




# SUMMARY REPORT

on Joint International Accreditation  
of the cluster of educational programmes  
in the field of study:

“Construction” (08.03.01, 08.04.01),

delivered by Far Eastern Federal University



2017

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 the field of study: "Construction" (08.03.01, 08.04.01), delivered by Far Eastern Federal University.

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

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## GENERAL INFORMATION ON EDUCATIONAL INSTITUTION

Full name of the educational institution	<i>Federal State Autonomous Educational Institution of Higher Education "Far Eastern Federal University"</i>	
Founders	<i>Ministry of Education and Science of the Russian Federation</i>	
Year of foundation	<i>1899 – Oriental Institute 2010 – Far Eastern Federal University</i>	
Location	<i>690950, 8 Sukhanova Str., Vladivostok, Russian Federation</i>	
Acting Rector	<i>Nikita Anisimov, Ph. D. in Physical and Mathematical Sciences</i>	
License	<i>Series 90Л01 № 0009290 reg. № 2241 dated 01.07.2016 permanent</i>	
State Accreditation	<i>Certificate of State Accreditation Series 90A01 № 0002279, reg. №2160 dated 03.08.2016 valid till 27.01.2020</i>	
Number of students	<i>23144 among them:</i>	
	<i>Full-time</i>	<i>19033</i>
	<i>On-site and off-site</i>	<i>176</i>
	<i>Part-time</i>	<i>3935</i>

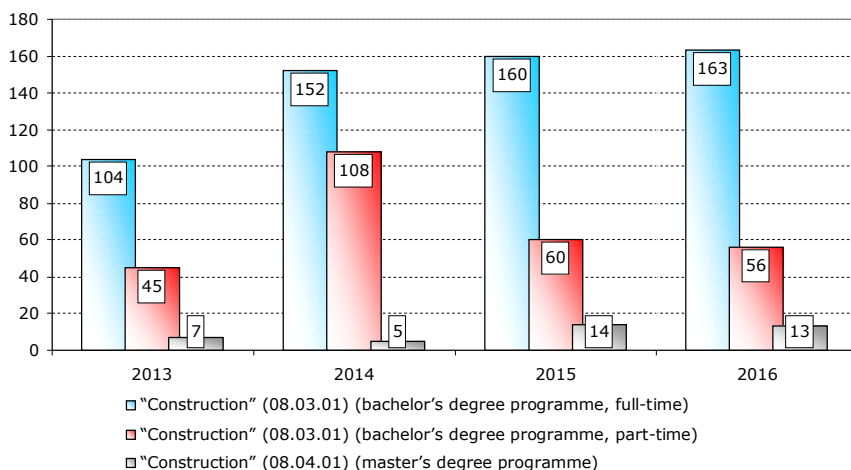
## INFORMATION ON THE EDUCATIONAL PROGRAMME UNDERGOING ACCREDITATION

Educational programmes	<i>"Construction" (08.03.01)</i> <i>"Construction" (08.04.01)</i>
Level of training / Standard period of training	<i>bachelor's degree programme / 4 years</i> <i>master's degree programme / 2 years</i>
Structural subdivisions (Head)	<i>School of Engineering (Doctor of Sciences, Professor Aleksandr Bekker)</i>
Major department (head of major departments)□	<i>Department of Construction and Real Estate Management Nikolay Tereshchenko, (Ph. D. in Engineering Sciences, Associate Professor)</i> <i>Department of Hydraulic Engineering and the Theory of Construction (Nikita Tsimbelman, Ph. D. in Engineering Sciences, Associate Professor)</i>
Date of the site visit	<i>December 7-9, 2016</i>
People responsible for accreditation of the study programme	<i>Ekaterina Tsaregorodtseva, Deputy Director of Department for Academic Policy</i>

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

Indicators	2016
<b>Cluster of the educational programmes in the field of study "Construction" (08.03.01, 08.04.01)</b>	
Number of the given programmes in the RF	487
Number of higher educational institutions to offer the given programmes	269
Number of programmes – winners of the project (% from total number of these programmes offered in the RF)	52 (10,68%)
<b>Primorsky kray</b>	
Number of the given programmes offered in the region	6
Number of programmes – winners of the project (% from total amount of these programmes offered in the region)	2 (33,33%)
Number of higher educational institutions and branches in the region	29
Total number of programmes offered in the region	324
Total number of programmes – winners of the project (% from total amount of these programmes offered in the region)	33 (10,19%)

### REFERENCE DATA ON STUDENT ENROLLMENT FOR THE PROGRAMME



## **ACHIEVEMENTS OF THE EDUCATIONAL PROGRAMMES**

### **Quality of implementing the educational programmes**

In 2015 the University obtained state accreditation for all the programmes undergoing the accreditation procedure. The University quality management system is certified in accordance with the requirements of ISO 9001:2008. Four educational programmes underwent successful joint international public accreditation.

### **Provision of up-to-date education**

Representatives of employers are involved as experts in the programme development in Construction. The educational programmes undergo an expert review in the Academic Process Control Department and are also reviewed and assessed by employers.

The content of the educational programmes is annually updated in accordance with any changes in the legislation. The main task of updating is to achieve flexible response to labor market requirements, as well as to take into account new achievements and trends in education. Adjustment procedures to rely on the requirements of legal acts, recommendations of employers and opinions of students.

### **Teaching staff**

The total number of teachers involved in the implementation of the Bachelor's programme of "Construction" is 43 people; the number is sufficient to carry out the academic tasks and ensures the quality of education. The percentage of full-time teachers is 95.3 %. The percentage of teachers with academic degrees and titles is 73.9%.

The total number of teachers involved in the Master's degree programme of "Construction" is 16 people; 88% of them have academic degrees; among them 27.3% are Doctors of Sciences. Four teachers involved in the principal educational programmes in Construction have honorary degrees and awards.

### **Independent assessment of student learning outcomes**

Since 2015 on a regular basis the university has taken part in the project "Federal Internet Exam in Professional Education".

### **Employability of graduates**

The percentage of employed Bachelor degree graduates in "Construction" who continued education for the Master's degree in "Construction" in 2015 was 96%, in 2016 – 86%. The percentage of employed graduates of the Master's degree programme in "Construction" in 2015 was 82%, in 2016 – 83%.

## Learning resources

Development of electronic resources in FEFU's Library provides for the completeness, relevance and availability of information on the results of laboratory, educational and research activity of the University. The on-line catalogue of FFEU Library contains over 710 thousand bibliographic records. In addition to the Library stock, it contains information from external on-line catalogues, such as Lan, Student Consultant, IPRbooks, INFRA-M; the access to these catalogues was purchased in order to ensure the academic process; research development of FEFU is provided for by accessing the on-line resources of Thomson Reuters, Elsevier, EBSCOhost, Springer, Nature journal, etc.).

## Research activity

The teachers of the Department of Construction and Real Estate Management and Department of Hydraulic Engineering and Theory of Construction are actively involved in research activities. In the recent 3 years, they have published over 100 articles in peer-reviewed journals. The faculty members take an active part in international, Russian and regional conferences with presentations both at plenary and sectional meetings.

## Academic mobility of students

Regular and consistent work in the student involvement in research activity is organised at the Department. Students take an active part in the conferences of different levels: regional, national and International.

The students also have an opportunity to be educated in Heilongjiang University of Technology and Harbin Institute of Technology.

## International projects

In 2015, FEFU joined the International Network University of the Arctic (UArctic) that unites 170 universities and educational institutions. In 2016 FEFU completed the order of DSME Company (Korea) for research in «Ice Abrasion of Marine Engineering Structures».

In September, 2016, FEFU and Harbin Institute of Technology established the Polar Engineering Center for developing ice-resistant platforms for the Arctic zones in Russia and offshore zones in the Yellow Sea; it also conducted research into the durability of concrete and reliability of engineering structures in the Polar zone as well as ice impact on vessels.



## EXTERNAL REVIEW PANEL



**Shuguang Liu** (China)

Review Chair, international expert

*Ph.D. in Geography, Professor of the Department of Hydraulic Engineering, Deputy director of Human Resources Department, Tongji University*

nominated by the Higher Education Evaluation Centre, HEEC



**Evgeny Korolev** (Russia)

Deputy Review Chair, Russian expert

*Doctor of Technical Sciences, Professor, Vice-rector, National Research Moscow State University of Civil Engineering*

nominated by the Guild of Experts in Higher Education



**Zheng He** (China)

Panel member, international expert

*Ph.D. in Engineering Mechanics, Professor of the Department of Civil Engineering, Dalian University of Technology*

nominated by the Higher Education Evaluation Centre, HEEC



**Olga Denisova** (Russia)

Panel member, representative of professional community, Russian Expert

*Director of the Far East Branch of PROEKTCENTER*

nominated by the department of Town Planning Policy of Primorsky kray



**Igor Nazariiev** (Russia)

Panel member, representative of students , Russian Expert

*2nd year student, School of Transport Processes and Technology, Vladivostok State University of Economics and Service*

nominated by Vladivostok State University of Economics and Service

## INFORMATION ON THE LEADING TEACHERS OF THE EDUCATIONAL PROGRAMME

### **Pulat Abbasov**

*Doctor of Sciences (Engineering), Professor, member of the Russian Academy of Architecture and Construction Sciences, Honoured worker of Science and Engineering of the RF*

### **Aleksandr Baenkhaev**

*Ph.D. in Engineering, Associate Professor of the Department of Hydraulic Engineering and the Theory of Constructions*

### **Aleksandr Bekker**

*Doctor of Sciences (Engineering), Professor, member of the International Academy of Engineering, corresponding member of the Russian Academy of Architecture and Construction Sciences*

### **Evgeny Borisov**

*Doctor of Sciences (Engineering), Professor of the Department of Mechanics and Mathematical Modeling*

### **Oleg Zhuchkov**

*Ph.D. in Engineering, Professor, Honoured Constructor of Russia, Honoured Professor of the International Association of Educational Civil Engineering Institutions of Construction, member of Academy of Housing and Public Utilities, Honoured worker of Higher Professional Education in Russia*

### **Tamara Zemlyanaya**

*Doctor of Sciences (Engineering), Professor, Professor of the Department of Construction Engineering Systems*

### **Tamara Ignatenko**

*Ph.D. in Engineering, Associate Professor of the Department of Construction and Real Estate Management*

### **Boris Krasnoshchek**

*Ph.D. in Engineering, Professor, Councilor of the Russian Academy of Architecture and Construction Sciences, Honoured worker of Higher Professional Education in Russia, corresponding member of the Academy of Housing and Public Utilities*

### **Natalya Makarova**

*Ph.D. in Engineering, Associate Professor, Senior Researcher of the Far Eastern Branch of the Russian Academy of Sciences, Institute of Automation and Control Processes*

### **Vladimir Safronov**

*Ph.D. in Engineering, Associate Professor, Associate Professor of the Department of Hydraulic Engineering and the Theory of Constructions*

### **Nikita Tsimbelman**

*Ph.D. in Engineering, Associate Professor, Head of the Department of Hydraulic Engineering and the Theory of Constructions*

### **Aleksandra Filipova**

*Doctor of Sciences (Social Sciences), Professor of the Department for Social Sciences*

## GOOD PRACTICE

### **Standard 1. Policy (goals, development strategy) and quality assurance procedures of a study programme**

Availability of certified quality management system in FEFU.

The compliance of the tasks of the policy delivery in the area of quality management with the strategy of FEFU development.

Stable cooperation with research and educational organizations of Russia and Asia-Pacific Countries.

Regular development of the quality of educational process on the basis of the results of internal audits of the departments.

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

The goals, objectives and strategies of the educational programmes correspond to the FEFU's mission.

Meeting the requirements of the professional standard "Head of Engineering Organization".

Elaboration of a new educational Standard at the Department of Construction and Real Estate Management in "Engineering" (08.03.01) in 2015. The standard was independently developed by FEFU; it has undergone external assessment and expertise in the Non-Commercial Partnership Guild of Experts in Professional Education.

### **Standard 3. Student-centered learning, teaching and assessment**

Organizing regular Winter School of FEFU to increase the popularity of the research activity and the results of scientific work.

Active application of research outcomes as an instrument for improving quality of educational process.

Efficient delivery of internship trainings, taking into account students' opinions and control of the results of trainings.

Provisions on the rating system of student performance assessment in FEFU programmes of higher education.

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

Organization of the career guidance system in FEFU, aimed at preparing and selection of applicants.

Availability at the official web-site of internal local regulations of the student admission rules both for Russian and foreign students.

Opportunity for graduates to obtain the Diploma Supplement, recognized in the universities abroad or foreign organizations.

Active cooperation of the university with major universities and research institutions, non-commercial organizations, and business-structures from the USA, Germany, Spain, Japan, South Korea, China and other countries.

Organization of International School ICE MECHANICS on the basis of School of Engineering. Among its participants there are students of Russian and foreign universities.

#### **Standard 5. Teaching staff**

High percentage of teachers with academic degrees and academic titles (the total amount involved in realization of the Bachelor's degree programme – 73.9%, in the Master's degree programme - 88%).

Availability of financial incentive for research work for the teaching staff of the School of Engineering.

Wide range of research activity, undertaken by the teaching staff.

Delivery of International projects and cooperation programmes with universities of Japan and China for the development of the mobility of teachers.

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

Providing the educational programme with sufficient material resources and facilities in accordance with the requirements of the programme (modern tools, equipment, computers, classrooms, laboratories).

The School of Engineering has established an R&D Center Arctica aimed at ensuring the students' active participation in research activities.

Provision of necessary facilities for educational and research activity of students.

The sufficient library stock with more than 2 mln copies of research, education, methodological, fiction in Russian and foreign languages.

#### **Standard 7. Collection, analysis and use of information for managing the study programme**

Availability of a united information network "Electronic University", which includes publicly available sources and personal profiles.

The members of FEFU Student Council take part in designing and delivery of the programmes, aimed at the improvement of the educational process.

#### **Standard 8. Public information**

The information about the School of Engineering and the educational programmes, delivered by the university, offered at the official web-site of the university is complete and relevant.

Active use of different social sites for the information support of stakeholders and distribution of newsletters in the foreign mass media databases to attract foreign applicants.

#### **Standard 9. On-going monitoring and periodic review of programmes**

Regular monitoring and periodic assessment of educational programmes quality.

Available feedback mechanism from the stakeholders of the educational process.

**Standard 10 Cyclical external quality assurance of study programmes**

State accreditation of the main educational programmes under review.

Successful participation in the procedures of international public accreditation.

Participation of students in the Federal On-line Exam for Bachelor's programme graduates.

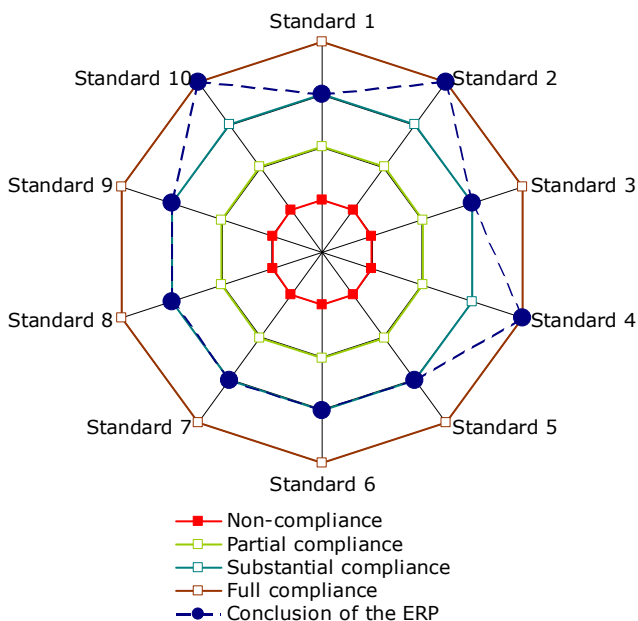
## RECOMMENDATIONS

1. To form the Council of employers for the educational programmes undergoing accreditation. Regular assessment of the delivery and content quality of the educational programmes in the field of study "Construction" should be one of the functions of the Council members.
2. To increase intensity of the external assessment of the quality of educational programmes.
3. To develop and implement a document, determining the objectives of the educational programme, expected learning outcomes, and required resources.
4. The educational programme of HEI should clearly take into account the requirements of the professional standards.
5. To develop the academic mobility system and expand the involvement of foreign experts and professors.
6. To enlarge the number of elective disciplines, chosen by students, in the educational programmes undergoing accreditation for forming individual learning paths.
7. To organize the system of internal competitive selection for sending the best students to international and Russian competitions with financial support for innovative research work.
8. To reintroduce carrying out the Summer Schools "I am a constructor".
9. To organize events for attracting young lecturers and teachers of the Departments to the educational process delivery.
10. To widen the range of research topics of the educational programmes undergoing accreditation.
11. To increase participation in international competitions with the financial support for innovative research work.
12. To provide the opportunities of further vocational education at the acting construction facilities for lecturers, especially those who deliver the specialty courses.
13. To develop the motivation system for students in the field of study "Construction" (08.03.01) to take part in international competitions for financial support of research.
14. To find an opportunity of furnishing rooms for organizing additional research laboratories for the educational programmes, undergoing accreditation.
15. To organise additional information support on the programmes of academic mobility and academic rights of students (additional mailing for personal e-mails or/and personal profiles, etc.).
16. To improve the efficiency of the system of collecting, monitoring and analysis of information on the educational programme.
17. To develop and implement an additional section at the FEFU official web-site for further collecting and analysis of information for all the

participants of the educational process and external stakeholders to improve the organization and the content quality of the educational programmes.

18. To develop and implement advertising of the educational programmes and to widen the information system for the public on achievements, perspectives of the development of the educational programmes undergoing accreditation.

## DISTRIBUTION DIGRAM OF THE EXTERNAL REVIEW OUTCOMES



- Standard 1. Policy (goals, development strategy) and quality assurance procedures of a study programme
- 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 study programme
- Standard 8. Public information
- Standard 9. On-going monitoring and periodic review of programmes
- Standard 10. Cyclical external quality assurance of study programmes



## CONCLUSION OF THE EXTERNAL REVIEW PANEL

Based on the self-evaluation report analysis, documents and data submitted, interviews with the representatives of the professional communities, students, post graduates, doctor-degree students, staff and administration of the educational institution the External Review Panel came to the conclusion that the cluster of educational programmes in the field of study "Construction" (08.03.01, 08.04.01), delivered by Far Eastern Federal University **substantially complies** with the standards and criteria of public accreditation of the NCPA and the HEEC.

The External Review Panel recommends the National Accreditation Board and Accreditation Council HEEC to accredit the cluster of educational programmes in the field of study "**Construction**" (08.03.01, 08.04.01), delivered by Far Eastern Federal University for **the period of 6 years.**

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

Time	Events	Participants	Venue
<b>6 December, Tuesday</b>			
19.00 - 20.30	The first meeting of the Panel		Building B, room B 903
<b>7 December, Wednesday</b>			
09.30	Arriving at FEFU		Building B
09.30 - 10.00	Internal meeting of the Panel	ERP	Building B, room B 903
10.00 - 11.00	<b>Meeting with the University administration and persons in charge of accreditation</b>	Rector, Vice-Rectors, persons in charge of accreditation, ERP	Building A
11.00 - 11.30	Guided tour on the University premises (visiting lecture rooms, library, etc)	ERP	
11.30 - 13.00	Visiting laboratories	ERP	Building L
13.00 - 14.00	Lunch		Building B
14.00 - 15.00	<b>Meeting with the heads of educational structures</b>	ERP, Director of School of Engineering, Deputy Directors	Building C, room C 634
15.00 - 15.30	Internal meeting of the Panel	ERP	Building C, room C 524
15.30 - 16.30	<b>Meeting the heads of Departments</b>	ERP, Heads of degree-granting departments	Building C, room C 633
16.30 - 17.00	Work with the documents	ERP	Building C, room C 524
17.00 - 18.00	<b>Meeting the representatives of the professional community</b>	ERP, the representatives of the professional community	Building C, room C 633
18.00 - 18.30	Internal meeting of the Panel	ERP	Building C, room C 524
Time	Events	Participants	Venue

Time	Events	Participants	Venue
<b>8 December, Thursday</b>			
09.45	Arriving at FEFU		Building C, room C 524
10.00 -11.00	<b>Meeting with students</b>	Students, ERP	Building C, room C 633
11.00 -11.30	Internal meeting of the Panel	ERP	Building C, room C 524
11.30 -12.30	<b>Meeting with teachers</b>	Teachers, ERP	Building C, room C 633
12.30 -13.00	Internal meeting of the Panel	ERP	Building C, room C 524
13.00 -14.00	Lunch		Building B
14.00 -15.00	<b>Meeting with the representatives in charge of quality of education</b>	Manager of quality department, Deputy Managers, ERP	Building B, room B 903
15.00 -17.00	Work with the report/ Attending classes	ERP	Building C, room C 524
17.00 -18.00	<b>Meeting with alumni</b>	Alumni, ERP	Building C, room C 633
18.00 -18.30	Internal meeting of the Panel	ERP	Building C, room C 524
<b>9 December, Friday</b>			
08.45	Arriving at FEFU		Building B
09.00 -12.00	Internal meeting of the panel: making preliminary conclusions of the site visit, preparing the oral commission report on the results	ERP	Building B, room B 903
12.00-13.00	Lunch		Building B
13.00 -14.00	<b>Final meeting of External Review Panel with the University Administration</b>	ERP, FEFU administration, directors of Schools, heads of departments, teachers, students	Building A
14.00	Excursion around the city		