




# SUMMARY REPORT

on public accreditation of the cluster of educational  
programmes in

«Construction» (08.03.01, 08.04.01)

delivered by Togliatti State University



2018

While preparing this Summary Report we used information from the Self-Evaluation Report and the Report on the External Review of the cluster of educational programmes in «Construction» (08.03.01, 08.04.01) delivered by Togliatti State University.

The presentation document for the use by the National Accreditation Board.

## CONTENTS

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General information on educational institution .....	4
Information on the educational programmes undergoing accreditation.....	5
Achievements of the educational programmes .....	7
External review panel .....	9
Compliance of the external review outcomes with the ncpa's standards .....	11
Distribution digram of the external review outcomes.....	18
Conclusion of the external review panel .....	19
Schedule of the site visit of the external review panel .....	20

## GENERAL INFORMATION ON EDUCATIONAL INSTITUTION

Full name of the educational institution	<i>Federal State Budgetary Educational Institution of Higher Education «Togliatti State University»</i>
Founders	<i>Ministry of Education and Science of the Russian Federation</i>
Year of foundation	<i>1951 — branch of Kuibyshev Industrial Institute 1967 — Togliatti Polytechnic Institute 2001 — Togliatti State University</i>
Location	<i>445667, 14, Belorusskaia Str., Togliatti</i>
Rector	<i>Mikhail Krishtal, Doctor of Physical and Mathematical Sciences, Professor</i>
License	<i>Series 90Л01 №9363 reg. № 2300 of 03.08.2016 permanent</i>
State accreditation	<i>Certificate of State Accreditation Series 90A01 № 2524, reg. №2401 of 07.12.2016 valid till 11.03.2019</i>
Number of students	<i>14179 including: full-time 5591 on-site and off-site 177 part-time 8411</i>

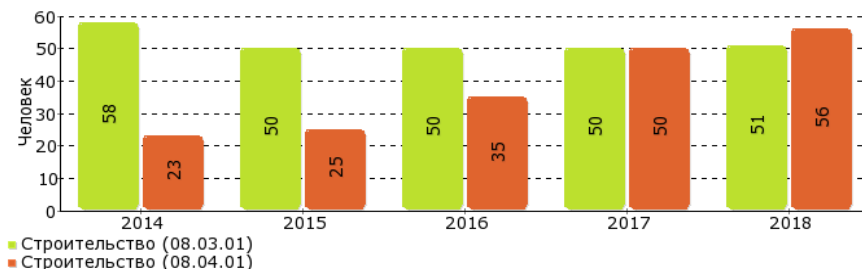
## INFORMATION ON THE EDUCATIONAL PROGRAMMES UNDERGOING ACCREDITATION

Educational programmes	<i>«Construction» (08.03.01), «Construction» (08.04.01)</i>
Level of training / Standard period of training	<i>Bachelor's Degree Programme / 4 years Master's Degree Programme / 2 years</i>
Structural subdivisions (head)	<i>Institute of Architecture and Construction (Nikolai Ustenkov, Candidate of Pedagogic Sciences, Associate Professor)</i>
Major departments (heads of major departments)	<i>Department of Industrial, Civil Construction and Municipal Economy (Dmitrii Toshin, Candidate of Engineering Sciences, Associate Professor) Department of Heat and Gas Supply and Ventilation, Water Supply and Wastewater Disposal (Vladimir Filenkov, Candidate of Engineering Sciences, Associate Professor)</i>
Date of the site visit	<i>May 29-31, 2018</i>
Person responsible for public accreditation of the study programmes	<i>Nikolai Ustenkov, Candidate of Pedagogic Sciences, Associate Professor, Deputy Rector-Director of the Institute of Architecture and Construction</i>

**SAMPLING RESULTS OF THE PROJECT  
"THE BEST EDUCATIONAL PROGRAMMES OF  
INNOVATIVE RUSSIA"**

Indicators	2018
<b>Cluster of the educational programmes in «Construction» (08.03.01, 08.04.01)</b>	
Number of the given programmes in the RF	479
Number of higher educational institutions to offer the given programmes	246
Number of programmes – winners of the project (% from total number of these programmes offered in the RF)	57 (11,9%)
<b>Samara Region</b>	
Number of the given programmes offered in the region	6
Number of programmes – winners of the project (% from total number of these programmes offered in the region)	1 (16,7%)
Number of higher educational institutions and branches in the region	45
Total number of programmes offered in the region	531
Total number of programmes – winners of the project (% from total number of these programmes offered in the region)	87 (16,4%)

**REFERENCE DATA ON STUDENT ENROLLEMENT FOR  
EDUCATIONAL PROGRAMMES**



## **ACHIEVEMENTS OF THE EDUCATIONAL PROGRAMMES**

### **Quality of the delivered educational programmes**

High quality of the delivered study programmes is provided by effective selection of applicants and is approved by success of students on competitions and Olympiads and high demand of graduates.

### **Teaching staff**

A highly qualified teaching staff works at the Institute of Architecture and Construction. 75% of teachers of the Department of Industrial, Civil Construction and Municipal Economy are Candidates or Doctors of Sciences. 72,7% of teachers of the Department of Heat and Gas Supply and Ventilation, Water Supply and Wastewater Disposal are Candidates or Doctors of Sciences. Doctors and Candidates of Engineering Sciences, Professors and Associate Professors are involved in the educational process.

### **Research activity**

Students are involved in research activities at the initiative of teachers and research teams. Research work is financed on the basis of grants, programmes, commercial agreements and competitions. Students also write research articles and theses, participate in research conferences and competitions. The outcomes of research work are used in the educational process.

Qualification of teachers and equipment of laboratories promote research activities at the Institute. Teachers are members of Thesis Boards.

In 2018 Master student D. Afanasiev was granted the Patent of the Russian Federation for an invention that is a part of his thesis. 1 scholarship of the Governor of the Samara Region and 1 P. Alabin scholarship were obtained.

Students participate in research conferences, Russian Olympiads, competitions of graduation works. V. Eryshev, supervisor of the Master programme «Technical maintenance and reconstruction of buildings» prepared a work for the competition of projects of fundamental research carried out by the Russian Foundation for Basic Research and the State Committee on Science of the Ministry of Education and Science of the Republic of Armenia.

### **Employability of graduates**

Graduates of the Institute of Architecture and Construction are in demand on the labour market. Students successfully find jobs holding the positions of engineers and technicians in the organizations of Togliatti and the Samara Region. Graduates of the Master programme «Urban and Industrial Water Supply» work in design institutes, leading enterprises of Togliatti and the Samara Region. Master graduates have the possibility to apply for postgraduate studies at the University.

## Material and technical resources

Laboratories of the Institute of Architecture and Construction are provided with necessary equipment and unique tools developed by the Departments. The equipment is used for laboratory works of students and experimental research of teachers. Master students and the research and production company «TEKO-FILTR» developed a laboratory bench for hydrostatic tests of drainage and distribution systems of pressure filters. The results for two theses were received with the help of this bench. Theses research are carried out in the laboratory «Monitoring of water objects» on the basis of the cooperation agreements with the Institute of Ecology of the Volga Basin.



## EXTERNAL REVIEW PANEL



**Aleksei Korshunov** (Arkhangelsk)

Review Chair, Russian expert

*Candidate of Engineering Sciences, Associate Professor, First Vice-Rector of Lomonosov Northern (Arctic) Federal University, member of the Federal Academic Methodological Association on the interrelated specialty group 08.00.00 «Technique and Technologies of Construction», member of the Russian Society on Soil Engineering, Geotechnology and Foundation Engineering*

A nominee of the Guild of Experts in Higher Education



**Elena Skobeleva** (Orel)

Deputy Review Chair, Russian Expert

*Candidate of Engineering Sciences, Director of the Institute of Architecture and Construction, Turgenev Orel State University, member of the Public Council of Professional Consultants on Construction*

A nominee of the Guild of Experts in Higher Education



**Ivan Mullin** (Togliatti)

Panel member, representative of the professional community

*Executive Director of the Group of Companies «Polevoi»*

A nominee of the Group of Companies «Polevoi»



**Regina Semina** (Togliatti)

Panel member, representative of students

*3rd year student of Volga Region State University of Service*

A nominee of Volga Region State University of Service

## **INFORMATION ON THE LEADING TEACHERS OF THE EDUCATIONAL PROGRAMMES**

### **Valerii Eryshev**

*Doctor of Engineering Sciences, Associate Professor, Professor of the Department of Industrial, Civil Construction and Municipal Economy*

### **Igor Rodionov**

*Candidate of Engineering Sciences, Associate Professor of the Department of Industrial, Civil Construction and Municipal Economy*

### **Aleksandr Rudenko**

*Doctor of Economic Sciences, Candidate of Engineering Sciences, Associate Professor, Professor of the Department of Industrial, Civil Construction and Municipal Economy*

### **Dmitrii Toshin**

*Candidate of Engineering Sciences, Associate Professor, Head of the Department of Industrial, Civil Construction and Municipal Economy*

### **Vladimir Philenkov**

*Candidate of Engineering Sciences, Associate Professor, Acting Head of the Department of Heat and Gas Supply and Ventilation, Water Supply and Wastewater Disposal*

### **Vladimir Seleznev**

*Doctor of Engineering Sciences, Professor of the Department of Heat and Gas Supply and Ventilation, Water Supply and Wastewater Disposal*

### **Igor Loushkin**

*Candidate of Engineering Sciences, Associate Professor of the Department of Heat and Gas Supply and Ventilation, Water Supply and Wastewater Disposal*

## **COMPLIANCE OF THE EXTERNAL REVIEW OUTCOMES WITH THE NCPA'S STANDARDS**

### **STANDARD 1. Policy (goals, development strategy) and quality assurance procedures of the educational programme**

Compliance with the standard: **full compliance**

#### **Good practice:**

The organizational structure of the University is based on the core business processes; it is consistent, clear and corresponds to the requirements of the legislation. Excessive levels of management were rectified.

Openness of management is provided by the systematic public reporting to the staff (reception hours, Rector's guestbook, public speaking).

Working meetings on consideration of documents and review of the Quality Policy are held every month. Stakeholders including student unions participate in the meetings.

Documents that regulate research, educational and other activities are published on the University website. They are regularly updated due to the review of Development Strategy of the University.

#### **Areas for improvement:**

It is recommended to involve employers, subject-specific authorities, students and other stakeholders in review and updating of documents that regulate work of structural subdivisions and implementation of processes.

It is advisable to develop and publish the road map of updating documents of the internal system of quality assurance in accordance with the development programme of the University.

### **STANDARD 2. Design and approval of programmes**

Compliance with the standard: **substantial compliance**

#### **Good practice:**

Expected learning outcomes are coordinated with the representatives of employers. They correspond to the Federal State Educational Standards of Higher Education, mission, goals and objectives of the educational institution.

Content of subjects, competencies of students correspond to the labour actions, necessary skills that are pointed out in professional

standards. Information about annual updating of the curriculum in accordance with the matrix of compliance with the requirements of professional standards is presented in the educational programme.

Leading scientists in construction design participated in development of the Master programme.

### **Areas for improvement:**

It is recommended to elaborate on and update purposes of the study programmes of the basis of the developed Strategy of Development of the Institute of Architecture and Construction taking into account the Development Programme of a Flagship University.

It is advisable to improve the procedure of correction and approval of study programmes with the account of stakeholders' opinions (students, teachers and employers).

It is necessary to provide an efficient communication between the participants of the educational process including stakeholders.

## **STANDARD 3. Student-centered learning and assessment**

Compliance with the standard: **substantial compliance**

### **Good practice:**

Students have the possibility to make an individual learning path. The procedure of choosing elective courses is in place.

Students are involved in examination of the technical state of operational facilities and in real design of buildings under the supervision of experienced teachers.

Regulating documents are developed and approved. They contain description of assessment procedures of learning outcomes. Pools of assessment tools are used for each subject.

The appeals procedure is documented and is effectively used.

The educational portal of the University helps to improve information of students about the process lists of subjects, academic progress, and interim assessment. Students' record book is available in the electronic format. An effective system of document flow of the Dean's Office is in place.

### **Areas for improvement:**

It is recommended to promote participation of students in making the educational process by establishing an Educational or Research Board.

It is advisable to develop and introduce the system of independent assessment of learning outcomes, for example, by involving practitioners in interim assessment, review of course works and results of project activities, especially, projects made upon the request of enterprises.

It is necessary to regularly conduct survey of external supervisors of practical training.

It is recommended to conduct survey of students on satisfaction with the educational process.

#### **STANDARD 4. Student admission, support of academic achievements and graduation**

Compliance with the standard: **substantial compliance**

##### **Good practice:**

Regulating documents are developed and published. An effective system of enrollment (transfer) of students from other educational institutions, recognition of qualifications and training periods is in place. Surveyed students approved effectiveness of this system.

There is a special section in the information system to support academic progress of students. A point rating system is used. A procedure of evaluation of learning outcomes is clear.

The University gives Diploma Supplement (upon the request of a student).

The Regulations on grant support of students' academic mobility (travel-grants) is developed. A system of students' information about various possibilities with the help of social media and newsletters is in place.

Work with applicants including work in social media is in place. An Electronic Admissions Board is in place. A system and mechanisms of involvement of school Physics teachers in career guidance work are created. A career guidance work with pupils and students of organizations of secondary vocational education is in place.

Programmes of further education (pre-university) on construction technologies are introduced.

##### **Areas for improvement:**

It is recommended to organize a career guidance work at the Departments and at the Institute by developing a plan of career guidance work with the following effectiveness analysis of events.

It is advisable to broaden opportunities of recognition of a document on education in Russia and abroad by developing and implementing networking programmes and double degree programmes with other universities and research institutions.

It is necessary to promote work on participation of students in the programmes of academic mobility, for example, by using scholarship programmes.

## **STANDARD 5. Teaching staff**

Compliance with the standard: **partial compliance**

### **Good practice:**

Experienced teachers, Doctors and Candidates of Sciences, Professors, Associate Professors, and representatives of employers are involved in the educational process.

There are research schools at the Institute of Architecture and Construction, one of which is headed by V. Eryshev, counselor of the Russian Academy of Architecture and Construction Sciences.

The academic staff carries out research activities in examination and reconstruction of operated buildings.

The results of research work are used in the educational process when developing original modules of disciplines and in research activities of Master students.

Distance learning technologies, business games, and projects are used in the educational process. Practical training is carried out at the enterprises.

There is an effective system of teachers' incentives.

A system of professional development for teachers is in place.

### **Areas for improvement:**

It is recommended to promote work of supervisors of study programmes, Heads of Departments and Director of the Institute on involvement of leading scientists, including the foreign ones, in the educational process by strengthening relations between higher education institutions (for example, by carrying out joint research works, implementing networking programmes, etc.).

It is advisable to organize training of the academic staff on innovation technologies in education.

It is necessary to promote academic mobility of the teaching staff.

It is recommended to enhance publication activities of the academic staff, including those on the topics of the subjects they teach.

It is advisable to look for partners to participate in the programme ErasmusCredit-Mobility; to promote the academic staff to file the applications.

## **STANDARD 6. Learning resources and student support**

Compliance with the standard: **substantial compliance**

### **Good practice:**

Laboratories are provided with unique equipment on heat, gas, water supply, heating, ventilation, and wastewater disposal.

There is an electronic educational environment (Repository). The main electronic library systems, collections on construction and architecture are available.

High quality of infrastructure helps to carry out educational work with students.

A road map on availability of the University buildings for people with limited mobility is developed.

The Regulations on academic mobility of students are developed. Financial support is in place. The Department on work with gifted students works at the University.

Feedback from students is received in person, with the help of the University website and the service «Ask Rector a Question».

An internal quality standard of electronic content and support of distance learning are provided. A technology of producing electronic content is developed.

### **Areas for improvement:**

It is recommended to develop the roadmaps of development of laboratories for research activities.

It is advisable to file the applications for mega-grants involving industrial partners – producers of engineering equipment – in interdisciplinary research. It is recommended to develop an effective system of cooperation with the Engineering Centre of the University.

It is necessary to develop work of the Student research community to improve effectiveness of students' information about the possibilities of academic mobility, material and technical resources and its usage.

## **STANDARD 7. Collection, analysis and use of information for managing the educational institution**

Compliance with the standard: **substantial compliance**

### **Good practice:**

A high efficiency IT-infrastructure of the University is developed and used at all levels (student, teacher, Department, Institute).

A system «Associate Dean's Office» and queue management system are used.

## **Areas for improvement:**

It is recommended to improve a feedback system on quality of carrying out study programmes.

It is advisable to improve an information system for convenient tracking of changes of study programmes and for analysis of events' effectiveness.

It is necessary to develop a system of collection and monitoring of information about the cluster of study programmes and set up periodicity and criteria for monitoring.

## **STANDARD 8. Public information**

Compliance with the standard: **partial compliance**

### **Good practice:**

An automated information system «Career Centre» is used. It is aimed at making an integrated database of students' CVs and vacancies, carrying out an automated selection of applicants on the parameters given by employers, providing consulting assistance and tracking the process of graduates' employability.

The educational portal is in place.

There is a chat for registered users on the University website.

Information about successful graduates is published on the website.

V. Eryshev is a member of the Thesis Board.

A system of making and support of the TSU positive image is used with the help of the information system on success of the University in various media channels.

### **Areas for improvement:**

It is recommended to restructure the University website and provide availability of the main sections in 3-4 clicks.

It is advisable to update collection of statistics, information about graduates' employability, as well as to provide account of employers' opinions about the system of students' training.

It is necessary to provide applicants with useful information on the fields of study.

It is recommended to provide public information on the cluster of programmes publishing materials about it on the University website and paying attention to its competitive advantages and use of innovative educational technologies, etc.

It is advisable for the academic staff to be the members of professional associations (memberships in organizing committees, editorial boards, etc.).

It is necessary to establish the Graduates Club and represent it on the website.



## **STANDARD 9. On-going monitoring and periodic assessment of the educational programmes**

Compliance with the standard: **partial compliance**

### **Good practice:**

The study programmes correspond to the requirements of the Federal State Educational Standards of Higher Education. Following the results of surveys, employers are satisfied with competencies of graduates.

The procedure of annual updating of the basic study programme is documented in general terms.

Partnership relations with the regional enterprises on construction are established.

### **Areas for improvement:**

It is recommended to improve a feedback system from students, employers and other stakeholders by establishing an integrated system for effective work on collection and analysis of demands and requirements of the market, research and professional communities.

It is advisable to develop criteria for effectiveness of the study programme on the basis of stakeholders' opinions.

It is necessary to improve work of the electronic educational environment (rules/mechanisms) providing systematic collection, analysis and assessment of effectiveness of the study programme on the level of the Head of Department/supervisor of the study programme, Director and Vice-Rector.

## **STANDARD 10. Cyclical external quality assurance of the educational programmes**

Compliance with the standard: **partial compliance**

### **Good practice:**

The cluster of study programmes is ready for this public accreditation.

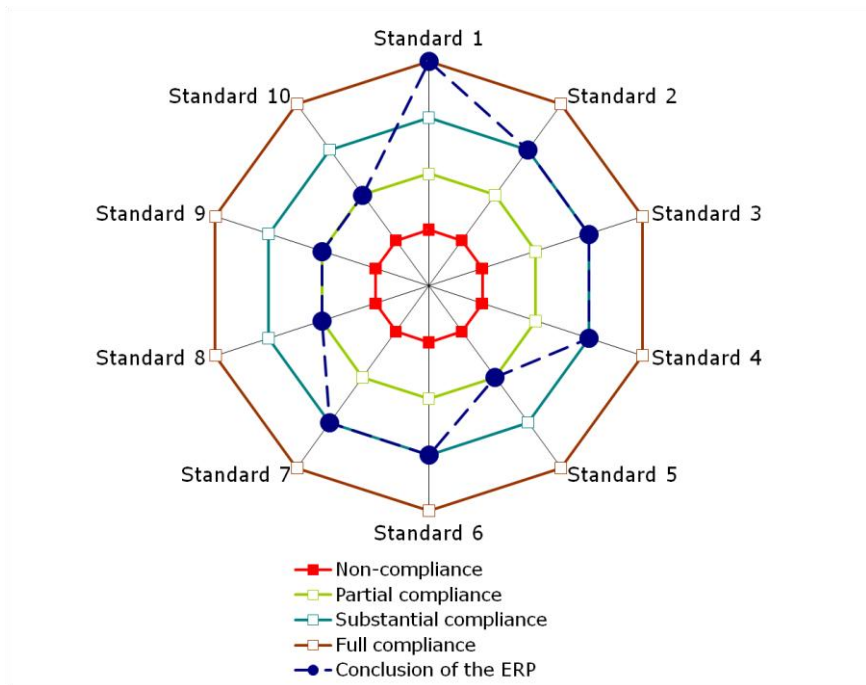
### **Areas for improvement:**

It is recommended to carry out external review of the cluster of study programmes on a regular basis and at the international level.

It is advisable to regulate development of corrective measures, appoint responsible people and set a time limit.

It is necessary to develop criteria for effectiveness to evaluate changes of study programmes.

## DISTRIBUTION DIGRAM OF THE EXTERNAL REVIEW OUTCOMES



- Standard 1. Policy (goals, development strategy) and quality assurance procedures of the educational programmes
- Standard 2. Design and approval of programmes
- Standard 3. Student-centered learning, teaching and assessment
- Standard 4. Student admission, support of academic achievements and graduation
- Standard 5. Teaching staff
- Standard 6. Learning resources and student support
- Standard 7. Collection, analysis and use of information for managing the educational institution
- Standard 8. Public information
- Standard 9. On-going monitoring and periodic assessment of the educational programmes
- Standard 10. Cyclical external quality assurance of the educational programmes

## CONCLUSION OF THE EXTERNAL REVIEW PANEL

Based on the self-evaluation report analysis, documents and data submitted the External Review Panel has come to the conclusion that the cluster of the educational programmes in «Construction» (08.03.01, 08.04.01) **substantially comply** with the standards and criteria of public accreditation of the National Centre for Public Accreditation.

The Panel recommends that the National Accreditation Board accredit the cluster of the educational programmes in «Construction» (08.03.01, 08.04.01) delivered by Togliatti State University for the period of **three years**.

## SCHEDULE OF THE SITE VISIT OF THE EXTERNAL REVIEW PANEL

Time	Activity	Participants	Venue
<b>May 29, Tuesday</b>			
08.45	Arrival at the University		Main Building, 14, Belorusskaia Str.
09.00 – 10.00	The first meeting of the external review panel		Room Г-208, Main Building, 14, Belorusskaia Str.
10.00 – 11.30	<b>Meeting of the ERP with the University administration and people responsible for accreditation</b>	Rector, Vice-Rectors, people responsible for accreditation, ERP	Room Г-208, Main Building, 14, Belorusskaia Str.
11.30 – 13.30	Tour of the University (visiting classes, libraries, etc.)	ERP	
13.30 – 14.30	Lunch		
14.30 – 15.00	Internal meeting of the ERP	ERP	Room НИЧ-211а, 14Б, Belorusskaia Str.
15.00 – 16.00	<b>Meeting with Institute Directors /Deans</b>	Deputy Rectors, ERP	Room НИЧ-211а, 14Б, Belorusskaia Str.
16.00 – 16.30	Work with documents	ERP	Room Г-425, Main Building, 14, Belorusskaia Str.
16.30 – 17.30	<b>Meeting with Heads of Departments</b>	Heads of Departments, ERP	Room НИЧ-211а, 14Б, Belorusskaia Str.
17.30 – 18.00	Internal meeting of the ERP	ERP	Room НИЧ-211а, 14Б, Belorusskaia Str.
18.00 – 19.00	<b>Meeting with graduates</b>	Graduates, ERP	Room НИЧ-211а, 14Б, Belorusskaia Str.
19.00 – 19.30	Internal meeting of the ERP	ERP	Room НИЧ-211а, 14Б, Belorusskaia Str.

<b>May 30, Wednesday</b>			
08.45	Arrival at the University		Main Building, 14, Belorusskaia Str.
09.00 – 10.00	Work with documents	ERP	Room Г-425, Main Building, 14, Belorusskaia Str.
10.00 – 11.00	<b>Meeting with teachers</b>	Teachers, ERP	Room НИЧ-211а, 14Б, Belorusskaia Str.
11.00 – 12.30	Internal meeting of the ERP	ERP	Room НИЧ-211а, 14Б, Belorusskaia Str.
12.30 – 13.30	<b>Meeting with Bachelor students</b>	Students, ERP	Room НИЧ-211а, 14Б, Belorusskaia Str.
13.30 – 14.30	Lunch		
14.30 – 15.00	Internal meeting of the ERP	ERP	Room НИЧ-211а, 14Б, Belorusskaia Str.
15.00 – 16.00	<b>Meeting with Master students</b>	Students, ERP	Room НИЧ-211а, 14Б, Belorusskaia Str.
16.00 – 17.00	Work with documents/Visiting classes (at the wish of the ERP)	ERP	Room Г-425, Main Building, 14, Belorusskaia Str.
17.00 – 18.00	<b>Meeting with representatives of professional community</b>	Employers, ERP	Room НИЧ-211а, 14Б, Belorusskaia Str.
18.00 – 18.30	Internal meeting of the ERP	ERP	Room НИЧ-211а, 14Б, Belorusskaia Str.
<b>May 31, Thursday</b>			
08.45	Arrival at the University		Main Building, 14, Belorusskaia Str.
09.00 – 12.30	Internal meeting of the ERP: discussion of preliminary results of the site visit, preparation of the oral report of the panel	ERP	Room НИЧ-211а, 14Б, Belorusskaia Str.
12.30 – 13.30	<b>Closing meeting of the External Review Panel with the representatives of the University</b>	ERP, University administration, Heads of the Graduate Departments, teachers, students	Room Г-208, Main Building, 14, Belorusskaia Str.
13.30 – 15.00	Lunch		
	Departure		