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Project 561525-EPP-1-2015-1-LV-EPPKA2-CBHE-JP
**“Improvement of master-level education in the field of physical sciences
in Belarusian universities” (Physics)**

**Management Meeting 6 and Workshop 7 on curricula development,
acceptance and testing**
April 12-13th 2018

Belarusian State University, Minsk
Address: Babruiskaya str., 5, r. 330 (Physics Faculty)

Discussions and decisions

1. The start of the meeting

- **Welcome by BSU** - was provided by prof. A. Tolstik
- **Adoption of the agenda of the meeting** – Dr. A. Zabašta

Decision: to accept agenda of the meeting.

2. The topics of discussion:

- Reports on new developed courses, teaching materials and study programs and its accreditation in the universities.
- Reports on testing of the courses, teaching materials and study programs.
- Testing of new developed and modernized courses in Spring semester.
- Accreditation of the courses study programs.

A. Fedotov informed participants about development of study courses, teaching materials and study programs in BSU, as well as about their testing in 2017/2018 study year. In particular, it was pointed that 111 questionnaires' forms were treated and analyzed.

N. Strekal informed participants about development of study courses, teaching materials and study programs in Grodno SU, as well as about their testing in 2017/2018 study year.

D. Kovalenko informed participants about development of study courses, teaching materials and study programs in Gomel SU, as well as about their testing in 2017/2018 study year.

K. Vishnevski informed participants about development of study courses, teaching materials and study programs in BSTU, as well as about their testing in 2017/2018 study year.

D. Kovalenko informed participants that activity of the GSU group in the framework of the project was presented in the proceedings of the conference.

A. Žiravecka highlighted a necessity to submit Testing Report 2nd part related Spring semester.

Decision: to take this information into account.

3. Agenda correction

A. Zabašta: due to a necessity of a skype chart with Stella Hadjistassou, to consider now “Monitoring and evaluation by external expert” and “Results of the equipment purchase” items.

Decision: to accept the suggested changes in agenda of the meeting.

3. Monitoring and evaluation by external expert. Feedback on teachers training in RTU in February 2018.

A. Žiravecka presented the key points of the report prepared by the external expert (Professor Tatyana Vasilyeva, Vice Rector on Research of RISEBA, Riga, Latvia) in the March 2018. Recommendations given in this reports were highlighted.

Decision:

- *to take this information into account and reflect implementation of the recommendations in their Final reports.*

4. Results of the equipment purchase

Speakers (A. Fedotov, D. Kovalenko, K. Vishnevski, N. Strekal) informed participants about the current state of equipment purchase. Purchase procedure is practically completed. Equipment is testing in the current study year and will be tested in the 2018/2019 study year.

A. Zabašta highlighted the necessity to indicate in report, where the purchased equipment is installed and how it is used.

Decision: to take this information into account.

5. Dissemination and Exploitation of results. Dissemination & Exploitation plan (WP5). Implementation of curriculum.

S. Hadjistassou informed participants (via Skype) about activities in the field of dissemination and exploitation of the obtained results, the feedback, TV and radio broadcasts. In particular, it was pointed that the students participated in trainings need to provide a feedback via Internet. A low students' activity in social networks was noted.

As regard to feedback on the project outcomes, A. Fedotov informed participants about willingness of Professor E. Borisenko (BSUIR) to provide reviews of “Functional Nanomaterials” and “Photonics” books.

Related sustainability issues A. Fedotov provided information that since 01.02.2018 to 01.03.2018, within the framework of the PHYSICS project, the BSU conducted a survey of

experts on the quality of curriculum preparation, courses/laboratory study programs for testing in the 2017-2018 educational year. 9 highly-qualified experts were interviewed, according to the specialization profile of the curricula and programs

Decisions:

- *A.Zabašta suggested to create a special group in VK network.*
- *To accept the results of the experts' survey*

6. WP 2. Implementation of curriculum

Book on Guidelines on Master Thesis in Applied Physics (WP 2), final version

It was also pointed that preparation of “Guidelines on Master Thesis in Applied Physics” book is completed. *Decision: to take this information into account.*

Implementation of curriculum, Book on Applied Physics (WP 2), final version.

J. Peuteman informed participants that preparation of “Applied Physics” book is completed. The total volume exceeds 400 pages. CVs of contributors are requested.

Decision: to take this information into account.

Implementation of curriculum, Book on Functional Nanomaterials (WP 2), final version.

A. Fedotov informed participants that preparation of “Functional Nanomaterials” book is completed. Feedback from industry has been obtained, and 2 tables with results of analysis were prepared.

A. Zabašta suggested to upload this information on the Moodle platform.

Also it was pointed that Professor E. Borisenko suggested to organize a round table to discuss this e-book.

Decision: to take this information into account.

Implementation of curriculum, Book on Photonics (WP 2), final version.

D. Gorbach informed participants that preparation of “Photonics” book is fully completed in Russian and translation to English is close to finish.

Decision: to take this information into account.

Implementation of curriculum, Book on Applied Informatics (WP 2), final version.

A. Žiravecka informed participants that preparation of “Applied Informatics” book is completed.

Decision: to take this information into account.

7. Application of innovative teaching methods & electronic environments (WP3). Progress.

J. Peuteman informed participants about activity and obtained results in this field. A. Zabašta noted importance of this approach to teaching and proposed to use it as a basis of a possible future Erasmus project.

Decision: to take this information into account.

8. Feedback on students training in UCY and teacher training in RTU in February 2018

A feedback on students training in UCY in February 2018 was obtained and analyzed.

A. Žiravecka informed participants that feedback on teachers training in RTU in March 2018 was obtained and analyzed.

Decision: to take this information into account.

9. Project financial aspects and arrangements for the Final Financial and Technical reports.

A. Zabašta presented the financial forecast for October 2018. Deadline for financial and technical reports (01.11.2018) was indicated.

Some recommendations concerning technical report were highlighted. In particular, an importance of demonstration of results in Internet, explanation of role of associated partners, bilateral agreements, links with society, exploitation of results, etc. was highlighted.

Decision: to take this information into account.

10. Conclusions, next steps.

A. Zabašta noted that realization of project is carrying out without significant obstacles and requested participants to continue their activities according to the project time table.

Decisions:

To accept the Schedule of the meetings by the end of the project.

- *Minsk, BSTU, Final conference, September 12-13th 2018*
- *Nicosia, UCY, MC7 and WS10: Workshops for curricula development. Communication and sustainability of the project results. Quality assurance. September 26 - 27th 2018.*

Physics project Coordinator:

A. Zabašta