

**THE EXTERNAL EXPERT COMMISSION OF INDEPENDENT AGENCY FOR
ACCREDITATION AND RATING (IAAR)**

*Addressed to
accreditation*



**Independent agency for
accreditation and rating**

**REPORT
EXTERNAL EXPERT COMMISSION (EEC)
ABOUT THE RESULTS OF THE SPECIALIZED ACCREDITATION OF THE
EDUCATIONAL PROGRAMS**

**5V011100 - Informatics
6M060200 - Informatics,
5V010900 - Mathematics,
6M010900 - Mathematics,
5V011000 - Physics,
6M060400 - Physics**

«SH.UALIKHANOV KOKSHETAU STATE UNIVERSITY»

from 8 December to 10 December 2015

Kokshetau 2015

In accordance with the order of the External Expert Commission of Independent Agency for Accreditation and Rating Order number 35-15 from December 4, 2015 Sh.Ualikhanov Kokshetau State University external expert committee from 8 to 10 December 2015 was carried out conformity assessment of educational programs specialized accreditation standards. Report of the external expert commission (here in after - EEC) provides an assessment submitted to the educational programs of educational organization criteria EEC recommendations for further improvement of educational programs and profile settings Sh.Ualikhanov Kokshetau State University educational programs.

The composition of the EEC:

1. The Chairman of the commission - Shunkeev Kuanyshbek Shunkevich, Dr., Professor of A.Zhubanov Aktobe Regional University (Aktobe);
2. Foreign expert - Ibatullin Rinat Rivkatovich, Ph.D., Associate Professor of Kazan Federal University, (Russia, Kazan);
3. Expert - Gusmanova Farid Ravilovna, Candidate, Associate Professor of Al-Farabi Kazakh National University (Almaty);
4. Expert - Gazizova Aigul Idrisovna, PhD, Professor of S.Seifullin Kazakh Agrotechnical University (Astana);
5. Expert - Nadezhda Ivleva, candidate of pedagogical sciences, professor assistant of Kazakh National Pedagogical University, Abai (Almaty);
6. Expert - Elena Abenova, candidate of pedagogical sciences, associate professor of T. Ryskulov Economic University (Almaty);
7. Expert - Burganova Rosa Ildarovna, candidate of pedagogical sciences, associate professor of Economy, Finance and International Trade Kazakh University (Astana);
8. The observer for the Agency, Inara Alkenovna Mukhtarova, head of the project of institutional and specialized accreditation (Astana);
9. The employer - Dondagulova Jania Serikovna, acting head of Kokshetau Education Department (Kokshetau);
10. Student - Bataev Sabit, 1 course, specialty "Mathematics", L. Gumilyov Eurasian National University.

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1. PRESENTATION OF SH.UALIKHANOV KOKSHETAU STATE UNIVERSITY AND THE EDUCATIONAL PROGRAMS

Decree of the Council of Ministers № 563 July 25, 1962 Kokshetau Pedagogical Institute was opened. Rector of the Institute was appointed Ph.D. in History IS Gorohvodatskiy 29 March 1965 Resolution of the Council of Ministers of the Kazakh Soviet Socialist Republic №241 Kokshetau Pedagogical Institute named after the first Kazakh scientist-educator Shokan Ualikhanov.

Order of the Ministry of Education of the Republic of Kazakhstan dated 23 May 1996 №143 Kokshetau Pedagogical Institute named after Shokan Ualikhanov subject to liquidation on the basis of his new university was established – Sh.Ualikhanov Kokshetau University including agricultural institute and a branch of the Karaganda Polytechnic Institute. The first rector of the university was the doctor of physical and mathematical sciences, professor Abay Aytmuhambetov.

In 2001 according to the Resolution of the Government of the Republic of Kazakhstan Sh.Ualikhanov Kokshetau University was renamed the Republican State Enterprise " Shokan Ualikhanov Kokshetau State University " Referring to the decision of the Government of the Republic of Kazakhstan from April 28, 2012 № 544 breach Republican State Enterprise "Kokshetau State University. Ualikhanov "of the Ministry of Education and Science of the Republic of Kazakhstan was reorganized into the Republican State Enterprise on the right of business" Sh.Ualikhanov Kokshetau State University "of the Ministry of Education and Science of the Republic of Kazakhstan.

In 2013 according to the results of the national institutional accreditation the university was accredited for five years. As a result of the specialized accreditation of 16 educational programs are accredited for five years period.

In the ranking, conducted by the Center of Bologna process and Academic Mobility MES in 2014 two specialties of Sh.Ualikhanov Kokshetau State University 5V011200 - Chemistry and 5V091200 - Restaurant Business and Hotel Business took the 3rd place.

In 2015 Sh.Ualikhanov Kokshetau State University became a member of the European Association and the Eurasian Association of Universities.

Today Sh.Ualikhanov Kokshetau State University leads the regional market of educational services. In 2013, successfully passed the state certification in 2012 - recertified for compliance with international standards ISO 9001-2008, confirmed by the high level of training, educational, human, financial and other university processes.

Striving to achieve high quality of products (services) in accordance with European standards of Sh.Ualikhanov Kokshetau State University awarded with International award "European Quality".

In 2009, within the framework of the program "Leaders of XXI century» Sh.Ualikhanov Kokshetau State University awarded the International "Millennium" award for effective use in the professional field of advanced technologies, the development and implementation of extraordinary, innovative solutions. The Magna Carta (Bologna Declaration) was signed on September 2010.

At present the University provides training in 53 specialties of undergraduate full-time, evening and correspondence courses, 28 master specialties and 4 Doctoral specialties.

More than 300 teachers work at 23 departments. Among them - 22 doctors of sciences, 14 professors, 77 PhDs, 52 associate professors, 34 the owner of the grant «The best teacher of the university of the Republic of Kazakhstan", which confirms the high professionalism of the teaching staff and inexhaustible creative energy.

In order to promote research activities and expanding range of applications opened new research laboratories and university Eurasian Centre for Sustainable Development NOOSPHERE them. Vernadsky, laboratory NMR spectroscopy laboratory wind turbines made of composite

materials, the Scientific Research Institute of the region, the research laboratory agroinnovatsy, linguistics laboratory.

The infrastructure of the university consists of four modern educational buildings, equipped with the latest computers, linguistic and multimedia rooms. Annually updated library fund, numbering more than 700 thousand books.

The mission of the university - the formation of Kokshetau State University named after. Ualikhanov scientific and educational environment, which is implemented to train highly qualified professionals in demand in the labor market of the northern region of Kazakhstan and the country as a whole, have the values, knowledge and competencies in line with the current needs of society.

The activities of the University in accordance with the state license for the provision of educational services (number 12019134 on 11 December 2012), issued by the MES.

The highest collegiate governing body of the University is the Academic Council, which acts on the basis of the Charter and Regulations of the Academic Council.

Academic Policies Sh.Ualikhanov Kokshetau State University Quality aims to meet the requirements of international accreditation, the priorities of industrial-innovative development of Kazakhstan, innovative approaches to the formation of the content of special education programs. Quality Policy is aimed at meeting the needs of employers in the highly competitive and sought-after specialists; continuous improvement of the quality of educational activities based on the introduction of the use of innovative educational technologies; conducting competitive research, in line with the strategic objectives of development of the region; ensuring integration into the international educational space through the implementation of academic mobility, development programs "double diploma" to work together to attract leading foreign experts, the use of instruments of international accreditation.

Educational activities at the university is conducted on a three-level system of training: Bachelor - Master - PhD. Admission is based on state educational grants and contract basis. University is a leading higher educational institutions of the republic by the number of holders of the state grant "Mangilik el-industriyara".

Material and technical base of the university includes 5 reading rooms, the biological museum, educational laboratories, fitness center, gyms, a dispensary "Arasan", educational workshops, canteens, dormitories. Especially proud of the team is a sports camp "Tulpar", located in the recreation area Zerendy in Akmola region, comfortable " Students' House " functioning dispensary "Arasan". For imparting practical skills of students created an educational-scientific-industrial complex "Elite".

At the University have access to the catalogs of the Republican Interuniversity electronic library of Kazakh National Electronic Library and to the world databases: "SpringerLink", "Thomson Reuters», «ELSEVIER», «POLPREDsom", "RGB" and others.

The University is committed to the use of information technology.: AIS «Platonus», electronic document management system, website, etc. The official website of the university www.kgu.kz operates in 3 languages: Kazakh, Russian and English. The site has strategy, mission, information about the educational process, international programs, the results of accreditation and ranking of educational programs and other important information.

2. OVERALL ASSESSMENT OF THE EDUCATIONAL PROGRAMS

Subdivision development plan and objectives are drawn up with the involvement of all interested parties on the basis of the analysis of external and internal environment, monitoring, satisfaction of students and faculty. Development plan and purpose to ensure transparency and accessibility undergo collegial discussion and posted on the website for all interested parties.

Objectives OP correspond to the interests of consumers of educational services and sufficiently provide the expected level of training graduates in accordance with the plan of development of the educational programs of specialties. OP provide opportunities to periodically update the content of the programs, the construction of individual educational trajectories. Description of preparation and detailed results to diagnose their achievement. The amount of time allotted for the development of programs and their components, is sufficient to produce the claimed results. The form and content of the control results of development programs closer to the conditions of professional activity and allows to evaluate the readiness of students to solve professional problems

RSE on PVC "Kokshetau State University im.Sh.Ualihanova" operates under a state license for the provision of educational services: number 12019134 dated 11 December 2012 issued by the MES.

Educational programs 5V010900 - "Mathematics", 5V011000 - "Physics", 5V011100- Informatics (state license №12019134 (application №004), issued 11/20/13, the KKSON MES), 6M010900 - "Mathematics", 6M060400 - "Physics", 6M060200- Informatics (state license series number 12019134, (Annex №002 from 11.12.12g.), issued by the Committee for control of education and science of the MES RK), implemented in accordance with the State program of education development of Kazakhstan for 2011-2020, state educational standards of RK, the Strategic development plan of KSU named Ualikhanov in the 2014-2018 biennium. (25 September 2014)

The content of educational programs designed to meet the modern achievements of science and technology and production requirements. Annually updated catalog of elective disciplines and work study programs.

Evaluation of educational achievements and the level of preparation of students and undergraduates is provided through the use of score-rating system. Providing the required quality of training is carried out with the use of modern educational technologies. Contractor basic educational processes is a highly qualified teaching staff. Planning, management and implementation of educational programs carried out in accordance soStrategicheskim development plan KSU named Ualikhanov in the 2014-2018 biennium.

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Educational programs, 5V010900 - "Mathematics", 6M010900 - "Mathematics", 5V011000 - "Physics", 6M060400 - "Physics", 5V011100 - Informatics, 6M060200 - Informatics have the following positive aspects:

- Plan the development of educational programs held public discussions with representatives of all stakeholders, to ensure the individuality and uniqueness of the educational

plan, its consistency with national development priorities and development strategy of the organization of education;

- Ensuring that the teaching staff qualification requirements, and the level of specificity of the educational program;
- Created a learning environment that reflects the specifics of the educational programs, which includes personalized interactive resources (with access and outside the classroom), including teaching materials and tasks, etc .;
- The organization of educational process on the basis of credit technology;
- Orientation of the content on the formation of a practice-oriented training of students;
- Cooperation with the typical employers during the training process, a survey of employers to identify their opinions on the quality of educational services;
- Automation of the control of knowledge and consideration of educational achievements of students;
- Functioning of the electronic library with unlimited access to library resources;
- Availability of free WI-FI;
- The availability and completeness of EMCD in all disciplines of educational programs;
- A high level of informatization of educational process.

3. DESCRIPTION OF THE EEC VISIT

The visit of the external expert committee in Sh.Ualikhanov Kokshetau State University was organized in accordance with the program, a pre-agreed with the chairman of the EEC and approved by the rector of the university.

In order to coordinate the work of EEC 08.12.2015 was held the mounting assembly, in which the powers were distributed between members of the commission, clarified the schedule of the visit, agreed in the selection-examination methods.

EEC meetings with focus groups were held in accordance with the updated program of the visit, with the observance of the established time period. From the team of Sh.Ualikhanov Kokshetau State University it was provided by the presence of all the persons mentioned in the visit program.

During the visit, in addition to working with the Task Force, he held talks with students, undergraduates and high school teachers, graduates and employers.

Information about the colleagues and students who participated in the meetings with EEC

Participants category	Amount
Rector	1
Vice-rectors	4
Deans	3
Heads of the departments	6
Directors of departments and heads of departments	16
Teachers	60
Students	55
Undergraduates, doctoral	13
Graduates	49
Employers	26
Total	233

Members of AGE attended training sessions on accredited educational programs:

1. 5V010900 educational program "Mathematics": a practical lesson on discipline «Introductory course of mathematic» (3 course, Senior Lecturer, Master Atayev B.K.) (aud.625, case number 1)
2. 5V011000 educational program "Physics": 1) Mektep physics courses (3rd year, art teacher Shuyushbaeva N.N.) (room 511, building №1);..
3. 5V011100 educational program - «Informatics»: Programming I: Static and dynamic variables. Pointers (2nd year / IR-42, Senior Lecturer Jacques IN (Rm. 501, case number 1)
4. 5V011100 educational program - "Computer Science": Computer Animation: The creation of electronic teaching aids using Flash technology (a senior lecturer Karymsakov JJ) (aud.506, case number 1).

During the tour, the members of EEC acquainted with the state of the material and technical base, visited the museums, libraries, classrooms and laboratories, specialized classrooms, computer labs, student house, departments, offices, a canteen, a sports complex.

Activities planned in the framework of the visit the EEC contributed to a detailed acquaintance of experts with university training infrastructure, material and technical resources, teaching staff, representatives of organizations of employers, learners and graduates. This allowed members of the WEC u an independent assessment of compliance with the data contained in the reports on self-evaluation of educational programs of the University criteria specialized accreditation standards.

As part of the planned program of recommendations to improve the activities of the University, developed the EEC according to the results of examination, were presented at a meeting with the leadership of December 10, 2015

4. STANDARDS OF SPECIALIZED ACCREDITATION

4.1. Standard "Management of the educational program"

Development and management of educational programs of specialties 5V011100 - Informatics and 6M060200 - Informatics, 5V010900 - Mathematics, 6M010900 - Mathematics, 5V011000 - Physics, 6M060400 - Physics carried out on the basis of the State Education Development Program of Kazakhstan for 2011-2020, by order of MES RK №343 from. 16.08.2013g., Dublin descriptors, agreed with the European qualifications framework.

Preparing students for the OP specialties 5V011100 - Informatics, 6M060200 - Informatics Department of Informatics and implemented methods of teaching; OP 5V010900 - Mathematics, 6M010900 - Mathematics, 5V011000 - Physics, 6M060400 - Physics oversees the Department of Physics and Mathematics.

The implementation of educational programs and their development strategy in accordance with the mission and vision of the University of the priorities identified in the Strategic Plan of the KSU named Ualikhanov in the 2014-2018 biennium. The university's mission determines the tasks of departments in the development and implementation of the OP. Tasks departments in the implementation of OP annually discussed and approved at a meeting of chairs.

In the planning phase, to the definition of tasks for the development of educational programs involved faculty departments, graduate students, employers and managers of enterprises practices. At the end of each academic year the department, given the need, make a request for the necessary information and other material resources, the rector's office allocates to

the OP the required number of audiences. In developing the OP development plans used an analysis of resource classrooms, computers and material resources.

Manage the process of training activities carried out by pro-rector of the UR and educational service in conjunction with the first vice-rector and vice-rector for activities that provide the educational process with the necessary human, material and other resources. Vice-Rector for Academic Affairs carries out planning and control of work process management training activities. Dean of the Faculty and Chair analyze student performance during the semester as a result of boundary control and the results of examinations.

The Departments "Informatics and methods of teaching" and "Physics and Mathematics" systematically monitors the training of students in order to ensure the quality of education within the framework of internal quality system of education of Kokshetau State University im.Sh.Ualihanova (posted on the university portal - www.kgu.kz) . Monitoring includes: evaluation of all activities of faculties, departments and faculty; organizing and conducting ongoing monitoring of progress, intermediate and final certification; Quality assessment of training and methodological support; provision of educational and methodical literature; a survey of students, faculty and staff to determine the level of internal customer satisfaction and the quality of educational services.

Survey PPP conducted during the visit EEC naaru showed that PPP involvement in decision-making and strategic management - very good - 43.1%, good - 52.9%.

EEC conducting meetings, conversations and interviews with rectors, deans, heads of departments, managers and employees of structural subdivisions, learners, teaching staff, representatives of organizations of employers and graduates, as well as having carried out a survey of students and faculty members, a detailed introduction experts University training infrastructure, logistical and information-methodological resources, as well as the necessary documents following notes.

The strengths of the educational program are:

- Orientation of educational programs to meet the needs of the state, stakeholders and students;
- Implementation of transparent and evidence-based management processes and the development of educational programs through the activities;
- The adequacy of the plan for the development of educational programs available resources;
- The presence of accompanying educational process for accredited educational programs of information systems.

The weaknesses of the educational program are:

- Representativeness of representatives of stakeholder groups in decision-making on the management of the educational program.

In order to further develop and improve the activities of the University for the implementation of accredited educational programs naaru WEC recommends:

- Continue the implementation of consulting and research in line with national policy priorities in the field of education, science and innovation development.
- To organize the work on cooperation and exchange of experience with universities, implementing OP similar accredited.

By the standards of "Management of the educational program" accredited by the educational programs have 11 strong, 21 satisfactory and 1 suggest an improved position.

4.2. Standard "Development and approval of the educational programs"

The university developed a procedure for the approval, periodic review (review) and monitoring of educational programs and documents that regulate this process.

Methodical Commission departments monitor the adoption, implementation, and test the effectiveness of educational programs. Full responsibility for the implementation of OP bears head of the department. Questions of efficiency and effectiveness are considered at the meeting

of Chairs of the questions put to the meeting of the Faculty Council, the Rector, the Academic Council of the University. OP Monitoring carried out in the form of a discussion at a meeting of chairs, round tables or workshops, inviting employers, graduates and senior students. The amendments made to the OP and approved by the Academic Council of the University. Changes in OP, CED, RUP shall be made in the following order: a proposal to amend considered at a meeting of the department, approved by the educational and methodical commission of the faculty, in agreement with the educational-methodical service, are considered by the Academic Council of the University and approved by the first vice-rector.

Adoption of an educational program consists of the following stages: the development and discussion of the educational program, the implementation of the review of the educational programs, the revision of the educational program for the accounting proposals and comments made by employers and other stakeholders, to discuss the educational program, a recommendation for approval, approval process (materials OP posted on the university portal sections departments: Department of Informatics and methods of teaching - <http://kgu.kz/main/ru/obshhie-svedeniya31>; Department of physics and mathematics - <http://kgu.kz/main/ru/obshhie-svedeniya30>).

During the formation of the curriculum, training programs, introducing disciplines in the list of the curriculum involves teaching staff of departments, students and employers. For example, at the suggestion of employers in the education of undergraduate program includes discipline "School textbook Informatics", "Creation of electronic educational resources", on the proposal of mathematics teachers NIS curriculum replaced the discipline "Theory of functions of real variables" to "nonstandard tasks in mathematics" "Functional analysis" on "Methods of scientific and technical information search", at the suggestion of students who have work experience in the Nazarbayev intellectual school, is currently at the department of a proposal on the possibility of introducing subjects related to robotics, and others.

The central component of the educational program is a system of goals that characterizes the graduate model, developed and approved at the meeting of the departments, including knowledge, skills, competencies and personal qualities.

As a conventional unit of the complexity of the educational program used ECTS credits, which are tied to the degree of the profile to learning outcomes, the competence, to the academic load of students and undergraduates, as well as include the achievement of learning outcomes in the assessment procedure.

EP consists of modules common modules; modules in the specialty; FEB module (additional types of training); the final module.

The number of loans for undergraduate Ltd. is 33 credits; DB - 64 credits, including 20 credits is OK, 44 credits - HF; AP - 32 credits, of which 5 credits - OK, 27 credits - HF. Volumes Module FEB - 20 credits of practice, 8/16 FC loans, the final certification - 3 credits.

The number of credits to graduate DB - 20 credits, including 8 credits is OK, 12 credits - HF; AP - 22 credits, including 2 credits OK 20 credits HF. Volumes Module FEB - 13 credits (practice - 6 credits NIRM - 7 credits), the final certification - 4 credits.

Number of loans and additional theoretical training, practice and other types of education, based on 1 student on full-time training in accordance with SES and RUE

№	Specialty	Amount of credits							The average number of credits for the year
		1 course	2 course	3 course	4 course	In total for 4 years			
						theoretic	other	ИГА	
1	5B011100 - Informatics	40	43	42	24	129	20	3	37,5
2	5B010900 - Mathematics	45	48	44	29	129	20	3	38,25
3	5B011000- Physics	41	47	41	24	129	20	3	37,5
4	5B012000 – Professional education	40	41	41	26	129	20	3	37

Number of of credits and additional theoretical training, practice and other types of education, based on day-1 of a student learning according to SES and RUE

№	Specialty	Amount of credits					The average number of credits for the year
		1 cou	2 cou	In total for 2 years			
				theoretic	other	ИГА	
1	6M060200 - Informatics	32	23	42	13	4	29
2	6M010900 Mathematics	26	33	59	13	4	29.5
3	6M010900 – Mathematics, profile	28	-	28	13	4	28
4	6M060400 Physics	29	30	59	13	4	29.5

All disciplines of the learning cycle to reflect in its content required set of professional knowledge, skills and competences. The syllabus has a description of all the disciplines acquired in the course of examination of relevant disciplines and competencies of information about the methods of acquisition as well as the criteria for their evaluation.

Catalog of elective disciplines is formed on the basis of the curriculum. The need to include a certain discipline in the elective course catalog explains their relevance, employer requests and opinions of students.

Subjects included in reflect current development trends of the studied area. For example, for undergraduate specialties include the following courses: the polynomials and algebraic numbers, basic aspects of teaching mathematics, problem-solving workshop on mechanics and molecular physics, modern trends of world educational space, for postgraduate specialties include the following courses: The ratio of intuition and logic in the process of learning mathematics; The objectives for the development of mathematical abilities; Operations research; The use of differential equations in mechanics.

Classroom load is distributed on the main types of training sessions (lectures, practical, laboratory classes) in accordance with the JI, RUP, a model and working curricula. Budget time

for each type of independent work is reviewed and approved at the meeting of the department annually.

Polylingual training appeared in 2012-2013 academic year in the educational process. For example, on accredited specialties teachers graduating departments are taught discipline «Programming 1», «Programming 2», «Web-Technology», «Technology of School Physics Course», «Scientific research methodology», «Methodology of school mathematical textbook», «Practical course on solving mathematical problems», «Practical course on solving mathematical problems», «Introductory course of mathematics» (Atayev B.K.), «Practical course on solving physical tasks» (Khamzina B.E). In order to explore the rest of the English teachers currently work on self-improvement: teachers are engaged in English language courses, held training courses abroad.

The module "Practice" is being developed in conjunction with the department issuing rabotodatyamii in which students take four kinds of practices:

- Training practice (8 credits), which is divided into training and evaluation (in the first year, in the 2nd semester) and educational computing (in the second year, in the 4th semester);
- Continuous teaching (6 credits) - in the third year (in the city schools, training center "Softmaster" LLP);
- Production (4 credits) - the fourth year in the 8th semester;
- Undergraduate (2 credits) - the fourth year in the 8th semester.

For the practitioner studying contracts with Nazarbayev Intellectual school, regional school for gifted children "Daryn", №1 school and school №5 "Tandau", training center "Softmaster" etc.

All disciplines end exam, final control of knowledge is carried out according to the academic calendar at the end of 15-week semester. The forms of final control of each year determined by the department approved by the First Vice-Rector.

During the meeting with the students of the educational programs of specialties 5V011100 - Informatics and 6M060200 - Informatics, 5V010900 - Mathematics, 6M010900 - Mathematics, 5V011000 - Physics, 6M060400 - Physics found that not all students are aware of the ways and forms of inclusion in work on the development of educational programs.

The survey of students conducted during the visit WEC naaru, showed that:

- Academic load / requirements to the student - completely satisfied - 87.6%, partially satisfied - 8,6%;
- Information requirements in order to successfully complete this specialty - completely satisfied - 93.3%, partially satisfied - 6,7%;
- Inform students about the courses, educational programs, and academic degrees - completely satisfied - 89.5%, partially satisfied - 10.5%;

EEC conducting meetings, conversations and interviews with rectors, deans, heads of departments, managers and employees of structural subdivisions, learners, teaching staff, representatives of organizations of employers and graduates, as well as having carried out a survey of students and faculty members, a detailed introduction experts University training infrastructure, logistical and information-methodological resources, as well as the necessary documents following notes.

The strengths of the EP are:

- The availability of the content of academic disciplines professional context;
- Periodically updatable educational programs;
- The availability of the content of educational programs to students;
- The introduction in the educational process of multilingual teaching.

EP weaknesses are:

- Not enough to harmonize the content of educational programs with similar educational programs of leading international and Kazakhstani educational organizations;
- The lack of joint educational programs with foreign educational institutions.

In order to further develop and improve the activities of the University for the implementation of accredited educational programs naaru WEC recommends:

- To strengthen the involvement of students in the composition of peer education program administration.
- To organize the work on the implementation of joint educational programs with leading foreign and Kazakhstani universities.
- Intensify the work on attraction of Kazakh scientific and research organizations to participate in the educational process.

By the standards of "Development and approval of educational programs" accredited by the educational programs have 16 strong, 11 satisfactory and 3 suggest an improved position.

4.3. Standard "Student learning, teaching and evaluation of progress"

Management of the education programs provide opportunities for students, regardless of the language of instruction, the formation of individual educational trajectory. Individual educational trajectory is reflected in the modular educational programs and individual curricula, which, along with general education, basic disciplines of compulsory component are elective courses and practices, which aim to ensure professional competence. Elective courses are selected by students on their own and recorded in AIS «Platonus».

Taking into account individual characteristics, needs and cultural experience of students is carried out in the various aspects of the scientific and educational activity: when choosing elective courses; when choosing a practice base; the determination of the thesis topic; when choosing the head of the thesis; with the participation of students in research work (scientific projects and research projects of the department).

In the description of the expected learning outcomes of the department are trying to focus on the existing professional standards and appropriate levels of NSC.

In the syllabus each discipline teacher evaluation criteria are described in detail, according to which the students can adjust their actions to achieve a particular result of learning and enables students to strive to achieve better results.

The individual student's plan is based on both core and elective courses. The choice of elective disciplines studying done before the start of the school year. Advisors specializing in turn previously held the presentation of elective courses for the next academic year, which allows the student to make informed choices. The final formation of individual educational trajectories of learning takes place under the supervision of advisors specialty.

Independent work of students have a variety of forms, and promotes the formation of research skills, activate mental activity, the ability to analyze and synthesize information. For example, the discipline 5V011100 - Computer "Computer Architecture and Networking" (4 credits: 3rd semester - 2 credits in the 4th semester - 2 credits) independent work in the 3rd semester - a variant homework and in the 4th semester - team work on the design and administration of the network; within the framework of practical training work of students of the 2nd course of the specialty 5V011100 - Computer science is the application received on discipline "Programming 1" of knowledge in solving various problems in the language Turbo Pascal, and then self-creation of video tutorials on the process of solving these problems. Activities carried out by students and undergraduates, teachers systematically monitored, and the most serious errors dealt with in discussions with students.

The department annually conducts surveys of students, teaching staff and employers for satisfaction with the educational process, the criteria of assessment of levels of knowledge, skills and competences of the degree of compliance with the requirements of employers enrolled.

In order to improve the educational process, head of the department is carried out monthly visits to PPP sessions, after sessions held discussion and evaluation of goals achieved, draw conclusions, recommendations are made. As part of the PPP exchange of experience of the department to attend classes each other, hold open class, master-classes.

WEC naaru conducting meetings, conversations and interviews with the rector, vice-rectors, deans, heads of departments, managers and employees of structural subdivisions, learners,

teaching staff, representatives of organizations of employers and graduates, as well as having carried out a survey of students and faculty members, a detailed introduction experts from the University educational infrastructure, logistical and information-methodological resources, as well as the necessary documents following notes.

The strengths of the OP are:

- Provide equal opportunities to students regardless of the language of instruction on the formation of individual educational trajectory;
- Use in the classroom of information and communication technology and software;
- The presence of the progress monitoring of students on educational trajectory and achievements of students;
- The use of various forms of independent work of students
- Objective assessment of knowledge and degree of development of professional competence of students, transparency and adequacy criteria, instruments and evaluation mechanisms.

In order to further develop and improve the activities of the University for the implementation of accredited educational programs naaru WEC recommends:

- To continue working on improving the system of innovative technologies in priority areas of educational research.

By the standards of "Studentotsentrirovannoe learning, teaching and assessment of performance" accredited by the educational programs are 4 strong and satisfactory position 8.

4.4. "Students' Standard

The university has formed a clear and transparent policy formation of a contingent of students and undergraduates. In the formation of a contingent of students the University is guided by the existing legal framework, the Model Rules of admission to the organization of education, realizing professional training programs of higher education (approved by the Resolution of the Republic of Kazakhstan dated 19.04.2012 year №111, as amended on 19.04.2012 year №487). Formation of a contingent of students is carried out by placing the state educational order for training of scientific and pedagogical staff, as well as tuition at their own expense of citizens and other sources.

The contingent of students

Code and name of the specialty	Form of study	2012/2013 ac.y.			2013/2014 ac.y.			2014/2015 ac.y.			2015/2016 ac.y.		
		all	gr	Students who study in state	all	gr	Students who study in state	all	gr	Students who study in state	all	gr	Students
5B011100 Informatics	full-time	82	73	26	71	59	22	80	73	36	80	72	47
	distance	69	7	34	45	3	26	19	3	7	23	3	17
6M060200 – Informatics	full-time	6	4	3	23	5	5	10	4	5	5	4	2
5B010900- Mathematics	full-time	78	67	31	67	51	27	86	74	40	75	62	47
	distance	85	3	36	66	5	28	57	2	24	49	3	22
6M010900- Mathematics	full-time	5	3	4	7	3	5	3	0	2	1	0	0
5B011000- Physics	full-time	54	39	20	48	35	22	47	38	34	44	35	40
	distance	27	0	5	18	0	0	12	0	1	12	0	5
6M060400 Physics	full-time	7	6	5	11	4	6	10	0	0	5	5	2

On the University website lists all requirements for the movement of a contingent of students.

The university has a system of internal monitoring of the quality of knowledge, carried out a systematic survey of students.

Students EP "Physics", "" Mathematics "take an active part in various contests, and are actively involved in research and other activities at the University, at the Department of contributing to their personal, social and professional development.

Student participation in these events are marked with diplomas of winners: Zhumazhanov Elnur, 4th year student, was awarded the diploma of 2 degrees Republican student subject Olympiad in Physics 2013, Aytugan Ernazar, 3-year student, was awarded the diploma of 2 degrees Republican student subject Olympiad in Physics, March 27-28 2014. Aytugan Ernazar, Almenov Ernar Aynarovich, Manap Aydin Samatuly took 2nd place on the Republican Student Subject Olympiad in Physics (2015), 4th course student Meyrmanova A. specialty Physics April 27, 2015 based on the results of the conference took the 1st place. The 3rd course students group MK -21 Kasymbekov Temirlan, group MR-22 Mikhaylenko M.B won the 3rd place in the individual competition on the Republican Student Subject Olympiad in Mathematics (2015).

Students EP " Informatics" in recent years actively participated in the following competitions and contests:

1. S. Kabaeva, a student of 2nd course took 2nd place in the Republican contest of research works of students of higher educational institutions of the Republic of Kazakhstan on natural, technical, socio-economic sciences and humanities, 2015.

2. The team of students (N. Kozlovsky, Taldykin S., P. Wojtowicz) took 2nd place in the VI Republican Olympiad in Informatics for students majoring 5V011100 - Informatics (Turkestan), 2015.

3. Student M. Böhm awarded the Akim of Akmola region in the competition "Best Innovative Project" KISatpaev, 2013.

4. Students Smirnov and H. Kozlowski successfully passed the 1st round of Republican Olympiad for sports programming, included in the 50 top ten of the 400 teams, 2012.

5. Students Team (N. Kozlovsky, Bolatova S. Smirnov) took the 5th place in the Republican Olympiad in Informatics for students 5V011100 - Informatics. N. Kozlovsky took 2nd place in the individual competition, 2012.

Students at accredited educational programs are systematically involved in the research. Results of research work of students and undergraduates are presented in diploma and course papers, master's theses, and published in the proceedings of scientific conferences, scientific journals.

Number of scientific publications students EP

Educational program	2012-13	2013-14	2014-15	2015-16
5B011000 «Physics»	5	4	5	3
5B010900 «Mathematics»	6	5	10	2
5B011100 «Informatics»	10	8	7	2
6M060400 «Physics»	14	12	15	5
6M010900 «Mathematics»	6	5	10	2
6M060200 «Informatics»	10	23	15	5

The department has a program for the development of academic mobility with universities in Russia, the Czech Republic, Latvia. The decision on the recognition of results developed in the other university courses taken at meeting of the department, jointly with advisors. The basis for the recognition of results of loans disbursed to a transcript of the course with the results of training in another university.

Academic mobility of the students (internal)

№	Surname	Course	Where have they been	Period
1	Marova G.	3 course 5B011100 - Informatics	M.Auezov South Kazakhstan University (Shymkent)	3 semester 2013-2014 academic year
2	Zhakupova A.	2 course 5B011100 - Informatics	Kazakh National Pedagogical University named after Abay (Almaty)	3 semester 2014-2015 academic year
3	Alenova A.	2 course 5B011100 - Informatics	L.N. Gumilyov Eurasian National University Astana	3 semester 2014-2015 academic year
4	Umralina S.	3 course 5B011000 - Physics	Karaganda State University named after. E.A Buketov	1 semester 2013-2014 academic year
5	Omarbekova J.	3 course 5B011000 - Physics	Kazakh National Pedagogical University named after Abai	1 semester 2015- 2016 academic year
6	Aytmyrza M.	3 course 5B011000 - Physics	Kazakh National Pedagogical University named after Abai	2 semester 2014- 2015 academic year
7	Santas A.	2 course 5B010900 - Mathematics	L.N. Gumilyov Eurasian National University Astana	1 semester 2012-2013 academic year
8	Basimbekova A.	2 course 5B010900 - Mathematics	M.Auezov South Kazakhstan University (Shymkent)	1 semester 2013-2014 academic year
9	Kusainova G.	3 course 5B010900 - Mathematics	L.N. Gumilyov Eurasian National University Astana	1 semester 2012-2013 academic year
10	Abdilmanova A.	3 course 5B010900 - Mathematics	L.N. Gumilyov Eurasian National University Astana	1 semester 2012-2013 academic year

In 2012-2013 the 3rd course student of M.Auezov South Kazakhstan State University (Shymkent), speciality 5V010900- "Mathematics" A. Berdikulova studied at Sh.Ualikhonov KSU by the academic mobility program (internal), academic year 3 semester.

Academic mobility of students (external)

№	Surname	Course	Where have they been	Period
1	Z. Bolatova	5B011100 - Informatics 2 course	Czech Agricultural University / specialty Informatics	3 semester 2014-2015 academic year
		5B011100 - Informatics 3 course	Czech Technical University / specialty Informatics	5,6 semester 2014-2015 academic year
2	S.Smirnov	Informatics, 2 course	Omsk F. M. Dostoevsky State University	3 semester 2015-2016 academic year
3	S. Nurgaliyev	3 course 5B010900- Mathematics	Latvia University of Agriculture	3 semester 2014-2015 academic year
4	M.Beisembayeva	2 course 5B011100 - Informatics	Czech Agricultural University / specialty Informatics	3 semester 2014-2015 academic year

Indicators of students' achievement

Course	Absolute average academic performance					
	2012-2013 academic year		2013-2014 academic year		2014-2015 academic year.	
	Average score	Level of quality, %	Average score	Level of quality, %	Average score	Level of quality, %
5B011000 «Physics»						
1 course	4,0	100	4,0	100	4,0	97,15
2 course	3,0	82	4,0	95	3,33	87,63
3 course	2,33	71	3,67	90	2,67	79,6
4 course	4,0	95	3,67	94	3,33	86,4
5B010900 «Mathematics»						
1 course	2,33	70	3,67	91	4,0	95
2 course	4,0	100	3,67	90	3,67	94
3 course	4,0	100	3,33	87	3,67	94
4 course	4,0	100	3,67	91	3,33	88
6M010900 «Mathematics»						
1 course	4,0	95	3,67	90	3,67	90
2 course	4,0	97	3,67	92	3,67	90
6M060400 «Physics»						
1 course	4,0	95	3,67	92	4,0	96
2 course	4,0	96	4,0	95	3,67	94
5B011100 «Informatics»						
1-course	3,41	63	3,17	69,7	3,33	98
2-course	2,76	33	2,67	80,5	3,12	79
3-course	3,11	68	3,00	66,7	3,1	60
4-course	3,22	89,5	3,5	83,4	3,2	79
6M060200 «Informatics»						
1-course	3,78	100	3,2	100	3,33	100

2-course	3,8	100	3,8	100	3,17	100
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The results of the Alumni accredited EP for the last 3 years

Specialty	Year of issue	State exam (complex exam)		Final qualifying work	
		Average score	The quality of knowledge	Average score	The quality of knowledge
6M010900 Mathematics	2012	-	-	-	-
	2013	3,5	100	3,5	100
	2014	3,2	100	3,2	100
6M060400 Physics	2012	3,2	100	3,2	80
	2013	4,00	100	4,00	100
	2014	3,6	100	3,7	100
5B011000- Physics	2012	2,79	75	3,4	100
	2013	2,9	78	3,02	100
	2014	3,2	85	3,4	100
5B010900- Mathematics	2012	3,3	100	3,2	82
	2013	3,06	73	3,3	100
	2014	3,52	95	3,23	91
5B011100- Informatics	2012	3,33	65,8	3,83	100
	2013	3,2	66	3,1	96,6
	2014	3,13	61	3,9	100
6M060200- Informatics	2012	3,92	100	4	100
	2013	3,85	100	3,92	100
	2014	3,65	100	3,93	100

There are scientific circlets for students of accredited specialties

1. "Solution of non-standard tasks in physics and mathematics" Training of students for the physical and mathematical Olympic Games, for solving non-standard tasks (the head – C.P.M.Sci, associate professor, Simakin M. V. (physics), senior teacher Atayev B. K. (mathematics) ;
2. "Entertaining programming" in the direction of Programming (the head - c.ph-m.s, Ilyasheva G. I., the senior lecturer Aubakirova A.S.);
3. "The magic country", in the Modelling direction (the head - C.P.Sci., Kostangeldinova A.A., senior lecturer Karymsakov Zh.Zh.). Training of students for the Olympic Games.

Graduate students are employed on requests by employers. The career centre of Sh. Ualikhanov state university contributes to their employment.

Figures of graduates employment

Employment of graduates of the EPs 5B011100 - "Informatics", 6M06020 - "Informatics", 5B010900 - "Mathematics", 6M010900 - "Mathematics", 5B011000 - "Physics", 6M060400 - "Physics"

Specialty name	2012-2013			2013-2014			2014-15		
	Students number	Number of employees	Emp-t %	Students number	Number of employees	Emp-t.%	Students number	Number of employees	Emp-t.%
5B011100 Информатика	34	32	95	22	21	95	7	6	86
6M060200 – Информатика	2	2	100	12	12	100	7	7	100
5B010900- mathematics	18	15	83	15	10	87	23	20	87
6M010900- Mathematics	1	1	100	4	4	100	3	3	100
5B011000- Physics	12	10	83	14	12	86	18	17	94
6M060400 Physics	4	4	100	3	3	100	8	8	100
Total									

In the course of meetings with students and master's degree students of the accredited EPs the following was discovered:

- the percentage of students engaged in scientific-research work and consulting is not sufficiently high;

- low percentage of internal and external academic mobility for students;

The questionnaire survey of students held in the course of visit of BOK HAAP, showed the following:

- 94,3% of them are satisfied with exam and attestation fairness;

- 95,2% of them are satisfied with teacher-student relationship.

NARA EEX having led meetings, discussions and interviewing with the rector, vice rectors, deans, managing chairs, heads and staff of structural departments, students, academic staff, representatives of the organizations of employers and graduates, and also having carried out questioning of students and academic staff, detailed acquaintance of experts with educational infrastructure of the university, material and information-methodical resources, and also necessary documents, notes the following:

The advantages of the EP :

- students' life cycle beginning from their entrance and graduation is regulated, confirmed and reported;

- the existence and appliance of instruments for gathering, monitoring and decision-making within following actions on the basis of information about students' academic achievements;

The disadvantages of the EP:

- insufficient degree of partnership with other educational organizations and national centres of ENIC/NARIC for providing with comparative recognition of qualifications.

For the purposes of further development and advance of the university on realization of accredited educational programs NARA EEX **recommends:**

- to consider possibilities of partnership with other educational organizations and national centres ENIC/NARIC for providing with comparative recognition of qualifications;

- to activate the work in partnership with graduate on creating a community of graduates of the accredited educational programs;

- to work out a mechanism of stimulation of students to self-education and development in extracurricular time.

The accredited educational programs on the Standard “Students” have 3 strong, 14 satisfactory, 1 supposed position improvements.

4.5. Standard «Academic staff and teaching efficiency»

The main provisions of staff policy are given in Statute of Sh.Ualikhanov Kokshetau State university, Strategic plan of the university for 2014-2018, documented procedure “Personnel management”.

Selection of staff members is carried out on the basis of analysis of demands of educational programs, after consideration of which a contest for vacancies is declared. For this purpose a system of employment of teachers and personnel is worked out and confirmed in accordance with “Rules of contests for vacancies” confirmed by the Ministry of education and science of the Republic of Kazakhstan which include the following: motivation of employees to quality workmanship, their engagement in processes of constant development of work quality; provision of a guarantee of professional development as indispensable condition for a high-quality and interested activity; restriction in employment of persons without academic degrees and ranks; cancellation of contracts with teachers who do not conduct scientific researches and have no concrete research results for a long time.

Staffing of department of Physics and mathematics, department of informatics and methods of teaching is completed according to the legislation of the Republic of Kazakhstan.

The departments have their provisions of department in which main activities of the department, duty regulations for the department chairman, professors, associate professors, senior teachers, teachers, laboratory assistants are stated.

The quantity of the academic staff teaching basic and vocation-related subjects of the specialty: 2012-2013 academic year - 28 persons, 14 of them are with academic degrees (or 50 %). Since 2013-2014 academic year the department of mathematics and methods of teaching was united with the department of Physics and methods of teaching. At the time of verification the quantity of academic staff of the department of “Physics, mathematics and methods of teaching” – 25 teachers, 5 of which are doctors of science, 8 of them are candidates, that is, 52% with academic degrees. At the current academic year the quantity of internal academic staff – 24 teachers, qualitative figures are shown in the table :

Qualitative figures of academic staff realizing the EPs “Physics” and “Mathematics”

Specialty	Number of teachers realizing the EP	Have academic degrees and ranks (quant / %)	Average age of teachers	Winners of state awards
5B010900 Mathematics	28	15/54%	55	4
6M010900 Mathematics	13	13/100%	61	4
5B011000 Physics	25	14/56%	50	2
6M060400 Physics	11	11/100%	60	2
5B011100 Informatics	24	12/50%	50	2
6M060200 Informatics	8	8/100%	54	1

Full information about teachers of the department is given on the portal of the university. Information about teachers, disciplines they manage are given on the stand of the department. Each teacher of the department has a portfolio in which all necessary information about qualification, including copies of diplomas about education, certificates of professional development, lists of main works, a list of teaching disciplines are given.

Annually, according to a plan approved by the management of the HEI, teachers of the departments take various advanced training courses. Academic staff improves skills at universities of the Republic of Kazakhstan, NCPD "Orleu" (Almaty), leading foreign universities. The management of Sh. Ualikhanov state university finances professional development of academic staff in whole or in part

Professional development courses, taken by the academic staff of the department of physics and mathematics

	Date	Courses	Surname
1	3.05.12 - 17.05.12.	«Electric metrology and measuring technologies»	Mukhamedin S. M.
2	05.2012	Information – communication and distance learning	Simakin M. V.
3	05.2012	Information – communication and distance learning technologies	Ashirov R. R.
4	18.06.12 – 30.06.12	Qualification upgrading course on distance learning technologies	Kozhabayev R. G.
5	10.09.12 – 22.09.12	Qualification upgrading course on distance learning technologies	Musaybekov R. G.
6	05.12	Language preparation courses on international program АЙРЕКС in Warsaw technological university	Pakhomova L. F.
7	06.2013	«Innovational technologies and investigations directed to development of “green” energy and advanced refining of production.»	Karymsakova A.Zh.
8	17.11.13-26.11.13	Modern educational technologies	Uvaliyeva S. K.
9	30.09.2013	Elsevier Science Direct and Scopus Training	Hamzina B. E.
1	10.2013-12.2013	Innovative educational technologies	Bayshagirov H.Zh.

1	November 2013- November 2014	Brunel university, Great Britain	Nurmagambetova M. N.
1	12-15.05.2015	Basics of theory and methods of pedagogical measurements	Brekenova A.S.
1	March, 2015	Republic institute for professional development of managing and scientific-pedagogical employees of education system of the Republic of Kazakhstan (Өрлеу),	Kozhabayev R. G.
1	May, 2015	Republic institute for professional development of managing and scientific-pedagogical employees of education system of the Republic of Kazakhstan (Өрлеу), Portugal	Atayev B. K.
1	November, 2015	Republic institute for professional development of managing and scientific-pedagogical employees of education system of the Republic of Kazakhstan (Өрлеу)	Atayev B. K.

Professional development courses, taken by the academic staff of the department of informatics

№	Date	Courses	Names, surnames of teachers
1	February-December 2012	Astana, Center for pedagogical excellence – training courses levels 1,2,3	Kostangeldinova A.A.
2	September – May 2012	Sh. Ualikhanov state university	Mukharsky D. V.
3	September – May 2012	Sh. Ualikhanov state university	Karelkhan N. K.
4	December 2012	New-castle university, (Great Britain)	Karelkhan N. K.
5	18.06.12 – 30.06.12	Information – communication and distance learning technologies	Karymsakova Zh.Zh.
6	December - February 2014	Brunel University Great Britain	Mukanov E.S.
7	3.05.2014-17.05.2014.	AEO «Orleu» Almaty	Ilyasheva G. I.
8	3.05.2014-17.05.2014.	AEO «Orleu» Almaty	Aubakiorva A.S.
9	30.03-11.04.2015	AEO «Orleu» Almaty	Sayabayeva A.R.
10	30.03-11.04.2015	AEO «Orleu» Almaty	Kasenova B. R.
11	January - June, 2015	Sh. Ualikhanov state university	Anokhina T.V.
12	January - June, 2015	Sh. Ualikhanov state university	Iskakova A.T.
13	January – June, 2015	Sh. Ualikhanov state university	Aydarkhanova A.K.
14	28.05-13.06.2015	AEO «Orleu» Portugal, Porto	Kostangeldinova A.A.
15	25.05-07.06.2015	AEO «Orleu» Germany, Dusseldorf	Karymsakov Zh.Zh.
16	23.10-06.11.2015	AEO «Orleu»	Atayev E.K.

	Spain, Valencia	
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Planning of academic staff's work is done by the department chairman. Distribution of academic load on teachers is carried out taking into account their qualifications. The total amount of academic load of regular teachers working for a full rate is defined with performance of educational, education-methodical, research, organizational and methodical, educational work, professional development, other types of works within six-hour working day. Annual volume of staff's academic work is established by Academic council, proceeding from an approved standard for academic year, academic staff's members and taking into account need of performance of all types of academic work following from curricula. The academic load of academic staff is formed according to annual order on conformation of norms of time of annual academic load for an academic year in which the volume of hours of pedagogical loading on categories of teachers is determined (professor, associate professor, senior teacher and teacher).

Performance of all types of the planned work is reflected in the individual plan of a teacher. Teachers of departments qualitatively keep individual documentation, correctly and in due time fill in all sections of individual plans and report on performance of individual plans at department meetings where corresponding conclusions about performance are made or reasons of non-performance of separate sections of individual plans are analyzed.

Performance of points of an individual plan is traced monthly. At department meetings, teachers report on performance of their individual plans. In case of non-performance of this or that point of the plan, teacher explains its reason and the head of the department postpones dates of performance of that work. At the end of an academic year teacher writes an annual report on performance of the individual plan which, in fact, is a result of his work. The head of the department writes conclusion in the individual plan on teacher's work for the academic year.

There is off-budget extra charge to salary at the university. When charging this extra charge all range of activities of teacher and employee is considered, which, in its turn, is a rather serious factor for work motivation. At re-election for a new term of work, results of all activities of the teacher are also considered. The university holds annual competitions. "The best teacher", "The best curator" etc. Names of the best teachers are brought on an honor roll, they are awarded by certificates of honor, monetary awards, records expressing gratitude are made in service records.

The EP motivates academic staff to apply innovations and IT in the educational process constantly. Teachers (Damekova S. K., Uvaliyeva S. K., Karymsakova A.Zh., Musaybekov R. K., Pakhomova L.F., Atayev B. K., Kuttykzhayeva Sh. N., Seytenov S.M., Altayeva G. S.) apply multimedia complexes, case-technologies, group works, interactive methods, project methods at their lessons.

Teachers of the departments of "Physics and mathematics", "Informatics and MT": Seytenov S.M., Simakin M. V., Kozhabayev R. G., Atayev B. K., Uvaliyeva S. K., Aubakirova A.S., Jacques I.N., Karymsakov Zh.Zh. participate in regional, city, presidential (NIS) Olympiad for schoolchildren every year; in regional competitions of scientific projects as chairmen of the judges or members of the judge. Senior teachers Ilyasheva G. I., Kostangeldinova A.A., Aubakirova A.S. give lectures at courses for professional development in Akmola affiliate of NCPD "Orleu". In 2010 (December) a senior teacher Karelkhan N. got the 3rd place in the competition of the Akim of the region for best innovational project after K. I. Satpayev with his work "Use of information systems in the theory of mass service".

In 2012 and 2013 senior teachers Sayabayeva A.R., Kostangeldinova A.A. took part in international fair of social-pedagogical innovations (Kokshetau t.). The current year a senior teacher of informatics and teaching methods Aubakirova A.S. has been invited by a test center of the Ministry of education and science of the Republic of Kazakhstan as an expert of test tasks on disciplines of the specialty 5B011100 – Informatics for EAAP. In 2014 senior teachers of the department Kostangeldinova A.A., Damekova S. K., Turtkarayeva G. B. were invited as experts

of DER. Since 2012 Kostangeldinova A.A. has been invited to Kokshetau, Karagandy, Kostanay, Atyrau as a trainer within Professional development program for pedagogical employees of the Republic of Kazakhstan on level programs (levels 1,2,3), worked out by CPE in conjunction with Faculty of education, University of Cambridge.

A number of teachers of the departments of "Physics and mathematics" has awards, honorary degrees, honorary certificates for merits in the field of education of the Republic of Kazakhstan.

Awards, honorary titles of the academic staff of the departments "Physicists and Mathematics", "Information Scientists and MT"

Name, surname	Position	awards, honorary titles, certificates of honor for merits in the field of education of the Republic of Kazakhstan, among them: medals, awards, letters
Kuttykozhasyeva Shakhrazat Nurtayevna.	Professor	The best teacher of higher education institution 2008, the Owner of the state grant for an outstanding contribution to development of science and equipment of the Republic of Kazakhstan
Kozhabayev Kairzhan Gabdullovich	Professor	The best teacher of higher education institution 2007, "The honourable educator of the Republic of Kazakhstan", "The honored worker of science and education" (2012), gold medal of V. I. Vernadsky (2012), gold medal "European Quality" (Gold medal European Quality, 2013)
Malikov Tursynbek Sabyrovich	Professor	"Award for excellence in the sphere of education of the Republic of Kazakhstan". (25.09.2000.), "The honourable educator of the Republic of Kazakhstan" (4.04.2008.)
Bayshagirov Hayrolla Zhambayevich	Professor	The best teacher of higher education institution, 2007
Turtkarayeva Gulnar Bayanovna	associate professor	The best teacher of higher education institution, 2008
Mukhamedin Sagat Mukhamedinovich	professor	The best teacher of higher education institution, 2007
Musabayev Kadyrkhan Kamziyevich	Academician professor	Certificate of honor of the Ministry of national education
Hamzina Botagoz Erkenovna	Senior teacher	The best teacher of higher education institution, 2009
Rakhimzhanov B. N.	Senior teacher	"The honourable educator of the Republic of Kazakhstan", October, 2015
Ilyasheva G.	Senior teacher	The best teacher of higher education institution, 2014

The management of the HEI renders support to scientific-research work and consulting through training workshops, traineeship abroad.

The academic staff carries out scientific projects which are financed by the Ministry of education and science of the Republic of Kazakhstan.

Scientific projects financed by the Ministry of education and science of the Republic of Kazakhstan

№	Project name	Years for realization	Financing amount	Project supervisor
1	Grant project of science committee of the Ministry of education and science of the Republic of Kazakhstan "Geographical information package of educational Atlas maps"	2013-2015	12 000 000	c.p.s. Damekova S. K.
1	Contract for performance of research works in partnership with " Al-Farabi KNU " on implementation of grant project of science committee of the Ministry of education and science of the Republic of Kazakhstan "Complex development, work-out of technologies, production, theoretical and experimental studies of trial models of small wind power installations"	2015-2017	3 445 000	Project manager Dr.Sci.Tech. Kusainov K., Co-director (executive) Dr.Sci.Tech. Bayshagirov H.Zh.

Results of teachers' scientific researches are published in scientific articles, magazines, also they are reported in scientific conferences of various level.

The quantity of scientific articles of the academic staff

	Department	2012-13	2013-14	2014-15	2015-16
In international publisher Tomson...	Physics and mathematics	1	1	7	-
				-	-
Top-rated journals (РИНЦ and etc.)	Information scientists and MT	6	4	5	2
	Physics and mathematics	1	1	1	-
Journals recommended by CCSES the MES of the RK	Information scientists and MT	2	4	16	4
	Physics and mathematics	-	4	2	-
magazines of the near and far abroad	Information scientists and MT	2		2	-
	Physics and mathematics	1	-	1	-
International conferences	Information scientists and MT	38	32	40	5

	Physics and mathematics	4	6	9	2
Monographs	Information scientists and MT	-	2	-	
	Physics and mathematics	1	-	-	1
Manuals	Information scientists and MT	6	10	3	
	Physics and mathematics	6		1	
Electronic textbooks	Information scientists and MT	-	-	1	-
	Physics and mathematics	18	12	10	
Total	Information scientists and MT	55	63	73	6
	Physics and mathematics	31	23	24	3

The HEI regularly invites professors, scientists from abroad who give lectures on disciplines of the accredited specialties.

So in 2011 professor of Kyrgyz state university of Architecture, construction and transport, department of higher mathematics Iskenderova D. A., gave lectures on the discipline "Mathematical analysis on varieties and stochastic analysis", in 2012 – PhD Ahmadullin I. (Purdue University, USA) gave a course of lectures on the discipline "Probabilistic Methods in Multimedia Applications"; professor PhD Friedrich-Alexander Universität Erlangen Johan Dick gave a course of lectures on the discipline "Introduction to materials science", in 2013 – professor Shobukhov (MSU, Russia) – on the discipline "Network operating systems", in 2015 professor of Latvian agricultural university, Phd Anda Zeidmane was invited for giving lectures on the discipline "Selected chapters of differential equations".

The atmosphere in the department is characterized by stability, creative relation to performance of duties. Labor and performing discipline is up to standard.

Questioning of the academic staff showed the following results:

- the HEI promotes academic staff's innovative activity – very good– 68,6%, good – 31,4%;
- academic staff's feedback level with management– very good – 72,5%, good – 27,5%;
- the HEI gives opportunity for sustainable development of academic staff– very good – 68,6%, good – 31,45%;
- academic staff evaluate the university's support and its management with their scientific-research activity – very good– 60,8%, good – 35,3%;

NARA EEX having led meetings, discussions and interviewing with the rector, vice rectors, deans, managing chairs, heads and staff of structural departments, students, academic staff, representatives of the organizations of employers and graduates, and also having carried out questioning of students and academic staff, detailed acquaintance of experts with educational infrastructure of the university, material and information-methodical resources, and also necessary documents notes the following.

Strong positions of the EP:

- adequacy of individual scheduling of the academic staff's work on all kinds of activity, monitoring of productivity and efficiency of individual plans;
- systematic check of teachers' competences
- realization of the system of professional development

Weak positions of the EP:

- practitioners are not engaged in realization of educational programs systematically;
- low percentage of academic degree of the academic staff of the department of informatics and MT;
- high average age of the academic staff on the accredited specialties.

For the purposes of further development and advance of the university on realization of the accredited educational programs NARA EEX **recommends:**

- to proceed working actively on engaging specialist-practicians in giving lectures and practical classes;
- to activate the academic staff's scientific-research work and implementation of results of researches into educational process;
- to work out a program for development of academic mobility of the academic staff;
- to proceed engaging well-known scientists, social and political figures in the process of realization of the EPs.

The accredited educational programs have 3 strong, 15 satisfactory and 4 supposed position improvements on the standard "Academic staff and teaching efficiency".

4.6. Standard «Educational resources and supporting systems for students»

In the course of inspection the commission ascertained that the university is sufficiently provided with material-technical base for carrying out educational process, realizing missions, aims and tasks of the university. The HEI is supplied with modern material-technical base and resources and capable of rendering educational service of corresponding quality.

The university has its own site (<http://www.kgu.kz/>). Its email address – mail@kgu.kz, kgu@mail.kz. The site contains all official information about the university and a block of useful references (AHC «Platonus» <http://platonus.kgu.kz/>, «Moodle» <http://moodle.kgu.kz/>, electronic library www.biblioteka.kgu.kz/). The site is daily added to and updated. There are information sections for teachers, students, postgraduates, graduates, applicants and schoolchildren.

All information about academic staff given on the site is characterized by actuality and objectiveness. For expeditious informing the public the university uses corporate e-mail in the kgu.kz domain.

There are material-technical and information resources in the university and in the department which provide high level organization of the educational process. Students of the accredited educational programs study at the corpus №1, which is supplied with necessary classrooms and interactive tools of teaching: 17 classrooms, 4 computer classrooms, 2 multimedia cabinets, 3 physics laboratories, a scientific-methodical cabinet of laboratory «Didactics of higher and secondary schools», SMW scientific laboratory of spectroscopy, a gym with a total area of 152 sq.m.

Increasing attention is paid to acquiring specialized equipment and furniture. In 2013-2014 the department of Physics and mathematics received an educational equipment on electricity, and in 2014-2015 a. y. - laboratory furniture for the laboratory of "Optics and electricity". In 2013-2014 the department of informatics renovated 35 computers, and in 2014-2015 - 15 graphic tablets, 2 interactive boards were acquired. The used total educational area completely corresponds to standard indicators, norms of public health and fire service. There are conclusions of SES and fire service.

Educational environment created by the university fully reflects specifics of the EPs. In general, provision of the EPs 5V011100 – Informatics, 6M060200 – Informatics, 5B010900 – "Mathematics", 6M010900 – "Mathematics", 5B011000 – "Physics", 6M060400 – "Physics" with information resources conforms to license requirements, development of resource base and library stock is updated in compliance with normative documents

Fund of educational and scientific literature

Code	Students number	In Kazakh	In Russian
EP 5B010900-Mathematics	125	1937	3049
EP 6M010900-Mathematics	3	1267	1929
EP 5B011000-Physics	58	1560	2223
EP 6M060400-Physics	5	1290	1650
EP 5B011100-Informatics	80	1362	2125
EP 6M060200-Informatics	5	1090	1950

Provision of disciplines (the accredited EPs) with EMCD comprises 100 %. The existing fund of educational, education-methodical and scientific literature as related to the contingent of students corresponds to norms of provision with books.

The university's electronic library includes: electronic EMCD for students, work-study program, education-methodical textbooks, additional material, demonstration material, materials for practice, electronic versions of separate textbooks, courses of lectures, tests for self-control, materials for SIWWT, etc.

The structure of the library complex includes 2 delivery desks, 6 reading rooms with 350 seats, (total area 698 sq.m), 2 electronic reading rooms equipped with computers with internet connection switched on local network. The library is equipped with 25 computers of new modification, 4 scanners, 7 printers. The library is able to receive and exchange information with domestic and foreign higher education institutions, libraries and organizations through e-mail and on INTERNET network. The library is connected to the corporate network of the university. There is an access to external educational resources, i.e. to databases at the university:

- KA3NEB (Kazakhstan national electronic library national electronic base). Languages – Kazakh , Russian , English;(contract dated 20.04.2012.)
- PMЭБ (Republic interuniversity electronic library of Kazakhstan) – national data base, uniting electronic resources of HEIs of the Republic of Kazakhstan;(contract dated 05.04.2011.)
- Polpred. Polpred.com, the university also uses a data base POLPRED. COM, which gives revisions of mass media: articles, publications, analysis;
- English sites: databases of electronic resources of the company THOMSON REUTERS.(contract dated NC STI 06.01.2012)
- Springerlink.(contract dated 06.12.2011)

Sh. Ualikhanov Scientific library is the member of Association of high school libraries of the Republic of Kazakhstan. Besides, there is an access to free foreign databases: ACL Anthology, ArXiv, Biodiversity Heritage Library, BioMed Central, BioOne, Child Welfare Information Gateway, Clinical Trials, Cogprints, Database of Research on International Education, Directory of Open Access Journals, EDINA, Encyclopædia Iranica, Espacenet - European Patent database, Highwire, Hindawi Open Access Journals, Internet Engineering Task Force, Internet Scout Report, Intute, Mathematics Subject Classification.

There are 10 computer classrooms with 120 computers, equipped with modern computer equipment and connected to Internet. During examinations testing of students is held in these classrooms. Connection to Internet is carried out on an allocated channel with a capacity of 20 Mbps. Wireless, fiber-optical and WiFi technologies are used in the work of the corporate

network. Continuous access to Internet allows to use on - line - resources in the educational process.

Examination of results of SRW, final works, master theses on plagiarism is carried out through “Antiplagiati” Internet service, a contract is signed with JSC “Anti-Plagiati”.

Activities on registering the right for a work protected by copyright are carried out by Department of science and commercialization of technologies of the university according to requirements of Instruction about the state registration of the rights for the works protected by copyright (April 22, 2010 No. 131 "About some questions of copyright and allied rights"). On the accredited EPs patents of the certificate on copyright of the computer programs are taken out, manuals are provided in the table of the report.

On the basis of the laboratory of "Didactics of higher and secondary schools", the head - professor Kozhabayev K.G., international scientific and practical conferences "Training, Education, Development in XXI century" were held, doctoral and master's dissertations were defended: Aytkozhin K.A., Kambarov K.I., Turtkarayeva G. B., Semkin A. (teacher of the year of the Republic of Kazakhstan, 2013, since 2015 doctoral candidates Gabdulin R. S., Uvaliyevoy S. have been carrying out research work in the specialty 6D010900 – Mathematician, students carry out master and diploma works.

Technological support for students and academic staff is carried out with the help of AIS «Platonus». Students have access to educational materials and tasks through personified interactive resources (accessible even at non-learning time). Through remote access to the site of the university students have opportunity to pass self-control test.

Questioning of students carried out during the visit of NARA EEX, showed their satisfaction level with:

- accessibility of library resources – fully satisfied 79%, partially satisfied – 20%;
- existing educational resources of the university – fully satisfied 83,8%, partially satisfied – 13,3%;
- existing computer classrooms and internet resources, with their accessibility – fully satisfied 85,7%, partially satisfied – 13,3%.

NARA EEX having led meetings, discussions and interviewing with the rector, vice rectors, deans, managing chairs, heads and staff of structural departments, students, academic staff, representatives of the organizations of employers and graduates, and also having carried out questioning of students and academic staff, detailed acquaintance of experts with educational infrastructure of the university, material and information-methodical resources, and also necessary documents notes the following.

Strong positions of the EP:

- modern scientific and educational infrastructure;
- actual information-educational environment for academic staff and students;
- availability of library resources, specialized classrooms.
- personified interactive resources (with access even at non-learning time), possibility of a trial self-assessment of students’ knowledge through remote access to the portal (site) of the university
- free access to educational Internet resources, functioning of free WI-FI in all territory of the educational organization

Weak positions of the EP:

- insufficient level of provision with education-methodical and scientific literature on disciplines of educational programs in the state language;

For the purposes of further development and advance of the university on realization of accredited educational programs NARA EEX **recommends:**

- search for ways of creating conditions for development of scientific teams, engaging students in SRW, activating participation of the academic staff and students in scientific conferences and competitions;

- to improve mechanism of monitoring of material-technical resources and information provision of the EP.

The accredited educational programs have 6 strong, 18 satisfactory and 1 supposed position improvements on the standard «Educational resources and supporting systems for students».

4.7. Standard «Information management and reporting»

The university is engaged in processes of information management, for the purposes of assessment of efficiency of activities, defining level of realization of missions, aims, tasks and possibilities of improving the service constantly data is gathered and analyzed.

The university regularly carries out round tables with employers, interviewing and questioning of students, graduates of specialty, academic staff, needs of all participants of the educational process are defined, opinions and wishes of the interrogated parties are considered in the process of work-out and realization of EPs.

Information resource is the system of "Platonus" database which represents a program created for maintenance of assessment processes of students' knowledge within rating system, taking examinations by method of computer testing, control of students' knowledge and filling of electronic journal by teachers.

In 2014 a system of electronic document flow "Alfresco" was launched the main goals of which are as follows: solution of various tasks on automation of projects management, including work with documents (orders, strategy, plans, office letters, orders, different types of **statements**), control of performing discipline, archiving of all documentation. Also an important function of the system is organization of working hours and increase of efficiency of its use.

Kazakhstan automated library information program (KAБИC) is used in the Scientific library, this product serves for automation of main library processes and creation of electronic catalog of the library's fund, and also to conduct a full text database. The Scientific library has developed and started a new site (<http://biblioteka.kgu.kz>).

Assessment of productivity and efficiency of realization of the EPs is carried out on the basis of analysis of dynamics of the contingent of students, their progress level, achievements, employment of graduates that define opportunities for improvement of the EP's quality.

EEC notes the existence of an internal information and education portal, an extensive corporate network which allows to provide access to all information resources from any computer, creates necessary conditions for high-quality training of specialists and development of academic staff.

According to the department's work plan within academic year all teachers attend each other's classes for the purpose of experience interchange. The reciprocal visiting of classes is carried out according to a schedule and fixed in reciprocal attendance register.

In general, all work of the departments of "Physicists and Mathematics", "Information Scientists and MT" is reflected in semi-annual and annual reports on EMW in which individual work of each teacher on education-methodical, educational work, international cooperation, academic mobility, about implementation of edition plan is analyzed.

For the purposes of improvement of students' knowledge quality, development of educational programs monitoring of students' satisfaction with the realization of educational programs is carried out.

In the whole EEX notes that the higher education institution uses modern information systems, information and communication technologies and software for adequate management of information.

NARA EEX having led meetings, discussions and interviewing with the rector, vice rectors, deans, managing chairs, heads and staff of structural departments, students, academic staff, representatives of the organizations of employers and graduates, and also having carried out questioning of students and academic staff, detailed acquaintance of experts with educational

infrastructure of the university, material and information-methodical resources, and also necessary documents notes the following.

Strong positions of the EP:

- information management processes are implemented, including gathering and analysis of information;
- participation of students, employees and the academic staff in the processes of gathering and analysis of information.

Weak positions of the EP:

- insufficient systematization in analyzing information for the purposes of defining and predicting risks occurring during realization and development of educational programs.

For the purposes of further development and advance of the university on realization of the accredited educational programs NARA EEX **recommends:**

- to improve the system of assessment of the EP's efficiency for the purposes of defining opportunities for improving the EP's quality on the basis of information analysis;
- to work out a mechanism assessing risks in the development of educational programs for to invent alternative ways of decreasing them;
- to envisage measures for documentary registration of consent to processing personal information of the academic staff.

The accredited educational programs have 2 strong, 17 satisfactory and 1 supposed position improvements on the standard «Information management and reporting».

4.8. Standard «Public information»

Information about the activity of the university and its departments, also realization of educational programs is given on official site <http://www.kgu.kz> in compliance with Provision about official site of Republic state organization on the basis of economic control rights "Sh.Ualikhanov Kokshetau state university".

Formation of public's positive attitude towards the educational organization is carried out in the following directions: regular update of the site; active work of the University Museum; traditional events within the university and outside of it (Open Days, freshman day, vacancy fair, etc.); weekly in-house newspaper «Алай».

Objective information on activity and specifics of educational programs includes the support system for students and academic staff (information and communication, resource, support connected with the edition and publications of educational, education-methodical and scientific literature, social support, etc.), by results of training letters of thanks are sent to parents, especially distinguished students are recommended for participation in various events of republican, international level, etc.

One of the ways of consideration of complaints or proposals of interested persons is a direct address to the head of the higher education institution in its personal blog which is on the homepage of the site of the university. Information about the department chairman is given on the site of the university in the section of the departments "Physicists and Mathematics", "Information Scientists and MT" with indication of e-mail address through which any interested person can ask a question and get qualified answers.

Sh. Ualikhanov state university has a steady social partnership with public organizations and authorities of the region (Election commission, council of veterans, etc.), there are student council, Association of graduates, there is also labour-union organization of employees realizing protection of the rights and interests of members of labor collective more than 50 years.

Satisfaction of interested persons with information quality and its completeness is investigated by means of analysis of questionnaires for students and academic staff.

NARA EEX having led meetings, discussions and interviewing with the rector, vice rectors, deans, managing chairs, heads and staff of structural departments, students, academic staff, representatives of the organizations of employers and graduates, and also having carried

out questioning of students and academic staff, detailed acquaintance of experts with educational infrastructure of the university, material and information-methodical resources, and also necessary documents notes the following.

Strong positions of the EP:

- various ways of information distribution, including information networks for informing general public and interested persons;
- participation of the educational programs in various procedures of external assessment, including in ratings and ranging of educational programs.

Weak positions of the EP:

- not all information about the university is presented in three languages.

For the purposes of further development and advance of the university on realization of accredited educational programs NARA EEX **recommends:**

- to pay more attention to placement of information about results of external assessment of the educational programs on the official site of the university;
- to activate work on participation of the EP in external assessment, ranging and ratings of various levels.

The accredited educational programs have 4 strong, 7 satisfactory and 1 supposed position improvements on the standard «Public information».

4.9. Standard «Standards in the section of separate specialties»

The development of the EPs 5B011100 – Informatics, 6M060200 – Informatics, 5B010900 – "Mathematics", 6M010900 – "Mathematics", 5B011000 – "Physics", 6M060400 – "Physics" is aimed at obtaining of necessary theoretical and practical knowledge by students. In the process of acquiring the educational programs students are given actual knowledge in spheres of pedagogy, psychology, according to key competences presented in the EPs communication skills, skills of analyzing personality and behavior, prevention and a resolution of conflicts, etc. are formed.

Results of training on the educational programs are the following: formation of competences demanded in labor market; professional activity aimed at psychology and pedagogical provision of educational process; personal-professional and social development of students, contributing to their socialization, formation of general personality culture. Training of competent highly qualified, polylingual specialists in the EPs 5V011100 – Informatics, 5B010900 – Matematikoa, 6M060400 – Physics is conducted.

Programs are developed within the EP 5B010900 – "Mathematics" and some disciplines are taught in English, such as Methodology of school mathematical textbook, Practical course on solving mathematical problems, Introductory course of mathematics, the EP 5V011000 – "Physics" - Technology of School Physics Course, Scientific research methodology. 6M060400 – "Physics" - Practical course on solving physical tasks and etc., and also some disciplines are planned in the Kazakh language for Russian groups, and, on the contrary, in Russian for Kazakh groups.

For acquaintance with contents and features of forthcoming practical work on a chosen specialty in the educational programs emphasis is placed on different types of practice. Students have their professional practice in M. Gabdullin polylingual profile school-gymnasium No. 3 secondary school No. 1, Nazarbayev intellectual school, Softmaster LLP, JSC "NIT". Teachers with rather long-term work experience Sattarova M. K., Zaitova R. M. are involved in giving classes, managing of externship, predegree practice, preparation of diploma papers.

The disciplines of the specialization included in curriculum are based on materials of earlier studied subjects. The current state of preparation within the EP is supported by active use of ICT, annual updating of themes of diploma papers, and also introduction of new elective disciplines taking into account recommendations of employers.

One of the priority directions of Sh Ualikhanov state university is development of interactive and information-communication technologies (ICT). There are specially equipped classrooms where training, modeling, testing computer programs and packages of professional applied programs are installed for giving classes, SIW, working on diploma papers.

In 2015 according to development plan of the EPs 5V010900 – "Mathematics", 6M010900 – "Mathematics" the department of "Physics and Mathematics" has opened doctoral studies. Themes of diploma and master researches of the EPs 5V011100 – Informatics, 6M060200 – Informatics are directed on solution of tasks which are actual and have importance for the university. For example, AIS Platonus program modules are developed for registering attendance of students, for Testing (Mukanov E.), anti-plagiarism (Mukharsky D), the automated system for rating of academic staff (Mukanov E, Anokhina of T).

Staff composition of the departments is rather stable, there are teachers with awards, honorary titles, medals, certificates of honor for merits in the field of education of the Republic of Kazakhstan, 80% of regular teachers work at the department from the time of opening of the specialties of physics and mathematics. Educational programs are realized by teachers of different age groups: skilled, with long-term scientific and pedagogical work experience – dr. p. sci., professor Kozhabayev K.G., dr. sci. tech., professor Mukhamedin S.M., C.P.M.Sci., associate professor Simakin M. V., C.P. Sci. Kozhabayev R. G., dr. tech. s Bayshagirov H. Zh, teachers of middle age: Dr. P.M.Sci., professor Kuttykozhayeva Sh. N., C.P.Sci., associate professor Turtkarayeva G. B., C.P.Sci. Damekova S. K., C.P.M.Sci. Ilyasheva G. I. The academic staff includes regular academic staff with long-term work experience in the system of school education, 11 years of work experience - Musabayev R. G., senior teachers Shuyushbayeva N. N., Atayev B. K., Hamzina B. E. have certificates of IELTS 5,5. The department gives effective support to young teachers. Recent years, 4 senior teachers of the department of Physicists and Mathematics and 1 teacher from the department of informatics have passed to doctorate degree. Annually teachers of the departments take various advanced training courses in foreign and neighboring countries.

Special disciplines of educational programs 5V011100 – Informatics, 6M060200 – Informatics, 5B010900 – "Mathematics", 6M010900 – "Mathematics", 5B011000 – "Physics", 6M060400 – "Physics" are based on fundamental sciences, interrelation of subject matters is reflected in the catalog of elective disciplines.

Teaching is conducted on the basis of modern achievements of world science and practice in the field of specialization, and also with appliance of advanced methods and technologies of teaching – method of contextual teaching, problem teaching, development of critical thinking. Information and communication technologies and other modern educational technologies are widely applied in teaching

Employers note the following types of competences which are characteristic for graduates of the educational programs: existence of professional competences (knowledge of basic courses of physics, mathematics, informatics, their methods of teaching, aspiration to organize educational process with appliance of modern educational techniques and technologies, possession of skills of professional and interpersonal communication).

NARA EEX having led meetings, discussions and interviewing with the rector, vice rectors, deans, managing chairs, heads and staff of structural departments, students, academic staff, representatives of the organizations of employers and graduates, and also having carried out questioning of students and academic staff, detailed acquaintance of experts with educational infrastructure of the university, material and information-methodical resources, and also necessary documents notes the following.

Strong positions of the EP:

- students are capable of self-study skills;
- the existence of disciplines with innovative methods of teaching and planning;

For the purposes of further development and advance of the university on realization of accredited educational programs NARA EEX **recommends:**

- consider possibilities of preparing managers in the sphere of education management.

The accredited educational programs have 4 strong, 5 satisfactory position improvements on the standard «Standards in the section of separate specialties».

RECOMMENDATIONS

Recommendations on specialized accreditation of the educational programs 5B011100 – Informatics, 6M060200 – Informatics, 5B010900 – Mathematics, 6M010900 – Mathematics, 5B011000 – Physics, 6M060400 – Physics:

Standard «Educational program management»

- to proceed realization of consulting and research work in accordance with priorities of national policy in the sphere of education, science and innovative development.

- to organize work on partnership and experience exchange with HEIs realizing similar EPs

Standard «Development and confirmation of educational programs»

- to enhance participation degree of students in collegial organs of educational program management.

- to organize work on realization of common educational programs with foreign and Kazakhstani leading HEIs

- to activate work on engaging Kazakhstani scientific-research organizations in educational process.

Standard «Student-centered training, teaching and progress assessment»

- to proceed work on improving systems of innovative technologies, on actual directions of pedagogical researches.

Standard «Students»

- to consider possibilities of partnership with other educational organizations and national centres ENIC/NARIC for providing with comparative recognition of qualifications;

- to activate the work in partnership with graduate on creating a community of graduates of accredited educational programs;

- to work out a mechanism of stimulation of students to self-education and development in extracurricular time.

Standard «Academic staff and teaching efficiency»

- to proceed working actively on engaging specialist-practicians in giving lectures and practical classes;

- to activate the academic staff's scientific-research work and implementation of results of researches into educational process;

- to work out a program for development of academic mobility of academic staff;

- to proceed engaging well-known scientists, social and political figures in the process of realization of the EP.

4.6. Standard «Educational resources and supporting systems for students»

- search for ways of creating conditions for development of scientific teams, engaging students in SRW, activating participation of academic staff and students in scientific conferences and competitions;

- to improve mechanism of monitoring of material-technical resources and information provision of the EP.

Standard «Information management and reporting»

- to improve the system of assessment of the EP's efficiency for the purposes of defining opportunities for improving the EP's quality on the basis of information analysis;
- to work out a mechanism assessing risks in the development of educational programs for to invent alternative ways of decreasing them;
- to envisage measures for documentary registration of consent to processing personal information of the academic staff.

Standard «Public information»

- to pay more attention to placement of information about results of external assessment of educational programs on the official site of the university;
- to activate work on participation of the EP in external assessment, ranging and ratings of various levels.

Standard «Standards in the section of separate specialties»

- to consider possibilities of preparing managers in the sphere of education management.

Independent Agency for Accreditation and Rating
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