PRINTeL
Newsletter N5

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Change in Classroom:

Promoting Innovative Teaching and Learning to Enhance Student Learning Experience in Eastern Partnership Countries

WP.2.3. Regular TT courses at TSDCs (Adoption of TT courses - 2019/2020 academic year)

WP.2.4. "Piloting Innovative T&L Methods in PC HEIs Curricula" (Subject courses with innovative T&L methods/elements delivered to students - 2019/2020 academic year)

WP.2.5. "Students Feedback Reports" (Development of students feedback reports to determine the level of students satisfaction on the new T&L practices using innovative technologies by the lecturer)

WP 3.6. "Operationalization of the VATL" (OERs with innovative and technology-enhanced T&L methods/elements - created and uploaded in the VAT portal)

Adoption of Teacher Training Courses

Various activities have been conducted in the framework of Erasmus+ Project PRINTeL WP.2 ("Capacity building of teaching staff") during 2019/2020 academic year

Numerous training courses were organized for the teaching staff within the **WP.2.3 ("Regular TT courses at TSDCs")** for the adoption and systematic usage of the TT courses in 3 partner countries' (Armenia, Georgia and Belorussia) 9 higher education institutions' TSDCs pursuing the aim of developing innovative and technology-enhanced teaching and learning skills as well as enhancing the ability to use innovative teaching technologies.

In total 1315 teachers have been trained within PC TSDC regular teacher training (TT) courses during 2019/2020 academic year within the project PRINTeL.

It should be noted that the trainings started face to face and then due to the Pandemic, they were provided online, via various online platforms, including Zoom, Google Meet and Moodle platforms, etc.

Piloting Innovative T&L Methods in PC HEIs Curricula

Trained trainers and teachers have been piloting acquired innovative and technology enhanced teaching and learning methods/elements in their regular classes within the **WP.2.4 ("Piloting Innovative T&L Methods in PC HEIs Curricula")**.

As a result

in total 152 subject courses with innovative T&L methods were delivered to 4813 students in Fall 2019 and Spring 2020.

Within **WP.2.5 ("Students Feedback Reports")** at each PC universities were collected and analyzed surveys related to the students feedbacks on the new teaching and learning practices in consequence of which were elaborated students feedback reports, as action plans for the TSDCs' staff, trainers and the teachers at respective departments as well as to develop appropriate recommendations for further improvement. The Students Feedback Reports have been done in the English and native languages of PC HEIs (Armenian, Georgian and Russian).

The online survey tools were used to determine the level of students satisfaction from different academic groups with the specific course, assess

ing the pedagogical teaching approaches, as well as the use of innovative technologies by the lecturer to support the teaching efficiency.

General objectives of the report included the following:

➡ to reveal the level of students' engagement in the courses;

➡ to identify the role of the teaching and learning methods applied by the lecturers in the matter of fostering students learning;

➡ to clarify students' participation in the courses, the issue of active engagement in the learning process fostered by the teaching staff;

➡ to reveal the frequency degree of teaching staff's active and innovative methods application in the teaching process, as well as students' level of satisfaction in regard to that issue;

➡ to find out students' satisfaction level in terms of communication efficiency with lecturers;

➡ to clarify the issue of students' acquisition of the skills in team work and collaboration as a result of the courses held by the trained lecturers;

➡ to figure out students' preferences in the matter of active and innovative methods usefulness from the perspective of course material acquisition;

➡ to clarify students' general attitude to the trained lecturers' teaching with active and innovative methods and approaches, as well as their willingness of the mentioned methods and approaches to be applied by other lecturers;

➡ to collect and aggregate students' suggestions relating to making the courses more efficient, active and interesting.

It should be noted that since February 2020, the world has faced the biggest challenge due to global spread of pandemic (COVID-19).
This challenge has affected all areas of human activity, including higher education system.
Switching to distance learning was not an easy process, especially for the countries with not having such experience.

The TT trainings within the frame of PRINTeL Project played an important role in this regard - based on the results of the assessment surveys from 9 PC HEIs, it can be assumed that the use of innovative technologies to support teaching efficiency and quality of trained lecturers has had a positive impact on the level of student satisfaction in general.

The main goal of the WP3 ("Creating Virtual Academy of T&L (VATL)") is to establish a virtual platform/network promoting and disseminating innovative technology-enhanced teaching and learning and the usage of Open Educational Resources (OERs). VATL will be a collection of open online T&L and teacher development services contributed and used by academic community.

In total 122 Open Educational Resources (OERs)

with innovative and technology-enhanced T&L methods/elements have been created and uploaded in the VAT portal

(www.vatl.ysu.am) open depository for the wider use by academic communities and students interested in innovative teaching and learning within WP 3.6 ("Operationalization of the VATL").

Among them are **104 OERs from partner countries' HEIs** and **18 OERs from European HEIs**

KU Leuven OERs

UB OERs

U.PORTO OERs

LiU OERs

FHJ OERs

Adoption of Teacher Training Courses at Yerevan State University

Since the first half of 2019/2020 academic year YSU lecturers started their active participation in the courses held within the framework of Erazmus + PRINTeL Project. The purpose of the teacher training courses is not only to develop the lecturers' professional skills but also to enhance their ability to use innovative teaching technologies. YSU lecturers who had been trained in the European partner Universities now share the experience and knowledge with their colleagues.

13 groups were formed and 171 lecturers completed the courses. Their feedbacks were satisfactory and many of them wanted to participate in other courses held within the framework of the project. They are also very encouraged to apply the gained knowledge in the near future.
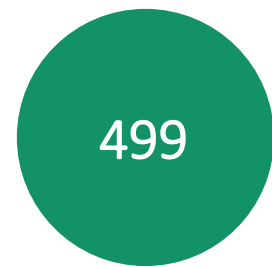
In the second half of 2019/2020 academic year not only YSU lecturers but also lecturers from other RA universities participated in the courses held within the framework of Erazmus + PRINTeL Project. 16 groups were formed and 328 lecturers completed the courses.

Taking into account the current situation, the courses were organized with the use of Zoom, Google Meet and Moodle platforms.

As is well known, it was decided to organize 2020/2021 academic year's educational process at YSU mainly through distance learning. In the framework of Erazmus + PRINTeL Project YSU lecturers who had been trained in the European partner universities also organized webinars for their colleagues.

In 2020/2021 academic year, in near future, besides these, there will also be organised courses and webinars, individual and group consultancies for all the lecturers who will need methodological support in the organisation of distance learning.

Total number of trained teachers within YSU TSDC regular teacher training (TT) courses ➡ **499**

YSU Subject courses with innovative T&L methods (elements) delivered to students in Fall 2019 and Spring 2020 - 29

Total number of students involved in the courses ➡ **971**

Students Survey Report by YSU_ARM

Students Survey Report by YSU_ENG

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YSU OERs - 14 OERs with innovative and technology-enhanced T&L methods/elements are created and uploaded in the VAT portal

Adoption of Teacher Training Courses at National Polytechnic University of Armenia   link 🔗

Since 2019 a course entitled "Innovative Teaching technologies", obligatory for all lecturers, has been implemented at the TSDC of NPUA. In the second semester of 2019, 12 lecturers took part in the first course. The training course was conducted by Kristina Khudaverdyan and Ella Hovhannisyan who were trained within the circles of PRINTeL project.Gevorg Margarov the head of the TACA Chair conducted the training, as well.

The course included such T&L areas as innovative approaches of teaching and learning, active learning, flipped classroom, blended learning and teaching, emoderating, learning management systems, online tools to support project based learning, video as a teaching and learning tool, advantages and disadvantages of the video usage. During the practical work the lecturers made videos on Creating videos based on presentations, combined with the reporter's video or audio.

On the PRINTeL website, developed by NPUA TSDC, a section called "Virtual Academy" was created, where all the materials prepared by the trained lecturers are published.

Total number of trained teachers within NPUA TSDC regular teacher training (TT) courses ➡ **137**

NPUA Subject courses with innovative T&L methods (elements) delivered to students in Fall 2019 and Spring 2020 - 17

Total number of students involved in the courses

Students Survey Report by NPUA_ARM

Students Survey Report by NPUA_ENG

➡️ 836

NPUA OERs – 13 OERs with innovative and technology-enhanced T&L methods/elements are created and uploaded in the VAT portal

Adoption of Teacher Training Courses at National Polytechnic University of Armenia   link 🔗

The course on "The Application of Modern Information Technologies in Teaching" was conducted at the initiative of VSU Lifelong Learning Center. The course consisted of the following modules:

- ➤ Hybrid/Blended Teaching & Learning (Trainers: Arina Danielyan; Vanane Mirzoyan)

- ➤ Video as a Learning Tool for Teachers & Students: Video Lecturing & Promoting Interaction in the Classroom (Trainer: Anna Khachatryan)

- ➤ Active Learning in the Flipped Classroom (Trainer: Anna Arakelyan)

- ➤ Active Learning with special focus on Technology Enhanced Collaborative Learning (Trainer: Kristine Ghazaryan)

- ➤ Active Learning & ICT-Enhanced Teaching: M-Learning and Gamification (Trainer: Maria Brutian)

Six VSU professors, who were trained within the scope of ERASMUS+ PRINTeL project, conducted the first phase of teacher training course for the 2019-2020 academic year since November 2019. 11 lecturers took part in that course.

The course aimed at promoting the development of professional qualifications, pedagogical skills of the participants by utilizing modern information technologies and methods in teaching. This training was also an exchange of experience, as six trained professors parallelly took part in it. The training was carried out with their own initiative. The professors were able to share with each other their acquired knowledge and skills, to discuss the most effective and less effective options due to specific limitations. Eleven participants successfully completed the course.

The second phase of teacher training for the 2019-2020 academic year was scheduled in spring. 30 lecturers applied for participation, 18 of which started in March. Unfortunately, the course is currently suspended due to the pandemic.

Total number of trained teachers within VSU TSDC regular teacher training (TT) course

VSU Subject courses with innovative T&L methods (elements) delivered to students in Fall 2019 and Spring 2020 - 9

11

Total number of students involved in the courses

Students Survey Report by VSU_ARM

Students Survey Report by VSU_ENG

372

VSU OERs – 7 OERs with innovative and technology-enhanced T&L methods/elements are created and uploaded in the VAT portal

Adoption of Teacher Training Courses at Ilia State University   link 🔗

In October-December, 2019, TSDC regular TT trainings carried out at Ilia State university within the PRINTeL project, aimed at retraining ISU teaching staff members.

The trainers employed at Academic and teaching staff development center, who were retrained in Katholieke Universiteit Leuven(October, 2019), have modified their courses on teaching and learning in innovative methods for ISU lecturers. They have shared their experience gained from the ToT courses and past trainings with their colleagues.

6 training courses were held in total in fall, 2019. More than 60 of Ilia State University teaching staff members have been trained.

The training courses were moderated by:

1. Levan Tsagareli – Professor – Active Learning in the flipped classroom

2. Elene Zhuravliova – Associated Professor - Hybrid/Blended Teaching and Learning

3. Aleksandre Ergeshidze – Associated Professor - Video as a Learning tool for teachers and students;

4. Archil Abashidze – Associated Professor - Hybrid/Blended Teaching and Learning

5. Tamar Magalashvili – Associated Professor - Active Learning and ICT enhanced teaching: M-learning and gamification

6. Giga Khositashvili – Invited Lecturer - Hybrid/Blended Teaching and Learning

Total number of trained teachers within ISU TSDC regular teacher training (TT) courses ➡ **53**

ISU Subject courses with innovative T&L methods (elements) delivered to students in Fall 2019 and Spring 2020 - 9

Total number of students involved in the courses ➡ **703**

Students Survey Report by ISU_GEO

Students Survey Report by ISU_ENG

ISU OERs – 6 OERs with innovative and technology-enhanced T&L methods/elements are created and uploaded in the VAT portal

Adoption of Teacher Training Courses at Georgian Technical University   link 🔗

Georgian Technical University is participating in EU funded Erasmus+ project PRINTeL - "Change in Classroom: Promoting Innovative Teaching & Learning to Enhance Student Learning Experience in Eastern Partnership Countries" (#585760-EPP-12017- 1-AM-EPPKA2-CBHE-JP), offering additional opportunities for the academic staff professional development.

It should be noted that in the framework of the PRINTeL project, 11 academic staff (selected through the competition held at Georgian Technical University two years ago) participated in 5-day Training of Trainers (TT) courses offered by PRINTeL project European partners and undertook appropriate trainings at European universities: Leuven Catholic University (Belgium), University of Barcelona (Spain), Porto University (Portugal), Linköping University (Sweden) and FH Joanneum Gesellschaft mbH (Austria).

Starting from the first half of 2019-2020 academic year GTU trained trainers started conduction of training courses related to innovative pedagogy in order to promote greater awareness on the types and methods of innovative and technology enhanced teaching and learning and to share the best practices gained within PRINTeL project at Georgian Technical University staff.

The total number of trained teachers as of spring 2019 was 385.

Training activities continued and during the spring semester of 2020 academic year trained trainers conducted TT courses promoting innovative teaching and learning that especially became of great importance during the Pandemic (COVID – 19 situation).

The trainings started face to face in February, 2020 then due to the Pandemic, the trainings were conducted via the Zoom Online Video Communications platform (May-June, 2020).

The total number of trained teachers as of spring-summer 2020 was 264. Hence starting from spring 2019, the total number of trained teachers is 649. Among them are some participants from another Georgian University (Caucasus International University) who are interested in the trainings related to innovative pedagogy.

The TT training courses within PRINTeL project at GTU have been conducted in partnership with GTU Innovations Center. It should be noted that mentioned training courses are in line with the courses offered by the project consortium partner European universities and the training courses are based on the experience and best practices of European universities' professional development training centers.

These TT courses were conducted in the Georgian language and included the topics such as: "Active Learning and ICT-Enhanced Teaching: M-learning and Gamification"; "Use of Modern Communication Technologies in Distance Learning"; "Method of Active Learning in the Flipped Classroom and Open Educational Resources (OER) in Innovative Pedagogy"; "Video - Using in Higher Educational Institutions"; "Hybrid/Blended Learning and Teaching Role in Pandemics"; "The Integration of the Modern Technology in the Active Learning"; "The Use of Video in the Classroom"; "Active Learning with special focus on Technology Enhanced Collaborative Learning"; "Video as a Learning Tool for Teachers and Students".

After the finish of training course, the participants filled and submitted the course evaluation forms. Based on such feedbacks were conducted TT course evaluation reports and surveys as well.

Due to the surveys most of the participants were agreed that they had got new skills on innovative technology-enhanced teaching and they recommended this course to others.

Herewith after the successful completion of the training, participants were awarded with appropriate Certificates (1 ECTS credit).

Total number of trained teachers within GTU TSDC regular teacher training (TT) courses ➡️ **264**

GTU Subject courses with innovative T&L methods (elements) delivered to students in Fall 2019 and Spring 2020 - 12

Total number of students involved in the courses ➡️ **199**

Students Survey Report by GTU_GEO (Part 1)

Students Survey Report by GTU_GEO (Part 2)

Students Survey Report by GTU_ENG (Part 1)

Students Survey Report by GTU_ENG (Part 2)

GTU OERs – 16 OERs with innovative and technology-enhanced T&L methods/elements are created and uploaded in the VAT portal

Adoption of Teacher Training Courses at Iakob Gogebashvili Telavi State University   link 🔗

Internal Teacher Training Course #1 "Video as a Tool for Teaching and Learning"

Trainers: Assoc. Prof. Shalva Tchkadua, Assist. Prof. Ana Gigauri

In the frameworks of Erasmus+ PRINTeL project, an online Teacher Training (TT) course "Video as a Tool for Teaching and Learning" was delivered by Shalva Tchkadua and Ana Gigauri. The training took place on 4 – 5 May, 2020. The training sessions lasted for two hours per day.

During the trainings 11 lecturers from Iakob Gogebashvili Telavi State University (TeSaU) were introduced to the pros and cons of using videos for teaching and learning purposes and tips for making high/good quality videos. Trainers also discussed the applications/sites that give us opportunity to create video/audio recordings.

The training was delivered through:

- Lectures and instructions
- Individual exercises
- Questions and answers
- Presentations

At the end of the training the trainees presented their own videos and expressed their opinion about how the acquired skills can be applied in their courses/lectures.

Internal Teacher Training Course #2 "Blended/hybrid learning Eportfolio"

Trainer: Assoc. Prof. Tamar Mikeladze

The training session took place on May 11, 2020. The title of the course was Blended/Hybrid learning. After the lockdown because of the global pandemic of Covid-19, the studies took place online forcing academic staff to transfer the courses in a virtual dimension and adjust the content accordingly. The training course was aimed to meet the current needs of the teachers. Thus, the course was designed to introduce the concept that could be helpful in online teaching: the concept of hybrid learning and E- portfolio. The trainer decided to conduct one day training as it was in virtual format. 11 people attended the training sessions: 6 invited teachers, 4 associate professors, and 3 professors.

The course included the following topics: - Blended learning, e-portfolio (using Google sites);

The training "Blended/hybrid learning-E-portfolio" was successfully conducted at TESAU and the participants' highly positive evaluation substantiated the benefits that the training yielded. The teachers expressed their readiness and willingness to implement a new approach in their teaching.

Internal Teacher Training Course #3 "Active Learning in the Flipped Classroom"

Trainer: Prof. Ia Jimshitashvili

In the frameworks of Erasmus+ PRINTeL project, a Teacher Training (TT) course "Active Learning in the Flipped Classroom" was delivered by Ia Jimshitashvili at Iakob Gogebashvili Telavi State University (TeSaU). It took place 7, 8 May, 2020. The training lasted for two days (2 hours per day).

During the trainings 12 lecturers from different Faculties of the University were introduced Active learning Concept, the Flipped Classroom Approach and how to make Video and Audio Material for Power Point slides; also, how to convert a traditional lecture to a recorded lecture. Trainers also discussed the how to plan group-based problem-solving lectures.

The training was delivered on-line through:

- Lectures and instructions
- Individual exercises
- Questions and answers
- Presentations

Besides the individual assignments, at the end of the training the trainees expressed their opinion about how the acquired skills can be applied in their courses/lectures.

Internal Teacher Training Course # 4 "Active Learning: Technology Enhanced Collaborative Learning"

Trainer: Assist. Prof. Nino Dzamukashvili (TESAU, Faculty of Humanities, Depart. Of Foreign Languages and Literature)

"Active learning: Technolgy Enhanced Collaborative Learning", 2-day-training course has been recently (May 13 and 14, 2020) attended by 9 lecturers from different departments of 4 faculties (Faculty of Humanities, Faculty of Educational Sciences, Faculty of Exact and Natural Sciences, Faculty of Social Sciences, Business and Law) at Iakob Gogebashvili Telavi State University. The trainer was Ms. Nino Dzamukashvili who attended the training session with the same title in Leuven, Belgium at KU Leuven in November 2018.

The trainees were introduced to the innovative methodology of active learning, both on theoretical and practical levels. They were encouraged to apply TPACK, ADDIE and SMART models to practice while re-designing and re-thinking their existing courses. The participants were divided into three groups for training tasks thus illustrating the model of collaborative learning themselves.

Proceeding from the current circumstances of pandemic Covid-19, the training was conducted on-line. Nevertheless, the participants became familiar with a number of types of group work, Jigsaw, Think-pair-Share, to name a few. The trainees especially liked Mentimeter, the online tool that was tested on the spot. They saw the multiple usage possibilities of the innovative tool in their practice. All along the training course, the trainees weighed the pros and cons of technology enhanced collaborative learning with special consideration to the fact that Innovative Pedagogy enhanced modern technologies turned out to be the most necessary and irreplaceable tool and methodology at the time of pandemic.

At the end of the TT course, all the participants presented their curricula, redesigned and modified with the newly acquired knowledge of active learning methodology and activities.

Total number of trained teachers within TeSaU TSDC regular teacher training (TT) courses

TeSaU Subject courses with innovative T&L methods (elements) delivered to students in Fall 2019 and Spring 2020 - 6

44

Total number of students involved in the courses

Students Survey Report by TeSaU_GEO

Students Survey Report by TeSaU_ENG

44

TeSaU OERs – 6 OERs with innovative and technology-enhanced T&L methods/elements are created and uploaded in the VAT portal

Materials have been prepared and published in press and on the websites of the Faculty of Advanced Training and Retraining and the Faculty of Journalism to disseminate the information about the introduction of active learning technologies in the educational process and to highlight the process of implementing the continuing education program.

Three articles have been prepared.

- "Yak zmyanyetsetsa adukatsyayna asyaroddze va universitetse" [How is the educational environment at the University changing?] (newspaper "University". - No. 9 (2215) from 21 June, 2019).
- "Classical education + generation Z: new technologies in training" – online publication of the Ministry of information mediana.by (http://mediana.by/rubriki/ucheba/927-klassicheskoe-obrazovanie-pokolenie-znovye-tekhnologii-v-obuchenii.html)
- "Novya technalogii mianiaut adykatsiu" [New technologies are changing education] (newspaper "Nastaunickaja", 30 November, 2019).

The results of the program were covered regularly in social networks and on the website of the Faculty of Advanced Training and Retraining.

"The international project PRINTeL at BSU" presents the goal and the results of the project. The article presents the modules of the advanced training program for teachers of Belarusian State University, describes modern teaching methods and means used, as well as reflects the results of mastering the program by students – projects of academic programs redesign with the help of innovative educational technologies.

Each program module was accompanied by the publication of materials on the site. Publications on the implementation of the program "Innovative technologies of active learning" for BSU employees included descriptions of classes on such topics as the use of pedagogical design technologies, active learning, creation of educational videos, use of gamification technologies in the educational process, inverted and mixed learning, and others.

Natalia Mantsurova and Elena Karpievich presented the experience of BSU in the field of innovation development in teaching and learning (within the framework of the Erasmus+ PRINTeL project) during the National online seminar "Improving the quality and practice orientation of higher education: from the experience of Erasmus+ projects" (June 11, 2020). The following main results have been mentioned: the improvement of the material and technical base, and conduction of the advanced training programs "Innovative technologies of active learning", "Use of LMS Moodle in the educational process".

Total number of trained teachers within BSU TSDC regular teacher training (TT) courses   ➡   182

BSU Subject courses with innovative T&L methods (elements) delivered to students in Fall 2019 and Spring 2020 - 20

Total number of students involved in the courses

479

[BSU OERs](#) – 8 OERs with innovative and technology-enhanced T&L methods/elements are created and uploaded in the VAT portal

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Adoption of Teacher Training Regular Courses at Brest State Technical University   link 🔗

Teacher Training (TT) Course: "Developing Open Educational Resources"

On November 18, 2019, a Teacher Training (TT) Course entitled "Developing Open Educational Resources" was held at the Brest State Technical University. The Teacher Training (TT) Course was aimed at disseminating the knowledge and skills gained by the teachers of the BrSTU (Chetyrbock N., Hranik I., Prarouski A.) during courses on the development of open educational resources at the Catholic University of Leuven (Belgium). The course analyzed the problems of introducing open educational resources into the practice of the BrSTU and proposed measures to revitalize activities in this direction.

Topics:

- Define the course or program wherein to integrate OER
- Given the educational goals of the course/program, define the operational goals for using OER. Keep it simple when choosing tools to realize operational goals and select affordable learning objectives.
- Keep the logical structure of the course:
    - define the learning goals
    - collect the learning content and teaching methods
    - include a self-check for the student's understanding
    - from the very early start, prepare the final assessment of the course
- Take due account of the didactic value and methodical characteristics of the materials that you use.
- Copyright is legal right that protects the use of your work once your idea has been physically expressed

Copyright law lays out a framework of rules around how that work can be used. It sets out the rights of the owner, as well as the responsibilities of other people who want to use the work. You can do many things with your copyright work including for example copy, change or sell it, share it online or rent it to someone as well as prevent other people from doing those things

Topics for individual work:

The Power of Open Educational Resources

- Improved access to textbooks

- Improved quality of student learning and learning materials

- Improved teacher professional practice

- Improved access to to resources in local languages but also world wide

- Cost savings for learning

- Support for lifelong learning

- Cultural diversity

Teacher Training Course: "Innovative Methods of Education"

From 23 December till 28 December Brest State Technical University held integrated courses "Innovative Methods of Education" on the basis of the "Teaching Staff Development Center" and IDPR BrSTU.

PRINTeL project trainers resented the following topics:

- Video as a learning tool in the modern world;

- Active and ICT based learning: M-learning and gamification

- Hybrid / blended teaching and learning

- Active and ICT based learning: M-learning and gamification;

- The use of active learning in computer science

The courses (leading trainers Chetyrbock N.P., Hranik I.M., Prarouski A.G., Kachurko P.A., Golovko V.A., Lisovskaya T.V.) have aimed to improve the qualifications of the academic staff of BrSTU. The purpose of teaching education course "Innovative Methods in Education" is to improve the professional qualifications of teachers, increase the teaching support staff and specialists in the field of educational activities. As part of the continuing education training course reflected the methodology of e-education; of making video lectures and their use in the educational process; the skills and rules of using the MOODL platform and the VATL platform; the skills of hybrid / blended teaching and learning; active and ICT based learning: M-learning and gamification.

During the courses took part about 30 people. The experience of European universities about introduction of modern educational technologies was presented. Main goal of TOT courses was proposed to introduce European experience into the practice of BrSTU.

The application of the acquired knowledge of teachers will improve the quality of teaching disciplines and bring the educational process to a new, more higher level.

Teacher Training (TT) Course: "Developing Open Educational Resources"

On January 13, 2020, a Teacher Training (TT) Course entitled "Developing Open Educational Resources" was held at the Brest State Technical University. The Teacher Training (TT) Course was aimed at disseminating the knowledge and skills gained by the teachers of the BrSTU (Chetyrbock N., Prarouski A., LisouskayaT.,Charnavokaya A.). The course analyzed the problems of introducing open educational resources into the practice of the BrSTU and proposed measures to revitalize activities in this direction.

NatalliaChetyrbock presented her course: "Hybrid / blended teaching and learning". In this course, she talked about the skills of using the educational platform VATL, MOODLE, on the importance of using e-portfolio in the educational process.

Next one, Prarouski Andrei introduced the topic «Active and ICT based learning: M-learning and gamification». He also presented a lecture on the use of open educational resources based on knowledge gained at the University of Leuven. TatsianaLisouskaya presented the topic "Active and ICT based learning: M-learning and gamification". She said that to use of a game element during classes greatly increases the effectiveness of training. Alena Charnavokaya presented a lecture "Active Learning in the Flipped Classroom".

Teacher Training Course: "Organization and management of the educational process in the higher education system"

From 17 till 28 February Brest State Technical University held integrated courses "Organization and management of the educational process in the higher education system" on the basis of the "Teaching Staff Development Center" and IDPR BrSTU. PRINTeL project trainers resented the following topics:

- ► Video as a learning tool in the modern world;

- ► Active and ICT based learning: M-learning and gamification

- ► Hybrid / blended teaching and learning

- ► The use of Open Educational Recourses,

- ► Active Learning in the Flipped Classroom

The courses (leading trainers Shalabyta N.N., Chetyrbock N.P., Hranik I.M., Prarouski A.G., Lisovskaya T.V., Charnavokaya A.V.) have aimed to improve the qualifications of the academic staff of BrSTU . The purpose of teaching education course "Organization and management of the educational process in the higher education system" is to improve the professional qualifications of teachers, increase the teaching support staff and specialists in the field of educational activities. As part of the continuing education training course reflected the methodology of e-education; of making video lectures and their use in the educational process; the skills and rules of using the MOODLE platform and the VATL platform; the skills of hybrid / blended teaching and learning; active and ICT based learning: M-learning and gamification, Active Learning in the Flipped Classroom.

During the courses took part about 8 people. The experience of European universities about introduction of modern educational technologies was presented. Main goal of TOT courses was proposed to introduce European experience into the practice of BrSTU.

The application of the acquired knowledge of teachers will improve the quality of teaching disciplines and bring the educational process to a new, more higher level.

Total number of trained teachers within BrSTU TSDC regular teacher training (TT) courses ➡ **62**

BrSTU Subject courses with innovative T&L methods (elements) delivered to students in Fall 2019 and Spring 2020 - 35

Total number of students involved in the courses ➡ **838**

Students Survey Report by BrSTU_RUS

Students Survey Report by BrSTU_ENG

BrSTU OERs - 28 OERs with innovative and technology-enhanced T&L methods/elements are created and uploaded in the VAT portal

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Adoption of Teacher Training Courses at Yanka Kupala State University of Grodno   **link** 🔗

"University of Educational Innovations" is a general title for the training courses held for the YKSUG staff from September to December 2019. The course participants were taught the main tools of project activities, as well as the use of some innovative educational technologies during the classes.

The training was organized in several modules. The first one, called "Project Approach in Teaching Disciplines" was aimed at presenting to the participants the methodology of project idea generating, some requirements for project results designing and project management bases etc.

The second module got the participants acquainted with the new educational technologies, such as active learning, gamefication, video-lecturing implemented at YKSUG since the launching of PRINTeL project.

The third module was devoted to the "Mind-map technology for the developing of students educational projects". The moderators presented their author's methodology for organizing student project activities, as well as electronic resources that allow creating one's own mind-maps.

During the final courses event the participants were given certificates by Gennady Gachko, Vice-rector for academic affairs and Marina Kolotsey, Head of the Academic Affairs Department.

Total number of trained teachers within YKSUG TSDC regular teacher training (TT) courses ➡ **63**

YKSUG Subject courses with innovative T&L methods (elements) delivered to students in Fall 2019 and Spring 2020 - 15

Total number of students involved in the courses ➡ **306**

Students Survey Report by YKSUG_RUS

Students Survey Report by YKSUG_ENG

YKSUG OERs – 6 OERs with innovative and technology-enhanced T&L methods/elements are created and uploaded in the VAT portal

Three-day Online TOT Courses

It should be noted that taking into account PRINTeL project budget extra financial means, to spend these means targeted and on ensuring the project continuity, it was suggested to conduct 5 online ToT courses by EU partner HEIs. The situation is thoroughly different conditioned by Covid-19; thus, the strategy should be altered in accordance with new challenges. The training was addressed the task to formulate an ability to apply the already obtained knowledge in online format.

Therefore additional 5 online ToT courses have been provided during 01-25 February, 2021 by European partner HEIs.

In total 105 (21 trainees per group) trainees have been trained during the three-day online ToT courses by innovative teaching and learning methods.

Participants were selected from tranees of the EU TOT and in-house TT courses.

The participants number per partner countries' HEIs was distributed as follows: 16 - YSU, ISU, BSU; 12 - NPUA, GTU, BrSTU and 7 - VSU, TeSaU, YKSUG.

The following online ToT courses have been provided to the participants:

- ➡ Active Learning with Special Focus on Technology Enhanced Collaborative Learning" by **KU Leuven**
- ➡ Designing Meaningful Online Learning by **LiU**
- ➡ Online Teaching Revisited by **FHJ**
- ➡ Online Active Teaching & Learning: Experiences with Technology by **UB**
- ➡ Video as a Learning Tool for Remote Emergency Teachers by **U.Porto**

Online ToT Course of Katholieke Universiteit Leuven (KU Leuven)

In the frameworks of Erasmus+ PRINTeL project a three-day ToT course entitled **"Active Learning with Special Focus on Technology Enhanced Collaborative Learning"** was held on the 15th, 16th and 18th of February, 2021 by the teaching staff of KU Leuven. The courses were held in the online medium in conformity with accepted regulations regarding the Covid-19 pandemic situation.

The ToT course delivered by the teaching staff of KU Leuven was aimed at upgrading and reinforcing the participants' knowledge and understanding of learners' and   teachers' digital competences required for successful use of electronically supported teaching and learning, skills in preparing a course program in their domain of science and teaching experience, as well as awareness of appropriate assessment techniques for digital teaching and learning.

Detailed information about the ToT courses, including learning materials, programme/syllabus and Feedback Survey, see here

Online ToT Course of Linköping University (LiU)

In the frameworks of Erasmus+ PRINTeL project a three-day ToT course entitled **"Active Learning in the Flipped Classroom"** was conducted by the teaching staff of Linköping University on the 10th, 19th and 25th of February, 2021. The online courses were held in the online medium in conformity with accepted regulations regarding the Covid-19 pandemic situation.

The ToT course held by the teaching staff of LiU was aimed at upgrading and reinforcing the participants' knowledge in implementing the concepts of cognitive, social and emotional types of students' engagement/presence in the process of learning.

Detailed information about the ToT courses, including learning materials, programme/syllabus and Feedback Survey, see here

Online ToT Course of FH Joanneum Gesellschaft mbH

In the frameworks of Erasmus+ PRINTeL project a three-day ToT course entitled **"Hybrid/Blended Teaching & Learning"** was conducted by the teaching staff of FH Joanneum University of Applied Sciences (FHJ) on the 10th, 11th and 12nd of February, 2021. The online courses were held in the online medium in conformity with accepted regulations regarding the Covid-19 pandemic situation.

The ToT course held at FHJ was aimed at upgrading and reinforcing the participants' knowledge in designing effective online activities for their teaching practice and applying various methods of online learning in their courses, as well as application of teaching practices in remote project based learning courses and motivating and supporting students by adopting and practicing new strategies for efficient online learning.

Detailed information about the ToT courses, including learning materials, programme/syllabus and Feedback Survey, see here

In the frameworks of Erasmus+ PRINTeL project a three-day ToT course entitled "Active Learning & ICT-Enhanced Teaching: M-learning & Gamification" was conducted by the teaching staff of the University of Barcelona on the 9th, 16th and 23rd of February, 2021. The online courses were held in the online medium in conformity with the accepted regulations regarding the Covid-19 pandemic situation.

The ToT course delivered by the teaching staff of UB was aimed at upgrading and reinforcing the participants' knowledge in the implementation of m-learning & gamification in an online format, designing tasks with different mobile apps for active learning, desisgning digital breakout using gamification elements, as well as discussion on the specificities of elaboration of active learning format and sharing online teaching experiences during the current period of confinement.

Detailed information about the ToT courses, including learning materials, programme/syllabus and Feedback Survey, see here

In the frameworks of Erasmus+ PRINTeL project a three-day ToT course entitled "Video as a Learning Tool for Teachers & Students: Video Lecturing & Promoting Interaction in the Classroom" was conducted on the 1st, 9th and 15th of February, 2021 by the teaching staff of U.PORTO. The course was held in an online medium in conformity with the accepted regulations regarding the Covid-19 pandemic situation.

The ToT course delivered by the teaching staff of U.PORTO was aimed at upgrading and reinforcing the participants' knowledge in using the video within educational contexts in a very particular situation: the pandemic scenario, as well as discussion of the topics of the effective use of video in Higher Education, its advantages and the main problems arisen as a result of the current pandemic situation.

Detailed information about the ToT courses, including learning materials, programme/syllabus and Feedback Survey, see here

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