SUMMARY REPORT

on public accreditation of the cluster of educational programmes in

— «Electrical Power Engineering and Electrical Engineering» (13.03.02, 13.04.02),
— further education programme «Occupational Safety and Health Management»

Delivered by Stavropol State Agrarian 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 fields of study «Electrical Power Engineering and Electrical Engineering» (13.03.02, 13.04.02), further education programme «Occupational Safety and Health Management» delivered by Stavropol State Agrarian 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	*Federal State Budgetary Educational Institution of Higher Education "Stavropol State Agrarian University"*
Founders	*Ministry of Agriculture of the Russian Federation*
Year of foundation	*1930 — Institute of Sheep Breeding* *1933 — North- Caucasus Livestock Institute* *1944 — Stavropol Agricultural Institute* *1994 — Stavropol State Agricultural Academy* *2001 — Stavropol State Agrarian University*
Location	*355017, 12 Zootechnochesky per., Stavropol*
Rector	*Vladimir Trukhachev, Doctor of Agricultural Sciences, Doctor of Economic Sciences, Academician*
License	*Series 90Л01 №8917 reg. № 1887 dated 20.01.2016 permanent*
State accreditation	*Certificate of State Accreditation, Series 90A01 № 1847, reg. №1754 dated 17.03.2016 valid till 29.04.2020*
Number of students	*9699* *including:* *full-time 5199* *on-site and off-site 40* *part-time 4460*

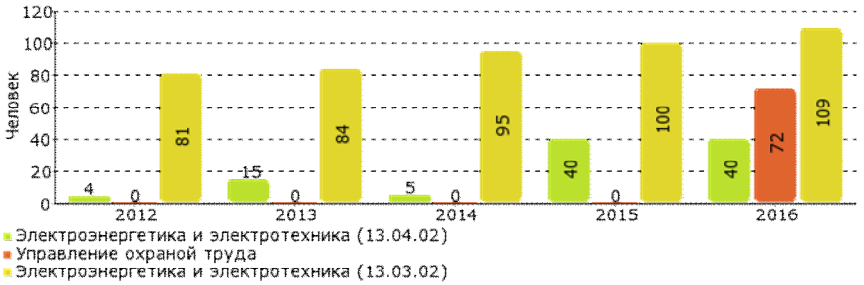
INFORMATION ON THE EDUCATIONAL PROGRAMMES UNDERGOING ACCREDITATION

Educational programmes	*«Electrical Power Engineering and Electrical Engineering» (13.04.02),* *«Electrical Power Engineering and Electrical Engineering» (13.03.02),* *«Occupational Safety and Health Management»*
Level of training / Standard period of training	*Master's Degree Programme / 2 years* *Bachelor's Degree Programme / 4 years* *Professional Retraining / 258 hours*
Structural subdivision (head)	*Faculty of Electrical Power Engineering (Maksim Mastepanenko, Candidate of Engineering Sciences)*
Major departments (heads)	*Department of Electrical Power Supply and Electric Equipment Exploitation (Aleksey Efanov, Candidate of Engineering Sciences, Associate Professor)*
Date of the site visit	*28-30 March 2017*
Person responsible for public accreditation	*Maksim Mastepanenko, Candidate of Engineering Sciences, Dean of the Faculty of Electrical Power Engineering, senior teacher of the Department of Electrical Engineering, Automatics and Metrology*

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

Indicators	2017
Cluster of the educational programmes in the field of study «Electrical Power Engineering and Electrical Engineering» (13.03.02, 13.04.02)	
Number of the given programmes in the RF	334
Number of higher educational institutions to offer the given programmes	219
Number of programmes – winners of the project (% from total amount of these programmes offered in the RF)	52 (15,6%)
Stavropol Territory	
Number of the given programmes offered in the region	9
Number of programmes – winners of the project (% from total amount of these programmes offered in the region)	1 (11,1%)
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

Quality of the educational programmes is provided by high qualification of the teaching staff, active research activities of teachers and students, close cooperation with employers, development and continuous improvement of teaching materials of disciplines.

Quality of students' training is provided by analysis and assessment of admission requirements, knowledge control on all disciplines, interim and final state attestation of graduates.

Academic progress for the last 5 years is 80-84%, the average mark is 4,0 – 4,2.

Providing up-to-date contents of education

Up-to-date contents of education are provided in accordance with the requirements of the Federal State Educational Standards and employers' demands.

Students do practical training at enterprises and organizations of Stavropol, the Stavropol Territory, and North Caucasian Federal District. Representatives of employers are supervisors of practice.

Teaching staff

46 highly qualified teachers having academic degrees works at the Faculty. Among them there are 5 Doctors and Professors (10,86 %), 38 Candidates of Sciences (82,6 %), 33 Associate Professors (71,73 %), 3 senior teachers (6,52 %). The percentage of teachers having academic degrees is 93,3 %. All teachers of the Faculty systematically improve their qualification.

Independent assessment of knowledge

Students of the field of study 13.03.02 «Electrical Power Engineering and Electrical Engineering» participated in the project «Federal Internet Exam in Professional Education» on the disciplines «Electrical Machines», «Electric Generating Stations and Substations», «Physics», «Mathematics», etc. The results of students' testing (90%) fully correspond to the requirements of the Federal State Educational Standards of Higher Education.

Educational resources

Organization of the educational process corresponds to the requirements of the Federal State Educational Standards of Higher Education. Students of the field of study 13.00.00 «Electrical and Heat Power Engineering» are trained in the classrooms and laboratories provided with necessary equipment.

Research activity

In 2012—2016 the teaching staff published 25 monographs and received 146 titles of protection, including 62 patents for invention and utility models.

High publication activities and cooperation of the Faculty with the leading central journals allowed to increase scientometrical indicators. Citation index at the Faculty of Electrical Power Engineering is 26 970, the Hirsch index is 20. There are 3376 articles of the teachers in the base of the Russian Science Citation Index.

In 2011 – 2016 the workers of the Faculty presented 75 developments at different exhibitions, congresses and competitions and won 43 awards.

Employability of graduates

Work on expansion of contacts with subject-specific organizations and institutions is carried out. The University signed agreements about cooperation and work experience internships to allow the graduates to approve themselves and study alongside employment.

Employability of graduates of the field of study 13.00.00 «Electrical and Heat Power Engineering» is 98 % on average.

Graduates of the Bachelor's Degree Programmes have the possibility to continue training at the Faculty.

International projects

The teaching staff participates in international grant programmes. This approach allows to adopt the best practices of foreign countries in organization of academic, research and production activities.

In 2016 E. Vakhtina, Associate Professor of the Department of Electrical Engineering, Automatics and Metrology, participated in the international grant programme «National Scholarship Programme of Slovakia», 2014, EranetPlus 2015–2016 (Slovakia) and served a 6-month internship at the Department of Electrical Engineering, Automation and Informatics at Slovak University of Agriculture in Nitra. She was awarded the medal of the Eurochambres for contribution to science and education development and the certificate Diploma di Merito.

EXTERNAL REVIEW PANEL

Giedrius Laukaitis (Lithuania)

Review Chair, foreign expert

Doctor of Physical and Mathematical Sciences, Professor of the Faculty of Mathematics and Natural Sciences, Kaunas University of Technology

A nominee of the Lithuanian Centre for Quality Assessment in Higher Education (SKVC)

Tamara Salova (Russia)

Deputy Review Chair, Russian expert

Doctor of Engineering Sciences, Professor of the Department of Power Supply of Enterprises and Electrotechnics, previously – Head of the Department of Technological Electric Power Systems, Saint-Petersburg State Agrarian University, member of the Guild of Experts in Higher Education

A nominee of the Guild of Experts in Higher Education

Viktor Bolgov (Estonia)

Panel member, foreign expert

Doctor of Engineering Sciences, Senior Research Fellow of the Institute of Electrical Engineering, Tallinn University

A nominee of the Estonian Higher Education Quality Agency (EKKA)

Vasiliy Glushakov (Russia)

Panel member, representative of the professional community

Head of the Department of Fuel and Energy Complex and Energy Saving, the Ministry of Energetics, Industry and Communications of the Stavropol Territory

A nominee of the Ministry of Energetics, Industry and Communications of the Stavropol Territory

Vladimir Staroverov (Russia)

Panel member, representative of students

Chairman of the Student Council, Gorbachev Kuzbass State Technical University, 1st year Master's Degree student in «Design and Technological Support of Machine-Building Productions», coordinator of the Russian Student Union in the Kemerovo Region, member of the Russian Non-Governmental Organization «Russian Union of Engineers«, member of the «Association of Students and Student Unions of Russia» in the Kemerovo Region

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

INFORMATION ON THE LEADING TEACHERS OF THE EDUCATIONAL PROGRAMMES

Vladimir Khorolskii

Doctor of Engineering Sciences, Professor of the Department of Electrical Power Supply and Electric Equipment Exploitation, the Faculty of Electrical Power Engineering

Vladimir Khalutkin

Doctor of Engineering Sciences, Professor of the Department of Physics

Gennadii Nikitenko

Doctor of Engineering Sciences, Professor, Head of the Department of Electricity Use in Agriculture

Igor Minaev

Candidate of Engineering Sciences, Professor of the Department of Electrical Engineering, Automatics and Metrology

Sergeii Anikuev

Candidate of Engineering Sciences, Associate Professor of the Department of Electrical Engineering, Automatics and Metrology

Vladimir Kobozev

Candidate of Engineering Sciences, Associate Professor of the Department of Electrical Power Supply and Electric Equipment Exploitation

Aleksey Efanov

Candidate of Engineering Sciences, Associate Professor, Head of the Department of Electrical Power Supply and Electric Equipment Exploitation

Vitalii Shemyakin

Candidate of Engineering Sciences, Associate Professor of the Department of Electrical Power Supply and Electric Equipment Exploitation

Igor Vorotnikov

Candidate of Engineering Sciences, Associate Professor, Head of the Department of Electrical Engineering, Automatics and Metrology

Maksim Mastepanenko

Candidate of Engineering Sciences, Dean of the Faculty of Electrical Power Engineering, senior teacher of the Department of Electrical Engineering, Automatics and Metrology

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: **substantial compliance**

Good practice:

Work on creation and modernization of objective and independent system of quality assurance oriented to the peculiarities of the educational process is carried out.

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

The internal system of quality assurance is based on developed normative documents that regulate contents, organization and control of quality of the educational process.

Control of education quality is carried out in accordance with the Provision on the University Control of Quality of the Educational Process in Stavropol State Agrarian University.

Quality assurance of the educational programme is provided by self-assessment of quality of students' training, quality of resources, the educational programmes, educational infrastructure, qualification of the teaching staff, and competence of graduates.

Areas for improvement:

It is advisable to involve stakeholders in assessment of education quality more actively.

It is necessary to enhance roles and functions of all University subdivisions in processes and procedures of the internal system of quality assurance.

It is recommended to involve graduates and employers in formation of strategic goals and development of the internal system of quality assurance more actively.

It is advisable to publish the main documents regulating the educational process of the University on the English version of the official web-site.

It is recommended to involve stakeholders in procedures and events that provide the system of quality assurance more actively.

STANDARD 2. Design and approval of programmes

Compliance with the standard: **full compliance**

Good practice:

The purposes of the programme are clearly defined and correspond to the University mission and requirements of the educational and professional standards.

The educational programmes are regularly reviewed and corrected in accordance with the demands of the labour market, changes in the standards and the results of questionnaires of stakeholders.

Questionnaires of students are regularly carried out. There is the control system of the educational process.

Contents of the programmes are clearly defined. Procedures of assessment of students' competences correspond to the requirements of the standards.

Areas for improvement:

It is advisable to take into account opinions of graduates and employers when developing and correcting the educational programmes.

It is recommended to involve employers in the educational process more actively.

It is advisable to provide close link of the topics of students' graduation works and practical activities of the enterprises.

It is necessary to involve employers and graduates in correction of the programme.

STANDARD 3. Student-centered learning and assessment

Compliance with the standard: **full compliance**

Good practice:

Requirements of different groups of students are taken into account. Students have the possibility to make individual learning paths.

There are promotion methods for the students to participate in joint design of the educational process.

There is a system of financial and non-financial support of students.

There are courses of further vocational education that take into account interests and demands of students.

Areas for improvement:

It is necessary to stimulate students for active participation in joint design of the educational process, as well as to inform them about the University possibilities.

It is advisable to explain the students the specific character of different forms of academic progress control and implementation of the educational programmes.

It is recommended to use modern methods and models of work in cyberspace (developed training courses, programmes, etc.).

It is advisable to explain procedures of appeal and response to students' claims.

It is necessary to improve infrastructure for people with disabilities.

It is recommended to carry out independent assessment of learning outcomes.

It is advisable to hold exams with the help of two teachers.

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

Compliance with the standard: **full compliance**

Good practice:

A systematic work on career guidance is carried out.

There are effective rules and procedures of applicants' admission, transfer of students from other higher education institutions.

A systematic work on support of students' academic progress is carried out.

Students have the possibility to work with electronic resources which are available in the Internet.

Areas for improvement:

It is advisable to inform the students about international academic mobility.

It is necessary to improve students' linguistic skills.

It is recommended to develop and give the European Diploma Supplement.

It is necessary to take into account disciplines of foreign higher education institutions to improve mobility of students.

STANDARD 5. Teaching staff

Compliance with the standard: **substantial compliance**

Good practice:

The highly qualified teaching staff corresponds to the requirements of the standards.

There is a system of financial and non-financial support of teachers.

There are clear and transparent criteria of assessment of training quality.

There is a system of training, retraining and professional development of teachers.

Areas for improvement:

It is advisable to involve foreign teachers and external experts on electrical and heat power engineering in the educational process on a systematic basis.

It is necessary to implement innovations in training, in particular, to improve teachers' qualification in use of modern teaching technologies and publication of own course books and study guides on disciplines of the educational programmes.

It is advisable to improve the English language abilities.

It is recommended to use modern world educational materials.

STANDARD 6. Learning resources and student support

Compliance with the standard: **full compliance**

Good practice:

Numerous agreements with enterprises allow to continuously renew material and technical resources of the Departments and train students able to understand peculiarities of power equipment exploitation.

Students and teachers have an access to national electronic resources and library systems.

Areas for improvement:

It is recommended to continue development of laboratory facilities and implement innovative technologies in the educational process.

It is necessary to provide an access to the international data bases and course books of foreign authors.

It is recommended to use modern educational and research materials, including the foreign ones, more actively.

It is advisable to increase, as far as possible, the number of practical and laboratory classes with the use of available material ant technical resources.

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

Compliance with the standard: **full compliance**

Good practice:

The system of collection and monitoring of information about the educational process is effective and is continuously developing.

Information about employability and demand for graduates is regularly published in the internal resources of the University.

There is a united information network and electronic educational environment.

Areas for improvement:

It is necessary to improve the system of cooperation with the graduates for better planning of the educational process.

It is advisable to motivate students for more active assessment of the educational programmes.

STANDARD 8. Public information

Compliance with the standard: **substantial compliance**

Good practice:

The official web-site of the University is available and effective for improvement of quality of the educational programme.

The University cooperates with regional press and mass media to inform the public about achievements and events of the educational organization and the educational programmes.

Information about employability and demand for graduates is regularly published on the internal resources of the University.

Areas for improvement:

It is necessary to inform the students about career possibilities, the results of activity of specialized student detachments, research and academic achievements of students.

It is recommended to involve students in search for a future job with the help of electronic means, as well as to recommend the students for potential employers.

It is advisable to develop the section for employers on the University web-site.

It is necessary to inform the public about advantages of students' internships in foreign countries on the official web-site of the University.

It is recommended to represent achievements of the educational programmes at the international level.

It is advisable to promote achievements of the University and the educational programmes in the international educational environment.

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

Compliance with the standard: **full compliance**

Good practice:

Monitoring of the programmes' quality is carried out regularly. An organized feedback system with students and employers is in place.

Contents of the educational programmes are corrected and updated in accordance with the last achievements of science.

Suggestions of employers and students are taken into account.

Areas for improvement:

It is recommended to enhance implementation of achievements of foreign higher education institutions.

It is advisable to analyze the best recommendations on improvement of contents of the educational programmes received from employers and graduates working in different spheres of activities.

It is necessary to update contents of the working programmes of disciplines with the account of the best practices of foreign universities.

It is advisable to extend the ways of employers' involvement in assessment of the educational programmes, in particular, by organization of a remote access to questionnaires.

STANDARD 10. Cyclical external quality assurance of the educational programmes

Compliance with the standard: **full compliance**

Good practice:

The University is listed in the top-rankings of Russian universities.

The University actively participates in organization of external independent assessment of quality of educational programmes.

Work on preparation of accreditation procedures and independent assessment by leading Russian and foreign agencies of education quality assurance is carried out regularly.

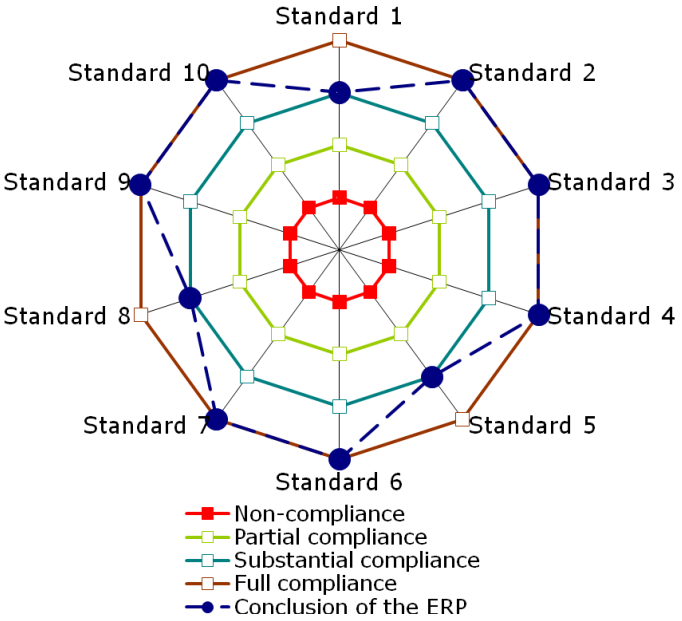
Areas for improvement:

It is advisable to provide assessment of quality of the educational programmes by foreign organizations in power industry for monitoring and comparative analysis of education quality.

It is recommended to involve the graduates in external review of the educational programmes.

It is advisable to cooperate with foreign organizations in power industry for monitoring and comparative analysis of education quality.

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 «Electrical Power Engineering and Electrical Engineering» (13.03.02, 13.04.02), further education programme «Occupational Safety and Health Management» **substantially** comply with the standards and criteria of public accreditation of the National Centre for Public Accreditation.

The Panel recommends that the National Accreditation Board accredit the cluster of the educational programmes «Electrical Power Engineering and Electrical Engineering» (13.03.02, 13.04.02), further education programme «Occupational Safety and Health Management», delivered by Stavropol State Agrarian University for the period of **6 years**.

SCHEDULE OF THE SITE VISIT OF THE EXTERNAL REVIEW PANEL

Time	Activity	Participants	Venue
March 28, Tuesday			
8.45	Arrival at the University		Main Building, 12, Zootechnochesky per.
09.00 — 11.00	The first meeting of the external review panel		Room 50, Main Building, 12, Zootechnochesky per.
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	Room 53 (White Hall), Main Building, 12, Zootechnochesky per.
12.00 — 13.00	Tour of the University (visiting classrooms, library, etc.)	ERP	Main Building, 12, Zootechnochesky per.
13.00 — 14.00	Lunch		Main Building, 12, Zootechnochesky per.
14.00 — 15.00	**Meeting with Dean and Deputy Deans**	Dean, Deputy Deans, ERP	Room 213, Laboratory Building, 12, Zootechnochesky per.
15.30 — 16.00	Work with documents	ERP	Room 214, Laboratory Building, 12, Zootechnochesky per.
16.00 — 17.00	**Meeting with Heads of Departments**	Heads of Departments, ERP	Room 213, Laboratory Building, 12, Zootechnochesky per.
17.00 — 17.30	Internal meeting of the ERP	ERP	Room 214, Laboratory Building, 12, Zootechnochesky per.
17.30 — 18.30	**Meeting with graduates**	Graduates, ERP	Room 213, Laboratory Building, 12, Zootechnochesky per.
18.30 — 19.00	Internal meeting of the ERP	ERP	Room 214, Laboratory Building, 12, Zootechnochesky per.

Time	Activity	Participants	Venue
March 29, Wednesday			
08.45	Arrival at the University		Main Building, 12, Zootechnochesky per.
09.00 — 10.45	Work with documents/ Visiting classes	ERP	Room 50, Main Building, 12, Zootechnochesky per.
10.45	Transfer to the laboratory building of the Faculty		Room 214, Laboratory Building, 12, Zootechnochesky per.
11.00 — 12.00	**Meeting with teachers**	Teachers, ERP	Room 213, Laboratory Building, 12, Zootechnochesky per.
12.00 — 12.30	Internal meeting of the ERP	ERP	Room 214, Laboratory Building, 12, Zootechnochesky per.
12.30 — 13.30	**Meeting with teachers**	Students, ERP	Room 213, Laboratory Building, 12, Zootechnochesky per.
13.30 — 14.30	Lunch		Main Building, 12, Zootechnochesky per.
14.30 — 16.30	Work with documents / Visiting classes (at the wish of the ERP)	ERP	Room 214, Laboratory Building, 12, Zootechnochesky per.
16.30 — 17.30	**Meeting with representatives of professional community**	Employers, ERP	Room 213, Laboratory Building, 12, Zootechnochesky per.
17.30 — 18.00	Internal meeting of the ERP	ERP	Room 214, Laboratory Building, 12, Zootechnochesky per.
March 30, Thursday			
08.45	Arrival at the University		Main Building, 12, Zootechnochesky per.
9.00 — 13.00	Internal meeting of the ERP: discussion of preliminary results of the site visit, preparation of the oral report of the panel	ERP	Room 214, Laboratory Building, 12, Zootechnochesky per.
13.00 — 14.00	**Closing meeting of the External Review Panel with the representatives of the University**	ERP, University administration, Heads of the Graduate Departments, teachers, students	Room 1, Main Building, 12, Zootechnochesky per.
14.00 — 15.00	Lunch		Main Building, 12, Zootechnochesky per.
	Departure		