SUMMARY REPORT

on international public accreditation of the study programme

«Information Systems and Technologies» (09.03.02)

delivered by Vladivostok State University of Economics and Service

2019

While preparing this Summary Report we used information from the Self-Evaluation Report and the Report on the External Review of the study programme «Information Systems and Technologies» (09.03.02) delivered by Vladivostok State University of Economics and Service.

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

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GENERAL INFORMATION ON EDUCATIONAL INSTITUTION

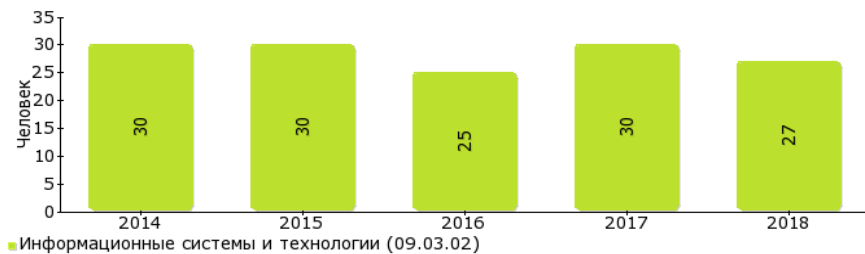|	
Full name of the educational institution	*Federal State Budgetary Educational Institution of Higher Education «Vladivostok State University of Economics and Service»*
Founders	*Ministry of Science and Higher Education of the Russian Federation*
Year of foundation	*1967 — Far Eastern Institute of Consumer Services* *1995 — Far Eastern State Technological Institute* *1996 — Vladivostok State University of Economics and Service* *2002 — State Educational Institution of Higher Professional Education «Vladivostok State University of Economics and Service»* *2011 — Federal State Budgetary Educational Institution of Higher Professional Education «Vladivostok State University of Economics and Service»* *2015 — Federal State Budgetary Educational Institution of Higher Education «Vladivostok State University of Economics and Service»*
Location	*41, Gogolya Str., Vladivostok, 690014*
Rector	*Tatiana Terentieva, Doctor of Economic Sciences, Professor*
License	*Series 90Л01 №8830 reg. № 1799 of 07.12.2015 permanent*
State accreditaiton	*Certificate of State Accreditation Series 90A01 № 1963, reg. №1869 of 25.04.2016 valid till 21.01.2021*
Number of students	*7752* *of whom:* *4452 are full-time students* *326 are part-time students* *2974 study in absentia*

INFORMATION ABOUT THE STUDY PROGRAMMES UNDERGOING ACCREDITATION

Educational programmes	*«Information Systems and Technologies» (09.03.02)*
Level of training / Standard period of training	*Bachelor's Degree Programme / 4 years*
Structural subdivision (Head)	*Institute of Information Technologies (Karina Shakhgeldian, Doctor of Engineering Sciences, Professor)*
Graduate departments (and their respective heads)	*Department of Information Technologies and Systems (Elena Kiikova, Candidate of Economic Sciences, Associate Professor)*
Dates of Review	*May 21-23, 2019*
Person responsible for accreditation from the HEI	*Yulia Chebova, Director of the Department for Academic and Educational Activities*

SAMPLING RESULTS OF THE PROJECT "THE BEST STUDY PROGRAMMES OF INNOVATIVE RUSSIA"

Indicators	2019
Study programme «Information Systems and Technologies» (09.03.02)	
Number of the given programmes in the RF	211
Number of higher educational institutions to offer the given programmes	211
Number of programmes – winners of the project (% from total number of these programmes offered in the RF)	45 (24,2%)
Primorski Krai	
Number of the given programmes offered in the region	2
Number of programmes – winners of the project (% from total number of these programmes offered in the region)	1 (50%)
Number of higher educational institutions and branches in the region	33
Total number of programmes offered in the region	423
Total number of programmes – winners of the project (% from total number of these programmes offered in the region)	36 (8,5%)

REFERENCE DATA ON STUDENT ENROLLMENT FOR PROGRAMME

Информационные системы и технологии (09.03.02)

ACHIEVEMENTS OF THE STUDY PROGRAMMES

Quality of implementing the study programme

Management of the University and the study programme is carried out in accordance with the quality management system. The quality of the study programmes is provided by high qualification of the teaching staff and its systematic improvement; research activities of the teaching staff and students; wide international ties and international mobility of students; close cooperation with employers during practical training of students; development and continuous improvement of teaching materials, including the electronic training courses in the Moodle system; use of innovative educational technologies (case-methods, business games, etc.); use of international practice on development of paraprofessional skills (project activities, elements of WorldSkills). High quality of delivery of the educational programmes is proved by students' success at the competitions and olympiads and high demand for the graduates.

Provision of up–to-date education

The issues of improving training of students and content of the educational programmes are discussed at the meetings of the Department. The relevance of education is provided by annual renewal and correction of the educational programmes, curricula and programmes of disciplines in accordance with the requirements of professional standards and employers' recommendations. The University maintains constant communication with the Institute of Automation and Control Processes of the Far Eastern branch of the Russian Academy of Sciences. The requirements to delivery of the educational programmes defined in the section 7 of the Federal State Education Standards of Higher Education in the field of study «Information Systems and Technologies» are fully met when developing the educational programme. The basic part of the training courses includes the list of disciplines defined by the Federal State Educational Standard of Higher Education. The elective courses include disciplines defined by the University with the account of the requirements of employers, students and peculiarities of the region development.

Teaching staff

The teaching staff is highly qualified, does research and has experience for qualitative delivery of the educational programmes in the field of study «Information Systems and Technologies». The teaching staff comprises 51 people that corresponds to the objectives and provides education quality. The percentage of regular teachers is 74,5%. The percentage of teachers having academic degree is 64,52%; the percentage of people having practical experience is 12,4%; 99,96% of people has basic education and teaching experience of 20 years on

overage. 7 people have honorary titles and awards. The teachers regularly serve internships and professional development programmes.

Independent assessment of student learning outcomes

Independent assessment of training quality is carried out with the help of state and public accreditation of the educational programmes; by participation in different rankings; participation of students in the championship «WorldSkills Russia», different olympiads and competitions, feedback from employers, review of the educational programmes, character references and letters of gratitude. According to Interfax ranking, the University is among 50 best Russian higher education institutions on internationalization and among five best economic higher education institutions on quality of education and employability according to the International ranking of HEIs ARES-2019. In 2015 the University passed the procedure of state accreditation and in 2013 – the procedure of public accreditation by the Agency for Quality Assurance in Higher Education and Career Development (AKKORK). In 2017-2018 the students took part in the Federal Internet Exam for Bachelors in the field of study «Information Systems and Technologies» and showed the results corresponding to bronze and silver certificates. In 2018 4th year students participated in the project of the autonomous non-profit organization "Informexpertiza" on realization of the model of independent assessment of quality of higher education and successfully passed testing on the discipline «Databases».

Educational resources

The educational process at the University is provided by regularly renewed material and technical resources. All buildings are equipped with the account of availability for people with disabilities, classrooms are provided with multimedia equipment (projection device, presentation screens, document camera, LCD display, videoconference device) with an access to the Internet and electronic and educational environment of the University. Special software programmes used in the educational process are installed on the computers. There are sports facilities; special premises are equipped for educational and creative processes. The Resource Information and Analytical Centre (РИАЦ) of the University fully provides the educational process with traditional and electronic information resources. Great attention is paid to e-learning when organizing the educational process. Nowadays 18 electronic courses are used in the Moodle system.

Research activity

The teachers and students do research activities. For the last four years 8 monographs and 140 articles were published, 70 of them were published in peer-reviewed Russian research journals and 48 articles were published in the journals of Scopus and Web of Science. More than 500 articles were published following students' reports at symposiums,

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conferences and seminars, including about 100 foreign ones. For the last 4 years the teaching staff did 15 research works, the results of which are actively used in the educational process. The works include 2 grants of the Russian Foundation for Basic Research.

In 2015-2019 teachers and researchers of the Department of Information Technologies and Systems received 5 patents and 16 certificates on state registration of programmes for computers and databases. 23 applications for intellectual property rights were made, 3 of which were on the inventions, 3 – on useful models, 2 – production units, 15 – programmes for computers. 5 license agreements on the use of intellectual property items were signed.

Academic mobility of students

The following types of international academic mobility of students are successfully used: student exchange programmes, internships, participation in specialized exhibitions, forums, and conferences. In 2018 a student of the group БИС-16 studied at the University of West Attica (Athens) in course of the programme ERASMUS + International Credit Mobility. Students from Uzbekistan, Congo and Laos study at Vladivostok State University of Economics and Service.

Employability of graduates

The Regional centre «Start-Career» works at the University to promote employability of graduates and students. The analysis of employability rate shows that the graduates are in stable demand on the labour market. According to the annual internal monitoring of the University, the majority of the students find jobs during the first three months after graduation, including profession-related jobs. In 2017 and 2018 the percentage of employed graduates was 100%.

International projects

International cooperation of the teachers with foreign partners is carried out through joint conferences, olympiads and lectures. The University closely cooperates with Heilongjiang Bayi Agricultural University, Daqing. In 2019 the Russian Centre of Science and Culture in cooperation with VSUES held the Informatics Olympiad for pupils at Hoàng Văn Thụ High School (Hòa Bình, Vietnam) to find talented graduates to study in Russia.

EXTERNAL REVIEW PANEL

Zang Binyu (Shanghai, China)

Review Chair, foreign expert

> *Doctor, Professor, School of Software, Shanghai Jiaotong University, member of the Software Engineering Discipline Review Group of the Academic Degrees Committee of the State Council of China*

A nominee of the Higher Education Evaluation Center of the Ministry of Education (HEEC)

Rimma Akhmetsafina (Moscow, Russia)

Deputy Review Chair, Russian expert

> *Candidate of Engineering Sciences, Associate Professor, Deputy Head of the Department of Software Engineering, Faculty of Computer Science, Head of the Internships and Projects Centre, National Research University Higher School of Economics, member of the Guild of Experts in Higher Education*

A nominee of the Guild of Experts in Higher Education

Guo Yuchun (Beijing, China)

Panel member, foreign expert

> *Doctor, Professor, School of Electronics and Information, Beijing Jiaotong University, member of the Institute of Electrical and Electronics Engineers (IEEE), member of the Institute of Electronics, Information and Communication Engineers (IEICE)*

A nominee of the Higher Education Evaluation Center of the Ministry of Education (HEEC)

Sergei Moiseev (Vladivostok, Russia)

Panel member, representative of professional community

> *Candidate of Engineering Sciences, Associate Professor, Director General of the company «Sozvezdie»*

A nominee of the company «Sozvezdie»

Dmitrii Kapitan (Vladivostok, Russia)

Panel member, representative of students

> *4th year student, field of study «Information Systems and Technologies», School of Natural Sciences, Far Eastern Federal University*

A nominee of Far Eastern Federal University

INFORMATION ON THE LEADING TEACHERS OF THE EDUCATIONAL PROGRAMMES

Elena Kiikova

Candidate of Economic Sciences, Associate Professor, Head of the Department of Information Technologies and Systems, member of the Academic Council, member of the Personnel Commission

Karina Shakhgeldian

Doctor of Engineering Sciences, Professor, Director of the Institute of Information Technologies, research supervisor of several applied projects connected with software support of intelligence systems supported by the Russian Foundation for Basic Research

Vladimir Krivosheev

Doctor of Engineering Sciences, Professor of the Department of Information Technologies and Systems, supervisor of several research projects upon the requests of the Ministry of Science and Higher Education

Viktor Griniak

Doctor of Engineering Sciences, Associate Professor, Professor of the Department of Information Technologies and Systems

Sergei Semkin

Candidate of Physical and Mathematical Sciences, Associate Professor of the Department of Information Technologies and Systems, leading researcher of the Laboratory of Fundamental and Applied Physics

Roman Kuznetsov

Candidate of Engineering Sciences, Associate Professor of the Department of Information Technologies and Systems, Head of the Laboratory of Technical Diagnosis of the Institute of Automation and Control Processes of the Far Eastern branch of the Russian Academy of Sciences

Yuri Levashov

Associate Professor of the Department of Information Technologies and Systems

Dmitri Nazarov

Candidate of Engineering Sciences, Associate Professor of the Department of Information Technologies and Systems, senior researcher of the School of Biomedicine of Far Eastern Federal University

Aleksei Borshevnikov

Assistant of the Department of Information Technologies and Systems, software engineer of the Far Eastern Regional Education and Research Centre for Information Security of the School of Natural Sciences of Far Eastern Federal University

Oksana Gnezdechko

Candidate of Philological Sciences, Associate Professor of the Department of Cross-Cultural Communication and Translation Studies, member of the Far Eastern English Language Teachers Association (FEELTA)

Natalia Golodnaia

Associate Professor of the Department of Mathematics and Modeling

COMPLIANCE OF THE EXTERNAL REVIEW OUTCOMES WITH THE STANDARDS

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

Compliance with the standard: **substantial compliance**

Good practice:

The University has the documented quality assurance policy.
The Development strategy of the University till 2023 is in place.

Areas for improvement:

The University should efficiently involve teachers, students and employers in the development and introduction of the quality assurance policy and the development strategy of the University and Institute.

The Institute Development programme should be designed and published on the basis of the University Development programme.

The University should develop metrics for the evaluation of the Institute Development programme.

STANDARD 2. Design and approval of programmes

Compliance with the standard: **substantial compliance**

Good practice:

The educational programme is approved and publically available; it contains the goals, expected learning outcomes, etc.

The procedure for the development and renewal of the educational programme is approved.

The applied Bachelor-degree educational programme makes good effort on practice-based training.

Areas for improvement:

The University should develop the procedures for the involvement of all stakeholders (teachers, students, employers) in the development and correction of the educational programme.

The requirements of the professional standard "Software Test Engineer" (approved by the Ministry of Labour of the Russian Federation Order No 225н of 11 April 2014) should be fully taken into account when developing the educational programme.

STANDARD 3. Student-centred learning and assessment

Compliance with the standard: **substantial compliance**

Good practice:

The University has the documents regulating all aspects of the educational process.

The University has a wide range of information systems to carry out and support the educational process.

The practice-based approach to education is used in the applied Bachelor's programme.

The surveys of students on the quality of teaching are regularly conducted.

A point-rating system is used for the evaluation of students' learning outcomes.

Areas for improvement:

The results of students' surveys should be taken into account when designing the educational programme, curricula and holding competitions for teachers.

The system for evaluation of students' competences should be developed.

The mechanisms of external quality evaluation of the pools for assessment tools should be used; test materials developed for different monitoring forms should be certified.

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

Compliance with the standard: **substantial compliance**

Good practice:

There is systemic enrollment work – open house days, courses for school students, excursions to the laboratory facilities of the University, student and teacher presentations at local secondary schools.

The University organizes an IT Olympiad for enrollees, regional and interregional Olympiads for school students, regional rounds of national academic olympiads.

Students enrolled in the programmes take part in national and international Olympiads and hackatons, Federal Internet examination for bachelor students, project work, Worldskills contests.

Admission rules for national and international students as well as recognition of study periods and prior education is regulated by the local regulatory acts.

Areas for improvement:

It is recommended to provide students with incentives to foster their involvement in research and academic schools (winter school, summer school …) conducted by educational institutions, IT companies in Russia and abroad, conferences, seminars, etc.

It is recommended to select students for academic mobility and offer them enrollment in field-specific study programmes at a HEI abroad.

It is necessary to develop the system of recognition of courses completed at a foreign partner university.

STANDARD 5. Teaching staff

Compliance with the standard: **full compliance**

Good practice:

There are documented procedures and clear criteria for teaching staff recruitment.

There is a system of financial and non-financial incentives for teachers.

The teaching staff undergo internships at IT enterprises of the region.

There are grant-supported research projects.

The academic resources are regularly updated to include the most recent research outcomes.

The members of the teaching staff register intellectual property rights on their inventions.

Areas for improvement:

It is advisable to develop international cooperation and involve the members of the teaching staff in international projects.

It is recommended to foster inbound and outbound academic mobility of the teaching staff. For example, engage visiting lecturers from the leading HEIs of Russia and abroad to deliver lectures, short courses, workshops, etc. It is advisable to employ on-line communication technology to deliver lectures, workshops, etc., by the members of the teaching staff outside VSUES.

STANDARD 6. Learning resources and student support

Compliance with the standard: **full compliance**

Good practice:

VSUES provides all the necessary facilities, well-furnished classrooms and state-of-the-art laboratories to support educational process.

The laboratory are equipped with state-of-the-art facilities used for academic and research purposes.

There are decent conditions for student project work.

The University has a well-developed infrastructure. There is a campus with academic buildings, sports facilities, and grounds for cultural events.

Modern technologies and software are used in the educational process.

Areas for improvement:

It is recommended to improve the system of collecting student feedback not only related to the quality of the courses taught, but also on the conditions of studies and organization of the educational process.

It is advisable to publish information on academic mobility programmes in the relevant fields of study.

STANDARD 7. Collection, analysis and use of information for managing the study programme

Compliance with the standard: **substantial compliance**

Good practice:

Availability of a developed information system for managing all spheres of University's performance.

Areas for improvement:

A system for collecting and analyzing feedback from students and staff should be developed for effective management of the study programme.

The collected information and decisions made on its basis should be made public for all stakeholders: students, teachers, supporting staff.

STANDARD 8. Public information

Compliance with the standard: **substantial compliance**

Good practice:

The University site publishes complete up-to-date information about the University and the study programme under accreditation in the Russian language.

Social networks Instagram and Facebook are used for informing the public.

VSUES is in the 50 top Russian universities when it comes to internationalization, according to the 2018 National University Ranking (2018 NUR) published by Interfax news agency.

Areas for improvement:

Full information about VSUES degree programmes under consideration should be available on the VSUES website in English and Chinese.

More information on employment of VSUES graduates, their success stories, and interviews should be available on the website.

Information about partner–companies and different ways of cooperation with them should be available on the web-site of the Department and the study programme.

STANDARD 9. On-going monitoring and periodic review of programmes

Compliance with the standard: **substantial compliance**

Good practice:

The degree programmes are regularly reviewed and updated to account for the requirements of employers and regional labor market in order to enhance the quality of graduates' degrees.

Practice-based approach contributes to enhancing the cooperation with employers.

The centre for monitoring and prognosticating is functioning at the University.

The regulating documents have been developed and are used.

Areas for improvement:

The procedures for periodic review of the study programme by students, graduates, teaching staff and employers should be enhanced.

The findings of student surveys on their satisfaction with the conditions and organization of the education process should be made available to the Institute, major Departments and all stakeholders.

The results of the surveys should be used when reviewing and updating the programme.

STANDARD 10. Cyclical external quality assurance of study programmes

Compliance with the standard: **full compliance**

Good practice:

External independent quality assurance procedures are carried regularly (professional-public accreditation, state accreditation,

cooperation with employers in the form of supervising work placement and participating in state examination boards).
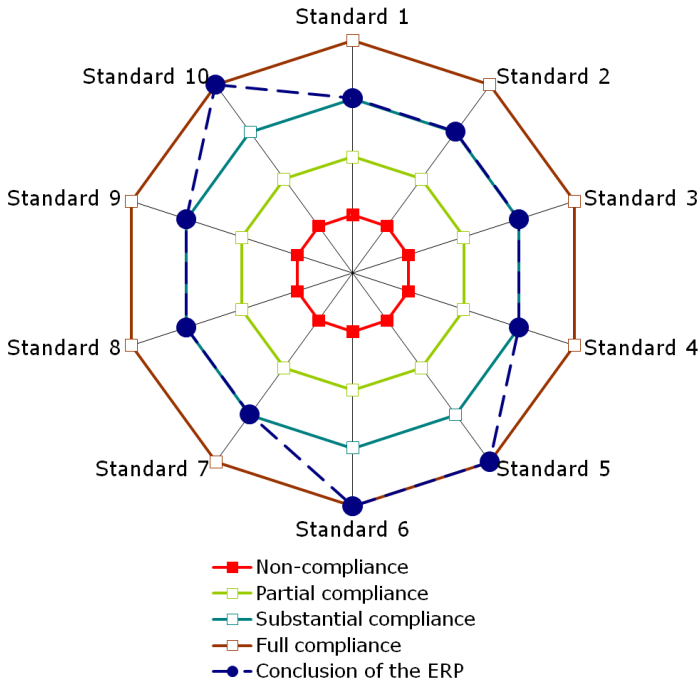
The programme is listed among the best programmes of innovative Russia in 2018.

Areas for improvement:

Employers should be more involved in evaluating the study programme through regular surveys, round tables, etc.

A corrective action plan to follow up the results of external evaluation of the degree programmes should be further refined and made available to all stakeholders.

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 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 the External Review Panel has come to the conclusion that the study programme «Information Systems and Technologies» (09.03.02) **substantially** complies with the standards and criteria of public accreditation of the National Centre for Public Accreditation.

The External Review Panel recommends that the National Accreditation Board accredit the study programme «Information Systems and Technologies» (09.03.02) delivered by Vladivostok State University of Economics and Service for the period of **six years**.

SCHEDULE OF THE SITE VISIT OF THE EXTERNAL REVIEW PANEL

Time	Activity	Participants	Venue
May 21, Tuesday			
8.45	Arrival at the University		Building 1, 41, Gogolya Str.
09.00 — 11.00	First meeting of the External Review Panel		Small Hall, Rector's Office, Building 1
11.00 — 12.00	**Meeting of the ERP with the University administration and people responsible for accreditation**	Rector, Vice-Rectors, people responsible for accreditation, ERP	Biriuzovy Zal, Rector's Office, Building 1
12.00 — 13.30	Tour of the University (visiting classrooms, library, etc.)	ERP	Buildings 1, 2, 3, 8
13.30 — 14.30	Lunch		
14.30 — 15.00	Internal meeting of the Panel	ERP	Room 1530, Building 1
15.00 — 16.00	**Meeting with Institute Director**	Institute Director, ERP	Room 1508, Building 1
16.00 — 17.00	Work with documents	ERP	Room 1530, Building 1
17.00 — 18.00	**Meeting with representatives of professional community**	Employers, ERP	Room 1508, Building 1
18.00 — 18.30	Internal meeting of the Panel	ERP	Room 1530, Building 1

Time	Activity	Participants	Venue
May 22, Wednesday			
9.45	Arrival at the University		Building 1, 41, Gogolya Str.
10.00 — 11.00	**Meeting with Head of Department**	Head of Department, ERP	Room 1508, Building 1
11.00 — 11.30	Internal meeting of the Panel	ERP	Room 1530, Building 1
11.30 — 12.30	**Meeting with students**	Students, ERP	Room 1508, Building 1
12.30 — 13.00	Work with documents, assessment forms	ERP	Room 1530, Building 1
13.00 — 14.00	Lunch		Restaurant "Avanta"
14.00 — 15.00	**Meeting with teachers**	Teachers, ERP	Room 1508, Building 1
15.00 — 15.30	Work with documents/ attending classes (optional)	ERP	Room 1530, Building 1
15.30 — 16.30	**Meeting with graduates**	Graduates, ERP	Room 1508, Building 1
16.30 — 18.30	Work with documents, assessment forms	ERP	Room 1530, Building 1
May 23, Thursday			
08.45	Arrival at the University		Building 1, 41, Gogolya Str.
09.00 — 12.00	Internal meeting of the Panel: discussion of preliminary results of the site visit, preparation of the oral report of the panel	ERP	Room 1530, Building 1
12.00 — 13.00	**Closing meeting of the External Review Panel with the representatives of the University**	ERP, University administration, Heads of the Graduate Departments, teachers, students	Hall of the Academic Council, Rector's Office, Building 1
13.00 — 14.00	Lunch		Restaurant "Avanta"
	Departure		