SUMMARY REPORT

on public accreditation of the cluster of educational programmes in

«Applied Informatics» (09.03.03)

delivered by Rubtcovskiy Institute (branch)
of Altai State University

2021

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 «Applied Informatics» (09.03.03) delivered by Rubtcovskiy Institute (branch) of Altai State University.

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

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GENERAL INFORMATION ON EDUCATIONAL INSTITUTION

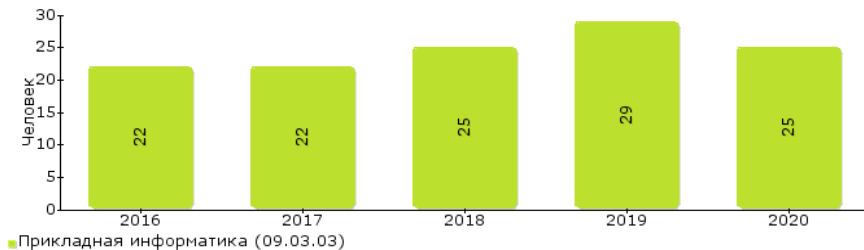|	
Full name of the educational institution	*Rubtcovskiy Institute (branch) of the Federal State Budgetary Educational Institution of Higher Education «Altai State University»*
Founders	*Russian Federation*
Year of foundation	*1996 — branch of Altai State University in Rubtcovsk* *2006 — Rubtcovskiy Institute (branch) of the State Educational Institution of Higher Professional Education «Altai State University»* *2011 — Rubtcovskiy Institute (branch) of the Federal State Budgetary Educational Institution of Higher Professional Education «Altai State University»* *2016 — Rubtcovskiy Institute (branch) of the Federal State Budgetary Educational Institution of Higher Education «Altai State University»*
Address	*200Б, Pr. Lenina, Rubtcovsk, Altai region, 658225*
Rector	*Dmitrii Reva*
License	*Series 90П01 №43541 reg. № 2296 of 29.07.2016 permanent*
State accreditaiton	*Certificate of State Accreditation Series 90А01 № 17539, reg. №3079 of 30.04.2019 valid till 30.04.2025*
Number of students	*1596* *of whom:* *1134 are full-time students* *111 are part-time students* *351 study in absentia*

INFORMATION ON THE STUDY PROGRAMMES UNDERGOING ACCREDITATION

Educational programmes	*«Applied Informatics» (09.03.03)*
Level of training / Standard period of training	*Bachelor's degree programme / 4 years*
Structural subdivision (Head)	*Rubtcovskiy Institute (branch) of Altai State University (Dmitrii Reva)*
Graduate departments (and their respective heads)	*Department of Mathematics and Applied Informatics (Olga Riazanova)*
Dates of Review	*November 26-27, 2020*
Person responsible for accreditation from the HEI	*Ekaterina Fediukova, expert in educational and methodological work of the Education Quality Sector*

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

Indicators	2020
Cluster of educational programmes «Applied Informatics» (09.03.03)	
Number of the given programmes in the RF	361
Number of higher educational institutions to offer the given programmes	361
Number of programmes – winners of the project (% from total number of these programmes offered in the RF)	57 (16%)
Altai region	
Number of the given programmes offered in the region	5
Number of programmes – winners of the project (% from total number of these programmes offered in the region)	1 (20%)
Number of higher educational institutions and branches in the region	21
Total number of programmes offered in the region	449
Total number of programmes – winners of the project (% from total number of these programmes offered in the region)	55 (12%)

REFERENCE DATA ON STUDENT ENROLLMENT FOR PROGRAMME

Прикладная информатика (09.03.03)

ACHIEVEMENTS OF THE STUDY PROGRAMMES

Quality of delivering the study programmes

The quality of educational programmes is ensured by high qualification of the teachers and its regular improvement; research activities of the teachers and students; close cooperation with employers; development and continuous improvement of educational and methodological materials, including the electronic ones; use of innovative educational technologies (case methods, business games, portfolio method, etc.); development of material and technical and informational resources.

Provision of up–to-date education

Development and delivery of practice-oriented educational programmes is in place. The University closely cooperates with employers on the issues of design of the educational programmes and evaluation of education quality through partner relations of the Institute with enterprises and organizations.

The up-to-date content of education is ensured by annual renewal and adjustment of the educational programmes, curricula and programmes of disciplines in compliance with the changes in the federal and regional legislation, their agreement with employers and stakeholders with the account of international experience. 23 cooperation agreements were signed.

Teaching staff

The teaching staff comprises 21 teachers (regular and external), 12 of them (57%) are Candidates and Doctors of Sciences; 4 people (19%) have work experience in information and communication technologies.

For 2016-2020 the teachers published 4 textbooks, 78 study guides, and 15 monographs.

Independent assessment of student learning outcomes

All programmes under review successfully passed independent evaluation of education quality against accreditation teaching measuring materials in terms of the project «Federal Internet Exam in Higher Education». The educational programme «Applied Informatics in Jurisprudence» ranked 3rd in the competition of innovative educational programmes.

During state accreditation (February – March 2019) the students of the educational programmes under review successfully passed independent evaluation of training quality.

Rubtcovskiy Institute involves employers and (or) their associations, other legal and (or) private entities when carrying out regular internal evaluation of education quality.

Educational resources

The educational programmes are provided with material and technical resources in compliance with the requirements. The educational process is carried out in 2 academic buildings.

The Institute has:
- 7 stationary computer classes (laboratories) for practical training. Each room has 15 workplaces.
- Language room with 15 workplaces equipped with a projection device to demonstrate interactive materials.
- 11 lecture rooms equipped with a projection device to demonstrate interactive materials.
- 1 room equipped with SMART interactive systems, which help to carry out interactive classes.
- 1 computer classroom for independent work of students.

The research library of ASU, which is one of the largest libraries of the Altai region, carries out library and information services of educational, research and other activities of Altai State University.

Research activity

In 2016-2020 the teachers published 4 textbooks, 78 study guides, and 15 monographs. In total, 272 research works were published, 25 of them in HAC journals, 237 works – in RSCI journals, and 10 works in journals of Scopus and Web of science.

Research events are regularly held. Every year the teachers take part in grant projects.

Academic mobility of students

International cooperation is developed at ASU. Rubtcovskiy Institute also signed agreements with foreign organizations: Serikbaev East Kazakhstan State Technical University; Kazakh Innovation University; Vladimir Dal Lugansk National University (Lugansk); Goethe-Institute (Novosibirsk).

Employability of graduates

Employability of graduates is more than 80%. The graduates are in demand in Altai and other Russian regions.

International projects

E. Kiribaev, senior teacher of the Department of Mathematics and Applied Informatics, served internship in a Kazakh HEI.

International research seminars, business meetings, visits to HEIs of neighboring countries are regularly held.

Rubtcovskiy Institute is the first «green HEI» in Altai. The interregional ecological public organization «EKA» opened a regional office on the basis of the Institute.

The students served an ecological internship in Germany and participated in a foreign academic mobility programme (India) on ecology (V. Dobosh, L. Logunova); they served a 6-week internship Project ECO Village - Urban Forestry in Chennai, India; the students also participated in the Youth ecological programme (RYEP), which provides for a long-term ecological internship to the USA.

High outcomes in implementation of the principles of sustainable development (1st place in the ranking «Green HEIs in Russia») allowed the Institute to remarkably improve its position for 95 positions in the world ranking of «eco-friendly» universities in the world (UI GreenMetric Ranking of World Universities 2019) in comparison with 2018.

The teachers regularly take part in international conferences.

In 2020 the Institute cooperated with the Kazakh Innovation Academy (Semey, Kazakhstan) on internships of the teachers of the Department of Mathematics and Applied Informatics.

EXTERNAL REVIEW PANEL

Akkyz Mustafina (Almaty, Kazakhstan)

Review Chair, foreign expert

> *Candidate of Engineering, Associate Professor, Director of the Department for Academic Issues of the International University of Information Technology (Kazakhstan), academician of the International Academy of Informatization*

A nominee of the Independent Agency for Quality Assurance in Education (Kazakhstan)

Andrei Krasov (Saint Petersburg, Russia)

Deputy Review Chair, Russian expert

> *Candidate of Engineering, Associate Professor, Head of the Department of Secured Communications Systems, Bonch-Bruevich St. Petersburg State University of Telecommunications, member of the Guild of Experts in Higher Education, academician of the International Telecommunication Academy*

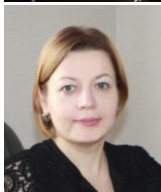A nominee of the Guild of Experts in Higher Education

Elena Spirina (Karaganda, Kazakhstan)

Panel member, foreign expert

> *Candidate of Pedagogy, Associate Professor, Head of the Department of Applied Mathematics and Informatics, E.A. Buketov Karaganda University (Kazakhstan)*

A nominee of the Independent Agency for Quality Assurance in Education (Kazakhstan)

Natalia Britceva (Barnaul, Russia)

Panel member, representative of professional community

> *Deputy Director for Information Technologies, Altai Institute of Digital Technologies and Education Quality Evaluation*

A nominee of the Altai Institute of Digital Technologies and Education Quality Evaluation

Andrei Korol (Lipetsk, Russia)

Panel member, representative of students

> *Master's degree student, Faculty of Automation and Informatics, Lipetsk State Technical University, All-Russian Student Union*

A nominee of the All-Russian Student Union

INFORMATION ON THE LEADING TEACHERS OF THE EDUCATIONAL PROGRAMMES

Konstantin Anisimov

Candidate of Physics and Mathematics, Associate Professor, Department of Mathematics and Applied Informatics

Elena Anisimova

Candidate of Engineering, Associate Professor, Department of Mathematics and Applied Informatics

Estai Kiribaev

Senior teacher

Dmitrii Reva

Senior teacher

Olga Riazanova

Senior teacher

Vladimir Mashukov

Candidate of Economics, Associate Professor, Department of State and Municipal Management

Alesia Shevchenko

Associate Professor, Department of Mathematics and Applied Informatics

Maria Laskina

Candidate of Economics, Associate Professor, Department of Economics

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: **full compliance**

Good practice:

Information about the educational programmes is available; feedback from stakeholders is in place.

The Institute delivers secondary vocational education.

The educational programmes are oriented at the requirements of the labour market.

Areas for improvement:

The students should be more involved in the procedures of quality assurance of the educational programmes.

STANDARD 2. Design and approval of programmes

Compliance with the standard: **full compliance**

Good practice:

When developing the educational programme 09.03.03 Applied Informatics the Institute oriented at professional standards and interests of regional enterprises.

There is a system of updating the content of the educational programmes through their regular review and introduction of new teaching methods in the educational programmes.

Personal growth and development of student professional competences are actively promoted.

Areas for improvement:

The structure of the educational programme should be revised and improved by extending IT components; attention should be paid to practical training in order to provide students with necessary skills in information systems and technologies in addition to academic skills.

The Institute should develop a mechanism of students' participation in the development of the educational programme.

When improving the educational programmes, further education programmes should be offered.

STANDARD 3. Student-centred learning and assessment

Compliance with the standard: **full compliance**

Good practice:

Independent technologies of evaluation of learning outcomes are used in the educational process, for example, Federal Internet Exam in Higher Education.

Work on graduates' employability is carried out regularly. The graduates are in demand on the labour market.

A system of involving students in organization of the educational process is in place.

An effective system of ranking of students' achievements is introduced.

Areas for improvement:

The technologies of network academies Cisco and Microsoft should be introduced to the educational process; apart from materials the academies have internationally-recognized effective systems of case studies for organization of the educational process and testing of students' knowledge in information technologies. Altai State University has access to these resources, and the branch can use its license.

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

Compliance with the standard: **full compliance**

Good practice:

Monitoring of students' academic progress and its effectiveness are carried out.

An effective system of career guidance aims for selection of motivated applicants.

Information about fields of study is available for applicants.

The students can receive Diploma Supplement.

Areas for improvement:

Employer-sponsored education should be organized through work with employers, applicants and their parents.

The Institute should enhance awareness-raising activities of how Diploma Supplement helps graduates to get new opportunities.

Academic mobility should be developed while introducing these measures at ASU.

STANDARD 5. Teaching staff

Compliance with the standard: **substantial compliance**

Good practice:

Qualification of the teaching staff is high.

There is a system of promotion and motivation of teachers' activities that takes into account educational, research, international, public, and career guidance activities.

Areas for improvement:

The Institute should discuss the possibility of employer-sponsored postgraduate studies for the teachers at ASU.

The teachers need to indicate double affiliation of their publications – ASU and the Institute.

STANDARD 6. Learning resources and student support

Compliance with the standard: **full compliance**

Good practice:

Material and technical resources are modern, informational infrastructure is developed, digital resources and own electronic library system are in place.

The library system is developed; full access to modern information educational and research databases.

There is a system of surveys of students.

Areas for improvement:

The system of establishing and supporting outbound academic mobility should be developed (first of all, through awareness-raising activities among students) together with ASU.

The process of informing students about the results of monitoring and managerial decision-making should be structured and improved.

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

Compliance with the standard: **full compliance**

Good practice:

An effective system of collection and monitoring of information about the educational programme is in place.

The Institute cooperates with graduates to extend the list of facilities for practical training of students and to involve them in joint projects.

The roadmap on transition to national software is developed and implemented.

Areas for improvement:

The informational and analytical system on obtaining information about the educational programmes and its use for decision-making should be improved.

The Institute should align criteria and indicators with the methods for monitoring of HEIs' effectiveness and admission quotas.

STANDARD 8. Public information

Compliance with the standard: **full compliance**

Good practice:

The official website presents strengths of the Institute.

News, achievements of students, teachers and staff are published on the Institute website.

There are services at the Institute that inform the public and communicate with employers, federal and regional mass media.

Areas for improvement:

The Institute should update information on the website related to the educational programmes and staff of departments.

Information about the teaching staff should comply with the requirements to the structure of the official website of an educational institution (of 14.09.2020 №831); first of all, information about qualifications, retraining, qualification enhancement for 3 years, etc.

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

Compliance with the standard: **full compliance**

Good practice:

Performance monitoring of the educational programmes is regularly carried out.

An effective mechanism of feedback from students and employers is used when evaluating the educational programmes.

The Institute and Departments cooperate with the public and employers in order to update the content of the educational programmes.

Areas for improvement:

In monitoring procedures more attention should be paid to staffing and indicators of research activities necessary to comply with the requirements of the Federal State Educational Standards.

STANDARD 10. Cyclical external quality assurance of study programmes

Compliance with the standard: **full compliance**
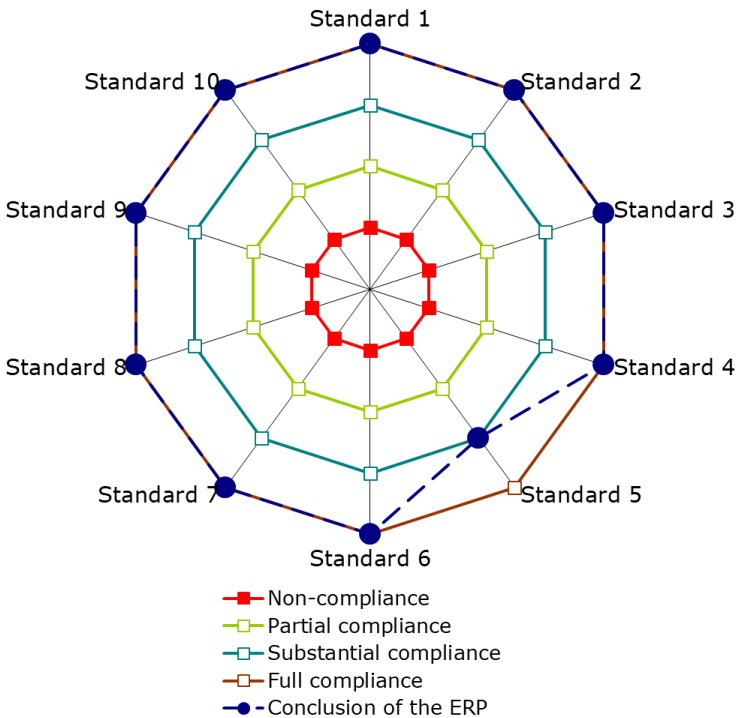
Good practice:

The Institute holds events where students and employers participate (conferences, lectures, surveys).

Management of the educational process is on a good level, which allows the Institute to carry out the educational process.

Areas for improvement:

The Institute should improve the programme of corrective measures based on the results of external review of the educational programme with involvement of employers.

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 cluster of educational programmes in «Applied Informatics» (09.03.03) **fully** 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 cluster of educational programmes in «Applied Informatics» (09.03.03) delivered by Rubtcovskiy Institute (branch) of Altai State University for the period of **six** years.

SCHEDULE OF THE SITE VISIT OF THE EXTERNAL REVIEW PANEL

Time	Activity	Participants
November 24, Tuesday		
9:00 — 9:15	First meeting of the External Review Panel	
09:15 — 09:30	Break	
09:30 — 10:30	**Meeting of the ERP with the University administration and people responsible for accreditation**	Rector, Vice-Rectors, people responsible for accreditation, ERP
10:30 — 10:45	Break	
10:45 — 11:45	**Meeting with Institute management**	Directors, Deputy Directors, ERP
11:45 — 12:45	Lunch	
12:45 — 13:00	Break	
13:00 — 14:00	**Meeting with Heads of Departments**	Heads of Departments, ERP
14:00 — 14:15	Break	
14:15 — 15:15	**Meeting with graduates**	Graduates, ERP
15:15 — 15:30	Break	
15:30 — 16:30	Video tour of the University (visiting classes, library, etc.)	ERP
16:30 — 17:30	Work with documents	ERP
November 25, Wednesday		
09:00 — 09:15	Internal meeting of the Panel	ERP
09:15 — 09:30	Break	
09:30 — 10:30	**Meeting with students**	Students, ERP
10.30 — 10:45	Break	
10:45 — 11:45	**Meeting with teachers**	Teachers, ERP
11.45 — 12.45	Lunch	
12.45 — 13:00	Break	

Time	Activity	Participants
13.00 — 14.00	**Meeting with representatives of professional community**	Employers, ERP
14.00 — 15.00	Work with documents	ERP
November 26, Thursday		
09:00 — 09:15	Internal meeting of the Panel	ERP
09:15 — 09:30	Break	
09:30 — 10:30	**Meeting with Institute management**	Institute Director, Deputy Directors, ERP
10:30 — 10:45	Break	
10:45 — 11:45	**Meeting with students**	Students, ERP
11:45 — 12:45	Lunch	
12:45 — 13:00	Break	
13:00 — 14:00	**Meeting with teachers**	Teachers, Head of Department, ERP
14:00 — 14:15	Break	
14:15 — 15:15	**Meeting with graduates**	Graduates, ERP
15:15 — 16:15	Video tour of the branch (visiting classes, library, etc.)	ERP
16:15 — 17:15	Work with documents	ERP
November 27, Friday		
09.00 — 11.45	Internal meeting of the Panel: discussion of preliminary results of the site visit, preparation of the oral report of the panel	ERP
11:45 — 12:00	Break	
12.00 — 13.00	**Closing meeting of the External Review Panel with the representatives of the University**	ERP, management of the University and branch, Heads of the Departments, teachers, students