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PROJECT ”Improvement of master-level education in the field of physical sciences in Belorussian universities”, Acronym: "Physics"

MONITORING AND EVALUATION BY EXTERNAL EXPERT
INTERMEDIARY REPORT ON QUALITY

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“Quality is not an act. It is a habit.”

Aristotle

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1. THE PURPOSE OF THE REPORT

The Quality intermediate report is directed on the assessment of a progress of development of conformed and compatible/unified curricula and development of study programs at four Belarusian universities, hereinafter called Higher education institution (HEI), namely:

Belarusian State University (BSU);
Grodno State University (GrSU);
Gomel State University (GoSU);
Belarusian State Technological University (BSTU).

The Quality intermediate report is based on the Reports, received from partners universities:

Deliverable No 2.1. “Report on new curricular testing with feedback from stakeholders” and
Deliverable No 2.2. “Development of conformed and compatible/unified curricula.

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2. QUALITY ASSESSMENT RESULT

Deliverable No 2.1. “Report on new curricular testing with feedback from stakeholders”.

As measurement indicators the expert uses:

1)Description and the number of validated / tested during one-year master-level courses.

2)Feed-back from main stakeholders (student attraction activity overview; student feed-back testing; feed-back from academic/teacher staff = teacher’s questionnaire; feed-back from student’s governance).

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2. QUALITY ASSESSMENT RESULT - Belarusian State University (BSU)

Title of HEI	Description of the courses tested during the report and Feed-back from main stakeholders	Comments
Belarusian State University (BSU)	**Description of the courses tested during the report:** "Composite nanostructured materials" "Nanomaterials in energetics" "Physics and Chemistry of Surface" (Bachelor) "Optics of nanostructures" "Thermodynamics of nanosystems" "Opto- and microelectronics" "Physics of electrically conductive polymers" "Nanotechnologies in electronics" "Spintronics" "Physics and Chemistry of Surface" (5-year course) "Laser physics" "Nonlinear Optics" "Introduction to Soiled State Physics"	Tested during autumn semester 2017/2018

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2. QUALITY ASSESSMENT RESULT - Belarusian State University (BSU)

Belarusian State University	Feed-back from main stakeholders Feed-back from the students Feed-back from the students' organization Feed-back from academic/ teacher staff The student attraction event	Courses and laboratory practices were tested during autumn 2017 (8 of 13 developed courses and 1 of 2 laboratory practices) 22 students' questionnaire were received Students' organisations have tested and gave the feed–back about 8 developed courses and 1 laboratory practice (September 2017 – January 2018) Academic/teachers of 7 study courses and 1 laboratory practices were surveyed Event took place in September 2017

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2. QUALITY ASSESSMENT RESULT - Grodno State University (GSU)

Grodno State University	Description of the courses tested during the report "Nanophotonics" Feed-back from main stakeholders Feed-back from the students Feed-back from the academic/teacher staff Student attraction event	Student feed-back was tested in January 2018; 8 students' questionnaire were received Tested in January 2018 The screen about student attraction event is attached but date is not given

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2. QUALITY ASSESSMENT RESULT - Belarusian State Technological University (BSTU)

Belarusian State Technological University	Description of the courses tested during the report	Study courses were tested in master-students speciality
	"Modification of polymers and composites" "Promising technologies for processing polymers and composites" "Modification of polymers and composites"	"Technology and processing of polymers and composites" during Autumn semester 2017/2018

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2. QUALITY ASSESSMENT RESULT - Belarusian State Technological University (BSTU)

Belarusian State Technological University	Feed-back from main stakeholders Students' questionnaires Student attraction events	Questionnaires (4) - tested January 2018 Students attraction - was done during the "Open doors"

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2. QUALITY ASSESSMENT RESULT - Gomel State University (GoSU)

Gomel State University	Description of the courses tested during the report “The modern ideas of matter structure” “Computer simulation” “Quantum theory of atomic and molecular spectra”	Study courses were tested in master-students during Autumn semester 2017/2018

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2. QUALITY ASSESSMENT RESULT - Gomel State University (GoSU)

Belarusian State Technological University (BSTU)	Feed-back from main stakeholders Students' questionnaires (3 courses were tested) Students attraction events Feed-back from academic/teacher staff Feed-back from the students' organizations (is expected)	Questionnaires (60) - tested December 2017

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2. QUALITY ASSESSMENT RESULT

Deliverable No 2.2. “Development of conformed and compatible/unified curricula”

As measurement indicators the expert uses:

- The number of teaching materials developed: lecture notes/synopsises, descriptions/manuals of laboratory works, courses books, etc.
- The number and names of Standard master-level programs with ECTS system’ application, accredited in the Ministry of Education
- The number and names of education courses with ECTS system’ application, accredited in the partner’s university
- The number of teaching/didactic materials uploaded to e-Library; Virtual laboratory for student training, the instruction for its on-line usage

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2. QUALITY ASSESSMENT RESULT – main results on deliverable 2.2.

Title of HEI		
Belarusian State University (BSU)	**The number and titles of Standard master-level programs with ECTS system' application, accredited in the Ministry of Education** 1-31_81_02-Photonics for 4-5-year courses 2012 1-31_81_03-Functional nanomaterials for 4-5-year courses 2012 Curricula_81 02 Photonics_2 year master level 2017 Curricula _81 03 Functional nanomaterials_2 year master level 2017 https://dl.bsu.by/mod/folder/view.php?id=27007 https://dl.bsu.by/mod/ folder/view.php?id=27008	

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2. QUALITY ASSESSMENT RESULT – main results on deliverable 2.2.

Title of HEI		
Grodno State University	The number and names of Standard master-level programs with ECTS system' application, accredited in the Ministry of Education 1-31_81-04-2012-1	

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2. QUALITY ASSESSMENT RESULT – main results on deliverable 2.2.

Title of HEI		
Belarusian State Technological University (BSTU)	**The number and names of Standard master-level programs with ECTS system' application, accredited in the Ministry of Education** 1-48 80 04 – "Technology and processing of polymers and composites"	

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2. QUALITY ASSESSMENT RESULT – main results on deliverable 2.2.

Title of HEI		
Gomel State University (GoSU)	The number and names of Standard master-level programs with ECTS system' application, accredited in the Ministry of Education 1-31 80 05 Physics 1 year 1-31 80 05 Physics 2 year	

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2. QUALITY ASSESSMENT RESULT – main results on deliverable 2.2.

Title of HEI	Teaching/didactic materials in e-Library, virtual laboratory, instructions for on-line usage	Comments
Belarusian State University		
Grodno State University	Teaching materials: https://edu.grsu.by Training journal: Intranet: intra.grsu.by	
Belarusian State Technological University	Teaching materials: https://dl.bsu.by/mod/folder/view.php?id=30904 (study course “Functional nanomaterials”	
Gomel State University		

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3. RECOMMENDATIONS

3.1. To each HEI = partner in the Project it is strongly recommended to define full list of conformed and compatible/unified curricula that are planned to develop during this Project.

3.2. For each study course the partner should develop and submit full set of required teaching materials (lecture notes/synopsises, descriptions/manuals of laboratory works, courses books, etc.); teaching/didactic materials uploaded to e-Library; Virtual laboratory, on-line instructions, etc. according to the Requirements of the Deliverables 2.2.

3.3. Each HEI should carry out the necessary testing of the developed curricula. As it is stated in the Requirements of the Project the testing is strongly recommended to do the testing twice: in the first semester (2017 Autumn) and in the second semester (2018 Spring).

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3. RECOMMENDATIONS

3.4. It is strongly recommended to test the developed curricula with all main stakeholders of the project and submit the related reports about feed-back.

3.5. Some technical remarks and recommendations.

- It is recommended to involve more students in the curricula testing thus ensuring more objective clear picture and evidence of the results achieved.
- It is recommended to check and harmonize the titles and all other details of the developed study courses clearly defining for what level (Bachelor, Master) the course is developed so avoiding the discrepancy in submitted data about curricula.

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Thank you!

Faithfully yours, Tatjana

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My publications:

https://scholar.google.lv/citations?user=CxSn46cAAAAJ&hl=lv