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**BOOSTING THE ROLE OF HEIs IN THE INDUSTRIAL TRANSFORMATION
TOWARDS THE INDUSTRY
4.0 PARADIGM IN GEORGIA AND UKRAINE
609939-EPP-1-2019-1-BE-EPPKA2-CBHE-JP**

Important results
Batumi



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Activities in the frame of the HEIn4 project

The project implementation period coincided with the accreditation of the Computer Science Bachelor and Master's educational programmes. We have considered the relevant courses in the programmes; the names of the courses were revised while working on the educational programmes which was accredited on 25 May 2021 for 7 year period.



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Study courses implemented in the frame of the BA and MA educational programmes of
Computer Science include:

- **Data Safety and Security (mandatory) (MA)**
 - **Intellectual Systems (mandatory) (MA)**
- **Computer Graphic and Visualization (elective) (BA)**



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By sharing the experience of partner institutions within the framework of the seminars conducted in the frame of the project, the administration of BSU, at the university level, approved the "**Program Elaboration, Evaluation and Development Methodology**", which is very valuable not only for the educational programs of the engineering direction, but also for the university in general for ensuring continuous assessment of curricula, identification of strengths and weaknesses, their continuous evaluation-development process for a wide range of stakeholders (academic society, students, graduates, employers, various organizations that need innovative approaches for their development).



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Based on the elaborated documentation the BA and MA Computer Science educational programmes were evaluated;

The developed rule also provides for the involvement of an external expert, we invited a professor of Tbilisi State University, an international expert, who evaluated the program.

Recommendations were related to literature, evaluation system, formation of learning outcomes, expansion of the field of employment, planning of activities to improve close contact with stakeholders.

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Changes in the syllabuses of the study courses were implemented before the commencement of the academic year

The staff is working on the update of the readers



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BSU held three round tables within the framework of the project: the first during the pandemic with the representatives of Axon and Coworking, and then face to face.

Two main directions were identified:

- Secondary schools need university support to implement innovative approaches in schools
- Prospects of cooperation with the economy sector



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1. Secondary schools need university support to implement innovative approaches in schools

The representatives of the educational sector pointed out the need for trainings for teachers so that they could familiarize themselves with and use various innovative educational resources. Lela Turmanidze, professor of BSU, Dean of the Faculty of Exact Sciences and Education worked with approximately 15 schools and introduced the teachers and the students to the famous innovative educational resource CK 12. The given resources enable the students to do virtual experiments, get familiarized with the interdisciplinary approaches, work on the projects, etc.; The project team plans to further continue working with educational institutions, that will enhance the interest towards innovations and technologies.



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2. Prospects of cooperation with the economy sector

- At the round table held with the economy sector, the need for new educational directions was highlighted, the module "Financial Technologies" will be built into the programme of Finance, Banking and Insurance.
- The program integrates courses in Computing including Artificial Intelligence and data analytics for financial data, secure high-assurance financial systems design and financial cryptography with Economics, Finance and Management courses including mathematical finance, banking, payment systems, portfolio management and management information systems



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2. Prospects of cooperation with the economy sector

- The demand for students of the bachelor's programme in Computer Science was highlighted, internships were offered; also the need on cooperation with the innovative laboratory in the context of the BSU staff training was identified.
- Within the framework of the project, we were given the opportunity to use the experience of our partners. The procedure for approving, evaluating and developing educational programmes was updated, where the mechanisms of relations with employers and other target audiences (round table, trainings, internships) were described in detail.
- Recommendations for the further development of the computer science programme were specifically made.



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Trainings conducted in the Innovative Lab
workshop by international organization "axon" - 21/10/2021
online seminar by Axon "Creating Software is More than Coding" - 3/3/2022
Course "Adobe Premiere Pro" (24 hours) - 20/05/2022 - 19/06/2022
Course "Opportunities to use innovative technologies" - 21/03/2023
Workshop "Innovation tools in Education" 15/04/2023
workshop in the intellectual games 23/03/2023
Course "Cyber resilience" 25/10/2023 - 27/10/2023



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What would we add:

- Innovative courses for the school students
- Innovative courses for the teachers
- Course in project management and searching for funds



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Thank you

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