



SETOF Soil Erosion and TOrrential Flood
*Prevention: Curriculum Development at the
Universities of Western Balkan Countries*

Partner institution:
UNIVERSITY OF BANJA LUKA
Faculty of Forestry

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WORKING PACKAGE 3

DEVELOPMENT

Implementation of developed curricula and trainings



RESULTS/OUTCOMES

3.3. Evaluation of syllabi

Description

The evaluation of the syllabuses of the new and modernized subjects will be conducted by the teachers of the EU partner countries P7, P9 and by those from Macedonia, P8. Students will also be evaluating the programs and special questionnaires will be created for that purpose. The questionnaires will be prepared by the teachers at Serbian and Bosnian-Herzegovinian universities in cooperation with the other Project participants.

Type	Report
Due date	6 weeks
Languages	Serbian, Bosnian
Target groups	Teaching staff, students

RESULTS/OUTCOMES

3.4. Report of bachelor and master curricula quality

Description

Report on Quality of Developed Subjects shall be submitted by P4 (UNIBL-REPUBLIC OF SRPSKA (B&H), who is the WP leader. Separately from that, QAC will provide a regular report on the assessment of the quality of the curricula on the basis of the report prepared by the WP leader. The Report shall contain the analysis of the results obtained from the questionnaire that will have been filled out by the students and the assessment of the EU universities' project participants.

Type	Report
Due date	8 weeks
Languages	Serbian, Bosnian
Target groups	Teaching staff, students
Dissemination level	Department, Faculty



Deadline for the second Report on activity 3.3, is February 15, 2021.

Report is submitted by UBL and UNS.

Report is given based on average values of questionnaires for each subject on Bachelor and Master study by students, who listened those subjects in the winter semester 2020/2021.



UNIVERSITY OF BANJA LUKA

Study program title: **Forestry**
Type and Level of Study: **Basic Academic Studies (Bachelor)**

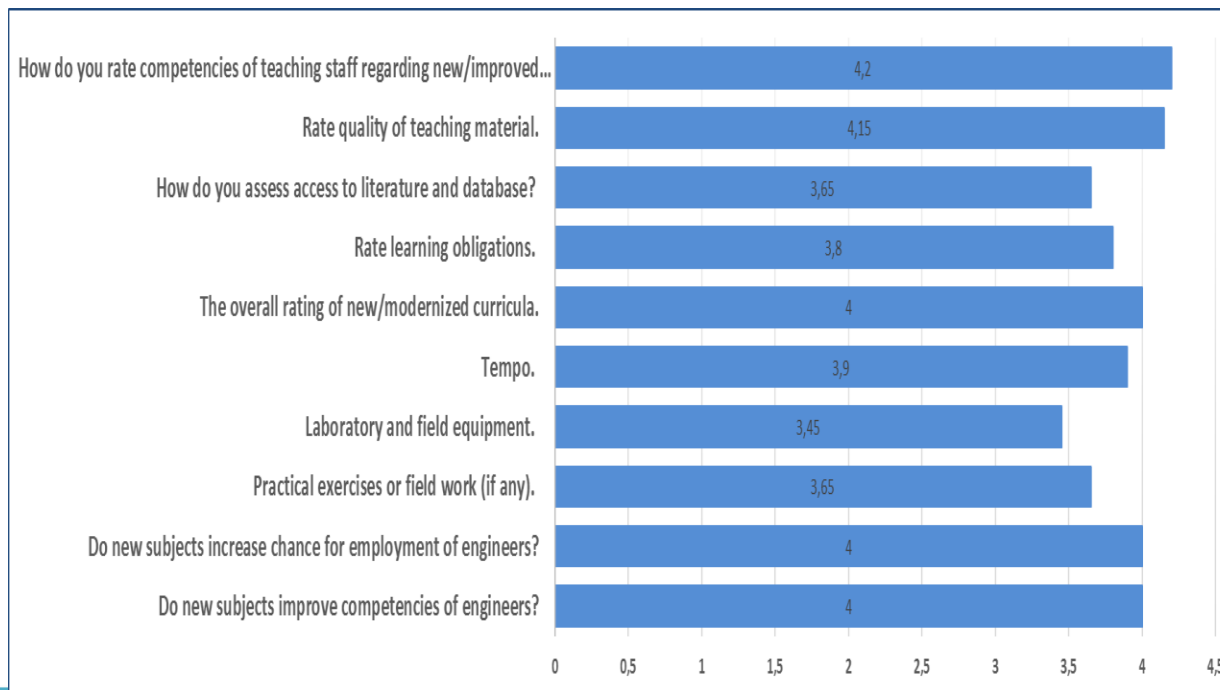
Subject: Forest eco-climatology

Total of 20 student are interviewed.

QUESTION	POOR	OK	GOOD	VERY GOOD	EXCELLENT
How do you rate competencies of teaching staff regarding new/improved curricula?	0,00	5,0	15,00	35,00	45,00
Rate quality of teaching material.	0,00	0,00	20,00	45,00	35,00
How do you assess access to literature and database?	0,00	15,00	20,00	50,00	15,00
Rate learning obligations.	0,00	10,00	25,00	40,00	25,00
The overall rating of new/modernized curricula.	0,00	0,00	30,00	40,00	30,00
Tempo.	0,00	10,00	10,00	60,00	20,00
Laboratory and field equipment.	5,00	20,00	25,00	15,00	40,00
Practical exercises or field work (if any).	10,00	10,00	25,00	15,00	40,00
Do new subjects increase chance for employment of engineers?	0,00	5,00	25,00	35,00	35,00
Do new subjects improve competencies of engineers?	0,00	0,00	10,00	55,00	30,00
Final comment and recommendations:	NO				

UNIVERSITY OF BANJA LUKA

- Overall rate of modernized curricula of subject Forest eco-climatology is very high (excellent).
- The weakest rate was given capacities of laboratories and equipment and field exercise.
- Important aspect is that students consider that competencies of engineers with this curricula increase, as well as chance for future employment.





UNIVERSITY OF NOVI SAD

Study program title: **Water Management**

Type and Level of Study: **Basic Academic Studies (Bachelor)**

Subjects:

Engineering Hydrology

River engineering

Bioregulation

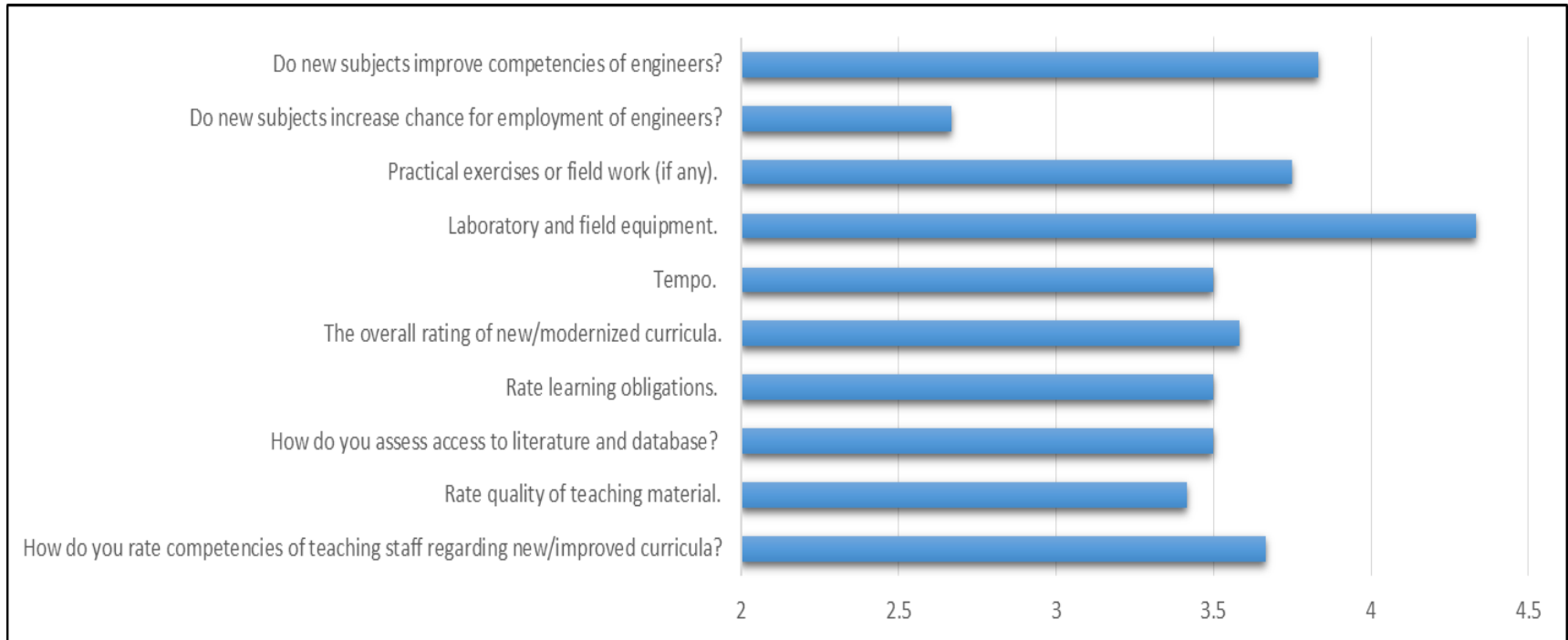
Soil Conservation Structures

Total of 12 student are interviewed.

Question	Poor	OK	Good	Very good	Excellent
How do you rate competencies of teaching staff regarding new/improved curricula?	0.00	16.67	16.67	50.00	16.67
Rate quality of teaching material.	0.00	16.67	25.00	58.33	0.00
How do you assess access to literature and database?	0.00	8.33	33.33	58.33	0.00
Rate learning obligations.	0.00	0.00	50.00	50.00	0.00
The overall rating of new/modernized curricula.	0.00	0.00	41.67	58.33	0.00
Tempo.	0.00	0.00	50.00	50.00	0.00
Laboratory and field equipment.	0.00	0.00	16.67	33.33	50.00
Practical exercises or field work (if any).	0.00	0.00	41.67	41.67	16.67
Do new subjects increase chance for employment of engineers?	16.67	25.00	33.33	25.00	0.00
Do new subjects improve competencies of engineers?	0.00	0.00	33.33	50.00	16.67
Final comment and recommendations:	NO				



UNIVERSITY OF NOVI SAD



UNIVERSITY OF NOVI SAD

Study program title: **Water Management**

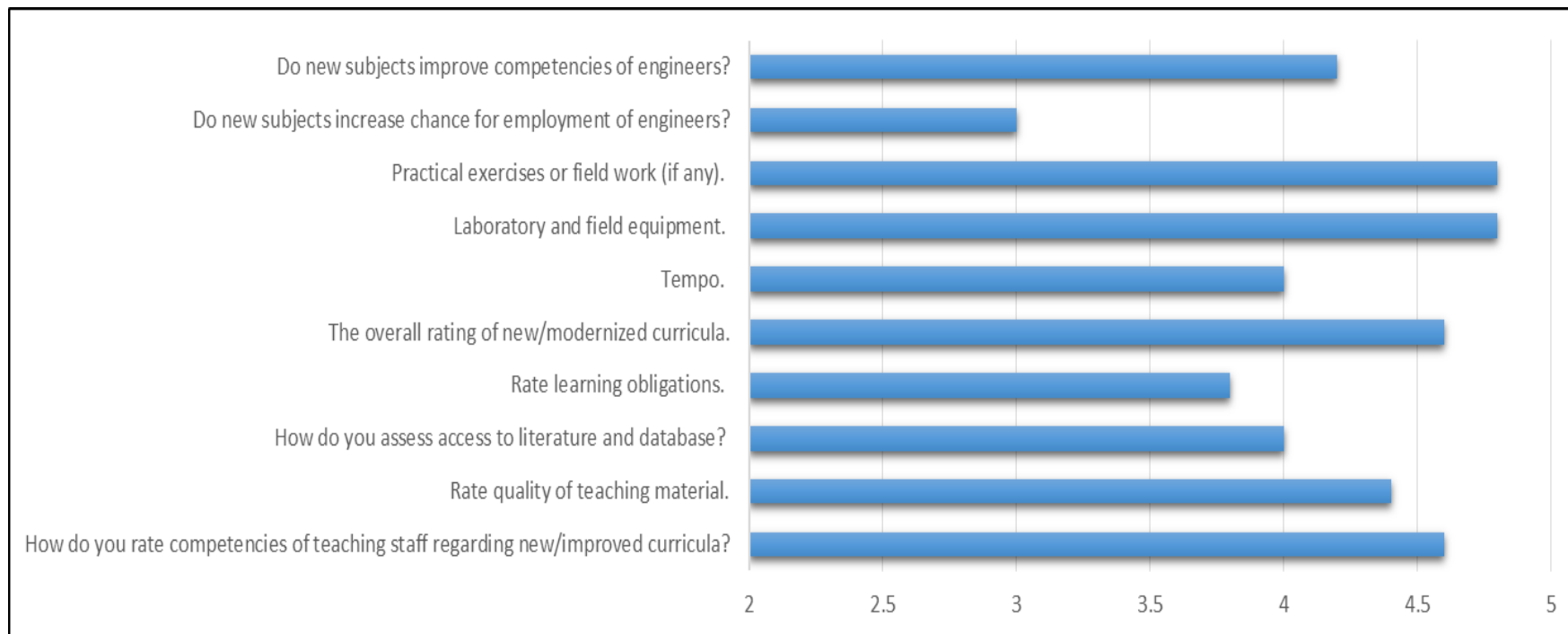
Type and Level of Study:
Master Academic Studies (Master)

Subject:
Soil and Water Conservation

Total of 5 student has been interviewed.

Question	Poor	OK	Good	Very good	Excellent
How do you rate competencies of teaching staff regarding new/improved curricula?	0.00	0.00	0.00	40.00	60.00
Rate quality of teaching material.	0.00	0.00	0.00	60.00	40.00
How do you assess access to literature and database?	0.00	0.00	20.00	60.00	20.00
Rate learning obligations.	0.00	0.00	20.00	80.00	0.00
The overall rating of new/modernized curricula.	0.00	0.00	0.00	40.00	60.00
Tempo.	0.00	0.00	0.00	100.00	0.00
Laboratory and field equipment.	0.00	0.00	0.00	20.00	80.00
Practical exercises or field work (if any).	0.00	0.00	0.00	20.00	80.00
Do new subjects increase chance for employment of engineers?	0.00	40.00	20.00	40.00	0.00
Do new subjects improve competencies of engineers?	0.00	0.00	0.00	80.00	20.00
Final comment and recommendations:	NO				

CONCLUSIONS



Bachelor and Master study - students

Overall rate of modernized subjects on Bachelor and Master study is high (very good and excellent). The weakest rate was given for the question Do new subjects increase chance for employment of engineers?

Students opinion is that they are not confident that the improvement of curricula will significantly improved chances for employment, which could be related to the socio economic situation in Serbia.



Study program title: **Ecological engineering for soil and water resources protection**

Type and Level of Study: **Basic Academic Studies (Bachelor)**

New subjects

1. Revitalization of Small Water Flows
2. Climate change and natural hazards management
3. Basics of forest hydrology
4. Hydraulics of open channel flow
5. Economics of the soil and water resources protection

The changes that will be made in the bachelor study programs will be within the so-called small changes (up to 20% ECTS):

1. Soil conservation
2. Organization of anti-erosion works
3. Management of soil and water resources in protected areas

Study program title: **Ecological engineering for soil and water resources protection**

Type and Level of Study: **Master Academic Studies (Master)**

New subjects

1. Surface water resources
2. Stabilization of the terrain

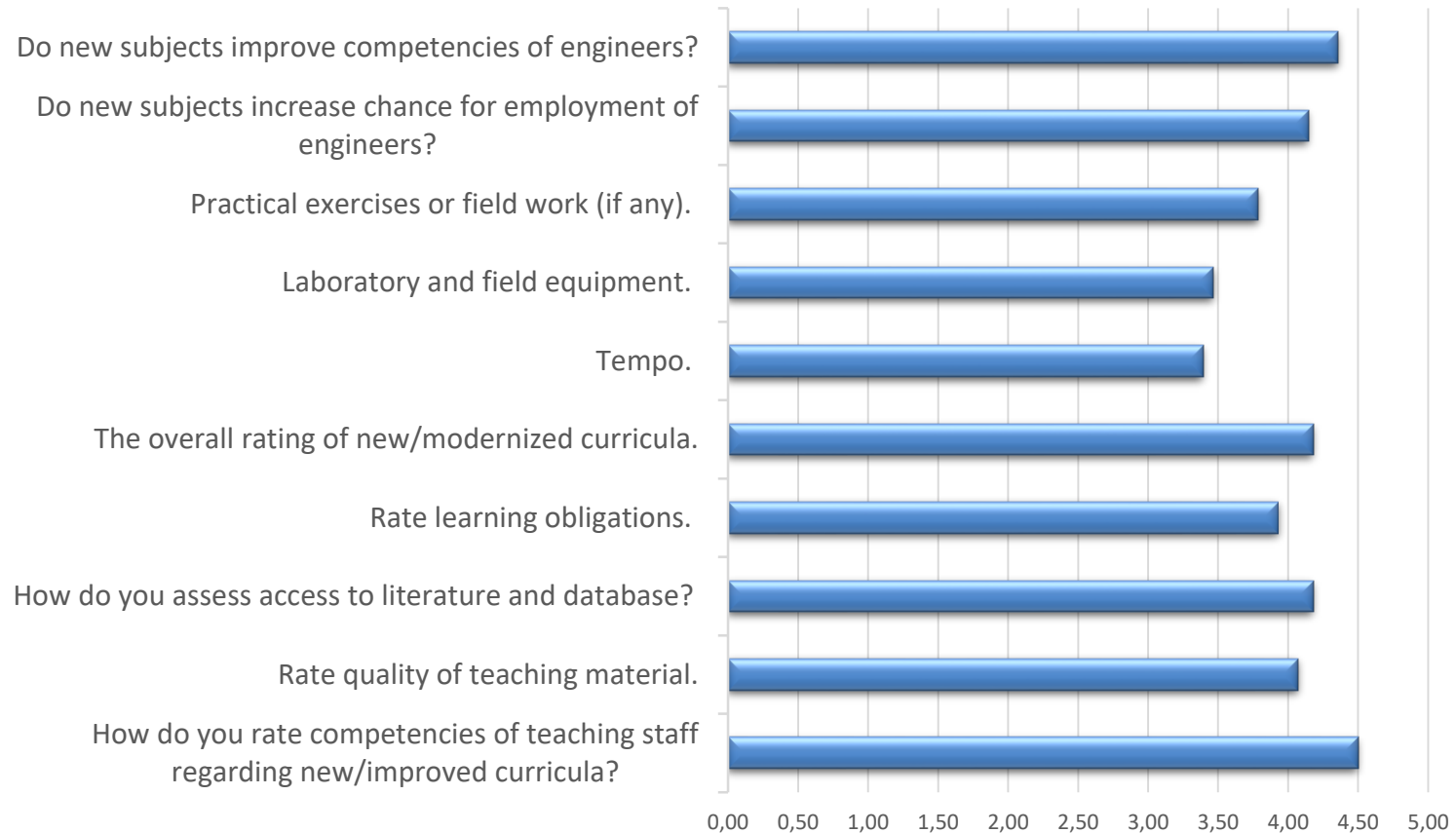
List of advanced subjects incorporated in the Master's Degree Program in Ecological engineering in soil and water resources protection:

1. Quality management in the protection of soil and water resources
2. Valuation of natural resources



UNIVERSITY OF BELGRADE Bachelor study programme/s

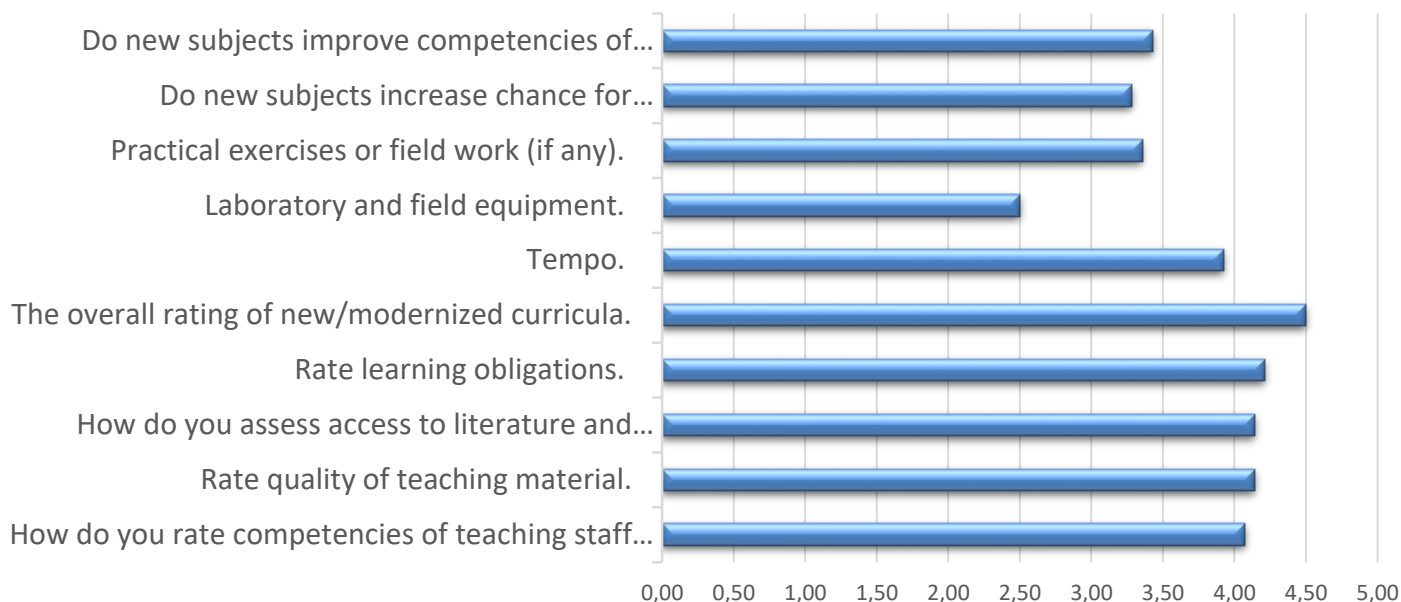
Question	Poor	OK	Good	Very good	Excellent
How do you rate competencies of teaching staff regarding new/improved curricula?	0,00	0,00	14,29	21,43	64,29
Rate quality of teaching material.	0,00	0,00	21,43	50,00	28,57
How do you assess access to literature and database?	0,00	0,00	17,86	46,43	35,71
Rate learning obligations.	0,00	7,14	25,00	35,71	32,14
The overall rating of new/modernized curricula.	0,00	0,00	17,86	46,43	35,71
Tempo.	0,00	25,00	21,43	42,86	10,71
Laboratory and field equipment.	10,71	21,43	14,29	17,86	35,71
Practical exercises or field work (if any).	0,00	17,86	14,29	39,29	28,57
Do new subjects increase chance for employment of engineers?	7,14	0,00	7,14	42,86	42,86
Do new subjects improve competencies of engineers?	0,00	0,00	14,29	35,71	50,00
Final comment and recommendations:	<p>Additional improvement of subjects related to the application of remote sensing methods and GIS</p> <p>Modernize equipment</p>				



UNIVERSITY OF BELGRADE Master study programe/s

Question	Poor	OK	Good	Very good	Excellent
How do you rate competencies of teaching staff regarding new/improved curricula?	0,00	0,00	35,71	21,43	42,86
Rate quality of teaching material.	0,00	0,00	21,43	42,86	35,71
How do you assess access to literature and database?	0,00	0,00	28,57	28,57	42,86
Rate learning obligations.	0,00	0,00	28,57	21,43	50,00
The overall rating of new/modernized curricula.	0,00	0,00	0,00	50,00	50,00
Tempo.	0,00	7,14	21,43	42,86	28,57
Laboratory and field equipment.	21,43	21,43	14,29	0,00	28,57
Practical exercises or field work (if any).	0,00	35,71	28,57	0,00	35,71
Do new subjects increase chance for employment of engineers?	0,00	28,57	28,57	28,57	14,29
Do new subjects improve competencies of engineers?	0,00	28,57	28,57	14,29	28,57
Final comment and recommendations:					

CONCLUSIONS



Bachelor and Master study - students

Modernized study programs of Bachelor and Master studies of Environmental Ecological engineering for soil and water resources protectionas, well as the competence of the teaching staff, were evaluated with a very high grade, as before.

Slightly lower grades are related to questions about database and available literature, employment opportunities for graduate engineers. Also, students think that is necessary to improve the equipment of laboratories, increase practical teaching, which has resulted in a lower rate.

The students believe that the new master course will increase interest in this area of researches.



THANK YOU FOR YOUR ATTENTION!

