance of student's workload: theory, practical work (not less than 50%), individual work, internship in a company, testing system
- 2. Application of ECTS by developing new modules/courses/curricula or modernizing the old ones
- 3. Usage of information about the latest (up to 5 years old) results of scientific research of foreign scientists in teaching materials
- 4. Usage of the university online educational platform during the educational process
- 5. Ability of students to influence the educational content or process. For instance, ability of students to choose a topic of reporting or practical works, to attend elective modules/courses.
- 6. Partial teaching and implementation of reporting works in English
- 7. Portfolio of student's completed practical works in a group
- 8. Correspondence to the national norms (standards) of education
- 9. Consideration of a new module by the university council of experts with the participation of potential employers (chair meeting, meeting of educational council)
- 10. Publications of teaching staff or students, participation in conferences on the module's topics





Peer Review

Each university should organize peer review* of new/modernized curricula

Potential Peer Reviewers:

Each university should create a list of potential peer reviewers (organizations or persons) that it considers competent enough to conduct a peer review of new/modernized curricula.

These could be:

Representatives of research centers, universities, ministries, other institutions functioning in the respective industry etc.

✤Each university should define 1-3 peer reviewers and conduct negotiations with them of when to send them materials for a peer review

*Peer Review is the evaluation of work by one or more people of similar competence to the producers of the work (peers). Peer review methods are employed to maintain standards of quality and improve performance



Peer Review

What to provide for a peer review

♦ Curricula description

List of quality indicators by which peer reviewers will assess the curricula

Selected documents, which will correspond and support quality indicators. Each university should decide which accompanying documents suit best



Peer review template

Name of the university:
Module/curriculum/course title:
Xxxxxxxxx

Award criteria:	Score	Max		
Indicator 1: Balance of student's workload	4	5		
Comments/recommendations of a peer reviewer				
Indicator 2: Application of ECTS	4	5		
Comments/recommendations of a peer reviewer				
Indicator 3: Usage of information about the	3	5		
latest (up to 5 years old) results of scientific				
research of foreign scientists in teaching				
materials				
Comments/recommendations of a peer reviewer				



Peer review template

Indicator 4: Usage of the university online educational platform during the educational process	5	5		
Comments/recommendations of a peer reviewer				
Indicator 5: Ability of students to influence the educational content or process	4	5		
Comments/recommendations of a peer reviewer				
Indicator 6: Partial teaching and implementation of reporting works in English	4	5		
Comments/recommendations of a peer reviewer				
Indicator 7: Portfolio of student's completed practical works in a group	4	5		
Comments/recommendations of a peer reviewer				



Peer review template

Indicator 8: Correspondence to the national	4	5	
norms (standards) of education			
Comments/recommendations of a peer reviewer			
Indicator 9: Consideration of a new module by	3	5	
the university council of experts with the			
participation of potential employers (chair			
meeting, meeting of educational council)			
Comments/recommendations of a peer reviewer			
Indicator 10: Publications of teaching staff or	5	5	Score of the Module
students, participation in conferences			"Occupational Health" = 40
			Number of quality indicators: 10
Comments/recommendations of a peer reviewer			
Total score:	40 (max. 50)		*40/10 = 4 (arithmetic mean = "grade" of xxxxx module)
Number of indicators	10		grade er sooder medale)
Arithmetic Mean	4*		
Summary of the peer reviewer:			
			ENGINEERIN

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Thank you for your attention!



Co-funded by the Erasmus+ Programme of the European Union Dr. Arnold Sterenharz arnold.sterenharz@ecm-space.de ECM space technologies GmbH