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SMART PL

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SMART-PL



STUDENTS' PERSONALIZED LEARNING MODEL,
BASED ON THE VIRTUAL LEARNING
ENVIRONMENT OF INTELLECTUAL TUTORING
"LEARNING WITH NO LIMITS"

BACKGROUND

"TELL ME AND I FORGET,
TEACH ME AND I MAY REMEMBER,
INVOLVE ME AND I LEARN."

- BENJAMIN FRANKLIN

Modern education, both in the Ukrainian and all-European context, targets not students' instruction in specific subjects, but also formation of their professional expertise. Meanwhile, modern educational practices and some specific features of continuous professional education are characterized by a huge difference in students' basic knowledge, skills and competences. This generates a number of problems in students' training decreasing motivation of less competent students and giving birth to their anxiety. The following problems are left unsolved:

- *How to satisfy individual needs of each student?*
- *How to obtain the academic profile of students' strong and weak features?*
- *How to provide a group of students with varied knowledge levels with the required information at the right time?*
- *How to fully include people (not only students, but also teachers) with special educational needs and disabilities into the educational process?*
- *How should a university teacher support and challenge students at the same time?*

PROJECT OBJECTIVE



- Implement the European experience of student-centered learning, increase the role of students in ensuring the quality of higher education in Partner Countries, by introducing a model of personalized learning based on the virtual learning environment of Intellectual Tutoring "Learning with No Limits" and hybrid technologies.
- This model will provide students with an opportunity to develop their skills at their own pace, assess their own achievements, help them personalize and adjust their academic curricula, targets and content to their individual needs, facilitate their learning motivation and thanks to hybrid learning technologies to fully involve students and teachers with disabilities in the educational process.

SPECIFIC PROJECT OBJECTIVES

- *Enhance student's motivation to learning through applying the by-the-learner approach and create conditions to meet students' individual needs associated with differentiation and personalization of academic trajectories.*
- *Increase transparency and comprehensibility of education and assessment for students (including the results of non-formal education), reducing students' anxiety as for their own professional expertise and forming their confidence to achieve efficient results.*
- *Create extra opportunities to get a higher education for people with disabilities and specific academic needs through inclusive education and the implemented model of personalized learning and hybrid technologies.*
- *Improve educational programs of universities by updating the process of formation of competencies and the distribution of program results of student learning between educational components; to improve the quality of teaching materials.*
- *Facilitate students' mobility, including in virtual mode, on a university/country scale, inter-university/country levels, between academic sectors and forms of education (formal/informal/correspondence) by acknowledging and swapping grades/credits.*
- *Ensure a feedback on students', teachers' and administration's efficiency.*
- *Enhance interaction of all the interested parties including employers, the community and controlling bodies (the Ministry of Education and Science of Ukraine, the National Agency of Quality Assurance for Higher Education) to create a flexible mechanism of adapting academic results to market changes and modern technologies.*
- *Provide the labour market with highly-qualified specialists endowed with competences aligned with high standards of the EU quality and employers' current demands; create the continuous learning culture.*

VIRTUAL LEARNING ENVIRONMENT OF INTELLECTUAL TUTORING



The Testing and Learning Intelligent System SMART-PL will create students' individual profiles to monitor their strengths, needs, motivation and progress. Profiles will be accessible to university teachers for correction of each student's academic trajectories.

To achieve the required academic level based on assessment results, the SMART-PL will automatically generate a student's "personalized academic diagram" to enable obtaining academic results and assessment in the form of formed academic results, thus reflecting students' individual trajectories of development. The database of the information system will provide students with all necessary learning materials and auxiliary assignments to develop required competences. Students will also receive references to subject-specific on-line courses, course books, scientific publications in the electronic catalogue of the university library. Guided by these recommendations, studying auxiliary materials and accomplishing assignments, a student will be able to enhance his or her competences and academic results.

Special attention is paid to students with specific academic needs. It is expressed in arrangement of training considering personalized learning including the content and time management, specific methods and means, as well as support provided by highly-qualified specialists of various educational fields.

The SMART-PL platform will enable workplace-based training and skills of achieving lifelong success.

CO-WORKING CENTERS «LEARNING WITH NO LIMITS»



Within the framework of the project, co-working Centers «Learning with No Limits» will be created in Ukrainian universities. Their goals:

- provide methodological and consulting support for the implementation of the personalized learning model;*
- provide technical conditions for the use of SMART-PL by students and teachers;*
- provide equipment for recording educational videos, organizing video communication sessions, presentations conducting trainings in a hybrid mode.*

The centres will provide 1 computer workstation for visually impaired students. The project includes the purchase of a printer and a Braille monitor for each partner Ukrainian university. A model of personalized training and equipment will create additional conditions for the development of inclusive education at universities.

Co-working Centers «Learning with No Limits» (including hardware and software for hybrid learning and computers for students with special educational needs) will allow to include in the educational process students with specific academic needs - students combining their study and work, those bringing up children, people with specific individual needs and disabilities.

Co-working Centers «Learning with No Limits» using hybrid learning technology, will become a physical and virtual environment for student-teacher-employer cooperation that will supplement traditional classroom training. This will improve quality of higher education, provide future professionals with competences to monitor market demands and enhance dynamics of sustainable development of economy and society.

CONSORTIUM MEMBERS



- [Tallinn University of Technology](#)
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Associated partners:

- [Ukrainian Scientific IT Society](#)
- [Kyryvyi Rih Foundation of the Future](#)

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