

# INDEPENDENT AGENCY FOR ACCREDITATION AND RANKINGS

## *External Expert Commission*



Independent agency for  
accreditation and rating

### REPORT

on the results of the External Experts Commission for compliance with the standards of the specialized accreditation of educational programs

**5B073100 - "Life safety and environmental protection," 5B080200 / 6M080200 - "Technology of production of cattle breeding products," 5B080300 - "Hunting study and fur farming", 5B080700 - "Forest resources and forestry" educational programs of Shakarim State University of Semey from June 9 to June 11, 2015**

In accordance with the order of an independent agency for accreditation and rating from 9 June to 11 June 2015 external expert committee evaluated the compliance of educational programs of Shakarim State University of Semey with the standard names of the specialized accreditation IAAR. The report of the External Expert Commission (EEC) contains an assessment of compliance of presented educational programs provided by educational organization with criteria of IAAR, EEC recommendations for further improvement of educational programs and the profile parameters of SSU of Semey.

The composition of the EEC:

1. **The chairman of the commission** - Toybaev Adlet Zhunisovich, Ph.D., Vice rector for Academic Affairs of the Kazakh State Women's Pedagogical University (Almaty);
2. **Foreign Expert** - Verzilina Natalia, PhD in agricultural sciences., Professor, Head of the Center for Employment of the Voronezh State Agrarian University named after K.D. Glinka, an expert of 'Guild of experts in the field of vocational education "(Voronezh, Russia);
3. **Expert** - Aryngazin Kapar Shakimovich, Ph.D., Professor, Head of the Department "Vocational training and environmental protection" of Pavlodar State University of S. Toraigyrov (Pavlodar);
4. **Expert** - Begembekov Kyrgyzbai Nurgazyevich, PhD in agricultural sciences., a member of the International Informatization Academy, Associate Professor of the Department of "Technology of production of cattle breeding products and fish-farming" of the Kazakh National Agrarian University (Almaty);
5. **Expert** - Nurgaliyev Akyzbek Muratovich, PhD in agricultural sciences., Associate Professor, West - Kazakhstani Agrarian Technical University of Zhangir Khan, Department of "Ecology and Nature" (Uralsk);
6. **Expert** - Asangaliev Elibek Atrauovich academician, PhD in agricultural sciences., Associate Professor, Head of Department of "Forest resources, wood technology and processing facilities," of East Kazakhstan State Technical University named after D. Serikbaev (Ust-Kamenogorsk);
7. **Expert** - Shkutin Larisa Arnoldovna, doctor of pedagogical sciences, Professor of the Department of Theory and a preschool and psycho-pedagogical preparation of the Karaganda State University named after academician E.A. Buketov (Karaganda);
8. **Expert** - Aldabek Nurzhamal Abdrazakkyzy, Doctor of History, Professor of the Department of Chinese Studies of the Faculty of Oriental of Kazakh National University named after Al-Farabi (Almaty);
9. **Expert** - Madieva Galia Bayanzhanovna, Ph.D., assistant professor of physical education and sport Kazakh National University of Al-Farabi (Almaty);
10. **Expert** - Begembetova Galia Zaynakulovna, Ph.D., Associate Professor (Academic), the vice-rector for educational work of the Kazakh National Conservatory of Kurmangazy (Almaty);
11. **Expert** - Bodikov Seyfolla Zhamauovich, Senior lecturer in fine art, Associate Dean for Academic Affairs, Member of the Union of Designers of the Republic of Kazakhstan, a member of the Eurasian Union of Designers, Karaganda State University of E.A. Buketov (Karaganda);
12. **Expert** - Ivashov Arslan Amanbaevich, PhD, Associate Professor of Journalism and International Relations, University of International Business (Almaty);

13. **Expert** -Lashkareva Olga, Ph.D., associate professor, head of the department of "Economic Theory" of the Eurasian National University named after L.N. Gumilev (Astana);
14. **Expert** - Seydahmetova Sholpan Ganievna lawyer (Almaty);
15. **The observer from the Agency** - Aymurzieva Aygerim Urinbaevna, Agency Project Manager (Astana);
16. **The employer** - Kiremetskaya Lilia G., Deputy Director of the Semipalatinsk zonal forest seed station "Kazakh state forest seed establishment" (Semey);
17. **The student** - Orazgalieva Madina Rolanovna, 4th year student majoring in specialty 5B030100 - "Jurisprudence" of Kazakh Humanitarian Juridical Innovative University (Semey).

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## 1. PRESENTATION OF SHAKARIM STATE UNIVERSITY OF SEMEY

In 2013, the Decree of the Government of the Republic of Kazakhstan dated 05.29.2013 №529 Shakarim State University of Semey was formed by integration of the Semipalatinsk State University of Shakarim and Semipalatinsk State Pedagogical Institute.

The quality and management system is implemented and certified in ShSU. The university is a signatory to the Taraz Declaration and the Great Charter of Universities, since 2011 is - a member of the Eurasian Association of Universities. The university is accredited for a period of 5 years by an independent agency for accreditation and rating of the Republic of Kazakhstan.

The university carries out training of specialists in 10 areas (education, humanities, law, the arts, social sciences and business, science, engineering and technology, agricultural sciences, services, veterinary), in 67 bachelor programs, two specialties of higher professional education, 39 master programs and 6 specialties of doctoral studies PhD. The contingent of students at the University on September 1, 2014 is 5307 people. The contingent of master students is - 266 people, a contingent of doctoral students is - 6 people, 107 international students from Mongolia, China, South Korea, Russia and Azerbaijan study at the university.

The University consists of 9 faculties, 39 departments, 9 research institutes and research centers. The infrastructure of a high school includes 8 academic buildings, four dormitories, 3 laboratory, 2 sports complexes with a swimming pool.

The educational process is served by the faculty in the amount of 556 people, full-time - 473 people (85%) of which - 37 doctors, professors, 200 associate professors.

### DESCRIPTION OF EEC VISIT

Visit of foreign expert committee at the Shakarim State University of Semey was organized in accordance with a program agreed in advance with the Chairman of the EEC (annex) and approved by the rector of the institute.

In order to coordinate the work of EEC a setting meeting was held, during which were distributed the powers between members of the Commission, to clarify the schedule of the visit, agreed in the selection of methods of expertise.

Meetings of EEC with focus groups were held in accordance with the updated program of the visit, with the observance of the established time period. Shakarim SU of Semey provided the presence of all the persons mentioned in the program of the visit.

During the visit, in addition to working with the target group there were held discussions with students and teachers of the university, graduates and employers. The EEC members attended classes in:

- EP 5B080700 - "Forest resources and forestry" on the subject "Forest seed" (senior lecturer Mukhametzhanova O.T.), as well as a museum, computer classrooms, specialized classrooms, laboratories, a library, a gym, a hostel.

The EEC work had all the conditions, had access to all the necessary information resources.

Within the planned program the recommendations for improving the performance of Shakarim SU of Semey developed on the basis of examination of EEC, were presented at a meeting with the leadership on June 11, 2015.

## GENERAL ASSESSMENT OF EDUCATIONAL PROGRAMS

Educational programs of specialties of higher and postgraduate education in 5B073100 - "Safety and environmental protection," 5B080200 / 6M080200 - "Technology of production of cattle breeding products," 5B080300 - "Hunting study and fur farming" 5B080700 - "Forest resources and forestry" are implemented in accordance with the State Programme of the Development of Education of Kazakhstan for 2011-2020., State educational standards of the RK, Strategic Development Plan of Shakarim State University of Semey in 2013 - 2022. Forms of study - full-time, part-time, DET, the language of education - Kazakh and Russian.

Each training cycle has a basic and a profile parts. The profile part allows expansion or deepening of knowledge, skills of formation of a group of competencies defined by content of basic disciplines, which allows a master student to continue the education at the next level of higher education (doctorate).

Working curricula of the 2014/2015 academic year are created in accordance with the new model curricula. The structure of the educational program of a bachelor degree also provides practical training for undergraduate: various types of practices, research (experimental research) work.

In accordance with the needs of students, the employers' and the labor market's requirements the content of educational programs is adjusted annually through the catalog of elective disciplines (CED) and through the updating of the work programs of academic disciplines.

Individual profiling ensures the formation of key and special group of competencies.

Modern educational technologies: ICT, problem-based learning technology, the technology of project activity, the TRIZ technology, technology of collective and interactive learning, case studies, and others are used to ensure the quality of training of specialists relevant to the requirements of the labor market.

Evaluation of educational achievements and the level of training of master students is provided through the use of score-rating system with the help of the information-educational environment of high school - AIS «Platonus».

Shakarim State University of Semey operates in accordance with:

1. Charter of the RSE on RB "Shakarim State University of Semey" of MES. Certificate of state registration of legal entity №3992-1917-27-SE from 08.12.2013 issued by the Department of Justice of Semey of the Department of Justice of the East Kazakhstan region.
2. State license for the provision of educational services: number 13013970 dated 28 August 2013, issued by the MES and applications:
  - 5B073100 - "Safety and environmental protection» (№13013970 of 28 August 2013);
  - 5B080200 / 6M080200 - "Technology of production of cattle breeding products» (№13013970 of 28 August 2013);
  - 5B080300 - "Hunting study and fur farming» (№13013970 of 28 August 2013);
  - 5B080700 - "Forest resources and forestry» (№13013970 of 28 August 2013).

***Educational programs of this cluster have the following positive aspects:***

- The organization of educational process in accordance with the priorities of the national policy in the sphere of education, science and innovational development;
  - Modular structuring of educational programs;
  - Development of educational programs to the competent approach;
  - Educational programs provide the opportunity to build individual training paths;
  - the balance of theoretical and practical modules is kept in Educational programs, the practitioners are involved to implement the content of EP;
  - Availability of courses with a practice-oriented content (eg, "Fire and explosion protection of industrial and civil objects" "safety of engineering systems and networks" - industrial safety, "Organization and management of rescue service in an emergency" "Rescue work" - protection in emergency situations, "Rationing of resources of hunting animals and birds" - keeping of wild animals in the cattle breeding business - Assessment of breeding qualities of animals); in specialty "Forest resources and forestry" - discipline - "Environmental management", "Protected areas", "Forest resource study";
  - The educational programs Management works closely with potential employers and with the members of practice bases: involve them in the development, examination and implementation of educational programs;
  - Forms of control are adequate to formed competences;
  - Research Library provides access to the catalogs of the Republican Interuniversity Electronic Library (RIEB) database "Yurayt" and to global databases and resources, "Thomson Reuters», «ELSEVIER», «Russian State Library», «EBSCO», «RHO», «EBS "Lan";
  - There function Information Resources: learning management system AIS «Platonus», Digital Library, site of information technology services.
- Meeting the needs of educational objectives and content of the program is achieved by:
- the employers agency in the collective management bodies (eg. Board of Trustees), coordination of a block of elective courses with them, coordination of programs of professional practices, giving them bases of practices, through the involvement of practitioners to read certain courses, for the participation in the membership of the SAC , in reviewing the theses;
  - Through the choice of students' individual training paths and elective modules;
  - the teachers' possibility to offer their courses and develop EMCD.

Thus, the university ensures the participation of all stakeholders (administration, teachers, students and employers) in defining the goals and strategies for the development and improvement of educational programs through questionnaires and interviews. The quality of the educational program is provided by a common QMS of the University, acting on the basis of: government requirements for licensing, certification and state accreditation of educational institutions, standards, requirements and recommendations of ISO 9001

- the use in the classroom and in the performance of research works of modern devices and equipment (dosimeter-radiometer "DRBP-03" dosimeter DKG-03D "Rook", the noise and vibration analyzer "Assistant" and gas detectors, illuminometer AR-823, dummy to demonstrate the artificial respiration "Maxim" – 2 with the indication of actions, mini-Express Lab "Bee - Y», GPS Navigator GARMIN GPS MAP, etc.); the laboratory "Aquaculture" is used for the development of disciplines "Ichthyology", "Fish farming", as well as to work on a master's thesis, which is equipped with the following equipment for the cultivation of sturgeon and carp pool for keeping fish (volume 1.5 m<sup>3</sup>), a mechanical filter Emaux P -400, biological filter,

oxygen concentrator, water analyzer, UV light, gasoline generator, air compressor; for laboratory and practical classes on subjects "Animal Physiology", "cytology", "Animal Nutrition", "feeding fur animals": fluorescent microscope Micromed - 3 LUM, a glass capillary viscometer IWF-4, microscopes Electric - Binocular model Biomed- 4, EC ECG ST-01 "R-D, the centrifuge cabinet extractor hood, Mills grain laboratory, electronic scales, muffle furnace, Keldal's device in combination with Dewar's container, water heater thermostat Dry-air, water thermostat TW-2 ( 5 pieces), drying cabinet;

- In the educational process the faculty uses the results of their research to improve the content of training courses of educational programs for students in bachelor program. For example, "Environmental Pollution", "Geocology" (5B073100 - "Safety and protection of the environment"), the textbook "Anatomy of the birds" that includes the research of a Doctor of Veterinary, professor Tokayev Z.K., PhD in agriculture, professor K.R. Satieva is used in studying the discipline "morphology of animals" which is published in Russian and the state languages. The materials of this textbook are used for courses "Ornithology" and "morphology of fur-bearing animals and birds," a monograph "fat-tailed sheep of northeast of Kazakhstan" is used in studying of discipline "Modern technology of production of sheep breeding", were published the "Recommendations for improving breeding and productive qualities of the Kazakh fat-tailed half-coarse breed (interbreed type "Bayys")" in Kazakh and in Russian for undergraduates, which includes the research of acting Professor K.H. Nurzhanova. There were issued textbooks, monographs in Kazakh and Russian languages: "The morphology of animals with Latin veterinary terminology" of professor Tokayev Z.K., "general animal husbandry", "Methods of environmental studies of the environment", a monograph "Korektendirudi kunarlandyru" of Professor B.J. Kozhebaev, the manual in the state language "Zhasusha biologiyasy", manual "Kustar anatomiyasy" of associate professor Satieva K.R., acts of implementing the results of research into production of Akhmetova B.S., Korabaev Z.Z., Iglikov O.D., the senior teacher Borisenko E.V. is the author of two books: "Textbook of forest exploitation" and "Tutorial in forest merchandising", Professor Seylgazina S.M., senior teacher Kalamov B.H., acting associate professor G.I. Dzhamanova are the authors of manuals on forest inventory, forest protection. Senior Lecturer Mukhametzhanova O.T. is the author of a textbook on the forest seed in the official language.

- Demand for graduates in the labor market (for example, in specialty 5B080200 "Technology of production of cattle breeding products" annually receives requests from farms, from the regional and district departments of agriculture. All graduates of the mentioned above specialty are employed - 100%. The graduates of the specialty 5B080300 "Hunting study and fur farming" are mainly employed in the State establishment "Semey forest", Caton - Karagai national natural park, or - Alatau National Nature Park, for example, the shortage of forestry professionals in SE "Semey forest" is more than 50 positions);

- Implementation of one of the basic principles of modern management - the establishment of mutually beneficial relations with partners, including employers. On this basis, the preparation of bachelors is carried out in close connection with the agencies involved in the practical educational activities.

Educational program 5B073100 - "Safety and environmental protection" has the following positive aspects:

- Development of modular working curricula of specialties with alternative training paths.



- Organization of seminars, roundtables, webinars for students. In 2014 Yaneva S.A., PhD in Chemical Technology and Metallurgy, University of Sofia (Bulgaria) was invited to deliver lectures in the formed EP of the department.
- Existence of a contract with companies, organizations, research institutes on passing professional practice. The participation of employers in the development of working curriculum and QED.
- A large percentage of the employment of graduates in the specialty.
- Dynamically developing material-technical base.
- The introduction of quality management system in the activities of the structural units of the university.

Educational program **5B080200 / 6M080200 - "Technology of production of cattle breeding products"** has the following positive aspects:

- Development of modular working curricula of specialties with alternative training paths.
- Existence of a contract with companies, organizations, research institutes on passing professional practice.
- The possibility of lifelong learning at the level of bachelor-master.
- A large percentage of the employment of graduates in the specialty.
- A significant percentage of student participation in the research on grant topics and commercial contracts.
- The publication of educational literature by the faculty of the Department in profile subjects in the national language.

Educational program **5B080300 - "Hunting study and fur farming"** has the following positive aspects:

- the content of EP in the specialty was shaped in accordance with the interests of employers.
- Rapidly firming material base of the university is positively reflected in the material equipping of EP.
- organization of seminars, roundtables, webinars for students. For example, a workshop was held by PhD in Agricultural Sciences, Senior Researcher Iskhan K.J. delivered lectures on formed EP the department invited scientists from the United States and Russia - Professor SI of Timiryazev - Yuldashbaev Y.A., doctor PhD from the University of North Dakota Travis Dawid.
- A large percentage of the employment of graduates in the specialty.
- Positive feedback from employers about the level of preparation of graduates.
- Among the National ranking the higher educational institutions of the Republic of Kazakhstan the specialty took 2 nd place in the 2011-2012 academic year, in 2012-2013, the 3rd place.
- Continued participation of students in national competitions and contests and winning prizes.

Educational program **5B080700 - "Forest resources and forestry"** has the following positive aspects:

- Development of modular working curricula of specialties with alternative learning paths.
- A contract with companies, organizations, research institutes studying the passage of professional practice.
- A large percentage of the employment of graduates in the specialty.

- The publication of educational literature by faculty of the Department in profile subjects in the national language.
- The introduction of quality management system in the activities of deans and departments of the University.
- Implementation of Project Expert software in the learning process.
- Organizing and conducting seminars, round tables for specialists. Forestry of EKR. For example, a round table on the topic "Methods of preservation and restoration of forests," urban workshops for forestry experts.
- A large percentage of the employment of graduates in the specialty.
- Modular structuring of educational programs;
- Formation of EP content in the interests of employers, students, teachers.
- A significant percentage of the employment of graduates in the specialty.
- Dynamic material-technical base of the university.

## COMPLIANCE WITH THE STANDARDS OF SPECIALIZED ACCREDITATION

### 1) Standard "Management of the educational program"

Management and development of the EP of specialties 5B073100 - "Life safety and environmental protection," 5B080200 / 6M080200 - "Technology of production of cattle breeding products," 5B080300 - "Hunting study and fur farming" 5B080700 - "Forest resources and forestry" are carried out in accordance with the regulatory documents of the Republic of Kazakhstan and MES, the Development Strategy of Shakarim State University of Semey, taking into account the program of education development of the Republic of Kazakhstan for 2011-2020, regulations, mission and strategic priorities of the University.

Educational programs are designed in accordance with the SES of specialties and SES of higher and postgraduate education, approved by the act of Government, consistent with the mission of the university and the relevant demands of employers. The Commission notes a sufficient level to provide qualified educational services at the university, adequacy of accredited educational programs to the requirements of modern society and the problems of industrial-innovative development of the region.

Planning the learning process is represented by the structure of related documents (model curricula, a catalog of modules, the basic operational training plans, individual training plans for students, undergraduates, working curricula of specialties) and a set of different types of educational-methodical documentation. To implement educational programs annually there are developed catalogs modules, which describe the discipline component of choice with a brief indication of the content of pre- and postrequisites. Program courses are designed at the proper scientific and methodical level. An integral part of the learning process of the university today - is an automated electronic system Platonus. Students' weekly current ratings, mid-term ratings of are exhibited in this system. With a username and password, the student, tracks the progress of his own work during the semester in the evaluation of teachers. The automated electronic system Platonus allows disciplining, organizing the work of a teacher and a student, to increase the effectiveness of the educational process.

Process and procedure for the approval of educational programs supported through the development of legal and administrative documentation and is ensured by its availability to the team. The implementation of educational programs and their compliance with the vision, mission

and strategy is provided in the first place, through the planning system. According to the mission of the Faculty of Economics, Law and Humanities the educational program's aim is to provide postgraduate education of specialists in the region with the fundamental knowledge and practical skills and abilities, innovative approaches, research skills, professionals with bachelor's practical skills necessary for production. The strategy of development of the agricultural faculty is the basis for the development by departments of development plans of EP and annual operational plans in specialty.

The contents of EP is designed on the basis of the principles of continuity and consistency with the previous levels of education; ensures the completion of each stage of education and enables to interrupt the education to enter the sphere of professional activity or to continue their education. The goals, objectives, contents, methods, techniques, means and forms of organization of learning at all educational levels are consistent.

Access to the information resources of the University of the global network is carried out at the following addresses:

- [Http://semgu.kz](http://semgu.kz) - site of the university. The site provides information about the university as a whole, as well as all the faculties, departments and structural subdivisions;
- [Http://mail.semgu.kz](http://mail.semgu.kz) - authorized access to the mailbox, having a domain name semgu.kz;
- [Http://umu.semgu.kz](http://umu.semgu.kz) - authorized access to the resources of Educational Department;
- [Http://edu.semgu.kz](http://edu.semgu.kz) - authorized access of teachers and students working and studying in the loan program.

Educational Internet portal of the University has three addresses are: <http://ais.semgu.kz>, <http://student.semgu.kz> - educational portals of its own design are used in the management of the educational process; <http://moodle.semgu.kz> - Educational Management Portal.

Access to the Internet will significantly improve the quality of education, the use of modern educational technologies in the educational and scientific processes, the creation of technical capabilities for the full functioning of the single educational portal of the Internet and video conferencing.

Educational-methodical complexes, which are located in the AIS «Platonus» are developed in all modules EP.

Television is one of the forms of informing students, staff and stakeholders at Shakarim State University of Semey – in all buildings of the university. Televisions are located in hallways, corridors and demonstrate the latest news, events and interesting information about the university.

A large amount of information - is the site of Shakarim State University of Semey [semgu.kz](http://semgu.kz), there functions e-mail delivery, allowing operatively transmit dean's orders to the e-mail address of each student, and back.

The content of educational programs 5B073100 - "Safety and environmental protection," 5B080200 / 6M080200 - "Technology of production of cattle breeding products," 5B080300 - "Hunting study and fur farming" 5B080700 - "Forest resources and forestry" reflects the current state of the scientific knowledge necessary for specialist in his future endeavors, and largely achieved through harmonization of education programs with employers, training of teachers, as well as due to the constant renewal of the library fund of the University.

According to the plans of the departments the relevance and content of educational programs, formation and approval of the list of theses and master's theses, development and updating EMCD the disciplines EP with the involvement of all stakeholders (leadership OD, PPP

OP, employers, graduates) is annually discussed in September. So, in the development of working training plans and a catalog of elective disciplines of educational programs took part: 5B073100 - "Safety and environmental protection" - a branch of SA "KazSeleZashshita" of the Committee for Emergency Situations of MIA of RK" Semipalatinsk Regional Services Department, "Department of State Ecological Control Semey RSA "The Department of Ecology on EKR", Research Institute for Radiation Medicine and Ecology (Semey), 5B080200 / 6M080200 - "Technology of production of cattle breeding products" - specialists of the department of agriculture and veterinary medicine of Semey, 5B080300 - "Hunting study and fur farming" - experts of the scientific department SA "Semey forest" 5B080700 - "Forest resources and forestry" - "Semey Forest", Semipalatinsk zonal Forest Seed Station RSA "Kazakh state forest seed administration". The individuality and uniqueness of the accredited EP orientation is determined in the regional labor market, natural resources and socio-economic infrastructure of East Kazakhstan.

The requirements imposed by employers are reflected in the module, job training plans, individual training plans for students and undergraduates.

Benchmarks of educational programs are structured by types and areas of activity and include administrative, educational, scientific, educational, economic, marketing and career-oriented jobs, which are the base for the organization of planning, development and consistent quality of provided services.

On the basis of the existing planning system at the level of the university and department carries out regular monitoring of performance and adjust plans for the development of educational programs and their implementation, and operational plans. During the implementation of EP collects and analyzes statistics on the contingent and graduates of students, available resources, personnel, research and international activities, and other areas, and the extent of planned results is monitored.

The effective forms provide feedback system, focused on students, staff and stakeholders. These are systematic meetings with the rector of the team, holding the Faculty Council with the participation of senior management, the institution of supervision, direct mail of Rector's blog on the website of the university.

Preventive and corrective action, efficiency and effectiveness of which is considered at faculty meetings, EMC and the Faculty Council are developed on the basis of the analysis and evaluation of monitoring indicators.

The commission revealed that in general, the university faculty demonstrated a fairly high satisfaction index for items such as the content of the educational program - 84%, the possibility for the continuous development of the potential of faculty - 84%. Some positions require careful consideration, although the satisfaction indexes in them are higher than average, for example: the perception of criticism by the management and university administration is (70%); compliance of the fixed workloads with the desires and possibilities of faculty (66%).

The Commission notes the close cooperation departments with employers in the organization of practices, diploma projects, with career guidance, distribution of graduates.

The strengths of the EP are:

- The quality management system;
- The availability of an educational portal;
- The possibility of providing continuous education system "bachelor-master";
- A high level of informatization of education;

- EP of the specialty meets the needs of the state, stakeholders and students;
- Involvement in the management of EP students, teaching staff, employers;
- The presence of the planning system (long-term, medium-term, short-term) and monitoring the implementation of plans;
- The use of modern methods of processing and transmission of information to improve the efficiency of working with external and internal documentation;

EP weaknesses are:

- The risks are not clearly assessed and the ways of reducing are not determined;
- There are not developed educational programs with Kazakhstani and foreign universities;
- Insufficiently developed vocational guidance work among students (secondary schools, colleges);
- Insufficient involvement of practitioners to conduct training sessions;
- Insufficient implementation of innovative methods in the educational process;
- Insufficient knowledge of foreign languages of the department's employees.

#### **The Commission recommends:**

- To assess the risks of the implementation of educational programs and to develop measures to reduce these risks.
- Increase cooperation with other institutions implementing similar educational programs.
- To intensify the acquisition of the library of the university textbooks on the direction of training in the Kazakh language.
- Publication of teaching materials of employees of the department in the state language.

**EEC notes that the university has a strong position on 21 criteria, a satisfactory position on 13 criteria, needs improvement on 3 criteria**

#### **2) The standard "The specifics of the educational program"**

Realization of educational programs 5B073100 - "Safety and environmental protection," 5B080200 / 6M080200 - "Technology of production of cattle breeding products," 5B080300 - "Hunting study and fur farming" 5B080700 - "Forest resources and forestry" is aimed at the formation of the professional competence of the future bachelor (masters ) corresponding to the qualification framework and meets the needs of the labor market.

Educational programs include the possibility of building an individual educational path, taking into account the personal needs and capabilities of students.

Students form their own IEP for each academic year, choosing a discipline included in QED. Selection of subjects mostly depends on the EP. Recording to the discipline is carried out in the online mode using the automated system of AIS «Platonus». After selecting disciplines IEP of every student is formed automatically in the system «Platonus». Consultation on the choice of studying individual educational trajectory is carried out by advisors. The distribution of subjects by semesters is carried out in a logical sequence, taking into account the pre- and postrequisites.

EP provides equal opportunity to students in the formation of individual educational program aimed at the formation of professional competence, regardless of the language of education.

There is a system to monitor the progress of a student in the educational trajectory and achievements of students. During the year students are monitored for attendance and academic performance. If students receive in final control assessment "unsatisfactory" mark the final assessment on discipline is not counted. The student, who does not agree with the assessment of the examination, can appeal. The appeal is considered by a special commission consisting of the most qualified teachers of the department.

The management of the EP creates a mechanism to monitor the satisfaction of students of the university in general and the individual services, in particular satisfaction by the feedback system, which includes rapid submission of information on the results of assessment of Master students.

There is an annual review of the content of curricula and training programs, taking into account changes in the market, wishes of Master students and teachers taking into account the views of employers and stakeholders.

In all the educational programs the departments have demonstrated the presence of EP graduate's developed models including the knowledge, skills, competencies and personal qualities necessary and demanded in the labor market. The faculty and employers (heads of educational institutions, experienced methodologists, practical psychology) participate in the development and management of educational programs.

In accordance with the educational program the graduate of a bachelor degree should possess the key and specific competencies. For example, a graduate of Bachelor of EP 5B073100 - "Safety and environmental protection" should: demonstrate the use of scientific principles underlying the professional activity, enforce laws and theories to practical situations, relying on the natural sciences, engineering, technology and mathematics; show humanitarian culture, ethical and legal standards of treating the person, society and the environment, culture of thinking, to explain the state of contemporary social and political issues; synthesize advanced knowledge in the direction of the preparation for the creation and use of modern equipment and technology in their subject area, as well as in related fields; design and develop a system (machine, car), the component (part, assembly), or process for specific conditions with regard to the matters of health and safety, cultural, social and environmental aspects; plan and conduct experiments to analyze and interpret data and draw conclusions in order to achieve the desired result; formulate and solve engineering problems individually using appropriate methods to integrate the issues and organize work, requiring collective participation in project design and evaluation; to present in profile different kinds of information, ideas, problems and solutions to both professional and non-professional audience taking into account scientific and ethical standards and standards of environmental practice; to reason proposals for the solution of design, performance, experimental research or engineering tasks; use Kazakh (Russian), foreign languages in professional activities, professional communication and interpersonal communication, to work in an international environment with an understanding of the cultural, linguistic and socio-economic differences; state safety issues, legal aspects, responsibility for environmental activities, the impact of engineering solutions on the environment; understand the necessity for continuous education and training throughout the period of their professional activities.

According to EP 5B080700 - Forest resources and forestry graduate should know: morphology, biology of trees and shrubs, the laws of development of forest ecosystems, forest typology, structure of forest resources, methods of thinning and felling forests, ensuring its reproduction; methods of forest seed business, the organization to permanent seed breeding and genetic-based methods and cultivation technology of planting material, methods of planting, protective and greening afforestation; basic indicators of forest management and wood processing technology, the use of non-wood benefits of the forest; methods and rules of forest management and forest taxation, the use of aerospace methods in forestry; afforestation of technology and landscape inventory, the role, location and function of controls at the regional level; the nature of managerial work, its value, the function of the head; basic forms of methodical work with the staff. To be able to compile and analyze the information received on the state of forest resources and the main indicators of its operation, to carry out assessments and forecasting development trends, make informed management decisions to achieve high-quality forest cultivation; develop and implement projects of forest nurseries, forest plantations, forest reclamation, thinning of forests, forest management, mechanization of forestry work, forest management; taxing forest, forest management to monitor performance and make their acceptance; organize and carry out work for the protection of forests from fires, damage by cattle, illegal felling, as well as the fight against pests and diseases; make current and annual reports of public institutions of forestry, national parks, etc. relevant enterprises; organize and carry out the work on the design, construction, overhaul and maintenance of landscape architecture objects, reconstruction of green spaces and parks; constitute acts of the forest fires and other violations of forestry legislation; distinguish features of the distribution and habitat of trees and shrubs; to compare different methods of accounting and forecasting yields; analyze the results of the periodicity of fruiting and ways to overcome it; study the relationship of forest resource study with ecology and forest typology, to assess the main patterns of forest life in terms of environmental protection and natural regeneration; systematize the results of forest inventory; forest use, the design of forest management activities, monitoring of the forest fund; develop a model of optimization of forest bases and forest fund; manage and coordinate the work of specialists in forestry; organize activities to care for tree species; summarize the results of pathology monitoring in order to predict the quarantine situation; propose measures to improve the phytopathology situation; planning of forest protection activities in infectious diseases and mass outbreaks of pests.; to prepare components for phytopathological research, determine the cost of the planned activities, the economic damage.

EP 6M080200 – “Technology of production of cattle breeding products” should have an idea about: the required minimum of knowledge in the field of university pedagogy and psychology and teaching experience in high school; the role of science and education in public life; on current trends in the development of scientific knowledge; on current methodological and philosophical problems of natural (social, humanitarian and economic) sciences; on the professional competence of the teacher of high school; the contradictions and the socio-economic impacts of globalization; Have the skills of teaching in universities to carry out research and management activities; Standard solutions of scientific and professional objectives; formulate and solve modern scientific and practical problems in agriculture, to successfully carry out research and administrative activities; analyze and solve practical problems in the organization and manage the activities of the agricultural enterprise; select and apply modern

methods of analysis, to interpret the results obtained; independently conduct lectures, practical and laboratory studies of various types, depending on the goals and objectives of education, educational material; possession of managerial monitoring, including a system of continuous monitoring of the state of the management process, its objectives, content, technology, results, conditions and overall efficiency; the ability to assess the quality of the results management processes; the definition of management problems; development of management decisions; forecasting of possible development of the agricultural economy agricultural economy.

EEC members interviewed faculty, employers, graduates of different years and different graduate courses. The meeting was attended by the employers M.K. Makishev - Deputy of General Director of LLP «Daewoo BUS Kazakhstan», Zhakupova S.B. - Scientific Secretary, Research Assistant of State Enterprise "Scientific Research Institute of Radiation Medicine and Ecology" of Semey, V.R. Zhumagaliev - Branch Manager of State "KazSeleZashshita of the Committee for Emergency Situations of MIA of RK" - Semipalatinsk Regional Services Department, "Borangulov A.M. - Head of the specialized fire station number 2, Squad 2 of Fire Service of the Office of the Department for Emergency Situations of East Kazakhstan region; Sagadiyev D.K. - Head of the Department of Science of "Semey forest", Mukhamediev K.A. - Senior specialist, engineer of Semey zonal Forest Seed Station "Kazakh state forest seed establishment", Vershinin A. - Head of Security Service of nature complexes and objects of "Semey Forest", Belenko forester of Sosnowski forestry of Morozov branch of "Semey forest", Ivanov A.S. - an engineer, Malchenko A. - hunting expert, biologist of "Semey forest", R. Ramazanov - forestry engineer of "Semey forest", Fastekeyev B.M. - General Manager, Shakerimov K.S. - The head of a farm "Nur" Semey, East Kazakhstan region, Tokashev O.N. - The head of a farm "Balke" in Beskaragai district of East Kazakhstan region, Magauin M.N. - The head of a farm "Janat" in Abai district, EKR, Ivanishchev A.V. - Chairman of the Semipalatinsk interdistrict hunting and fishing community of Semey., Davletov M.K. - Gene. Director of the State "GLPR Families forest" Dyadov VN - Director of the regional children's biological center of Semey, Dzhandybaev T.M. - Director of the College "Agribusiness and Economics" in Semey., Gallyamov T.S. - Regional Manager of the Forestry and Hunting committee of the Republic of Kazakhstan Ministry of Agriculture of Semey.

Interviewing employers showed that they are coming out with a proposal to introduce elective subjects, for example for EP 5B073100 - "Safety and Environmental Protection" - "Noksology", "Security of engineering systems and networks", "Engineering Ecology" (Branch State "KazSeleZashshita of the Committee for Emergency Situations of MIA of RK" of Semipalatinsk Regional Services Department»); for EP 5B080700 - "Forest resources and forestry" were included the disciplines "Forest Phytopathology", "The technical organization of forest protection "on the basis of applications from employers of "Semey Forest", Director M.K. Davletov.; The disciplines "General and forest entomology", "The world's forests" were included on the basis of applications from employers of Semipalatinsk zonal Forest Seed Station "Kazakh state forest seed establishment" - Director Borisenko E.V.; for EP 6M080200 - «Technology of production of cattle breeding products" - "The methodology of scientific research", "Modern technologies of production of poultry", "Modern technologies of production of sheep",



"Breeding methods to increase the productivity of agricultural animals and birds", "Modern production technology Products of sheep", "Modern technologies of production of meat and milk of cattle", "Modern technologies of production of camel", "Modern technologies of production of meat and milk of horse breeding", "Modern technology of production of beekeeping". They also gave a high mark to the level of graduates, who work for them.

Alumni that attended the meeting Mitrofanova (Okuneva) O.V., Ukubasova D.A. - Engineers of LLP «Daewoo BUS Kazakhstan», Muhametbekova T.M., E.A. Tolegen - Dispatchers of the sector of emergency prevention and response "KazSeleZashshita of Committee for Emergency Situations of MIA of RK" of Semipalatinsk Regional Services Department, "Zhaskayrat D.Zh. - Senior Researcher, Institute of Radiation Medicine and Ecology of Semey; Bayzhuldinov A.- Deputy. Director of Red Kardonskii branch of "Semey forest" Seytkaliev O.- chief specialist of "Semey forest", Asainov A.T.- chief specialist of "Semey forest", Ualieva G. - Specialist of "Semey forest", Nysambaeva A. - biologist hunting expert of "Semey forest", Kamzin E.S. - Cattle breeding breeder of a farm "Nur", of Semey city of EKR, Rahimbaeva R.O. - Head of the cattle breeding sector and marketing of State Department of Agriculture of Semey, Akhmetov N.A. - a specialist of Irtysh region broiler poultry of Semey, Kamenev M.T. - zootechnician of a farm "Mayak" of Pavlodar region, Akimbaev A.K. - Lecturer of a College of agribusiness in Semey. Sysoev D.V. - Huntsman of "Semey forest", Kolbin V.V. - Specialist of Radiology and Ecology Research Institute of Semey, Malchenko A.A. - Head of the Department for the protection of flora and fauna of "Semey forest", Dauletova M.B. - Specialist for the protection of flora and fauna of "Semey forest", Berkendinov M.M. - Huntsman of "Semey forest".

They talked about how they realized themselves in the profession through knowledge gained at the university, expressed satisfaction with their position, career growth.

Assessment of the quality of educational programs was based on a review of curricula, the catalog of elective disciplines EMCD, survey of undergraduates, faculty, attendance, as well as the museum, laboratories, library, gym, swimming pool, dormitories. EEC members attended training on the subject "Forest seed" of EP 5B080700. "Forest resources and forestry" (senior lecturer Mukhametzhanova O.T.). Session was held at a high scientific and methodological level. Questioning of students, analysis of attendance shows that active forms and methods of employment, as well as information and computer technology: a slide-lectures, case-technology, design technology, technology, student-centered, problem and programmed instruction, technology, self-education of future professionals, master classes and others are regularly used in the learning process.

The EP is systematically introduced disciplines, teaching innovative methodologies, including the use of interactive teaching methods, teaching methods with high involvement and motivation of students (games, consideration of cases / situations, and the use of multimedia tools). In such disciplines of EP as "Occupational Safety and Health", "The theory of combustion and explosion," "Rescue work" are widely used solution case studies and business simulations (case studies), providing the formation of a logic of professional thinking, consolidate the material and analysis of acquired competencies of students. The solutions of case tasks provides creation of jobs close to production conditions, situations. There are delivered lectures in the form of presentations, public lectures with the video. Videotaped lectures of Acting Professor I.J. Grigorieva, senior. teacher Ashakaeva R.U. on discipline "Environment and Sustainable Development"; Acting Professor Sarsenbenova O.Zh. - "Protected areas"; senior teacher.

Bakirova L.S. - "Life Safety Fundamentals"; Acting Professor Skripnikova L.V., senior teacher Beisebayev Sh.T. - "Occupational Safety and Health". Teachers of the department of "Agrotechnology and forest resources," Associate Professor Dzhamanova G.I., senior teacher Baygarinova R.M., Mukhametzhanova O.T. conduct classes in integrated educational technology. Business and role-playing games, design technology, use the problem-based learning, as well as educational opportunities logical and organizational activity games are actively used by many teachers of the department - Kurmanbaev PhD in agricultural sciences. Seylgazina S.M. Esengulova N.J., Musakhanova A.S., Meshkov V.V., Borisenko E.V. These technologies provide the opportunity to the future specialist to link mastering of learning outcomes (knowledge and skills) with their actual application.

The research results are introduced in the educational process, such as the introduction of a number of special courses on topics of research of Faculty scientists: by Associate Professor Meshkov V.V., Dzhamanova G.I. and senior lecturer Borisenko E.V. They conducted scientific research on the cultivation of planting material of pine with closed root system, and others. All of this contributes to the development of professional competencies of the students based on their individual characteristics.

These innovative pedagogical technologies provide the opportunity to link the future specialist mastering learning outcomes (knowledge and skills) and their actual application use.

The research results are introduced in the educational process, such as the introduction of a number of special courses on topics of research of scientists of the faculty: "Genetic breeding and biotechnology techniques to improve the fat-tailed sheep in the conditions of Abai district of East Kazakhstan region" (associate professor - Nurzhanova K.H.).

There is a balance between the theoretical and practice-oriented disciplines, the name and content of the courses correspond to the actual areas of specialty, at the same time there is not always traceable logic when combining disciplines in the name of modules and modules. Also, the Commission notes the lack of harmonization of the contents of an educational program with the educational programs of leading foreign and Kazakh universities; the absence of joint educational programs with foreign universities.

The strengths of the EP are:

- Orientation of educational programs to accurately designed model of the graduate.
- Ensuring equal opportunity to students, regardless of the language of education on the formation of individual educational program;

EP weaknesses are:

- Lack of training in Master's degree in "Hunting study and fur farming", "Safety and Environmental Protection", "Forest resources and forestry";
- The lack of joint educational programs with other universities on accredited specialties.

**The Commission recommends to:** improve the quality of the examination of the logic of combining disciplines in the modules; a comparison of the content of education with foreign universities; to speed up work on the development of joint educational programs with foreign universities; further improve the system of competences (learning outcomes) of educational programs based on the monitoring needs of the region in the competences of graduates; consider introducing of a targeted training of specialists in the field of "Technology of production of cattle breeding products", "Hunting study and fur farming", "Forest resources and forestry", "Safety and environmental protection".

**EEC notes that on the 21 criteria of the standard, university has a strong position, on the 9 criteria - satisfactory position, on 3 criteria - needs improvement.**

### **3) Standard "Teaching staff and teaching effectiveness"**

Indicators on the qualitative and quantitative composition of the faculty confirm the presence of human capacity necessary for the implementation of educational programs and the relevant qualification requirements for the licensing of educational activities.

- EP 5B073100 - "Safety and environmental protection" – there is 1 Doctor of Agricultural Sciences, 10 PhDs; 61% of faculty have academic degree, 100% of the faculty is full time teachers, average age is 44 years;

- EP 5B080700 - "Forest resources and forestry service" - there are 2 Doctors of agricultural sciences., 5 PhDs; faculty with academic degree - 70%, 100% of the faculty is full time teachers, average age is 49 years;

- EP 5B080200 / 6M080200 - Technology of production of cattle breeding products, 5B080300 - "Hunting study and fur farming" – there is 1 Doctor of agricultural sciences., 1 doctor in biological sciences., 10 candidates of sciences; faculty with academic degree - 60%, 100% of the faculty is full time teachers, average age is - 46 years.

Information on the faculty of the university is posted on the website in the part "Faculties" - "Departments." All teachers have specialized basic education. To Lecturing are allowed leading teachers who have wide experience of scientific and pedagogical and practical activities.

Hands-on activities of teachers can quickly accommodate changes in the practice of the education system and to adjust them in accordance with the content of the education of undergraduate disciplines, and conduct classes with students of Magistracy in the integration of theoretical and practical sides. The master studies reflect actual problems of theory and practice of agricultural sciences, Masters Study is conducted at the farms, "Nur", "Bagration-2", "Zaytenov E." and Irtysh and broiler poultry farms of Semey and East Kazakhstan region.

The main objectives of the department are to provide practical orientation to attract professionals with experience in the field of educational path of EP to conduct training, to the development of individual training courses, management of the master's work.

All full-time teachers working in EP 5B080700 - Forest resources and forestry practices are in their direction. Under the guidance of associate professor G.I. Dzhamanova there operates scientific-practical circle "Reformists of wood and earth," in which students work out practical skills of development and introduction of growing trees; Professor Seylgazina S.M., Associate Professor V.V. Meshkov work on grant research projects.

The selection and placement of staff of the University is based on a needs analysis of educational programs, the results of which declares a contest for vacancies. So there was developed and approved a system of hiring teachers and work with the staff in accordance with the approved regulations on the replacement of competitive vacant positions according to the requirements of job descriptions.

To motivate faculty the University holds a rating assessment of the faculty. One semester is taken as the reporting period. Competence of teachers is tested by comprehensive evaluation of educational-methodical, research and community service in the form of certification of at least 1 time in 3 years, in the form of individual reports for each academic year. The weight value of each index in various types of training and educational, teaching, research, organizational,

pedagogical, educational and administrative activity is expressed in points. This procedure is described in the Regulation on the rating evaluation system of faculty, departments and faculties.

The university has developed a system to stimulate personal and professional development of teachers and staff, which include: the announcement of gratitude, awarding of certificates, conducting various competitions "The best teacher of the year", "Best Curator of the Year", "Best methodical complex of discipline."

The university developed a system of training, professional and personal development of the teaching staff. Good practice is the expansion of the forms of training of faculty (PC courses, internships, seminars, trips to near and far abroad). There is a center of educational technologies, on the basis which there are conducted training courses attended by experts of foreign countries. International Cooperation Department provides training in English for the faculty, staff and graduate students. A number of teachers improve their language skills (Seylgazina S.M. Musakhanova A.S., Adilbekova M.K., Polivkina E.N., R.U. Ashakaeva, Zheksenaeva A.B. etc.). These teachers have developed courses in English.

Over the past 3 years the teachers of the Faculty of Agricultural departments underwent more than 60 training courses, participated in workshops, international seminars. Faculty of the department underwent training on distance learning system Moodle, which allows them to use its elements in the work with the students.

J.M. Nurzhanova underwent training "Orleu" (Almaty). Ass. Professor Dzhamanova G.I. underwent courses "Preservation of biodiversity, its reproduction and rational use" at KazNAU.

All teachers after undergoing training accounted at the department and at the Faculty Council. The results of Training are introduced in the educational process, used in scientific research.

During the 2014-2015 academic year, members of the department were awarded honorary degrees and diplomas, awarded for contribution to the training of qualified specialists. The title "Honored Worker of Education of Kazakhstan" was awarded to a Doctor of agricultural sciences Seylgazina S.M., Esengulova N.J. the Head of the Department was awarded a Certificate of Merit by the akimat of East Kazakhstan region.

One of the measures to consolidate the scientific and pedagogical staff is the training of teachers through the master's and doctoral programs. For this purpose, periodically formed applications to the MES for the target training of the faculty in master's and doctoral programs. During the reporting period were protected 2 doctoral dissertations (Seylgazina S.M. and Borisenko E.V. in Moscow). A graduate of Shakarim State University of Semey Musakhanova A.S. finished target magistracy in KazNAU, and now she is working at the Department.

Within the program of development of young teachers mentoring in the departments, the leading specialists of the educational system of the Republic of Kazakhstan, prominent scientists and experts to give lectures and master classes is widely practiced, for example, over the past three years to give lectures there were invited the following scholars: doctor PhD Yaneva S.A. - Chemical Technology and Metallurgy University of Sofia (Bulgaria), Kopytkov V.V. Head of the Section of Bioregulation of growing planting material of SI "Institute of Forest of NAS" of the Republic of Belarus, PhD, Mir M.G. (India), Rector of Agricultural University of Plovdiv (Bulgaria) Professor H. Yancheva.

In 2012-2014. Ph.D., Associate Professor Artamonova E.N., PhD, associate professor Evlampieva E.P. performed research grant of MES on "Ecological and biogeochemical

assessment of technological areas of northeast of Kazakhstan and development of the technology of purification using phytoremediation" \$ 21 mln. tenge.

The faculty of the department "Agrotechnology and forest resources," research on the topic: "Improving the methods and techniques of cultivation, storage of eco-friendly crop production."

The department of "Agrotechnology and forest resources" have a close relationship and exchange of scientific and educational information with: KazNAU; Kaz. Research Institute; Kaz. State agro technical University of S.Seifullin; West Kazakhstani Agricultural University; Altai and Omsk State Agricultural University and the Institute of Forest of the National Academy of Sciences of Belarus that contributes the staff of the department in exchanging experience.

There is a close relationship with doctor Pg, Mr. Mir M.G. (India), who is a member of the International Society of Foresters (IUFRO) and on several occasions was invited to give lectures in "Forest resources and forestry" as well as the Head of the Section of Bioregulation of growing planting material SI "Institute of Forest of NAS" Belarus Ph.D. Kopytkov V.V.

Acting associate professor Meshkov V.V., Dzhamanova G.I. and senior lecturer Borisenko E.V. conducted scientific research on the cultivation of planting material of pine with closed root system. Department staff continue to work on research on such topics: "The study of physical and chemical properties of multicomponent systems and development of polimer containing systems and development of modified composite compounds to protect the root systems of plants from drying"; "Studies of the root systems of softwood using ultra-sound and hydrodynamics"; "Research of microflora in Almaty Issyk Arboretum"; "Restoring of pine forests belt on a scientific basis", " Cultivation of agaricoid mushroom forestry." Together with the Institute of Plant Protection of Almaty there was developed the project "Development of methods and standards for the use of biological agents in the biological forest protection from major-needles and leaf-eating pests in forests belt of Irtysh region". In September 2013 was signed an agreement on cooperation (the internship of master students) Country Bulgaria Agricultural University - Plovdiv, Department of "Crop" and the city of Moscow Academy of Timeryazev. In accordance with the work plan of the Student Scientific Society at the Department functions one scientific circle "Reformists of forest and the earth." The work of students' scientific clubs is run by 8 teachers of the department. The total number of students who are members of the SSC is 46 people. In 2012 students of the specialty "Forest resources and forestry" took part in the grant competition on the theme: "Plant your tree", and became the winners and owners of a valuable prize "laptop." Students have cultivated the highest number - of pine planting material -1000 pieces. The graduates of the specialty "Forest resources and forestry" of the agrarian faculty held a round table on the topic: "Methods of preservation and restoration of forests." It was attended by deputy general director of "Semey forest" Sagadiyev D.K., director of the regional branch of the center of phytosanitary diagnostics and forecasts Bektemirov M.S., director of the Republican Quarantine Laboratory Chernych Z.P., director of forest seed Laboratory Borisenko E.V. and others.

The results of research of the faculty are reflected in publications in scientific journals and collections of materials of scientific conferences at various levels, including two articles were published in journals included in the database of ThomsonReuters. According to this cluster there are published and used in educational process monographs of teachers: A.Y. Zhanadilova, Polivkinoy E.N. etc. Books of Skripnikova L.V. ("Industrial Ecology"),

Kabyshevoy Zh.K.. ("Topyraktanu") are recommended by the MES for the educational process at the university.

The following teachers of EP underwent professional development: Tugambaeva S.M. (Center for Advanced Studies and Retraining of Shakarim SU of Semey), Nurzhanova K.H. (Laboratory of ECO clinics "Dostarmed" Almaty, in 2009 at Novosibirsk State Agrarian University, Russia), Akhmetov B.S., Satieva K.R., Tumanbai V.M., F.S. Nasyrov, Aytkaliev B.M. (Center for Advanced Studies and Retraining of Shakarim SU of Semey) Iglikov O.D. (In 2013. Ust-Kamenogorsk). Akhmetov B.S. (Pavlodar State University of S.Toraigyrov, 2014. of Shakarim SU of Semey HDC "Oskemen") Korabaev Z.Z., Gabdullin P.R. (Institute for Advanced Studies and Retraining of animal husbandry and veterinary science at the Moscow State Academy of Veterinary Medicine and Biotechnology named after Skryabin).

The department of "Cattle breeding and hunting with the basics of morphology" implements the theme funded by State budget: "Development and adaptation of modern technologies to improve the genetic potential of specialized beef cattle of Kazakhstan", "Development and adaptation of modern technologies to improve the genetic potential of specialized dairy cattle in Kazakhstan" in the amount of 27.754 million tenge (Leader Kozhebaev B.J.); "Creating an array of high-meat-fat sheep farms in Abai district of East Kazakhstan region with innovative elements of selection" in the amount of 6 million Tenge (head Nurzhanova K.H.); "Implementation breeding - technological methods of improving the productivity of domestic meat - greasy sheep in the East Kazakhstan" in the amount of 4 million Tenge (head Nurzhanova K.H.); "Creating a highly productive herds of cattle using innovative techniques of embryo transfer" in the amount of 3 million Tenge (Leader Kozhebaev B.J.).

There are published two textbooks, four textbooks and two monographs and more than ten guidelines. Faculty of the department published more than 200 scientific articles and 3 abstracts of them are published in the journal with impact factor (PhD in agriculture B.J. Kozhebaev Life Science Journal - Acta Zhengzhou University Overseas Edition (Life Sci J Monthly since 2014, ISSN : 1097-8135, Impact Factor 2012 0.165, Life Science Journal - Acta Zhengzhou University Overseas Edition (Life Sci J Monthly since 2014); Associate Professor Iglikov O.D. International Journal of Morphology (2014- V.32,Iss 1.-P. 12-15) and in abstracts scientific journals, collections of Semey, Ust-Kamenogorsk, Astana, Almaty, Barnaul, Novosibirsk, Moscow, Irkutsk and others.

Status of moral and psychological climate in the departments is characterized by its stability, creative attitude to their duties. The level of labor and executive discipline is at the proper level.

The university ensures the completeness and adequacy of individual planning of the faculty for all activities, monitoring the effectiveness and efficiency of individual plans. The workload is reflected in the teachers' individual plans, which shows the educational, methodical, scientific work. Faculty is systematically involved in the preparation of research projects. Workload of a teacher is planned in accordance with the Rules of planning and distribution of the teaching load of the faculty approved by the Academic Council of the university, the academic calendar, an enrollment for the academic year.

The university provides the monitoring of the faculty's activities, a comprehensive assessment of the quality of teaching. The university set clear criteria for evaluating the faculty. Evaluation of the faculty's competence through organization of intrahigh certification,

organization of systematic surveys of students, which constantly allows a continuous monitoring and evaluation of teaching effectiveness.

Also, monitoring the activities of the faculty is systematically carried out by conducting survey of master students and conducting a survey of employers in the form of «Online-questioning." Assessment of competence of teachers and comprehensive assessment of the quality of teaching is carried out at faculty meetings, each semester. The evaluation department conducts independent monitoring of the quality of the faculty of the quality, as well as faculty members of the EMB of the department. The faculty monitors the quality of teaching by holding public model classes and exchange visits, which are reflected in magazine of exchange visits. There is agreement on cooperation in scientific research: Institute of Geochemistry and Analytical Chemistry named after V.I. Vernadsky, RAS (Director Galimov), St. Petersburg Scientific Research Center for Ecological Safety (Director V.K. Donchenko), there are agreements on international co-chair of "breeding and hunting with the basics of morphology."

Over the past three years, there were concluded the agreement on international cooperation and there is conducted work with research centers and abroad. In particular, the Irkutsk State Agricultural Academy (5.11.2013.), Moscow Agricultural Academy of Timiryazev (02.12.2013), Tomsk State Pedagogical University (12.03.2013). The experimental part of the research work of graduate students is performed on their base.

The department "Agro technology and forest resources" has contracts with the Altai and Omsk State Agrarian University, the Institute of Forest of the National Academy of Sciences of the Republic of Belarus, the Agricultural University of Plovdiv (Bulgaria), Institute of Plant Protection (Poland). In September 2013 was signed an agreement on cooperation with the agricultural academy of Temeryazev, (Moscow, Russia) and Irkutsk state agricultural academy (Russia).

At the same time, the Commission notes that there observed increase in the average age of the teaching staff with academic degrees and titles; insufficiently high rate of participation of the faculty in tender for the implementation of grant research projects funded by the MES and other funds; inadequate academic mobility of faculty and collaboration of research with foreign scientists; low percentage of publications in top journals.

*The strengths of the OP are:*

- Compliance of personnel to strategy and specific educational programs;
- Involvement of faculty in practical activities in the field of specialization on a regular basis;
- Involvement in the implementation of EP professionals with experience in the relevant sector of the economy;
- A mechanism to stimulate personal and professional development of teachers and staff in accordance with the aims of OP's Development.

*EP weaknesses are:*

- Low level of academic mobility of teachers.

**The Commission recommends:** to develop and implement a long-term plan of development of academic mobility of university's teaching staff, to consider the possibility of joint research with leading experts of foreign universities in the directions of EP cluster, increase the number of publications in top journals.

**EEC notes that the on 13 criteria of the standard of EP the university has a strong position; on 7 criteria - satisfactory position. Improvements are suggested on one criterion.**

#### 4) Standard "Students"

The university has formed a clear and transparent policy of formation of a contingent of students, which is conducted by the Center of preliminary training, the Department of Science and post-graduate education and graduating departments, and lies in receiving persons in the number of students more prepared to learn in high school, who have consciously chosen the EP of the accredited cluster, collect the required number of points according to the results of entrance examinations. All information for applicants is placed on the official website of the Shakarim State University of Semey ([www.semgu.kz](http://www.semgu.kz)) in the section "Applicant". Favorable factors for admission to higher education are a system of benefits for students.

The main forms of promotion and incentives are: the nomination of the most gifted students on competition and state scholarships, fellowships, established by various organizations and foundations, etc .; representation of the best scientific work in competitions, exhibitions and other public events organization and providing rewarding the winners; detachment to participate in various national and international scientific forums.

The Commission noted one of the strengths of the University - the development of policies in the educational process and the availability of information materials for students. As a source for obtaining the operational network of electronic teaching materials of disciplines, working curricula, information on the performance of master students are actively used in AIS «Platonus», DLC «Moodle» and educational web portal [www.semgu.kz](http://www.semgu.kz).

The contingent of students of the Agrarian Faculty of Shakarim State University of Semey on 06/09/2015, amounts to 204 people, including the specialty 5B073100 - "Safety and environmental protection" - 72 people (53 - full-time education, 19 - DET) 30 people enrolled in state grants, 43 people are educated in the official language.

The contingent of students at EP 5B080700 - "Forest resources and forestry" on 01.12.2014 consists of 39 people, 20 of them study on the state educational order, and 19 on a contractual basis.

The contingent of Master students 6M80200 - "Technology of production of cattle breeding products" of Shakarim State University of Semey on 01.09.2014 is 2 people, 2 of them are on the first year, in the state educational order - 2.

The contingent of students at EP majoring in 5B080200 - "Technology of production of cattle breeding products" is - 46 people, in 5B080300 "Hunting study and fur farming" - 47 students.

Table 1 - The contingent of students of the Faculty of Agricultural EP

Specialties	Contingent of students
5B073100 - "Safety and Environmental Protection"	72
5B080200 - "Technology of production of cattle breeding products"	46
6M080200 - "Technology of production of cattle breeding products"	2



5B080300 - "Hunting study and fur farming"	47
5B080700 - "Forest resources and forestry"	39
Total:	204

The university estimates the correspondence between the admission process and the subsequent progress of students as a result of examinations, the analysis of the adaptation period of students. Since the first day of their stay at Shakarim State University of Semey for adaptation the students attend a meeting with heads of departments of the university, advisors, during which they receive a guidebook. Guidebook for each academic year is available as a paper copy that is received by each student of the University, as well as in electronic form, which is available on the official website ([www.semgu.kz](http://www.semgu.kz)).

For the analysis of the educational process, for identifying possible inconsistencies and development of preventive actions are used the results of internal audits, the results of evaluation of training activities, and regulations governing government and industry documents, evaluation of students' satisfaction. Systematically there carried out a survey of students, corrective actions are carried out on the results of survey. There are established training and controlling functions. Organization of training activities is coordinated by the training department, a final knowledge control - control department of students' knowledge, office desk. The university regularly monitors the quality of graduates' knowledge in the form of knowledge control sections.

Graduates during a meeting with members of the EEC made the following suggestions: to open PhD program at the University; financially support the publication of articles of master students, including editions of the university; include practice-oriented disciplines into QED, including courses on the fundamentals of the design of educational-methodical documentation.

Feedbacks through boxes of confidence, which are placed in the foyer of the university buildings and opened monthly by the commission for consideration of complaints and suggestions, as well as through the Site Forums of Shakarim SU of Semey. "Rector's blog" operates on the site the university.

The university has a committee on youth affairs. Implementing various projects, it aims to integrate students in social activities, development of a sense of patriotism and social responsibility, the promotion of healthy lifestyles. Activities of student government are directed to support and promote the development of creative and scientific activity of students, enhancing their professional growth, involvement of students in high school social activities, organization of cultural and leisure and recreational sports events, the promotion of social security, assistance in solving social problems.

To promote healthy lifestyles asset of agricultural faculty with the active participation of students organizes a variety of events, meetings with representatives of the health, demonstration and discussion of films on the prevention of drug addiction, smoking, alcoholism at the faculty, the students in the house. Career-oriented work: participation in the organization and conduct of the regional intellectual and creative competitions, to conduct propaganda work among the city schools, regions, etc.. So students of supervised groups are actively involved in meeting with veterans, interviews with health professionals, beauty contests, in organizing debate on the theme "Youth and Politics". Participate in the game "Мун бир мақал, зһыз зһымбақ", held at the university level.

There are held scientific conference with the participation of teachers of faculty and students. Every year students together with curators attend exhibitions, theaters and cinemas.

Curators regularly visit the hostel, where students live to explore the conditions of their life. Duty of supervisors is held during the holidays, in which teachers get acquainted with the living conditions of students. There is a list of all students living in private homes, apartment and with relatives.

In addition to the basic plan there are developed activities for Independence Day, on crime prevention and promotion of healthy lifestyles.

For example: Students of Group LD 211, 212 held a round table on the theme: "The current status of the state language"; Students of "Forest resources and forestry" issued a newspaper on the theme: "The 70th anniversary of the victory"; there are held curatorial classes on the theme: "The leadership of Kazakhstan in OSCE", "We are against AIDS", "Youth Without Drugs";

In the spring months, students of the department take part in cleaning the department, faculty and university, plant seedlings and other plants.

Meetings on the basis of the date of the winter and summer semester, for the protection of reports on educational, industrial practice, and registration theses are held in all groups.

Students share their impressions and achievements in education and social work by participating in programs on television and in the media. For example: K. Turlybekov (gr.LD-211) has participated in programs on TV "TVK-6", students print articles about the achievements of students and faculty in the specialty paper "Student Əlemi", "Orman dauysy"

Active participation of students in the various groups and sections of sports proof their education of a healthy lifestyle. A. Aytkazina won the 1st place in the competition "Kyz syny" held at the Faculty. Students actively participate in amateur arts festival (Bekbaeva A. Zhamchibaeva A. Zheksenbaeva G. Adilbevova R., E. Ospanov, Toguzbaev C Sarkeeva A., J. Aceto, M. Moldabaev, Abete D. Kunafin K. Bahytkanova A.). Student Aytkazinova A. received the diploma for the first place in the competition "1 kurs Hanzadasy men Hanshayymy".

For active participation in public life a student of group OZ-207 Aytkazinova A. received the certificate of Akimat of Semey for the nomination "Talanttyzhyr." Student Sarsenbekova N. certified for "Forsayt- seminar." Student group OZ-207 Aytkazinova A. was awarded a diploma of a city movement "Kazakhstan studentterinin Alliancy" and was nominated for "Best Student – of the year 2014", Aytkazinova A., a student group OZ-207 Sarsenbekova N. received a diploma "zhyr zhazamyn zhyregimen" in the competition of young akyns. Zheksenbaeva Gulden a student of Oz-007 received a certificate for the first place in volleyball team in the program «XVII Olympics of Shakarim State University students." For participation in the seminar-training "Zhastardyń azamattyq ıstanymyn arttyru" Sarsenbekova N. received a certificate. Student Baybolat A. received the diploma for occupied 3rd place in the city competition of KVN.

Shakarim SU of Semey adopted a series of effective measures to attract students to the SRS: there function student scientific circles, organized scientific conferences, students have the opportunity to participate in research funded programs. The results of the research are presented in the Student papers, master's theses. Each year, students participate in a competition of scientific projects, international and national scientific conferences.

On the results of the conference 4th year student Dauytbaeva K. was awarded a diploma for the best scientific work on the theme: "Korpansildy koldanu arkyly Yemen Myung sheten

kөшetteriniң өсу көрсеткіштерін жоғарылату" (supervisor – associate professor Dzhamanova G.I.).

Students of specialty 5B080300 "Hunting study and fur farming" (Kunafin K. Aytanov S. Abete D.) took part in the VI Republican Student Olympiad at the Kazakh National Agrarian University, Almaty and won 3rd place. The 2nd year student of the specialty "Hunting study and fur farming" Erbolat T., E. Tonchabaev were awarded grants for innovative projects of the rector of Shakarim SU of Semey - "Mini agro modular production and processing of organic products and raw materials." Student of the 3rd year Shirokov A. has several letters of appreciation for active participation in student research conferences, as well as a certificate for active participation in international scientific-practical conference in Pavlodar state university named after S. Torayfyrov "Agroөндірістік кешенде Gылым өндірістің интеграциясы." In 2011 Meiramkhan L., took the first place and received a diploma for participation in the Republican contest for the best scientific research among students.

Analysis of the results of practice leads to the conclusion that the student has successfully cope with the tasks and practices fully comply with the program by providing the necessary documentation and reports.

In order to improve education programs the University implements a program of multilingual education, which involves training of professionals fluent in Kazakh, Russian and English. Students of 5B080700 educational program "Forest resources and forestry" are the participants of this program.

The department developed the test control program, there are electronic versions of teaching aids, are widely used themed movies. Students receive practical skills at exit activities in "Semey forest", "Zonal forest seed laboratory", "Republican Quarantine Laboratory", the regional branch of the center of phytosanitary diagnostics and forecasts.

Technological, industrial and pre-diploma practices are held in many regions of the Eastern Kazakhstan. All companies give positive feedback on the theoretical level of training students and appreciate the quality of their training. More than 70 students majoring in 5B080700 "Forest resources and forestry" and others were invited to work at companies and organizations at the end of practice. Now our graduates Egezhyanov Kairat and Bekkaliev Timur work in the Forestry Committee of Kazakhstan.

Graduates of 5B080300 - "Hunting study and fur farming", for example N. Starkov, Bekbaeva A., Dauletova M., Moldabaev B., Yesenov D., Malchenko A., Marinets V., Adilbekava R., N. Moldabaev work in local bodies in the field of protection, reproduction and use of wildlife, hunting- manufacturing sites, hunting ownerships of various forms, state nature reserves, national parks and other protected natural areas, public institutions for the protection of forests and fauna, national and regional public bodies of wildlife management. Meiramkhan L., L. Fedorov, V. Kolbin, Yelemesov K. Adilbekova R. and Ospanov E. completed Master's degree and work in the educational and research institutions and environmental organizations.

The graduates of EP "Technology of production of cattle breeding products" are demanded in the labor market, that is proved by the employment of our graduates not only in our region but also in other fields, such as E. Kamzin who works as a cattle breeding - breeder in a farm "Nur" Boranbaev R. Zhamantay E., O. Ibragimov work on their profession in LLP "Shalabai" EKR, Kamnev M., A. Madiyaruly work in a farm "Mayak" of Pavlodar region, Aydabolov B. is a zootechnician in Kyzylorda region. Sarsembekuly A., Kamzin E., A. Akimbaev, Kamnev M completed Master's degree and work on farms and research institutions.

According to the program of academic mobility during the academic year 2012-2013 a student of ED 5B080700 -Forestry resources and forestry underwent training in the Kaz NAU (Almaty).

In the first semester of the 2013-2014 academic year, according to the program of academic mobility two students of specialty - "Life safety and ENVIRONMENTAL PROTECTION" 5B073100 Ahmet M.T. and Madieva H.A. studied at Pavlodar State University of S. Toraigyrov, two students majoring in 5B073100- "Life safety and ENVIRONMENTAL PROTECTION" of Pavlodar State University of S. Toraygyrov, Karabalin U.Sh. and Ahmet N.M. trained at the Shakarim State University of Semey.

In the 2012-2013 academic year the 3rd year student of 5B080200 "Technology of production of cattle breeding products" Oralhanova G.K. trained at the Kazakh National Agricultural University in Almaty according to the program of academic mobility. The 3rd year student of the specialty 5B080300 "Hunting study and fur farming" Adilbekov Kuanish trained at State Agrarian University named after S.Seyfulin in Astana on academic mobility in 2012-2013 academic year .

In the process of training students have the opportunity for professional certification in the field of specialization. In the 2012-2013 academic year, Masters of EP of "Technology of production of cattle breeding products" Sarsembekuly A., Akimbaev A., Kamzin E., Kamnev M underwent professional certification which was held at Moscow University of Timiryazev.; in the 2014-2015 academic year - Tokenova A., L. Mukanova.

Graduates of "Forest resources and forestry" annually enter the Master's degree, for example Nursultanova Aygerim graduate of 2011 was admitted to the Masters in EKSTU of D. Serikpayev, Perfil'ev Anton graduate of 2013 enrolled in the Masters in EKSTU of D. Serikpayev. In 2014 Serikhanov Asset, a graduate of our university of 2012 graduated from the master's degree in KazNAU. Graduates of 5B080300 "Hunting study and fur farming" Adilbekova R., Ospanov E. continued Masters program in the Kazakh National Agrarian University, Almaty, Yelemesov K. at Kazakh National Agrarian University of S.Seyfulin Astana, Fedorov A.L. at Irkutsk State Agricultural Academy, V. Kolbin at Tomsk Polytechnic University.

Including graduates of each year are sent to the target master's degree, so Musakhanova A.S. continues teaching at the department after the target Magistrates, Bektemirov A.S. and Baygazakova Zhadra are on the second course of KazNAU in Almaty, the graduate of the year 2014 Erzhankey Marjan is n the first course.

The research projects: in the 2012-2013 academic year, undergraduates and students majoring in 5B080200 / 6M080200 "Technology of production of cattle breeding" Sarsembekuly A. Akimbaev A .; in the 2013-2014 academic year, the students of TJ-305 Alibekuly S., TJ-107 AD Nurgaliyev, TJ-205 Orazgaliev A. Abdrakhmanov NA, TJ-305s Nurdaitov R. M. Kamenov and undergraduates participated as junior research Staff in projects financed by the Ministry of Agriculture.

Faculty have joint publications with the students, for example:

- Ensuring fire safety of Education of the Republic of Kazakhstan (acting professor Skripnikova L.V. stud. Makursanova D.B.) / Regional scientific-practical conference "Modern problems of ecology and sustainable development of the East Kazakhstan region." - 2012 .;

- Modern problems of solid waste processing in Kazakhstan (acting professor Sataeva A.R., stud. Ukubasova D.A.) / Regional scientific-practical conference "Modern problems of ecology and sustainable development of the East Kazakhstan region." - 2012.

Employment process is implemented at a high level. To this aim, the university has a Center for professional development and career, which liaises with the graduates, and monitors their employment further progress in the labor market. Annually, there are held "Job Fair", a meeting with the heads of enterprises and institutions of the region. Currently, graduates of the department freely compete in the employment market (on average, employment is 90%), are working successfully in various sectors of our country, and abroad. There is an Alumni Association of the University, bringing together different generations of graduates, staff and students. There are reviews of employment of graduates. Employers note their fairly high level of professional, methodical preparation, as well as a strong knowledge of the specialty. Lack of cooperation on the employability of bachelor graduates with Zonal quarantine laboratory of EKR of Semey; SI "Republican methodical center of phytosanitary diagnosis and prognosis," "Semey forest", branches of Semipalatinsk, Begenevsky, Kanonersky, Novoshulbinsky, Dolonsky, Bukebaevsky, Zhanasemeysky, Borodulikha, Tau Dalinski, Morozov, Zonal Forest Seed Laboratory of Semey, Altai branch of LLP "KazNIILKh" (Ridder, East Kazakhstan region), farms of EKR of Irtysh region broiler poultry factory, JSC Ust-Kamenogorsk Poultry Plant.

At the same time, the Commission notes the insufficient level of foreign academic mobility of students of EP cluster; lack of continuing education on educational programs of postgraduate education (Doctorate PhD); financial difficulties in the publication of students' articles.

*EP strengths are:*

- The transparency of the policy of EP's students contingent formation;
- A mechanism for monitoring the activities of the university students' satisfaction in general and individual services.

*OP weaknesses are:*

- Lack of academic mobility of teaching staff;
- Lack of academic mobility of students.

**The Commission recommends:** to intensify work on the external academic mobility of master students and invitation of master students from other universities; to work for the opening of PhD for continuing education on educational programs of postgraduate and further education; provide the possibility of financial support for the publication of articles of Master students, including in editions of the university.

**EEC notes that on 7 criteria of the standard of EP there is a high index on 4 - satisfactory position and on 4 criteria needs to be improved.**

##### **5) The standard "Resources available to educational programs"**

The audit committee is satisfied that there is learning environment in high school that promotes the formation of professional competence; the adequacy of the material and technical base to support the educational process and the implementation of the mission, goals and objectives of the University. The university has up-to-date material and technical basis, the resources to provide qualified educational services.

Table 2 - The dynamics of the sources of financial resources in the context of EP 5B073100 - "Life safety and environmental protection".

Year	Budget funding	Extra-budgetary	Total	Total profit of the university	Share in the total performance of services%
2010	16 033,1	4 460,4	20 493,5	1 073 755,2	1,9
2011	18 786,2	12 892,8	31 679,0	1 172 094,3	2,7
2012	19 272,1	13 609,1	32 881,2	1 227 592,1	2,7
2013	16 518,9	16 016,2	32 535,1	2 243 115,2	1,5
2014	11 822,4	18 353,8	30 176,2	1 955 549,8	1,5

Table 3 - The dynamics of the sources of financial resources in the context of EP 5V080200 / 6M080200 - "Technology of production of cattle breeding products".

Year	Budget funding	Extra-budgetary	Total	Total profit of the university	Share in the total performance of services%
2010	6 854,4	0,0	6 854,4	1 073 755,2	0,6
2011	6 854,4	0,0	6 854,4	1 172 094,3	0,6
2012	7 180,8	223,0	7 403,8	1 227 592,1	0,6
2013	8 160,0	577,4	8 737,4	2 243 115,2	0,4
2014	10 281,6	3 085,4	13 367,0	1 955 549,8	0,7

Shakarim State University of Semey, as the owner, has different objects with total area of 55,392.5 m<sup>2</sup>, the learning process is carried out in 9 educational-laboratory, educational and sporting buildings with total area of 25,175.4 m<sup>2</sup>.

Currently, the University has the following educational laboratories and specialized classrooms: a laboratory of electrical engineering, electricity and magnetism, computer physics, mechanics and molecular physics, solid state physics and astronomy, optics, atomic physics, a training room psychology, specialized training cabinet self-knowledge, linguistic laboratories, Laboratory of Biological Chemistry, Organic Chemistry, Analytical Chemistry, a research laboratory of chemical and environmental issues, laboratory environmental assessment, physical and colloid chemistry, laboratory biotechnology, food microbiology, examination of foodstuffs, laboratory of virology, veterinary and sanitary examination, laboratory analysis feed and soil etc.

Table 4 - The dynamics of the sources of financial resources in the context EP 5B080700- "Forest resources and forestry".

Year	Budget funding	Extra-budgetary	Total	Total profit of the university	Share in the total performance of services%
2010	12 566,4	4 951,5	17 517,9	1 073 755,2	1,6
2011	13 219,2	3 301,8	16 521,0	1 172 094,3	1,4
2012	12 403,2	7 459,6	19 862,8	1 227 592,1	1,6
2013	10 934,4	5 650,0	16 584,4	2 243 115,2	0,7
2014	8 160,0	8 859,4	17 019,4	1 955 549,8	0,9

In spite of the adequate provision of specialized laboratories logistical base of Bachelor educational programs 5B080700 "Forest resources and forestry" requires updating and the purchasing of additional equipment and devices, and in recent years there is a trend of continuous improvement of material and technical base in the acquisition and updating of computer equipment, laboratory equipment and instruments.

Numerous tasks of computer and software of the training process and scientific research are solved by computer-service department and the department of information technology in service which has a modern office equipment.

The work on data provision makes it possible for widespread use in the educational process of modern information and telecommunication technologies.

Currently, the university has a computer in 1363, 240 monochrome laser printers, multifunction devices 103, 3 large-format plotter, 35 copiers of format A3, 29 interactive boards and 65 video projectors are used to improve the quality of employment. 42 computer labs equipped with modern computer equipment and Internet access are involved in the educational process.

Corporate Information and Education Network of the University:

- All the deans offices and structural divisions of the Institute are involved in a network;
- All academic buildings and dormitories of the University merged into a single information-educational network;
- All the structural units have access to email and the Internet;
- the official web-site of the University [www.semgu.kz](http://www.semgu.kz) operates in the state, Russian and English languages;
- Informational system "Platonus" and modules of own design are used for the management of educational process.

There operates a telecommunications center:

- A shared server (WWW, DNS, Mail, DHCP, PROXY, firewall) -IntelXeon 2xE5606,4x4GBRDIMM;
- Database server, - IntelXeonE3-1220, 2x2GBUDIMM, 2x1TbSATALFFcoldplugup4, SA;
- Media content, web-cepBep-IntelXeonQuadCore (4xCPU - 2000 MHz, RAM 4048Mb);
- Storage Server backups-IntelXeon (2xCPU-1600 MHz, RAM 4048 Mb).

All computers are connected to the educational network of the University have access to the Internet. Students living in dormitories are provided by computer labs with internet connection and free Wi-Fi.

The university has an IP telephony system. Corporate Information and Education Network of the University has a number of channels:

1. Broadband access to the Internet with a bandwidth of 16 384 kbit /s the provider Kazakh Network Information Centre «KazNic»;
2. channel by a dedicated line of SHDSL technology with a bandwidth of 8192 kbit /s the provider "Kazakhtelecom" JSC;
3. channel via a dedicated line using ADSL technology with a bandwidth of 4096 kbit /s the provider JSC "Kazakhtelecom".

Availability three computer classes with access to the Internet at Engineering and Technology Faculty allows students to work with modern software.

The development of computer technology, information technology and systems provided teachers with opportunities to ensure high efficiency of the material. The use of multimedia technology and network infrastructure of the university, helped to organize the study of modern network technologies, programming languages, tools for rapid application development, database information systems. The use of computer technology makes it possible to increase the information content of the lectures and the amount of digestible material through the use of presentation material. Part of the laboratory work is conducted on virtual hardware.

For the management of educational process at the University introduced a software product "Electronic University", which increases the efficiency of resource management, provides the conditions for the use of modern information technology makes it possible to store in an ordered electronically complete information about students and have immediate access to this information. The system is constantly being improved through the development of additional modules. So, in the last two years there was it developed and introduced into service a module of "Electronic Journal", which allows you to automate the evaluation of the achievements of students. In this regard, we developed guidelines on the distribution points in type of controls during the current appraisal, mid-term and final control of knowledge of students. To ensure timely planning of work of departments and exercise control over the implementation of plans there was developed the module "E-planning" to assess the activities of the teaching staff - the module "Rating of a teacher."

The university, including the agricultural faculty has rooms, equipped with multimedia equipment, which are used during lectures on a number of special disciplines of accredited educational programs.

Realization of the educational programs of bachelor program 5B080700 "Forest resources and forestry" is possible at the adequacy and modern source of educational information on all subjects of the curriculum. Library and Information Services of students is carried out in research library of the University, which has the necessary resources to work with readers.

Library of the university makes a significant contribution to the preparation of qualified specialists, provides the educational and scientific processes with all the necessary literature, runs systematic educational work with students, contributes to the further development of science.

The main activity of scientific library is the efficient service of readers on the basis of quality of the book fund and active introduction of new information technologies in all library bibliographical processes. Providing students at the University with the main educational and methodical, scientific, reference, periodical and other literature is necessary for the



implementation of the educational process in all specialties, it is at the level of regulatory requirements.

On the basis of the Charter of Shakarim State University of Semey, there were approved the Regulations on Library and Library Rules.

The main requirement for the fund of the library is the extent of its compliance with the demands of readers, the correspondence between the needs of readers and completeness of obtaining the necessary information on matters of mutual interest.

Acquisition of a library collection is conducted according to the instructions on the formation of the library fund of the state educational organizations of the Republic of Kazakhstan № 508 of 18.07.2003 20

The library fund on 01.01.2015 year is 925,288 copies of the books, in the state language - 346,608 copies (37%).

Number of textbooks is 548,701 (61% of the total stock), 239,873 copies of which are in the state language.

Fund of educational materials is 165 801 (18%), including in the national language - 53 559 copies.

Science Fund - 134,585 copies (14%), in the official language - 28 169 copies.

Fund of periodicals - 96 247 copies.

The quality of the fund is:

- Until 2004 - 784,409 copies. - 85%
- 2004 - 2008 the year - 63,379 copies. - 7%
- From 2008 - 2013 the year - 69,693 copies. - 8%

The library records the maintenance of disciplines in electronic form.

The library collection is displayed in the directory and files:

- Official alphabetical catalog;
- An alphabetical library catalog of publications in the Kazakh language;
- An alphabetical library catalog of publications in Russian;
- Systematic library catalog of publications in the Kazakh language;
- Systematic library catalog of publications in Russian;
- Systematic card index of articles of periodicals;
- A card file of abstracts;
- Topographical catalog;
- A card index of works of scientists and university professors.

Electronic catalog is based on the program "KABIS." The system is implemented in compliance with the applicable standards of the Republic of Kazakhstan and the CIS in librarianship, such as GOST 7.1-2003, GOST 7.82-2001, GOST 7.35-81, 7.51-84 GOST, GOST 7.12-93. The database includes:

- Book
- articles
- Abstracts and dissertations
- Electronic publishing
- works of the faculty of SSU of Semey.
- Periodicals

Foundation on digital media includes purchased CD-roms, a variety of electronic publications: books, encyclopedias, reference books, conference proceedings, books, periodicals

and the like, full-text databases of the faculty of the University (books and articles from periodicals and serials), digitized educational publications of DET and testing materials for landmark (final) control of students' knowledge.

Fund on electronic and magnetic carriers is 5066 copies., Including in Kazakh - 1941 copies., Russian - 3031 copies., And in English - 94 copies.

Students of the University have the opportunity, according to the signed agreements, to use the services of:

- Republican Interuniversity Electronic Library (RMEB);
- Multidisciplinary electronic research platform Web of Knowledge (DB Thomson Reuters);
- Resources company Elsevier: full-text database SciVerse, ScienceDirect;
- A virtual electronic library ABSTRACT Russian State Library (RSL);
- Kazakhstan National Electronic Library;
- Database Polpred.com Media Review;
- Database "Paragraph" section of scientific and technical documentation and databases "Accountant".

One of the indicators to assess university rankings is the availability of subscription journals in the areas of training. To ensure adequate educational programs, meet the needs of readers and familiarize them with the new information each year the university library subscribes to 40 titles of newspapers (34 - RC 6 - Russian Federation) and 297 journals (165 - Kazakhstan, 132 - RF).

The main requirement for the fund of the library is the extent of its compliance with the demands of readers, the correspondence between the needs of readers and completeness of obtaining the necessary information on matters of mutual interest.

Academics and university management measures are taken for the acquisition, development and production of educational materials in the national language.

Classrooms, offices, laboratories, communication and computer equipment, and other facilities meet regulatory requirements, which demonstrate compliance with the infrastructure used in the implementation of the EP, its specifics and supported acts of preparedness for the current academic year.

Fund of Research Library complies with the regulatory requirements of SES. Funds of textbooks and manuals, scientific literature, educational development of teachers to perform laboratory works, course and diploma works, reference materials available in the library fully accessible for independent work of a student.

Providing of training with textbooks, manuals, EMCD, guidance is carried out through the whole university research and publishing center, equipped with modern publishing technology that allows high-level printing of own learning materials.

Library of electronic books, guidelines and manuals for implementation of laboratory and practical works, course and diploma projects, additional, and other specialty materials are posted in the domestic information-educational portal of the university and in the «Platonus».

It should be noted that all the information resources are combined into a single local area network that allows students to request these training materials and resources from all academic buildings and dormitories, and they are also available outside the classroom. Availability of a training system provides an opportunity to self-test of knowledge of master students through remote access to the portal of the university. Thus, the management of EP provides access of undergraduates to the required number of structured, organized information on readable

disciplines - compulsory and additional literature, lecture notes, presentation materials, practical tasks, etc.

Management of EP ensures the availability and accessibility of academic support to students. Training materials, tools, educational literature and additional resources and equipment are available for all students.

*The strengths of the OP are:*

- The same training equipment and software used for the development of educational programs, established in their respective industries and their compliance with safety requirements during the operation;
- The presence of a learning environment that promotes the formation of professional competence and taking into account the individual needs and possibilities of students.

**The Commission recommends:** further improvement of material and technical base of the university, to provide teaching and research laboratories; improve the methodological support of educational programs by instructional literature in the state and Russian languages; expand the placing of external publications (citations, references) on the implementation of the EP in the portal (website) of Shakarim State University of Semey.

**EEC notes that on the 23 criteria of the standard, university has a strong position, on the 8 criteria - satisfactory positions, and 1 requires improvement.**

#### **6) Standards in the context of particular specialties.**

In accordance with the Civil Code of RK 08-2009 «Qualifier of specialties of higher and postgraduate education of the Republic of Kazakhstan», approved by Order of the Committee for Technical Regulation and Metrology of the Ministry of Industry and Trade of the Republic of Kazakhstan dated March 20, 2009 № 131-OD programs 5B080200 / 6M080200 - "Technology of production of cattle breeding products", "5B080300 - " Hunting study and fur farming "5B080700 - " Forest resources and forestry" refers to a group of "Agricultural science", specialty 5B073100 - " Life safety and environmental protection"- refer to a group of "Engineering and Technology".

Within these EP students are provided relevant, contemporary knowledge. Thus, a number of disciplines are built on the principle of methodological and theoretical approaches, comparing foreign and domestic theories. Some of the courses and subjects are constructed taking into account the knowledge gained during the training of teachers in Bulgaria, the Russian Federation. Teaching is conducted in the framework of the EP, based on the most current and comprehensive achievements of the world science and practice in the field of specialization, as well as using most modern and advanced teaching methods. Teaching is characterized by the following methods: group discussions, group analytical work, the construction of comparative models of discipline, case-based technologies. EP students are provided with access to the most modern and relevant data (statistics, news, research results) in the area of specialization in the paper (newspapers, collections of statistics, textbooks) and electronic media: University Library provides both paper and electronic media information. At the same time, teachers and undergraduates constantly use updated database and applied research sites in each discipline.

As a result of training in this area students perform independent, creative work, participate in scientific conferences of different levels, as well as writing theses, master's thesis, demonstrating the functional literacy on the application of acquired skills.

Educational programs 5B073100 - "Life safety and environmental protection," 5B080200 / 6M080200 - "Technology of production of cattle breeding products" 5B080300 - "Hunting study and fur farming" 5B080700 - "Forest resources and forestry" include raising the quality of training on the basis of maximum approach of educational process to the real processes of institutions.

Many courses of EP are built taking into account the practical experience (for example, in majors, students work with a specific case of "professional judgment", diagnose, prepare an opinion, develop intervention programs, implement them, are involved in the correction in cooperation with specialist teachers).

Graduates of educational programs have competencies that are really in demand in the labor market. This is evidenced by the SAC reports of chairmen, reviews of Employers (Branch State "KazSeleZashshita 'Committee for Emergency Situations of MIA of RK" Semipalatinsk Regional Services Department, "the chief specialist of purebred breeding city territorial inspection Semey OIG agribusiness in the Ministry of Agriculture).

Within the EP 6M080200 - "Technology of production of cattle breeding products" students are provided relevant, current knowledge about the organization of the field of specialization in other countries (comparative knowledge), theories and methods developed and used abroad. Thus, a number of disciplines (history and modern tendencies of psychology, theoretical and methodological foundations of psychology, problems of analytical and expert investigations and others.) are built on the principle of methodological and theoretical approaches, comparison of foreign and Russian theories. Some courses and discipline ("Quality Management System foundation", "Contemporary social methodology", "Man as the subject of psychology") are built with the knowledge obtained during the training of teachers in Italy, Germany and France.

**The Commission recommends** to further enhance the attraction of employers to participation in the learning process, which will form the necessary professional competence of graduates, to make adjustments and to help them gain practical skills and abilities of students.

**EEC notes that in all three criteria of the standard of EP the university has high position.**

#### **RECOMMENDATION:**

Recommendations for specialized (program) accreditation of educational programs 5B073100 - "Life safety and environmental protection," 5B080200 / 6M080200 - "Technology of production of cattle breeding products," 5B080300 - "Hunting study and fur farming" 5B080700 - "Forest resources and forestry":

1. Strengthen the work on risk assessment and identification of ways to reduce them, regularly monitor the effectiveness of the changes.
2. Intensify the work on the development of joint educational programs with foreign universities.
3. Increase the rate of participation of the TS in tender for the implementation of grant research projects funded by the MES and other funds.
4. Activate the academic mobility of students of EP cluster and academic exchanges of professors and teaching staff.
5. Expand the fund of modern educational literature in the national language and electronic

multimedia courses in areas of educational programs.  
6. Increase the number of faculty publications in journals with non-zero impact factor.

## RECOMMENDATION TO ACCREDITATION COUNCIL

*The members of the external expert committee unanimously agreed that educational programs 5B073100 - Life safety and environmental protection", "5B080200 / 6M080200 – “Technology of production of cattle breeding products”, "5B080300 - Hunting study and fur farming", "5B080700 - Forest resources and forestry " of the Shakarim State University of Semey **may be accredited for a period of 5 years.***

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## **Options of specialized Profile of Shakarim State University of Semey**

(5B073100 - Life safety and environmental protection", "5B080200 / 6M080200 –  
“Technology of production of cattle breeding products", "5B080300 - Hunting  
study and fur farming", "5B080700 - Forest resources and forestry")

**Astana – 2015**

№	Assessment criteria	Position of the organization of education			
		Strong	Satisfactory	Assumes improvement	Unsatisfactory
	<b>Standard 1 " MANAGEMENT OF THE EDUCATIONAL PROGRAM "</b>				
1	HEI shows the development plan of EP on the basis of the analysis of functioning of EP, real positioning of higher education institution and their orientation on satisfaction of needs of the state, persons interested and learners.		+		
2	HEI has to show identity and uniqueness of the development plan of EP, their coherence with national priorities of development and strategy of development of the higher education institution		+		
3	HEI has to provide adequacy of the development plan of EP to available resources (including financial, information, to staffing, material and technical basis), to requirements of the market and educational policy of RK.	+			
4	HEI has to involve representatives of groups of persons interested, including students, TS and employers in formation of the development plan of EP	+			
5	HEI shows transparency of processes of formation of the development plan of EP. HEI provides knowledge of persons interested of the development plan content of EP and processes of its formation	+			
6	HEI has to define mechanisms of formation and regular revision of the development plan of EP and monitoring of its realization	+			
7	HEI carries out strategic, tactical and operational planning processes of EP and distribution of resources according to EP development plan	+			
8	HEI systematically collects, accumulates and analyzes information on realization of EP and carries out a self-assessment in all directions, on the basis of development and deployment of processes of measurement, analysis for assessment of success realization of development strategy of EP through such indicators as "productivity" and "efficiency", develops and revises EP development plan	+			
9	Development plans of EP pass public discussion with representatives of all persons concerned, on the basis of offers and amendments which the authorized joint body of higher education institution makes changes to the project		+		

10	HEI has to show compliance of priorities of the research work realized by TS of EP, national policy in education, science and innovative development		+		
11	An important factor is to ensure representativeness of representatives of parties concerned.	+			
12	HEI shows extent of realization of stability, efficiency, productivity, priority, transparency, responsibility, power delegation, differentiation principles and independence of financing system of EP			+	
	Management of EP has to include:				
13	management of activity through processes		+		
14	planning, development and continuous improvement mechanisms		+		
15	assessment of risks and ways of decreasing these risks		+		
16	monitoring, including creation of reporting processes, allowing to define dynamics in activity and implementing plans	+			
17	analysis of the revealed discrepancies, realization of the developed correcting and warning actions		+		
18	analysis of changes efficiency		+		
19	assessment of productivity and efficiency of divisions activity and their interaction	+			
20	All main business processes regulating realization of EP have to be documented in higher education institution.	+			
21	HEI has to define own requirements to various forms of education (full-time, part-time, DLT), to levels (BD – MD – PhD) and used technologies (distance learning).	+			
22	HEI has to define accurately those who are responsible for business processes, unambiguous distribution of functions of the personnel, functions of the joint bodies taking part in realization of EP	+			
23	HEI has to demonstrate an order of the statement, periodic reviewing (revision) and monitoring of educational programs and the documents, regulating this process.	+			
24	HEI has to provide presence and effective functioning of informing and feedback system focused on students, workers and interested persons.	+			
25	HEI has to show presence of communication mechanism with students, workers and other interested persons in higher education institution activity, including existence of established periods of consideration of complaints, addresses, and inquiries.	+			
26	HEI has to establish frequency, forms and assessment methods of educational		+		



	program.				
27	An important factor is the cooperation with other universities that implement the same educational program and exchange of experience.			+	
28	EP administration has to make decisions reasonably, on the basis of the facts.	+			
29	Management of EP has to show successful functioning of system of ensuring quality of EP, including its design, management and monitoring, their improvements, decision-making on the basis of the facts.	+			
30	An important factor is the availability of information systems and databases, use of the Internet for information, the availability of the portal and / or Internet site containing information reflecting planning and the evaluation of its effectiveness for students, staff and the public.	+			
31	Management of EP has to perform the evidence of transparency of control system of educational program.		+		
32	An important factor is the participation of interested persons (employers, TS, students) as part of the governing board of the educational program.	+			
33	HEI has to show presence and proofs of the intensive use in management of EP of the system of collecting and analysis of statistics on the contingent of students and graduates, available resources, staffing, scientific and international activity and other directions.	+			
34	An important factor is the management of EP on the basis of the results of studies of changes in the internal and external environment.		+		
35	Management of EP has to provide measurement of the degree of satisfaction of TS requirements, personnel and students and to show proofs of elimination of the shortcomings found within process of measurement.		+		
36	Management of EP has to show proofs of openness and availability for students, TS, parents (official reception hours on private matters, e-mail communication, etc.).	+			
37	HEI has to show presence of the communication channel, on which any interested person can do innovative suggestions for improvement of activity of EP to the body of higher education institution and governing bodies. HEI has to show examples of the analysis of these offers and realization of similar offers in higher education institution life.			+	
	<b>Total</b>	<b>21</b>	<b>13</b>	<b>3</b>	<b>0</b>
	<b>Standard 2 " SPECIFICITY OF THE EDUCATIONAL PROGRAM "</b>				
	<b>Assessment criteria: content of EP</b>				

38	HEI has to show presence of the developed models of the graduate of the educational program, including knowledge, abilities, skills, competences, personal qualities.	+			
39	HEI has to provide proofs of participation of TS and employers in development and management of educational programs, ensuring their quality.		+		
40	HEI has to prove that employers, who are taking part in design and realization of EP, are typical representatives of employers (representativeness) and express interests and views, characteristic for the majority of employers.		+		
41	HEI has to define content, volume, logic creation of an individual educational trajectory of students, influence of disciplines and practices to form professional competences of graduates.	+			
42	Management of EP has to show a continuity of the content of educational program at various levels (BA – MA – PhD – additional education), including logic of the academic interrelation of disciplines, sequence and continuity.			+	
43	Management of EP has to show influence of disciplines to form students professional competence, skills and blocks of knowledge.			+	
44	Management of EP has to show accurate definition of logical sequence of courses of disciplines and reflection in the working program of the main requirements to learning results.	+			
45	Management of EP has to show presence of professional context in content of disciplines.	+			
46	Management of EP has to show presence of effective balance between theoretical and practice-oriented disciplines.			+	
47	Management of EP has to show logic and reasons of drawing up curricula and tutoring programs, in particular reasons of a choice of this or that discipline in the list of the curriculum, the reason of assignment of the status post-or prerequisite, compliances of the name and the content of disciplines to the actual directions of development of studied area of science/society, etc.	+			
48	Management of EP has to provide content of disciplines to learning level (BA – MA – PhD) and to offered learning results.	+			
49	List and content of disciplines have to be available for students. Disciplines have to contain results of the most relevant research works and other information of taught area. Disciplines should comprehensively cover all the issues, the problems existing on the agenda of world science taught in the area.	+			
50	An important factor is to harmonize content of educational programs with educational programs of leading foreign and Kazakh HEI.			+	

51	It is necessary to provide different types of the activity in the structure of educational program; content has to promote development of students' professional competences taking into account their personal features.	+			
52	An important factor is the renewability of educational programs taking into account employers' interests in developing courses designed to develop professional skills.	+			
53	Management of EP has to provide annual revision of the content of curricula and training programs taking into account changes in the market, wishes of students and teachers and to involve employers, students, teachers and interested persons in making decision.	+			
<b>Assessment criteria: Individualization of EP</b>					
54	Management of EP has to provide equal opportunities for learners, including regardless of training language, on formation of the individual educational program directed on formation of professional competence.	+			
55	Management of EP has to provide existence and effective functioning of the system of individual help and consultation for learners concerning learning.	+			
56	Management of EP creates conditions for effective promotion of the student on individual educational trajectory, including advisors' consultations.	+			
57	Management of EP has to show use of advantages, specific features, requirements and cultural experience of students at realization of EP.	+			
58	Management of EP has to show individual academic support to the learners during realization of EP.	+			
59	Management of EP has to prove existence of monitoring system of student's achievements on the educational trajectory.	+			
<b>Assessment criteria: assessment of the results of students</b>					
60	Management of EP has to provide existence and effective functioning of the mechanism of an objective, exact and exhaustive assessment of knowledge, skills and qualities, acquired by learners in the course of training on discipline, and also the joint mechanism of the appeal and professional appeal assessment.		+		
61	Management of EP has to provide objectivity of the assessment of knowledge and degree of formation of professional competence of learners, transparency and adequacy of tools and mechanisms of their assessment.		+		
62	Management of EP has to provide compliance of assessment procedures of learners' knowledge with planned results of learning and program purposes.	+			
63	Management of EP has to carry out diagnostics of learners' knowledge at the beginning of training course and studying of disciplines.		+		

64	Processes and assessment criteria of knowledge must be transparent.	+			
	<b>Assessment criteria: teaching method</b>				
65	Management of EP has to provide systematic development, introduction and efficiency of active methods of training and innovative methods of teaching.		+		
66	Monitoring of student's independent work must be carried out at realizing educational program and mechanisms of adequate assessment of its results must be created.	+			
67	Important factor is existence of joint educational programs with foreign institutions and involvement of Kazakhstan scientific research organizations to educational process.			+	
68	Management of EP has to provide an opportunity for learners to do practices to learners on specialty and carry out monitoring of satisfaction of learners, heads of enterprises – places of practices and employers.		+		
69	Management of EP has to provide introduction of scientific research results in educational process.	+			
70	Management of EP has to prove carrying out researches and existence of their own inventions in teaching methods of disciplines of EP.	+			
	<b>Total</b>	<b>21</b>	<b>9</b>	<b>3</b>	<b>0</b>
	<b>Standard 3 "TEACHING STAFF AND EFFICIENCY OF TEACHING"</b>				
71	For realization of educational programs, management of EP has to attract experts and define disciplines read by them. Management of EP has to show reasons attracting them to conduct classes		+		
72	Management of EP has to motivate TS, constantly apply innovations and IT in the educational process.	+			
73	Management of EP has to provide compliance of teaching staff with qualified requirements, level and specifics of the educational programs.		+		
74	Management of EP has to show compliance of human resources of TS, with strategy and specifics of educational programs		+		
75	Management of EP has to show selection of staff on the basis of the analysis of requirements of educational programs, existence of recruiting system.		+		
76	Management of EP has to show availability of data about TS to the public, including TS catalogs, placement of questionnaires on HEI site.	+			
77	Management of EP has to show principle of administration availability and transparency of all personnel procedures.	+			

78	Management of EP has to provide monitoring of TS activity, systematic assessment of teachers competence, complex evaluation of teaching quality.	+			
79	Workload of the teacher has to include educational, educational and methodical, scientific work (preparation of projects and demands), organizational and methodical (including participation and organization of various events), increase of professional competence (professional development, studying literature of specialty), activity in professional environment (for example, participation in professional associations and consulting).	+			
80	Management of EP has to proof execution of all types of the planned loading by the teachers.	+			
81	Management of EP has to provide completeness and adequacy of individual scheduling of all kinds of TS activity, productivity monitoring and efficiency of individual plans.	+			
82	Management of EP has to show compliance of professional development, professional and personal development of TS with EP purposes.	+			
83	Management of EP has to provide purposeful actions on development of young teachers.			+	
84	Management of EP to show stimulating mechanisms of professional and personal development of teachers and employees.	+			
85	Management of EP has to provide monitoring of TS satisfaction.	+			
86	Management of EP has to show involvement of TS into practical activities in the field of specialization on the regular basis.	+			
87	Management of EP has to confirm involvement of specialists, who has experience in the relevant branch of economy, to EP realization.	+			
88	Management of EP has to show IT competence of TS, implementation of innovative methods and forms of education.		+		
89	An important factor is development of academic mobility, participation of the best foreign and domestic teachers, conducting joint research in EP realizing.			+	
90	Important factor is to attract famous scientists, public and political figures, honored figures to realization of EP.		+		
91	An important factor is participation of teaching staff in society (role of TS in education system, developing science, region, creating culture environment, participation in exhibitions, art contests, charity programs, etc.).	+			
	<b>Total</b>	<b>13</b>	<b>7</b>	<b>1</b>	<b>0</b>
	<b>Standard 4 " STUDENS "</b>				

92	Management of EP has to show the policy of formation of the contingent of learners of EP and transparency of its procedures.	+			
93	Management of EP has to provide representation of students in joint governing bodies of EP.	+			
94	Management of EP has to show understanding of the main roles (professional, social) of learners from results of training.	+			
95	An important factor is students' professional certification in educational process.			+	
96	An important factor is to involve students in SRW.		+		
97	An important factor is an internal and external mobility for students.			+	
98	An important factor is the availability of support programs for gifted students.		+		
99	Management of EP has to put the maximum quantity of efforts to providing graduates with employment and support of communication with graduates and creation of graduates' community according to the separate programs of EP.		+		
100	An important factor is to monitor employment and graduates professional activity.	+			
101	Management of EP has to stimulate learners actively to self-education out of the main program (extracurricular activities).		+		
102	Management of EP has to provide opportunity for exchange and expression of opinions – for example, by Internet forum, student's organizations.	+			
103	Management of EP has to create monitoring mechanism of learners' satisfaction with higher education institution activity as whole and separate services in particular.	+			
104	Management of EP has to show feedback system functioning, including immediate presentation of information about results of learners' knowledge assessment.	+			
105	An important factor is the possibility of continuing education on postgraduate and further education programs.			+	
106	An important factor is an academic mobility of students and teaching staff (an opportunity to study for a certain time in other local and foreign universities, academic exchanges of teaching staff) and mechanism to recognize learners' academic mobility results.			+	
	<b>Total</b>	<b>7</b>	<b>4</b>	<b>4</b>	<b>0</b>
	<b>Standard 5 " RESOURCES AVAILABLE TO THE EDUCATIONAL PROGRAM "</b>				

107	Management of EP has to provide availability to the learners possible number of structured organized information on disciplines – presentation materials, abstract of lectures, obligatory and additional literature, practical tasks, etc.	+			
108	Educational equipment and software used for acquiring educational programs have to be similarly used in the relevant branches and correspond to safety requirements by operation.		+		
109	HEI has to show efficiency of regular analysis of sufficiency of available educational programs resources – rooms, laboratories, computer equipment and software, financial resources, access to international databases of research results, professional practice and employment system, manuals and materials, etc.		+		
110	HEI creates a learning environment, promoting to form professional competence both considering individual requirements and possibilities of the learners.	+			
111	HEI has to create conditions for development of research groups, research laboratories, schools of sciences and workshops, involving students in research activity, providing participation of TS and students in scientific conferences and competitions; employing leading scientists and experts.	+			
112	HEI has to create conditions for developing scientific potential of young scientists and learners.	+			
113	HEI has to show compliance of the used infrastructure at realizing EP, with its specifics. Rooms, laboratories, offices, communication and computer equipment have to meet high requirements.	+			
114	HEI has to carry out assessment of dynamics of material resources development and information support of EP, efficiency of using assessment results for adjustment in planning and distributing budget.	+			
	A learning environment of EP has to be created in HEI which include:				
115	technological support of students and TS according to programs (for example, online training, modeling in the class) and intellectual inquiries (databases, programs of the analysis of data);		+		
116	academic availability - students have access to personalized interactive resources (also available outside the classroom), as well as to training materials and assignments, also provided an opportunity of self-rating test of students' knowledge through remote access to the portal (website) of the university;	+			
117	academic consultations – there are personified interactive resources, which help students to plan and carry out educational programs;	+			
118	vocational guidance – students have access to personified interactive resources, which help them to choose and achieve career advancements;	+			

119	necessary number of rooms, equipped with modern technical tools of teaching: educational and scientific laboratories, modern educational and training ranges, science and technology parks, equipped with the modern equipment, corresponding to realized educational programs, sanitary and epidemiologic norms and requirements;			+		
120	necessary quantity of computer classes, reading rooms, multimedia, language and scientific and methodical laboratories, number of seats in them;			+		
121	book fund, including educational, methodical and scientific literature fund on the general education, basic and profile disciplines on paper and electronic media, periodicals in conducting languages;			+		
122	scientific databases, electronic scientific journals, and their availability;	+				
123	existence of electronic versions of issued magazines;	+				
124	examination of RW results, final works, theses for plagiarism;	+				
125	free access to educational Internet resources, functioning of free Wi-Fi in all territory of higher education institution;			+		
126	Management of EP has to provide existence and availability of academic support of students, including granting to students of the directory and methodical materials, necessary for educational program development (reference book guide, academic calendar, management, etc.).	+				
127	Learning materials, software, educational literature and additional resources, and equipment must be available to all learners.	+				
128	An important factor is support of educational program by information and communication technologies.	+				
129	HEI has to present programs of developing laboratories, realizing EP.				+	
130	Management of EP has to define introduction extent of information technologies in the educational process of EP, carry out monitoring of use and development by TS of innovative technologies of training, including on the basis of ICT;	+				
	Management of EP has to show on the web resource information characterizing EP, efficiency of its use for improving EP, which has the following characteristics:					
131	existence of TS personal pages on the HEI portal;	+				
132	existence of adequate and objective information about TS on the portal (site);	+				
133	transparency of information of considering complaints, including placement of the virtual complaints book for consumers on the portal (site);	+				



134	placement of full objective information about activity and specifics of EP on the portal (site);		+			
135	placement on the portal (site) of external publications (quotes, links) about EP realization;	+				
136	use of information networks for informing public and stakeholders;	+				
137	An important factor is to keep copy rights in placing training and methodological support;	+				
138	An important factor is to create conditions for the teaching staff and students to acquire and to use information and communications technologies in educational process and university activities.	+				
	<b>Total</b>	<b>23</b>	<b>8</b>	<b>1</b>	<b>0</b>	<b>0</b>
<b>Standard 6 " The standards in the context of particular specialties "</b>						
<b>Natural and Technical science</b>						
	Educational programs in the direction of "Technical sciences and technologies", such as "Life safety and Environmental protection", etc., must meet the following requirements:					
139	to familiarize students with the professional environment and current issues in the field of specialization, as well as for the acquisition of skills through theoretical training the educational program should include subjects and activities aimed at getting practical skills and experience in the specialty as a whole and majors in particular: - Excursions to the enterprises in the area of specialization (factories, workshops, research institutes, laboratories, etc.) - Carrying out specific activities or entire disciplines in the enterprise of specialization - Holding Workshops to solve practical problems relevant to enterprises in the areas of specialization, etc.		+			
140	The teaching staff involved in the educational program must include at least one full-time teacher with long experience of working as a staff member at the enterprises in the area of specialization of educational program.		+			
141	The contents of all disciplines of EP should in one way or another based and include elements of fundamental topics of natural sciences, mathematics, chemistry, physics.		+			
	<b>Total in standard</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>TOTAL</b>	<b>88</b>	<b>41</b>	<b>12</b>	<b>0</b>	<b>0</b>