




# SUMMARY REPORT

on public accreditation of the cluster of educational programmes in

«Biotechnology» (19.03.01, 19.04.01),  
«Medical Biochemistry» (30.05.01)

Delivered by the Federal State Autonomous Educational Institution of Higher Education «North-Caucasus Federal University»



2017

While preparing this presentation we used information from the Self Evaluation Report and the Report of the External Review Panel of the cluster of educational programmes «Biotechnology» (19.03.01, 19.04.01), «Medical Biochemistry» (30.05.01) delivered by the Federal State Autonomous Educational Institution of Higher Education «North-Caucasus 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 «North-Caucasus Federal University»</i>
Founders	<i>Ministry of Education and Science of the Russian Federation</i>
Year of foundation	<i>1971 — Stavropol Polytechnic Institute 1994 — Stavropol State Technical University 1999 — North-Caucasus State Technical University 2011 — FSBEI HVE «North-Caucasus State Technical University» 2012 — FSAEI HVE «North-Caucasus Federal University» 2016 — FSAEI HE «North-Caucasus Federal University»</i>
Location	<i>1, Pushkin Str., Stavropol, 355009</i>
Rector	<i>Alina Levitskaya, Candidate of Philological Sciences, Professor</i>
License	<i>Series 90Л01 №9291 reg. № 2242 dated 01.07.2016 permanent</i>
State accreditation	<i>Certificate of State Accreditation Series 90A01 № 2398, reg. №2276 dated 29.09.2016 valid till 21.03.2020</i>
Number of students	<i>17579 including: full-time 11197 on-site and off-site 81 part-time 6301</i>

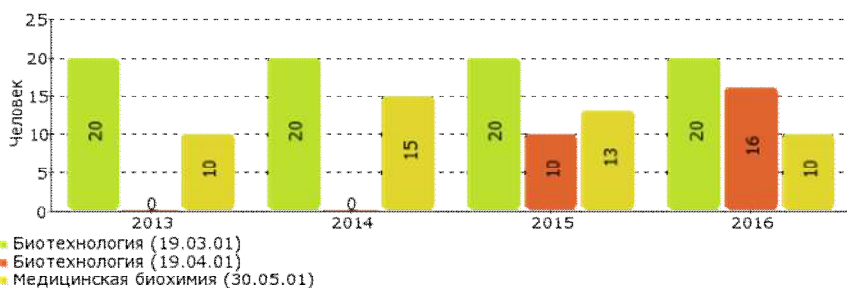
## INFORMATION ON THE EDUCATIONAL PROGRAMMES UNDERGOING ACCREDITATION

Educational programmes	<i>«Biotechnology» (19.03.01), «Biotechnology» (19.04.01), «Medical Biochemistry» (30.05.01)</i>
Level of training / Standard period of training	<i>Bachelor's Degree Programme / 4 years Master's Degree Programme / 2 years Biochemist / 6 years</i>
Structural subdivision (head)	<i>Institute of Life Sciences (Inna Aksyonova, Doctor of Chemical Sciences, Professor)</i>
Major departments (heads)	<i>Department of Applied Biotechnology (Aleksey Lodygin, Doctor of Technical Sciences) Department of Medical Biochemistry, Clinical Laboratory Diagnostics and Pharmacy (Evgeniya Denisova, Candidate of Biological Sciences)</i>
Date of the site visit	<i>25-27 April 2017</i>
Person responsible for public accreditation	<i>Irina Solovyova, Head of the Methodological Department</i>

## SAMPLING RESULTS OF THE PROJECT «THE BEST EDUCATIONAL PROGRAMMES OF INNOVATIVE RUSSIA»

Indicators	2017
<b>Cluster of the educational programmes «Biotechnology» (19.03.01, 19.04.01), «Medical Biochemistry» (30.05.01)</b>	
Number of the given programmes in the RF	117
Number of higher educational institutions to offer the given programmes	62
Number of programmes – winners of the project (% from total amount of these programmes offered in the RF)	42 (35,9%)
<b>Stavropol Region</b>	
Number of the given programmes offered in the region	7
Number of programmes – winners of the project (% from total amount of these programmes offered in the region)	3 (42,5%)
Number of higher educational institutions and branches in the region	57
Total number of programmes offered in the region	386
Total number of programmes – winners of the project (% from total amount of these programmes offered in the region)	75 (19,4%)

### REFERENCE DATA ON STUDENT ENROLLEMENT FOR EDUCATIONAL PROGRAMMES



## **ACHIEVEMENTS OF THE EDUCATIONAL PROGRAMMES**

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

Implementation of the educational programmes is carried out in accordance with the mission and development strategy of the University. Educational activities are aimed at regional demands. Education quality policy is discussed with the directors and stakeholders. Methods of goals achievement of the educational programmes are developed and represented in the Model of the System of Education Quality Assurance as well as in NCFU regulations.

Assessment of students' knowledge/competences during attestation is regulated by developed and approved documents. Quality control of students' preparation is carried out throughout training period. Conclusions about education quality are made on the basis of the results of monitoring of students' educational and research activities. An open rating system of assessment of students' knowledge/competences is in place.

Education quality assurance is provided by the internal system of self-assessment. The mission, quality policy and University awards in the sphere of quality are represented on the web-site.

### **Providing up-to-date contents of education**

All stakeholders including administration are involved in implementation of the policy and procedures of quality assurance.

Availability of the system of quality assurance for the public provides continuous improvement of the educational process quality.

Purposes and objectives of the educational programme are corrected every year with the account of the surveys' results, questionnaires, results of students' current academic progress, results of exams and State Attestation of graduates, requests and recommendations of the stakeholders, the methodological commission, and the Academic Council.

### **Teaching staff**

All teachers involved in the educational process have subject-specific education, academic degrees and practical work experience in the sphere of education. The number of teachers is adequate for the educational programmes delivery. The teaching staff copes with necessary work following the regulations of education quality.

Results of teachers' research activities are published in the articles, monographs, and study guides. Active research activities provide the stable level of demand for the scientific publications of the teaching staff in Web of Science and Scopus.

The teachers constantly attend the courses of professional development to maintain the high level of professional competences. The teaching staff actively participates in exhibitions, competitions, conferences, etc.

## Independent assessment of knowledge

Sharply defined criteria and objective procedures used for assessment of students' competences are developed. Employers are actively involved in the educational process and independent assessment of learning outcomes. Students have the possibility to participate in different projects on independent assessment of learning outcomes.

A rating system of students' knowledge assessment on the automated platform is used. There are different forms of control of students' knowledge.

## Educational resources

Material and technical resources allow to carry out the educational process in accordance with the Federal State Education Standards of Higher Education. The educational programmes are provided with modern educational and laboratory equipment, computer hardware and multimedia equipment.

The Fund of printed and electronic publications of the University Scientific Library is formed in accordance with the federal regulations. Information capacity of the University Scientific Library is 2.5 million of exemplars. The Library provides services of electronic document delivery that allows to order an electronic copy of printed documents from the funds of NCFU library.

Possibilities of the Scientific Library allow the scientific schools to correspond to international requirements.

## Research activity

The teachers of the Department actively participate in scientific projects with the support of Presidential grants, target programmes of the Ministry of Education and Science of the Russian Federation, the programme START of the Foundation for Assistance to Small Innovative Enterprises in Science and Technology.

There are a federal scientific school 7510.2010.4 «Living Systems» and a methodological school «Education in the Sphere of Food Technology and Applied Biotechnologies» at the Department of Applied Biotechnology.

The results of research are used in the educational process of the Department of Applied Biotechnology and the Department of Medical Biochemistry, Clinical Laboratory Diagnostics and Pharmacy.

Students are actively involved in research activities. There are joint developments and publications with the teachers.

## Academic mobility of students

Graduates get European Diploma Supplement at their individual request for employment in foreign countries that increases international competitiveness of the Russian system of higher education.



The programme of assistance of students' international/national academic mobility is regulated by the provision on organization of academic mobility in NCFU.

The University holds the language courses for the students and teachers. NCFU develops international cooperation with more than 41 universities in 13 countries.

### Employability of graduates

The Graduate Departments closely cooperate with subject-specific ministries, institutions, professional associations, labour organization, educational and medical institutions, institutions of social protection on the issues of employability and quality of graduates' preparation.

Information about graduates' employability and demand as well as about vacancies for students and graduates is published on the official web-site and information portal of the University. A system of assistance in graduates employability is developed.

### International projects

Work on involvement of professors and external part-time employees from other universities, including the foreign ones, is carried out.

Staff of the Department of Applied Biotechnology implements the programmes of scientific and technological cooperation with the RAS and FASO, foreign scientific and educational institutions and engineering centres.

The educational programme «Medical Biochemistry» (30.05.01) successfully passed independent assessment of education quality on certified accredited pedagogic assessment materials (APAM) in the frames of the project «Federal Internet Exam in the Sphere of Professional Education» (Quality Certificate № 2015/2/249 dated 10.03.2016 г.).

Направления подготовки высшего образования	
01.03.02 (010400.62)	Прикладная математика и информатика
03.03.02 (011200.62)	Физика
05.03.03 (021300.62)	Картография и геоинформатика
06.03.01 (020400.62)	Биология
10.03.01 (090900.62)	Информационная безопасность
11.03.02 (210700.62)	Инфокоммуникационные технологии и системы связи
11.03.04 (210100.62)	Электроника и нанoeлектроника
18.03.01 (240100.62)	Химическая технология
18.03.02 (241000.62)	Энерго- и ресурсосберегающие процессы в химической технологии, нефтехимии и биотехнологии
21.03.01 (131000.62)	Нефтегазовое дело
21.03.02 (120700.62)	Землеустройство и кадастры
21.05.02 (130101.65)	Прикладная геология
21.05.03 (130102.65)	Технология геологической разведки
23.03.03 (190600.62)	Эксплуатация технологических комплексов

30.05.01 (060601.65)	Медицинская биохимия
37.03.01 (030300.62)	Психология
37.05.01 (030401.65)	Клиническая психология
38.03.01 (080100.62)	Экономика
38.03.03 (080400.62)	Управление персоналом
38.03.04 (081100.62)	Государственное и муниципальное управление
38.03.05 (080500.62)	Бизнес-информатика
38.05.02 (036401.65)	Тамбовское дело
40.03.01 (030900.62)	Юриспруденция
43.03.01 (100100.62)	Сервис
44.03.01 (050100.62)	Педагогическое образование
49.03.01 (034300.62)	Физическая культура

Генеральный директор  В.Г. Наводнов



НАУЧНО-ИССЛЕДОВАТЕЛЬСКИЙ ИНСТИТУТ  
МОНИТОРИНГА КАЧЕСТВА ОБРАЗОВАНИЯ

## СЕРТИФИКАТ КАЧЕСТВА

№ 2015/2/249 от 10.03.2016

настоящим подтверждается, что образовательные программы (Приложение)

Федерального государственного автономного образовательного учреждения высшего профессионального образования

**"СЕВЕРО-КАВКАЗСКИЙ  
ФЕДЕРАЛЬНЫЙ УНИВЕРСИТЕТ"**

в период с 01 октября 2015 года по 29 февраля 2016 года успешно прошли независимую оценку качества образования по сертифицированным аккредитационным педагогическим измерительным материалам (АПИМ) в рамках проекта

«Федеральный Интернет-экзамен в сфере профессионального образования»

Генеральный директор  В.Г. Наводнов



октябрь 2015 – февраль 2016



## EXTERNAL REVIEW PANEL



**Gabriela Rapeanu** (Romania)

Review Chair, foreign expert

*Doctor of Chemical Sciences, Professor of the Department of Applied Biotechnology, the Faculty of Food Science and Engineering of the University «Dunarea de Jos», international representative of Romania, member of the National Research Council , expert of ARACIS*



**Nikolay Prokopov** (Russia)

Deputy Review Chair, Russian Expert

*Doctor of Chemical Sciences, Professor, First Vice-Rector, Professor of the Department of Chemistry and Technology of High-Molecular Compounds, Moscow technological University, member of the Guild of Experts in Higher Education*

A nominee of the Guild of Experts in Higher Education



**Dmitry Vinokhodov** (Russia)

Panel member, Russian Expert

*Doctor of Biological Sciences, Associate Professor, Head of the Department of Molecular Biotechnology, Head of Academic and Analytical Department, Saint-Petersburg State Technological Institute (Technical University), member of the Guild of Experts in Higher Education*

A nominee of the Guild of Experts in Higher Education



**Marat Duysembiev** (Kazakhstan)

Panel member, foreign expert

*Candidate of Chemical Sciences, Associate Professor at the Department of Chemistry, L.N. Gumilyov Eurasian National University*

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



**Valentina Bondareva** (Russia)

Panel member, representative of the professional community

*Candidate of Medical Sciences, Head of the Department of Laboratory Diagnostics, Stavropol Regional Clinical Diagnostic Centre, Principal External Expert of the Ministry of Healthcare in Stavropol Region on clinical laboratory diagnostics, Association of Clinical Cytologists of the Russian Federation №1632, Association of the Doctors of Clinical Laboratory Diagnostics*

A nominee of the Ministry of Healthcare in Stavropol Region



**Leyla Vyshegurova** (Russia)

Panel member, representative of students

*Deputy Chairman of the Russian Non-Governmental Organization «RUSSIAN STUDENT UNION»*

A nominee of the Russian Non-Governmental Organization «Russian Student Union»

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

### **Evgeniya Denisova**

*Candidate of Biological Sciences, i/c Head of the Department of Medical Biochemistry, Clinical Laboratory Diagnostics and Pharmacy*

### **Aleksey Lodygin**

*Doctor of Technical Sciences, Associate Professor, Head of the Department of Applied Biotechnology*

### **Boris Chablin**

*Candidate of Technical Sciences, Associate Professor of the Department of Mechanical-Engineering Technology and Technological Equipment*

### **Svetlana Ryabtceva**

*Doctor of Technical Sciences, Professor of the Department of Applied Biotechnology*

### **Sergey Emelyanov**

*Doctor of Technical Sciences, Professor of the Department of Applied Biotechnology*

### **Ivan Evdokimov**

*Doctor of Technical Sciences, Professor, Head of the Basic Department of Milk and Dairy Products Technology in the Dairy Plant «Stavropolskiy»*

### **Igor Rzhepakovsky**

*Candidate of Biological Sciences, Associate Professor of the Department of Applied Biotechnology*

### **Svetlana Andrusenko**

*Candidate of Biological Sciences, Associate Professor of the Department of Medical Biochemistry, Clinical Laboratory Diagnostics and Pharmacy*

### **Irina Biryukova**

*Candidate of Technical Sciences, Associate Professor of the Department of Medical Biochemistry, Clinical Laboratory Diagnostics and Pharmacy*

### **Olga Anisenko**

*Candidate of Biological Sciences, Associate Professor of the Department of Medical Biochemistry, Clinical Laboratory Diagnostics and Pharmacy*

### **Anastasiya Filippova**

*Candidate of Biological Sciences, Associate Professor of the Department of Medical Biochemistry, Clinical Laboratory Diagnostics and Pharmacy*

### **Olga Smirnova**

*Candidate of Medical Sciences, Associate Professor of the Department of Medical Biochemistry, Clinical Laboratory Diagnostics and Pharmacy*

### **Tamara Dzhandarova**

*Doctor of Biological Sciences, Professor of the Department of Anatomy and Physiology*

## **COMPLIANCE OF THE EXTERNAL REVIEW OUTCOMES WITH THE STANDARDS**

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

Compliance with the standard: **full compliance**

#### **Good practice:**

There are clearly defined purposes and objectives of development of the educational programmes in accordance with the mission and strategies of the region, University and Institute development.

The documented internal system of quality assurance provides continuous improvement of quality in accordance with the development strategy of the University.

All stakeholders, including administration, teaching staff, students, employers, graduates, and all NCFU subdivisions are involved in implementation of policy and procedures of quality assurance.

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

It is recommended to improve the system of quality management that is to demark powers of the Departments, administration and educational support staff in more detail.

It is necessary to give joint seminars on experience exchange between the Departments in development and use of procedures of education quality assurance.

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

Compliance with the standard: **full compliance**

#### **Good practice:**

A clearly defined and stable procedure of development, approval and correction of the educational programme with the account of science and practice development as well as of stakeholders' opinions (administration, teachers, students, and employers) is implemented.

During formation of the mission and purposes of the educational programme modern tendencies of science and practice, region needs, requirements of the modern labour market, and professional requirements are taken into account.

Training on the educational programmes «Biotechnology», «Medical Biochemistry» allows to achieve four goals of higher education defined by

the Council of Europe: preparation for stable professional occupation, preparation for active citizenship in a democratic society, personal development, continuous development.

The educational programmes correspond to the requirements of the regional labour market.

### **Areas for improvement:**

Resources of international cooperation with leading foreign universities implementing the same educational programmes in order to form professional competencies are used insufficiently. It is recommended to consider the experience of development, approval and correction of the educational programmes in foreign universities with which NCFU cooperates.

It is advisable to place greater emphasis on particular characteristics of the educational programmes during formulation of learning outcomes.

It is necessary to consider international subject-specific qualification framework and requirements during development, assessment and review of the educational programmes.

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

Compliance with the standard: **full compliance**

### **Good practice:**

Organization of the educational process is carried out in accordance with the requirements of different student groups in formation of the individual learning paths with the account of effective work of students of various forms of attendance.

Students regularly participate in the Federal Internet Exam and pass the Federal Internet Exam for Bachelors on a voluntary basis.

Individual learning paths are made.

A feedback system with the students on effective use of training forms and methods is developed.

Various forms of joint activity developing partner relationships between students and teachers are implemented.

### **Areas for improvement:**

It is recommended to implement the programmes of further vocational education developed by the Graduate Departments more actively.

It is necessary to develop the ways of motivation increase for the students to achieve assured quality of their independent training activities.

It is advisable to improve the feedback system with the students and inform them about the possibilities and specific features of appeal procedures.

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

Compliance with the standard: **full compliance**

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

A systematic work on support of students' academic progress is carried out within a regulatory framework and represents active consulting activity of teachers and supervisors of practice and graduation works.

A rating system of students' knowledge assessment is implemented on an automated platform.

Practice-oriented training in enterprises and laboratories allows the students to quickly adapt to the working environment.

The University cooperates with educational and administrative institutions on work on career guidance.

Organization of employer-sponsored education contributes to strengthening the ties with the regional educational complex and provision with work for the graduates.

There is a system of financial and non-financial rewards for students' academic progress.

The European Diploma Supplement facilitates the procedure of academic and professional recognition of acquired qualifications to support their further training in foreign countries and employment in Europe, as well as to increase international competitiveness of the Russian system of higher education in whole.

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

It is advisable to improve the forms of work on career guidance including use of remote technologies.

It is necessary to promote participation of students in filling of applications and implementation of grants of scientific funds, target programmes of the Ministry of Education and Science of the Russian Federation, and applied R&D.

It is recommended to develop academic and professional ties with the foreign partners to increase the image of the graduates.

It is necessary to increase motivation of students' participation in the programmes of international academic mobility with the help of the programmes of accelerated learning of the English language, involvement of teachers from foreign universities, holding of international student conferences, etc.

## **STANDARD 5. Teaching staff**

Compliance with the standard: **substantial compliance**

### **Good practice:**

A highly qualified teaching staff implements the educational programmes «Biotechnology» (19.03.01), «Biotechnology» (19.04.01) and «Medical Biochemistry» (30.05.01).

The teaching staff of the Institute of Life Sciences does active research: supervises work of doctoral students; they are the members of dissertation councils. The teachers defend the dissertations, publish scientific works in the journals with the high impact factor, have high citation indexes in Web of Science, Scopus and RSCI, and participate in prestigious conferences.

International cooperation in research and practice is in place.

There are a federal scientific school 7510.2010.4 «Living Systems» and a methodological school «Education in the Sphere of Food Technology and Applied Biotechnologies» at the Department of Applied Biotechnology.

The results of research are used in the educational process.

A United University Programme of Language Skills Improvement for the teachers is developed.

### **Areas for improvement:**

It is recommended to use remote education technologies more actively and take into account tendencies of education individualization and various educational needs of students.

It is necessary to involve teachers in participation in international projects, foreign internships, and programmes of academic mobility.

It is advisable to improve work on creation of electronic educational resources of subject-specific disciplines of the educational programmes.

It is necessary to systematically renew the contents of fundamental and applied courses on the basis of implementation of recent developments in Biotechnology and Medicine.

It is recommended to make the criteria of assignment, promotion and dismissal of the teaching staff more clear.

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

Compliance with the standard: **substantial compliance**



## **Good practice:**

Material and technical resources of the cluster of the educational programmes «Biotechnology» (19.03.01), «Biotechnology» (19.04.01) and «Medical Biochemistry» (30.05.01) allow to carry out the educational process in accordance with the Federal State Education Standards of Higher Education.

An open access to national and foreign information resources and data bases is provided at the University.

All students actively use electronic educational and scientific resources that provide a high level of preparation of future specialists.

Possibilities of NCFU scientific library allow the scientific schools to correspond to the international requirements.

Social infrastructure of the University sufficiently provides availability of good education for the students of different age groups with different opportunities. Services of the educational process support promote effective training, professional and cultural development of students.

Different events with involvement of teachers from other higher educational institutions including the foreign ones are regularly held. Teachers and students participate in joint international projects, universities' networks, and foreign internships.

## **Areas for improvement:**

It is necessary to regularly renew material and technical resources of the educational process and research in accordance with modern tendencies in education in order to increase attractiveness of the educational programmes for foreign students.

It is necessary to improve forms and ways of information sharing and motivation of students in relation to their academic mobility.

It is advisable to pay attention to systematic renewal of programme support of the educational process in accordance with modern tendencies in education.

It is recommended to develop the system of students' support participating in the programmes of academic mobility informing them about competitions, giving advice and helping in application execution, and supporting in participation in the mobility programmes.

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

Compliance with the standard: **substantial compliance**

## **Good practice:**

An effective multiplex system of information collection and management of the educational programmes implementation is oriented

to different groups of users and allows to fully implement management functions on the basis of modern information and communication technologies.

A feedback system with the students on assessment of conditions and organization of the educational process is based on immediate contact with the students (extra-curricular activity, questionnaires) and on communication on the University web-site.

A system of information provision of executive decision making on the issues of improvement of education quality is developed.

The teachers and students are actively involved in collection and analysis of information on quality of the educational programmes implementation. The resources IACS HEI, interactive forms of cooperation and social networks are used.

### **Areas for improvement:**

It is recommended to improve possibilities for management of students' independent work in remote access mode «eCampus».

It is advisable to develop and implement the instruments for more active remote participation of representatives of the professional community in management of the educational programmes implementation and participation in monitoring of education quality.

It is necessary to develop the structure of teachers' personal accounts for greater personification of educational interactive cooperation in remote access with the students.

## **STANDARD 8. Public information**

Compliance with the standard: **substantial compliance**

### **Good practice:**

The structure and contents of the official web-site correspond to the normative requirements of the Ministry of Education and Science of the Russian Federation.

Information in the English language is available on the official web-site.

There is also a web-site version for visually impaired people.

Information about University activities is represented in regional and central mass media.

A complex approach to representation of information about the University with the use of printed and online media is used.

Information about employability and demand for graduates is regularly renewed.

Current information about vacancies for the students and graduates is available.

The Graduate Departments closely cooperate with subject-specific ministries and institutions, professional associations, a subject-specific labour union, educational and medical institutions, and institutions of social protection on the issues of employability and quality of graduates' preparation.

### **Areas for improvement:**

It is recommended to improve the possibilities of «feedback» and open discussion of information represented on the official web-site and related to the quality of the educational programmes implementation.

It is necessary to use social media more actively to distribute information about employability and demand for graduates.

It is advisable to bring content of the English version of the web-site into compliance with the Russian version.

It is necessary to pay attention to systematic renewal of the Departments WebPages and personal WebPages of the University workers.

It is recommended to develop an information section «Our Graduates» on the University web-site which will allow to place employers' opinions about practice and success stories of graduates.

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

Compliance with the standard: **substantial compliance**

### **Good practice:**

A system of monitoring and periodical assessment of the educational programmes is developed.

Regular assessment and review of the educational programmes at the Departments and in the Educational and Methodological Board of the University are carried out.

Analysis of opinions of employers and students about the educational programmes quality promotes improvement of the educational programmes.

Developed procedures of monitoring and periodical assessment of the educational programmes allow to correct the content of the disciplines with the account of new scientific achievements, demands of employers and students, tendencies of education development, personal demands, etc.

### **Areas for improvement:**

It is necessary to improve a feedback system with graduates who left the Stavropol Region.

It is advisable to update practice of improvement of monitoring and assessment of the programmes and qualifications with further introduction of necessary changes and additions corresponding to modern achievements of science and practice in biotechnology, medicine and education.

It is recommended to involve foreign specialists in monitoring of the educational programmes.

It is necessary to organize permanent monitoring of effectiveness of the educational programmes that will allow to improve organization of the educational process.

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

Compliance with the standard: **substantial compliance**

### **Good practice:**

External review of the educational programmes quality is carried out on a regular basis with involvement of representatives of subject-specific ministries and institutions as stakeholders on employability.

A complete plan of corrective actions is developed by the Graduate Department on the basis of the results of State Final Examination with involvement of employers and representatives of subject-specific ministries. It includes the system of the Graduate Department activity on modernization of the educational process, promotion of independent work of students, intensification and improvement of research activities of the teaching staff.

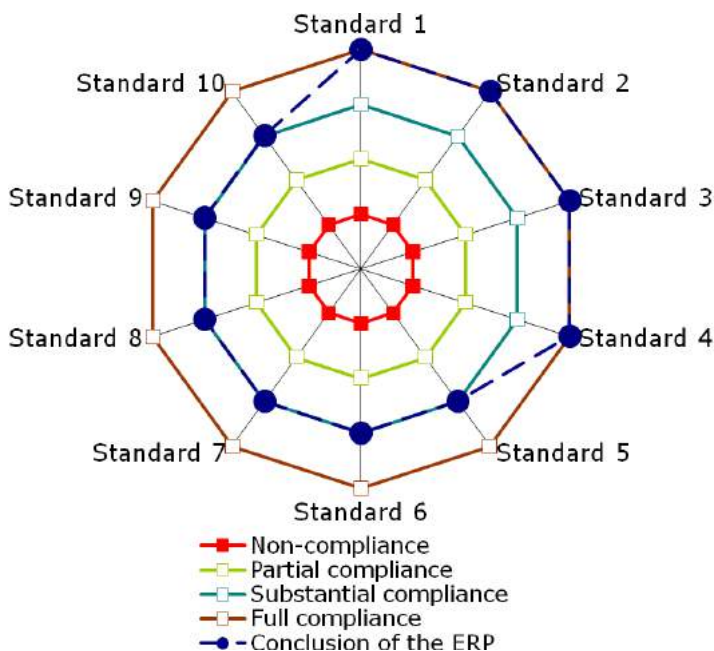
The University regularly invites professional and public foreign expert organizations to carry out procedures of external review of the educational programmes quality.

### **Areas for improvement:**

It is recommended to publish the programmes of corrective actions following the results of external review of the educational programmes on the University web-site.

It is necessary to make the results of external review of the educational programmes available for employers and representatives of professional and academic communities.

## 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 «Biotechnology» (19.03.01, 19.04.01), «Medical Biochemistry» (30.05.01) **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 educational programmes «Biotechnology» (19.03.01, 19.04.01), «Medical Biochemistry» (30.05.01) delivered by the Federal State Autonomous Educational Institution of Higher Education «North-Caucasus Federal University» for the period of **6 years**.

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

Time	Activity	Participants	Venue
<b>April 25, Tuesday</b>			
8.45	Arrival at the University		Academic Building № 2, 1, Pushkin Str.
09.00 – 11.00	The first meeting of the external review panel		Room 121, Academic Building № 2, 1, Pushkin Str.
11.00 – 12.00	<b>Meeting of the ERP with the University administration and people responsible for accreditation</b>	Rector, Vice-Rectors, people responsible for accreditation, ERP	Conference hall of the Academic Council, 1, Academic Building № 2, Pushkin Str.
12.00 – 13.00	Tour of the University (visiting classrooms, library, etc.)	ERP	Research library, Academic Building №3, 1, Pushkin Str.: Room 010 ETC «Nanotechnologies and Nanomaterials», Room 015, Hematological Museum, Rooms 017, 026, 111, 025, 213, 214, 221, 421, research laboratories
13.00 – 14.00	Lunch		1, Marshal Zhukov Str.
14.00 – 15.30	<b>Meeting with Institute Directors</b>	Institute Director, Deputy Directors, ERP	Room 202, Academic Building № 3, 1, Pushkin Str.
15.30 – 16.00	Internal meeting of the ERP	ERP	Room 108, Academic Building № 3, 1, Pushkin Str.
16.00 – 17.00	<b>Meeting with Heads of Departments</b>	Heads of Departments, ERP	Room 202, Academic Building № 3, 1, Pushkin Str.
17.00 – 17.30	Internal meeting of the ERP	ERP	Room 108, Academic Building № 3, 1, Pushkin Str.
17.30 – 18.30	<b>Meeting with graduates</b>	Graduates, ERP	Room 202, Academic Building № 3, 1, Pushkin Str.
18.30 – 19.00	Transfer to the hotel		1, Marshal Zhukov Str.

Time	Activity	Participants	Venue
<b>April 26, Wednesday</b>			
09.00 – 10.00	<b>Meeting with representatives oa professional community</b>	Employers, ERP	Dairy Plant «Stavropolskiy», Municipal Clinical Hospital of Emergency Health Services
10.00 – 10.20	Arrival at the University		Academic Building № 3, 1, Pushkin Str.
10.20 – 11.00	<b>Meeting with representatives oa professional community</b>	Employers, ERP	Room 202, Academic Building № 3, 1, Pushkin Str.
11.00 – 13.00	Internal meeting of the ERP, work with documents, visiting classes and laboratories	ERP	Academic Building № 3, 1, Pushkin Str.
13.00 – 14.00	Lunch		University Cafe
14.00 – 15.00	<b>Meeting with students</b>	Students, ERP	Room 202, Academic Building № 3, 1, Pushkin Str.
15.00 – 15.30	Internal meeting of the ERP	ERP	Room 108, Academic Building № 3, 1, Pushkin Str.
15.30 – 16.30	<b>Meeting with doctoral students and residents</b>	Doctoral students, residents, ERP	Room 202, Academic Building № 3, 1, Pushkin Str.
16.30 – 17.00	Internal meeting of the ERP	ERP	Room 108, Academic Building № 3, 1, Pushkin Str.
17.00 – 18.00	<b>Meeting with teachers</b>	Teachers, ERP	Room 202, Academic Building № 3, 1, Pushkin Str.
18.00 – 18.30	Internal meeting of the ERP	ERP	Room 108, Academic Building № 3, 1, Pushkin Str.
18.30 – 19.00	Transfer to the hotel		1, Marshal Zhukov Str.
<b>April 27, Thursday</b>			
7.45	Arrival at the University		Academic Building № 2, 1, Pushkin Str.
08.00 – 12.00	Internal meeting of the ERP	ERP	Room 121, Academic Building № 2, 1, Pushkin Str.
12.00 – 13.00	<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	Conference hall, Room 200, Academic Building № 20, 1, Pushkin Str.
13.00 – 14.00	Lunch		University Cafe
	Departure, tour of Stavropol		