



Strengthening Teaching Competences in Higher Education in Natural and Mathematical Sciences

Co-funded by the
Erasmus+ Programme
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Report on the WP1

Preparation for strengthening teaching competences in the field of
natural sciences and mathematics at the PC HEIs



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Project Objectives (Wider objective)

The main objective of TeComp project is:
Improvement of the quality of higher education in the field of natural and mathematical sciences at higher education institutions in Serbia and Albania in line with advance EU practices, thereby enhancing their comparability and competitiveness in Europe and beyond.



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This wider aim was planned to be achieved through completion of the set of specific objectives concerned with the areas where the measures should be applied:

1. to enhance professional competences and skills of teaching staff through training courses in contemporary pedagogical approaches, methodologies and educational technologies;
2. to upgrade educational infrastructure as a basis for wider integration of modern pedagogical principles and technologies in teaching and learning;
3. to deliver new/modified courses in psychology, pedagogy, methodology of teaching, and technology enhanced learning at the PC HEIs in line with the modern European strategies;
4. to strengthen personnel infrastructure through the introduction of continuous professional development in the system of higher education.

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According to the objectives, the project is expected to achieve the following results:

- Identifying and adopting measures and actions needed to improve the quality of teaching and learning processes;
- Improving educational infrastructure;
- Training of teaching staff on the use of pedagogical - methodological principles and new ways of teaching and learning;



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- ✓ **The purpose of WP1 (PREP) is to identify the necessary institutional measures, activities and documents for the successful implementation of new T&L modes.**
- ✓ The lectures and students of four Serbian universities (Nis, Belgrade, Novi Sad and Kragujevac) and two Albanian universities (Gjirokastra and Korca) have volunteered for its implementation.
- ✓ Two types of questionnaires were used as the data collection study tool: Questionnaire 1 "Survey for lecturers" and Questionnaire 2 "Survey for students".
- ✓ These questionnaires were designed by the project working group and agreed on their content and quality by CMT members.
- ✓ **The results of WP1 and the drafting of the work plan are based on the analysis of the data collected from the questionnaires and the comparison of these results with the practices of the universities of the European Community**



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Tasks for the realization of WP1

- 1.1 Quantitative analysis of teaching competences of young, newly hired university teachers at the PC HEIs;
- 1.2 Detailed analysis of the use of modern educational technologies in T&L at the PC HEIs;
- 1.3 Reviewing experiences in the use of PMT in T&L at the EU HEIs;
- 1.4 Performing a comparative analysis based on collected data;
- 1.5 Defining necessary measures and actions for the modernization of T&L



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TABLE OF ACHIEVED / PLANNED RESULTS for WP1

[TeComp annex c table of achieved planned results.pdf \(ni.ac.rs\)](#)



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For the drafting of the final report, the individual reports of the partner universities of the project were used in permanent coordination with the project coordinator prof. Jelena Ignjatovic.

The final drafting of the Summary Report and its presentation was carried out by Dr. Romeo Mano, Lecturer and project coordinator for "Eqrem Çabej" University of Gjirokastra, which is the university responsible for WP1, and Irma Gjollashi, member of the university's academic staff and head of the project office (IRO).

A special thanks and appreciation for his contribution goes with respect and humility to our former colleague and collaborator, Mr. Luiz Seiti.

The reaction to the report of the external audit Mr. Marjan Gusev, Skopje 30.06.2021, was realized in collaboration with prof. Sladjana Dimitrijevic, collaboration which enabled the inclusion in the final report of WP1 of the data analysis for the students of the universities of Serbia and Albania (December 2021).

Thanks for your attention!