

BREST STATE TECHNICAL UNIVERSITY

Achievements and Follow-up of the participating HEIs in innovative T&L within PRINTeL project: Perspectives from Belarus

Maria Tsukanava: Brest State Technical University, Senior Lecturer, Associate professor,
Department of World economy, marketing, investment.

Number of teachers trained in innovative teaching methods in foreign universities	10 teachers
Number of teachers trained online in online teaching methods	12 teachers
Established TSDC to develop innovative teaching methods	05.09.2019 №84
Developed, approved and implemented the policy of stimulating the implementation of innovative teaching methods	12.03.2021 №17
Modernized courses and disciplines taught at BrSTU	40
Total number of students involved in application of new T&L innovative methods	838 (13% of all BrSTU students)
Total number of teachers delivered courses with application of new T&L innovative methods	31
Equipped classrooms for the implementation of innovative teaching methods	3
Conducted master classes on the use of skills in innovative teaching methods	2
Registered on the VATL portal of BrSTU teachers	21
Representatives of the faculties of BrSTU involved in the project	6 (100% faculty coverage)
Courses placed on the VATL portal	28
Conducted TT training courses at BrSTU on innovative teaching methods	26
Trained within the framework of courses organized inside BrSTU TT	150



Working group created Operational Plan for 2019-2021 for TEACHING STAFF DEVELOPMENT CENTRE'S (TSDC)

In 2019 was created TSDC BrSTU which included leading specialists in teaching methods of BrSTU and teachers trained at European universities

10 trainers were selected for training in 5 leading European universities in the direction of innovative teaching methods.



In Autumn 2019 ten teachers from BrSTU visited 5 European universities and learned innovative teaching methods.





Adoption of TT courses at TSDCs BrSTU and Piloting innovative T&L methods in PC

From February to May 10 courses took place in BrSTU.

During the TOT courses 133 teachers and a specialist in education taught in new teaching methods.

This is more than 30% was planned to take participants (of potential).

This indicates mean a high interest and high activity in the field of improvement of skills and qualifications of BrSTU teaching staff.

Adoption of TT courses at TSDCs

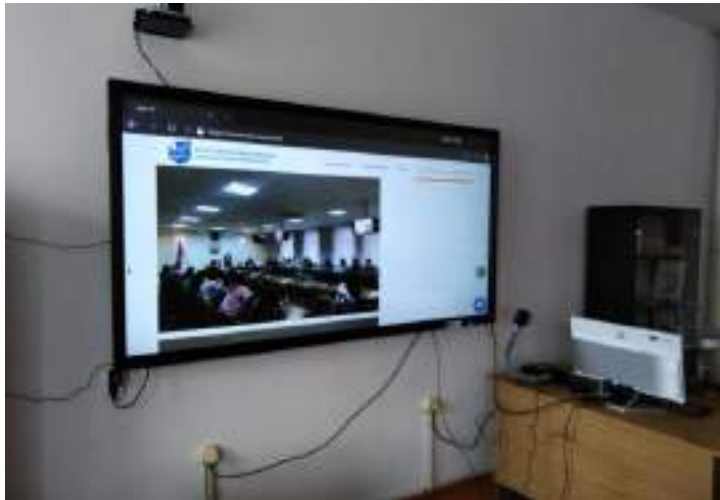
Four advanced training courses were organized and conducted at BrSTU . Trainers trained abroad presented their courses.

More than 50 people have been trained.



The equipment for 2 classes of active learning and 1 video studio for recording video lectures for BrSTU was purchased by the project PRINTeL financing and supplied by the leading partner.

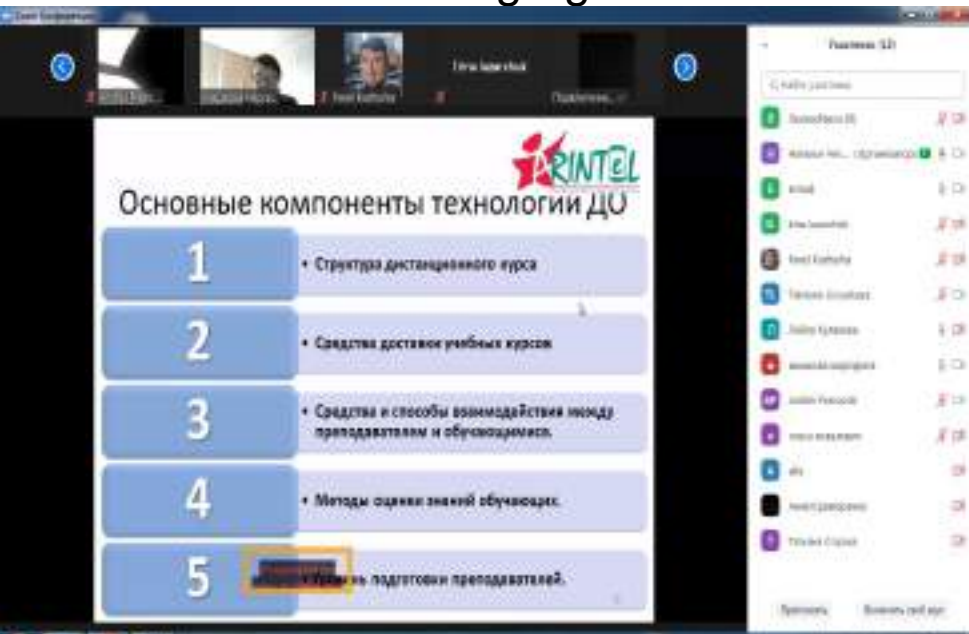
Technical equipment for three classrooms changed the level of teaching and the innovative component of education at BrSTU. It has become significantly higher.



12 BrSTU teachers were trained online at 5 foreign universities. The purpose of this Teacher-of-the-Trainer (TT) course is to provide learners with knowledge of basic online learning concepts and traditional classroom methods. It is very actual during the pandemic.

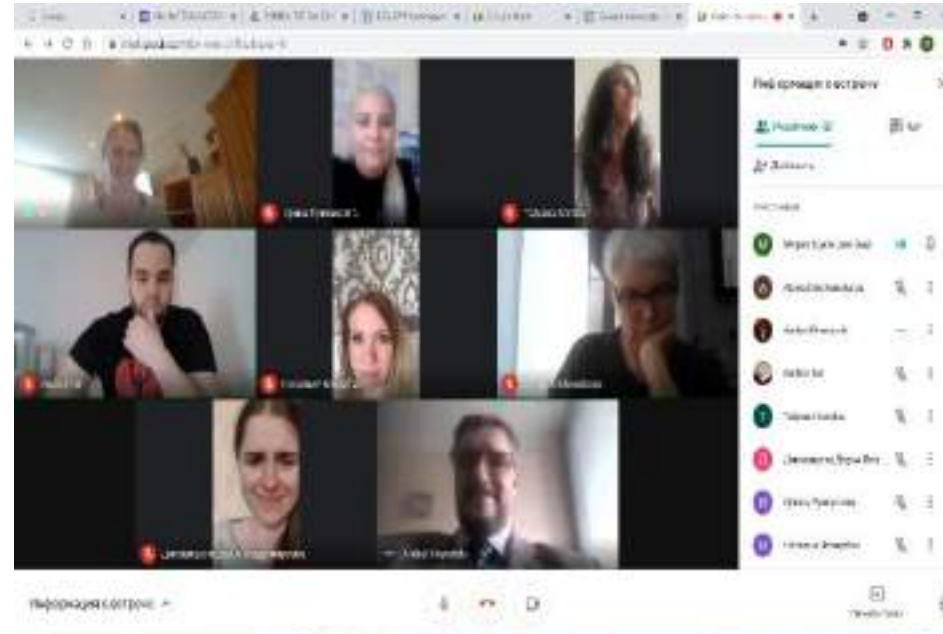


Then they developed and implemented their own courses based on the knowledge gained.



Основные компоненты технологии ДУ

- 1 Структура дистанционного курса
- 2 Средства доставки учебных курсов
- 3 Средства и способы взаимодействия между преподавателем и обучающимся.
- 4 Методы оценки знаний обучающихся.
- 5 Методы оценки подготовки преподавателей.





Co-funded by the
Erasmus+ Programme
of the European Union



Piloting innovative T&L methods in PC HEIs curricula

31 teachers from Brest State Technical University during the project PRINTeL have implemented innovative teaching methods in their activities. More than 30 courses have been adapted to the active use of innovative methods. Teachers have introduced innovative methods such as:

- Online discussion seminars;
- Group discussions, brainstorming;
- Group discussions, brainstorming using mobile phones;
- Individual projects;
- Group projects;
- ZOOM;
- Google class;
- Google meet;
- Moodle;
- Gamification.





Co-funded by the
Erasmus+ Programme
of the European Union



Publications about the PRINTel project:

1. "Towards higher education - an innovative approach" Elena Sokolovskaya, Zarya newspaper September 28, 2018
2. "Development of distance learning in Belarus through the introduction of innovative educational technologies (on the example of the PRINTel project" Change in the educational environment: promoting innovative teaching and learning to improve the educational activities of students in the Eastern Partnership countries ") Natalia Chetyrbok, Andrey Prorovsky collection of scientific works "Improvement of investment and construction processes in the markets of Central and Eastern Europe", 2018
3. "Innovations in higher education" Olga Ipatova, senior lecturer of the Department of Humanities, BrSTU, newspaper Zarya January 16, 2019
4. "What new learning models are in demand today in universities?" site Virtual Brest Olga Ipatova, senior lecturer of the Department of Humanities, BrSTU 01/21/2019
5. <https://printel.am/uploads/page/pdfs/PRINTeL%20e-Newsletter-1.pdf>
6. Tools for improving the quality of continuous professional development of university teachers "A.S. Badagyan, V.A. Khaletskiy, N.P. Yalovaya "Actual problems of chemical education in secondary and higher schools", 2018
7. Ryzhuk K., Maltseva D. Popularization of educational services on the example of BrSTU through the introduction of innovative teaching methods / K. B. Ryzhuk, D. I. Maltseva // Collection of abstracts of the scientific student conference "Week of Science" - 2019. - Brest: Publishing house BrSTU, 2019 .-- 98-99 p.
8. N. P. Chetyrbok / Analysis of the system of higher education in the Republic of Belarus and the development of ways to popularize educational services using WEB-technologies // N. P. Chetyrbok // "Education in the 21st century" / International scientific and methodological peer-reviewed journal. - Yerevan, 2019. - No. 1. - p. 221 - 229.



Co-funded by the
Erasmus+ Programme
of the European Union



1. **Virtual Academy for Teaching and Learning (VATL) Portal** is a virtual platform for creating, using, promoting & disseminating innovative technology-enhanced T&L and the usage of Open Educational Resources (OERs).

2. **The equipment for 2 classes of active learning and 1 video studio** for recording video lectures for BrSTU will use in feature.

3. **TEACHING STAFF DEVELOPMENT CENTRE'S (TSDC)**

4. **The policy of stimulating the implementation of innovative teaching methods at Educational institution "Brest State Technical University"**

For activation of the process of creating innovative courses and the use of innovative pedagogical technologies at the Brest State Technical University there was adopted the Regulation on the **competition "The best innovative course of BrSTU"**.

The objectives of the competition are:

1. improving the quality of the educational process, teaching and methodological work;
2. dissemination of advanced pedagogical experience in the application of innovative teaching methods;
3. creation of a virtual discussion platform for the dissemination, exchange of experience and popularization of innovative pedagogical technologies among the teaching staff of BrSTU;
4. stimulation of increasing the level of pedagogical skills of teachers and the development of the innovative potential of the personality of BrSTU teachers;
5. increasing the social status and professionalism of teachers, strengthening their public support.



The committee, having considered the submitted materials and after hearing the presentations of the teachers of innovative courses in the classroom for active learning 5/217, determined the following winners: In nomination



«Best innovative course in technical disciplines» –
Ellina Tur with course “Animal raw material
processing technology”;

“Best innovative course in IT disciplines” -
Svatlana Matiukh with course “Engineering
computer graphics”;

“Best innovative course in economic disciplines” -
Elena Hutova with course “Merchandising”

“Best innovative course in social and
humanitarian disciplines” - Olga Ipatova with
course “Commercial law”





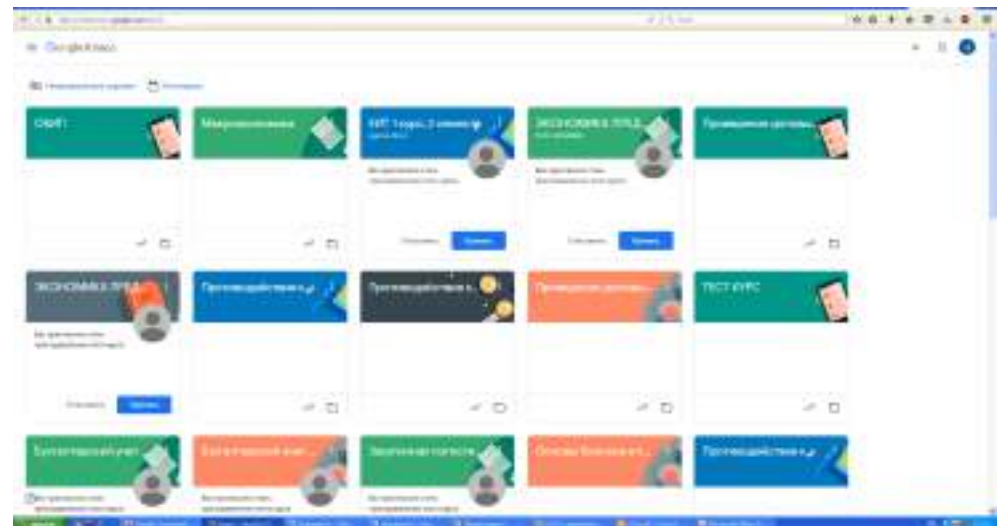
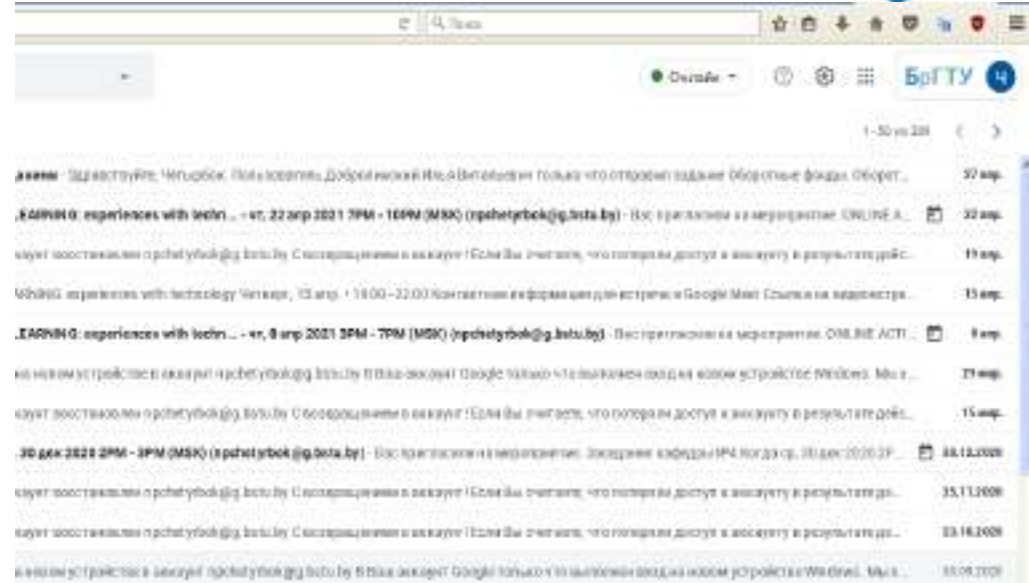
The distance learning system at BrSTU is based on Google classroom and MOODLE technologies.

All students have access to the e-learning environment.

Mandatory corporate registration of teachers and students on the Google classroom platform involves the creation of a personal corporate account. The registration of the corporate account of students and teachers is handled by technical staff.



Co-funded by the Erasmus+ Programme of the European Union

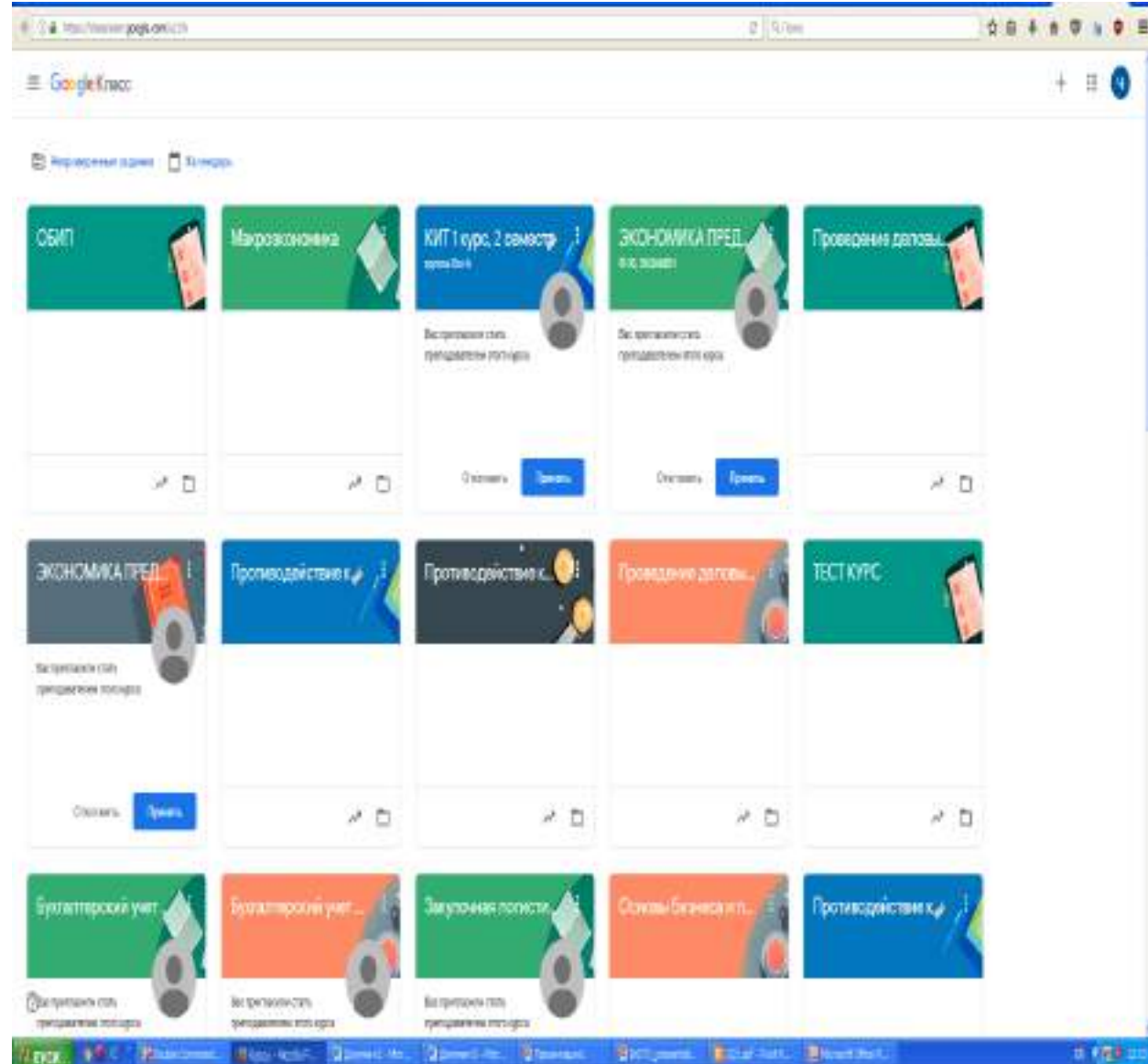


The instructor creates a folder with the course.

He then resets the course access code to the students.

The ability of Google classroom is sufficient for on-line learning, in particular, on this platform, the teacher places a course of lectures, conducts practical classes, conducts exams.

The educational part has access to the courses and can join at any time for testing.



Untitled form (Ответа) Созрание на Диска

Файл Правка Вид Вставка Формат Данные Инструменты Форма Эта версия

100% По умолчанию 10

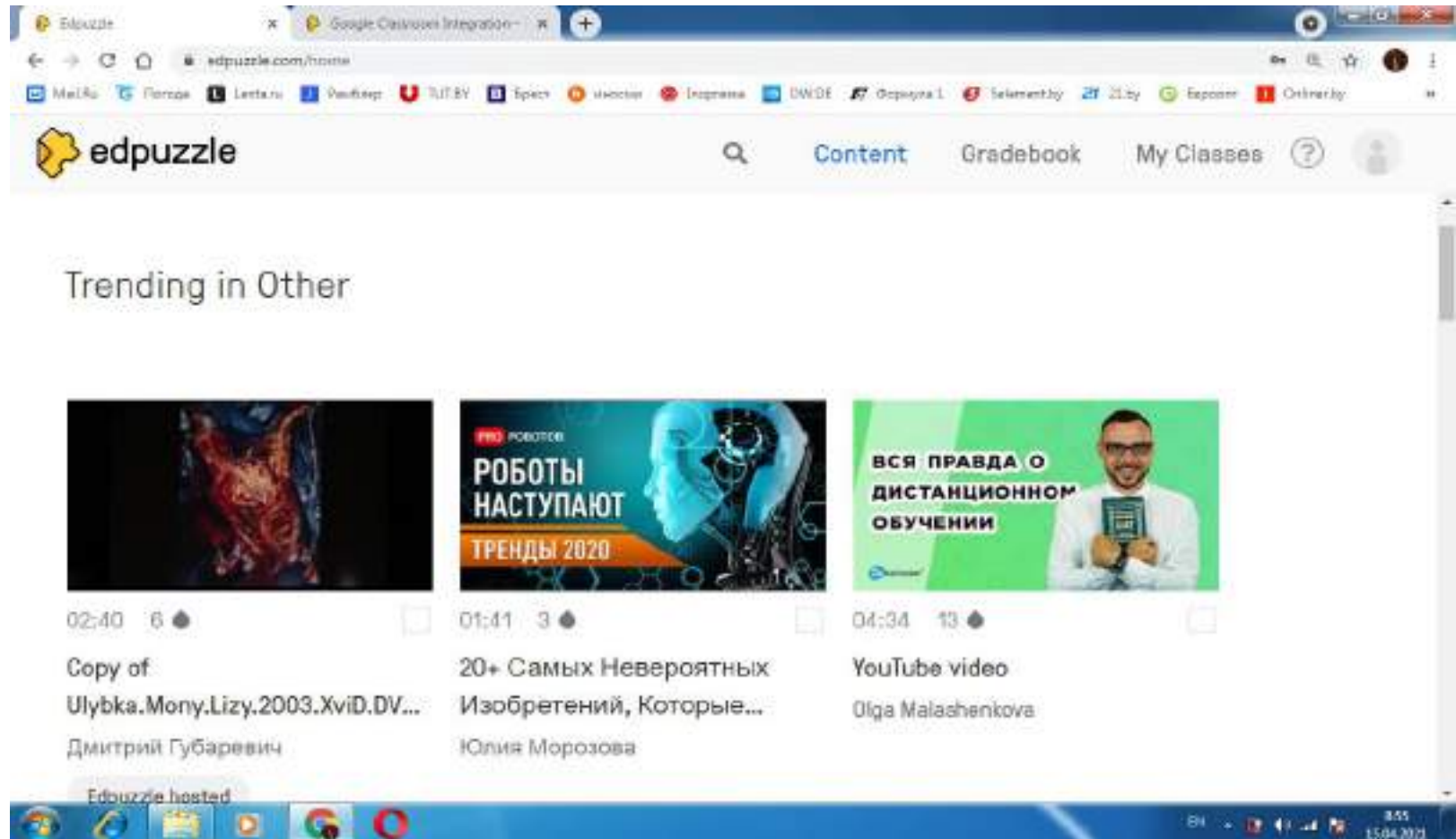
А1 Отметка времени

№	Отметка времени	Адрес электронной почты	Имя	Оценки
11	29.05.2020 21:04:58	w018417@g.bstu.by	Хатискина Елена	3/9
12	29.05.2020 21:09:47	4sg0612@g.bstu.by	Масюк Ксения	3/9
13	29.05.2020 21:11:22	w018409@g.bstu.by	Матвейчик Юлия	3/9
14	29.05.2020 21:13:05	w018415@g.bstu.by	Соловьевич Анастасия	3/9
15	29.05.2020 21:16:25	w018416@g.bstu.by	Фелисова Алеся	3/9
16	29.05.2020 21:17:51	w018407@g.bstu.by	Колос Наталья	3/9
17	29.05.2020 21:30:48	4sg0608@g.bstu.by	Зрелова Эльжбета	3/9
18	29.05.2020 21:33:39	4sg0604@g.bstu.by	Голуб Ольга	3/9
19	29.05.2020 21:43:16	4sg0606@g.bstu.by	Жаровская Наталья	3/9
20	29.05.2020 21:43:58	w018501@g.bstu.by	Басарбай Мария	3/9
21	29.05.2020 21:54:17	w018510@g.bstu.by	Салеткина	3/9
22	29.05.2020 21:58:38	w018403@g.bstu.by	Блоцкий Ксения	1/9
23	29.05.2020 22:03:04	w018401@g.bstu.by	Южен Андреевна	3/9
24	29.05.2020 22:04:09	w018412@g.bstu.by	Пашко Людмила	3/9
25	29.05.2020 22:04:08	w018411@g.bstu.by	Николюшкина Татьяна	3/9
26	29.05.2020 22:05:14	w018408@g.bstu.by	Матвейчик Юлия Валерия	3/9
27	29.05.2020 22:11:48	w018405@g.bstu.by	Драчук Артем	3/9
28	29.05.2020 22:36:59	4sg0614@g.bstu.by	Павлова Елена	3/9
29	29.05.2020 22:45:37	4sg0626@g.bstu.by	Юршицкая Светлана	3/9
30	30.05.2020 13:26:25	w018402@g.bstu.by	Боллер Владимир	4/9
31	30.05.2020 16:56:21	4sg0603@g.bstu.by	Гидисская Татьяна	2/9
32	31.05.2020 13:38:05	w018408@g.bstu.by	Лавочкин Юлий	3/9
33	31.05.2020 14:40:49	4sg0619@g.bstu.by	Салеткина Валентина	3/9
34	31.05.2020 14:48:35	w018506@g.bstu.by	Назарук Ирина	3/9
35	01.06.2020 20:25:03	w018507@g.bstu.by	Миславичус Екатерина	3/9
36	01.06.2020 22:19:05	w018511@g.bstu.by		1/9
37	02.06.2020 19:42:26	w018503@g.bstu.by	Демидович Анастасия	3/9
38	02.06.2020 21:31:43	w018513@g.bstu.by	Соловьевич Виктория	1/9
39	02.06.2020 21:43:46	w018517@g.bstu.by	Азаров Наталья	3/9
40	02.06.2020 22:10:41	w018516@g.bstu.by	Щорбиня Анна	3/9
41	02.06.2020 23:50:48	w018502@g.bstu.by	Баронца И Н	3/9
42	03.06.2020 15:12:05	w018514@g.bstu.by	Чаркин Оксана	3/9
43	03.06.2020 16:30:26	4sg0622@g.bstu.by	Трофимчук Александр	3/9
44	03.06.2020 16:40:27	w018509@g.bstu.by	Николюшкин Юлий	3/9



During the exam, a test in the Google form format was mainly used by options and a task.

Some students experienced difficulties with registering an account and subsequently working remotely



The screenshot shows the edpuzzle.com homepage in a browser. The browser's address bar shows 'edpuzzle.com/home'. The page features a navigation bar with 'Content', 'Gradebook', and 'My Classes' links. Below the navigation bar, the section 'Trending in Other' displays three video thumbnails. The first video is titled 'Copy of Ulybka.Mony.Lizy.2003.XviD.DV...' by Дмитрий Губаревич, with a duration of 02:40 and 6 likes. The second video is titled '20+ Самых Невероятных Изобретений, Которые...' by Юлия Морозова, with a duration of 01:41 and 3 likes. The third video is titled 'YouTube video' by Olga Malashenkova, with a duration of 04:34 and 13 likes. The video thumbnails contain text in Russian: 'РОБОТЫ НАСТУПАЮТ ТРЕНДЫ 2020' and 'ВСЯ ПРАВДА О ДИСТАНЦИОННОМ ОБУЧЕНИИ'.

New pedagogical reality:

- The new concept of education is lifelong learning.
- Changing the educational paradigm.
- Changing the attitude of students to work with information. Information and didactic space of the educational process.

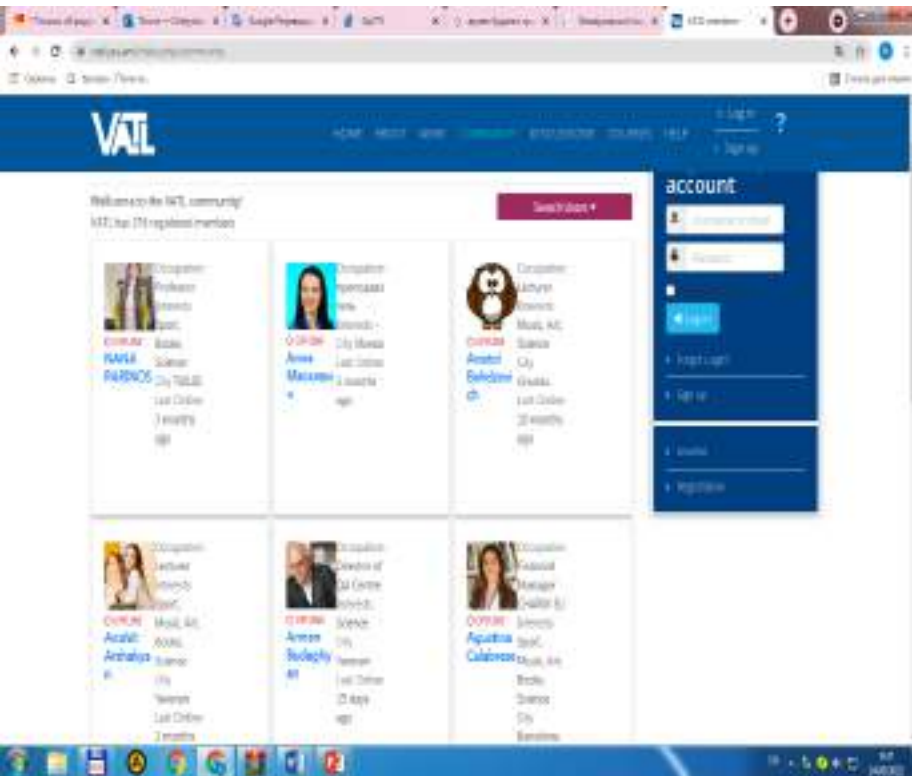
Meetings of the coordinators were systematically held during the implementation of the project.

Consulting and assistance was provided at any time.

Armen Budagyan coordinated the implementation of the project in a highly qualified level. Also, a systematic audit of the project was carried out by the Erasmus office of Belarus.

Quality control of the project implementation was very effective





Virtual Academy for Teaching and Learning (VATL) Portal is a virtual platform for creating, using, promoting & disseminating innovative technology-enhanced T&L and the usage of Open Educational Resources (OERs).

The VATL Portal supports a community of users from various countries of the world with offering access to teaching and learning materials, provides communication possibilities for discussing T&L strategies, approaches and tools with colleagues from other countries and functions as a sort of community for sharing teaching practices and experience among participants.

**Thank you for the
attention!**