

The purpose of the report (June 2020)

Learn from the experience of extreme mode of work during the first months of pandemic in the system of higher education



March 15, 2020



The purpose of the second report (October 2020)

- Justify efficient and strategic measures
 of addressing the problems of higher education
 that emerged during the pandemic
- Indicate directions of the system development



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Analytical Basis of the Report

35 411

university students participated in the survey

33 987

teachers of Russian universities participated in the survey

580

universities in digital infrastructure monitoring

2 700 000 +

analyzed posts in social networks

130

in-depth interviews with university teachers

45

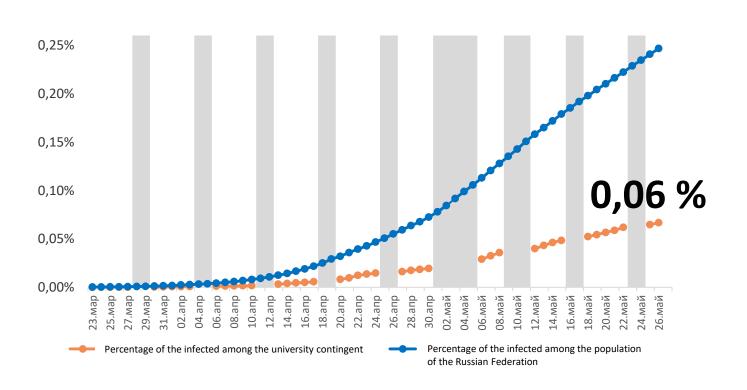
in-depth interviews with university rectors

(supported by The Russian Union of Rectors)



Case study on Russian and foreign universities

Universities did not allow the spread of the infection and were able to ensure the continuity of the educational process



740 universities

2 395 555

students

775 873 living in dormitories

633 500 staff members, 19 % of whom are over 65 years old

The higher education system coped with the STRESS TESTING

80 %

of universities switched to distance learning by 23.03.2020

> 1 000 000

academic courses were simultaneously held in an online format



The pandemic has shown a strong heterogeneity of universities and the risk of further stratification

20 %

of universities managed to maintain studying in a synchronized mode

60 %

switched to distance learning with the loss in quality of education

20 %

carried out part-time studying with the loss of quality



in 15 %
of universities
students
"got lost"

University teachers coped with the problem but they felt psychologically uncomfortable and lacked competencies

245 000 university teachers | 96 % moved online

60 %

have not used distance learning forms before

88 %

skeptical about remote forms of teaching

40 %

feel tired of the increased amount of work

20 %

needed help from digital volunteers the proportion of teachers who view digital technologies as new opportunities to increase the availability of quality education has increased from

30 % to 70 %



Students need social and psychological support, individual trajectories, development of independent work skills

34 %

do not consider the remote format less effective

total satisfaction with online formats has decreased from

21 % to 14 %

40 %

of students notice a lack of communication with teachers

40 %

witnessed decline in income due to suspension of employment



30 000

students took part in the #MЫВМЕСТЕ movement 64 % note that there is more time to sleep

55 %

get less tired after studying

49 %

got more free time

The problem of inequality in access to quality education has become apparent

13 %

of universities do not have even a minimal infrastructure

11 %

of universities have a sufficient digital infrastructure 30 %

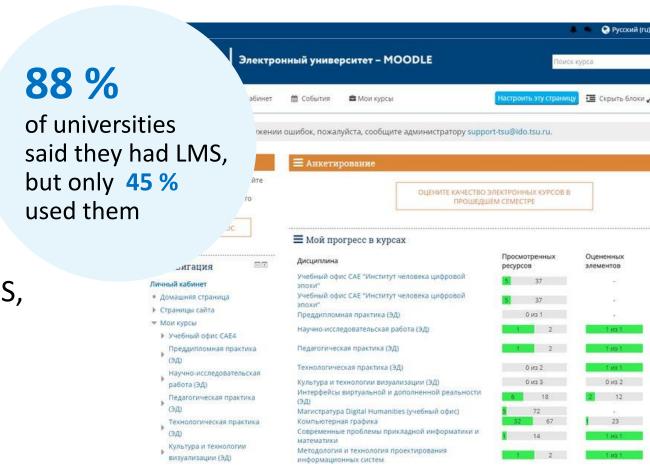
of students from low-income groups of the population lack functional technical devices



Most universities lack a full-fledged infrastructure for organizing distance or blended learning

New important areas

- Information Security
- Digital campus
- National systems of collective use
- Development of service market to manage learning – LMS, educational process management – EMS, virtual learning environments – VLE



The pandemic has demonstrated the need for developing a new pedagogy

Potential of digital technologies



Direct interaction between teachers and students



Independence and horizontal communication of universities guaranteed successful solutions of the problems

20 %

of universities expected instructions from the regulators and approached problems formally

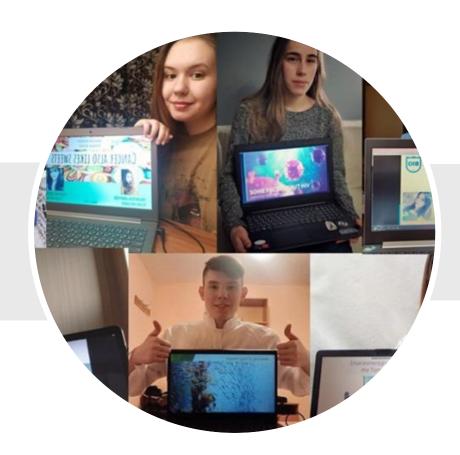
70 %

of universities adopted the best practice and were able to adapt

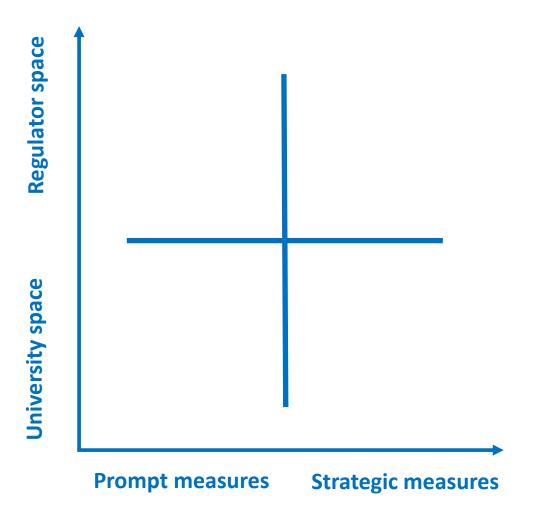


Bifurcation point in Higher Education





Decision Matrix



Directions of Changes

- 1. Updating competencies of university teachers
- 2. Support for student development in new conditions
- 3. Transformation of the educational process, promotion of digital technologies and new didactics
- 4. Overcoming inequality and making quality education accessible
- 5. Implementation of new approaches to the organization of research and innovation activities
- 6. Modernization of digital infrastructure in higher education
- 7. Improving models of the university management
- 8. Developing higher education network
- Changing mechanisms for State regulation of educational activities
- 10. Ensuring economic sustainability of the higher education system in the new conditions

Updating competencies of university teachers

University Level

PROMPT MEASURES

- Implementation of monitoring and encouraging system for university teachers that ensure the use of digital technologies in the teaching process (including the introduction of corresponding indicators in contracts)
- Development of the "digital volunteering" to help university teachers of the older generation
- Updating functional models of university teachers' activities, including those in connection with the appearance of the facilitator, moderator, and tutor roles

STRATEGIC MEASURES

- Creating an ecosystem of online services for methodological assistance to university teachers
- Development of the system of certification and quality assessment of courses including help of students
- Creating centers for the development of pedagogical skills and/or professional schools that influence the entire educational environment of the university

Federal Level in the Regulatory System

PROMPT MEASURES

- Creating a list of recommended resources and digital tools for designing online courses, conducting independent inspection of the selected resources, and preventing the monopolization
- Running the competition of projects and scientific developments on modern university didactics and online education in 2021
- Updating models for determining the structure and volume of the workload for university teachers in order to take into account prerecorded teaching materials, including course updating and preparing materials for each distance lesson

STRATEGIC MEASURES

- Creation of a national service for testing teachers' level of digital literacy and building a national monitoring
- Creation of programs for domestic and international academic mobility of teaching staff, including virtual ones, to improve pedagogical competence
- Distribution of open online courses aimed at developing digital competencies and modern pedagogical practices on the basis of the federal platform "Modern Digital Educational Environment"

Support for student development in new conditions

University Level

PROMPT MEASURES

- Involvement of students into the educational process: management of their own educational trajectory, creating conditions for the self-organization of study groups
- Creating a laptop loan program for students and providing technical help for their personal devices during distance learning
- Implementation of student employment programs: creating temporary jobs at the University

STRATEGIC MEASURES

- Implementation of models and methods for life and educational group trajectories, including use of tutor services, advisors, and mentors
- Development of online formats for student Olympiads, casechampionships and other tools for independent assessment of the quality of education
- Encouraging students' readiness for constructive dialogue by means of managing and support of the student media centers

Federal Level in the Regulatory System

PROMPT MEASURES

- Making changes to the annual quota admission plan (redistribution of admission numbers for countries unaffected by COVID-19)
- Making changes to the "procedure for admission to educational programs of higher education – Bachelor's, Specialist's, Master's" in terms of extending the deadlines for accepting documents from international students (allowing universities to set deadlines for admission to Master's programs at their discretion while taking into account all possible ranges)

STRATEGIC MEASURES

- Development of measures to monitor the effectiveness of the use of the Scholarship Fund
- Conducting regular monitoring of the psychological state of students in Russia, identifying significant factors of the existing infrastructure for psychological well-being, its quality, etc.
- Creation of a motivational scholarship model (the basic amount of the state scholarship should be brought to the minimum wage level in the corresponding region, including student-winners of National Olympiads since 2021)

Transformation of the educational process, promotion of digital technologies and new didactics

University Level

PROMPT MEASURES

- Increasing interactivity of training courses: game practice, Scenariobased learning (SBL), use of VR, AR technologies and online tools to translate the educational process into a mixed learning modes
- Cooperation with other universities to create a common learning ecosystem, collections of open educational resources, as well as complement programs with the best courses prepared (developed) by other educational institutions
- Implementation of electronic services aimed at collecting feedback from students to monitor the quality of programs and their regular updating

STRATEGIC MEASURES

- Transition to the blended learning model, which implies flexibility in the distribution of hours and forms of interaction between teacher and student (classroom, online / offline) within the framework of the discipline
- Using adaptive techniques based on artificial intelligence to personalize education and improve its quality
- A shift in emphasis from predominantly classroom teaching with formal independent work of students to a system of management and support for independent work of students by a teacher, with an increase in the share of pre- and post-class work in the network using LMS tools

Federal Level in the Regulatory System

PROMPT MEASURES

- Grant support for universities in the design and production of open online courses and content, as well as support for universities that provide their own electronic libraries and collections of online courses or content
- Support for regional competitions for university teachers in the formation of modern methodological developments
- Increasing in funding for "Education of Citizens at Universities" project as part of the FP "New Opportunities for Everyone" (National Project "Education") by 1 billion rubles for priority support of continuing professional education programs on blended learning

STRATEGIC MEASURES

- Creation of a business co-financing program in the development of simulators, educational games and other services for the implementation of educational activities at the university
- Creation of a system of recommendation services and certification of the quality of online courses, depending on their content and methodological readiness for use, as well as the development of recommendations for users
- Creation of centers of pedagogical excellence and / or vocational schools of education with the function of developing new educational methods and scaling up successful experiments

