

REPORT

on the results of the External Expert Panel's work on evaluation of the compliance with the requirements of the specialized accreditation standards of the academic programs:

5B100200 - «Systems of Information Security» 6M060200 - «Information Science» 6D071800 - «Electric-power industry»

of the "Kazakh National Research Technical University named after K.I.Satpayev"

May 25-27, 2016

INDEPENDENT AGENCY FOR ACCREDITATION AND RATING External Expert Panel

Addressed to the IAAR Accreditation Council



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May 25-27, 2016

Almaty city

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Based on the Order of the Independent agency for accreditation and rating (hereinafter – IAAR) no. 24-16-OD as of 24/05/2016 external expert panel evaluated the compliance of the academic programs of the "Kazakh National Research Technical University named after K.I. Satpayev": 5B100200 – «Systems of Information Security», 6M060200 – «Information Science», 6D071800 – «Electric-power industry» with the specialized accreditation standards of IAAR.

The report of the external expert panel (hereinafter - EEP) contains an assessment of the presented academic programs to the criteria of the IAAR, as well as EEP recommendations for further improvement of academic programs and profile parameters of the academic programs of the "Kazakh National Research Technical University named after K.I. Satpayev".

EEP membership:

- 1. **Panel Chair Vladimir Kosov**, Doctor of Physical and Mathematical Sciences, Professor, Kazakh National Pedagogical University named after Abaya (Almaty city);
- 2. **International Expert Prof. Erika Vaiginiene**, Deputy Director for Research, Innovation and Quality of the International Business School at the Vilnius University of the Republic of Lithuania, FIBAA expert;
- 3. **International Expert Gostin Alexsei**, Ph.D. in technical sciences, Associate Professor, Ryazan State Radio Engineering University, an expert of the Guild of Experts in Vocational Education (Ryazan city, Russian Federation);
- 4. **Expert Kornilova Alla**, Doctor of Architecture, IAA Professor, Member of the Union of Architects of the Republic of Kazakhstan, member of the Union of Urban Developers of the Republic of Kazakhstan, member of the Academic Methodological Association under the Ministry of Education and Science of the Republic of Kazakhstan for architectural and construction specialties, JSC "Kazakh Agrotechnical University named after S.Seifullin" (Astana city);
- 5. **Expert Bodikov Seifolla**, Karaganda State University named after E.A. Buketova, a member of the Union of Designers of the Republic of Kazakhstan, a member of the Eurasian Union of Designers (Karaganda city);
- 6. Expert Duskaev Kasim, Ph.D. in Technical Sciences, Professor, Kazakh National University named after Al-Farabi (Almaty city);
- 7. **Expert Khamraev Sheripidin**, Ph.D. in Technical Sciences, Associate professor, Professor of the Kazakh National Pedagogical University named after Abaya (Almaty city);
- 8. Expert Markovski Vadim, Ph.D. in Technical Sciences, Associate professor of the Pavlodar State University named after S. Toraigyrova (Pavlodar city);
- 9. **Expert Balabekova Aigul**, Ph.D. in Technical Sciences, Associate professor of the Department "State and local administration", Academy of Public Administration under the President of the Republic of Kazakhstan (Astana);
- 10. **Expert Abishev Kairatolla**, Ph.D. in Technical Sciences, corresponding member of the National Academy of Sciences of Machine Building and Transport of the Republic of Kazakhstan, JSC "Kazakh Agrotechnical University named after S.Seifullina" (Astana city);
- 11. **Expert Sauranbay Sandugash**, PhD, Licensed appraiser, University of Narhoz (Almaty city);
- 12. **Expert Ismailova Guzal**, PhD, Kazakh National University named after Al-Farabi (Almaty city);
- 13. **Expert Mayemerova Gulnara**, PhD, Kazakh National University named after Al-Farabi (Almaty city);
- 14. **Employer Shpadi Yuri**, Ph.D. in Technical Sciences, "Institute of Space Technology and Technology" subsidiary LLP, VNS laboratory of space systems for scientific purposes (Almaty city);
- 15. **Student Nadirova Bella**, student of the third year in Finance, Kazakh Automobile and Road Academy named after L.B.Goncharova (Almaty city);
- 16. **Observer from the Agency Kanapyanov Timur,** Head of the IAAR International Projects (Astana city).

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(I) INTRODUCTION OF THE KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY NAMED AFTER K.I.SATPAYEV

1934 incepted the first academic year of the Kazakh Mining and Metallurgical Institute (KazMMI), the area of the academic buildings of the Institute accounted for 620 square meters, dormitories - 340 square meters, there are 9 departments and 3 laboratories. The number of administrative and technical specialists was 27 people.

In the beginning of 1934/35 academic year, together with the third year students from Semey, 2 professors, 4 associate professors, 10 teachers, altogether 16 people transferred to KazMMI.

From 1934 to 1938, students' admission for the first year increased by 559 people, of whom 66 were Kazakhs. The faculty comprised 163 people, including 12 professors and 30 associate professors.

Since 1960 KazMMI has become one of the largest higher educational institution (hereinafter – HEI) in the USSR for the training of engineers, teachers and scientists.

Today Kazakh National Research Technical University named after K.I. Satpayev (hereinafter – KNRTU) has published the Quality Assurance Policy. The KNRTU policy on quality, the main provisions and the procedure for its adoption are described in the "Quality Guidance" and documented procedures of the QMS of the KNRTU - 502 "Analysis by management" procedure, documented procedures of the KNRTU 503 "Administration from the management" (http://www.Kazntu.kz/en/about-university/smk).

The Quality Policy sets out the goals, activities and commitments of the HEI and the KNRTU quality management guidelines that take into account the degree of customer satisfaction, the compliance of the quality management system with the requirements of ISO 9001-2008, the ENQA Standards and Guidelines, the effective application of the system and the dynamics of its improvement (constant rising of the quality management system effectiveness) for quality assurance. The main goal of the Policy is to ensure quality assurance of educational activities by meeting the consumer requirements.

Collegial discussion by the top management of the issues of development and approval of the Policy and objectives in the field of quality, planning of works to achieve the quality objectives was carried out by the Academic Council of the University.

Mission statement and Politicians in the field of quality are published on the University's website (http://kazntu.kz/ru/about-university/smk), stands of departments and institutes, in the library, in the offices of the heads of the University services, i.e. in accessible venues to ensure familiarity with the documents of all teaching staff, employees and students of the KNRTU, as well as employers and other stakeholders.

In the case of changes in external factors in the educational space, reforming or reorganizing the existing management system of the HEI, the restructuring of the mission, the quality objectives and development goals of the university, i.e. in general, the quality policy is adjusted to meet the new requirements. The center of responsibility, providing these changes, is the Academic Council of the HEI.

The interrelations between teaching, research studies and learning and between the business community and the HEI play a key role in the Quality Assurance Policy, and it is reinforced by the university's transition to research status.

To achieve this goal, the University pursues a permanent policy:

- Integration of the academic process and research activities, the development of students by means the research and the formation of students' professional competence and ethical standards through the use of their own scientific results in training of academic programs agreed with employers, strategic partners of the University ("Development Strategy of the University- 2020", http://kazntu.kz/ru/about-university/strategicheskie_dokuvtyni, http://www.kazntu.kz/ru/science);
- development of cooperation "university-industry" and partnership relations with scientific and educational organizations.

The quality of the university's work is a common matter. Quality improvement is a matter of honor for each and every faculty member, employee and student at the university. The University took responsibility for the effective functioning of the university management system based on the requirements of the ISO Quality Management Standards ISO 9001: 2008, the ENQA Standards and Guideliness, its own standards, as a guarantee of the quality of the university's activities. The main goal is to guarantee the quality of academic activity by meeting the consumer requirements.

The policy of KNRTU named after K.I. Satpayev today is focused on improving the corporate culture and preserving values. The HEI adopted and approved the main regulatory documents that determine the policy in the field of quality assurance culture: the University's Articles of Association, the Internal Regulations, the Code of Corporate Culture of the faculty and students of KNRTU named after K.I. Satpayev. Corporate culture is the decisive factor determining the effectiveness of the University.

The development of the quality assurance culture in the university may be validated by the success in achieving target quality assurance indicators, the results of external assessments. Among the main achievements:

- KNRTU named after K.I. Satpayev was the first in Kazakhstan to undertake and re-confirm the International Institutional Assessment in the European Association of Universities (EUA) based on the International Evaluation Program (IEP, International Evaluation Program, 2010, 2014);
- KNRTU named after K.I. Satpayev becomes the 1st in the rating of Kazakhstan universities based on academic indicators of specialists training among technical universities, and is the leader in technical sciences and technologies according to the rating results of the academic programs of universities held by the National Accreditation Center of the Republic of Kazakhstan (now the Center for the Bologna process and academic mobility) throughout the period from 2011 and 2015;
- in November 2015, the university undertook and re-confirmed the national institutional assessment in the accreditation agency of IQAA (Kazakhstan);
- KNRTU named after K.I. Satpayev in the international ranking of universities QS World University Rankings 2015 ranked 501+ among the Top 800 best universities in the world, improving the indicator in 2014 in 100 positions. In the ranking of QS University Rankings: Emerging Europe and Central Asia 2014/1, KNRTU entered the list of eight universities of Kazakhstan, which were included in the Top 100, taking 51-60 place;
- According to the estimation of the international rating agency Webometrics Ranking of World Universities KNRTU became the leader among Kazakhstan universities, taking the first place;
- KNRTU named after K.I. Satpayev in 2014 successfully passed the State Attestation for the right to provide educational activities and was certified for a period of 5 years (order of the Ministry of Education and Science of the Republic of Kazakhstan as of 06. 05. 2014 No. 821);
- − In 2014, the system of quality management at the University was subjected to recertification and confirmed the double QMS certificate for compliance with the international standard ISO 9001: 2008 under No. 14.0985.026 as of August 11, 2014 from the Association for Certification "Russian Register" and the International Network of Certification Agencies "IQNet";
- KNRTU named after K.I. Satpayev is the leader among Kazakhstan universities in the Eurorating-2013 (Academic ranking of world universities-European standard ARES);
- KNRTU named after K.I. Satpayev is defined by one of the 11 basic ones on training specialists for the State Programme of industrial and innovation development of the Republic of Kazakhstan-2.

The quality assurance policy applies to those activities that are performed by contractors and partners. The university relays certain functions to outsourcing that do not necessarily have to be performed with the help of their local personnel, but rather should be relayed to the specialized organization. Outsourcing processes performed with the help of external organizations include: provision of energy resources, servicing of individual equipment, banking services for cash and settlement services, medical services, personnel training, checks by control and supervision bodies, services for certification of QMS products, accreditation and Certification of testing laboratories, accreditation of academic programs.

The management of outsourcing processes and the requirements for outsourcing are fixed in the Quality Guidelines, the KNRTU documentation procedure "Informational and Telecommunication Service", the KNRTU subsidiary of "Public Procurement Management, etc.

KNRTU named after K.I. Satpayev systematically analyzes the state and perspective development of industrial sectors of the Republic of Kazakhstan, the annual Addresses of the President of the country N.A. Nazarbayev to the people of Kazakhstan with the aim of adjusting the content of the academic programs and the compliance of trained specialists with labor market requirements. This analysis is made by the majoring departments, academic institutions and relevant departments of the university.

The results of the analysis are used to develop proposals for strategic planning for the development of institutions, departments and the university as a whole.

(II) OUTLINE OF THE EEP VISIT

Information about employees and students who attended meetings with the IAAR's EEP

Category of attendees	Quantity
Rector	1
Vice-rectors	3
Institute directors	8
Heads of departments	13
Department Directors and heads of divisions	18
Teachers	96
Students, master degree students, doctors	79
Graduates	70
Employers	61
Total	349

During the visit, members of the EEP attended a practical lesson for students of the Cisco Regional Academy.

During the visit members of the EEP familiarized with the state of the material and technical facilities, visited museum of the KNRTU named after K.I. Satpayev, the mineralogical museum, the Scientific Library, the training ground of the Mining and Metallurgical Institute, the National Scientific Laboratory of Information and Space Technologies for the collective use, the laboratory of the engineering profile, the supercomputer laboratory, the Apple computer classroom, the Cisco Regional Academy classroom, the computer class "Cryptographic methods of information protection", Computer class "Methods of the computer information means of protection", the office of doctoral candidates "Alternative energy sources. Automation and Automatizaton", computer class" Modeling of electric power and electrotechnical complexes ", laboratory" Electric machines. Modern electric drive control systems", Schneider Electric wiring and engineering design laboratory, programming laboratory for systems with programmable logic controllers, energy efficiency and energy security laboratory, computer and lecture classes.

The events planned within the framework of the visit of the IAAR EEP facilitated the detailed familiarization of experts with the university's educational infrastructure, material and technical resources, faculty, representatives of employers' organizations, students and graduates. This allowed the IAAR EEP members to conduct an independent assessment of the compliance of the data set out in the self-assessment reports of the university's academic programs to the criteria of the specialized accreditation standards of the IAAR.

Within the framework of the planned program, recommendations on improving the University's activities developed by the EEP on the results of the examination were presented at a meeting with the management on May 27, 2016.

(III) GENERAL ASSESSMENT OF THE ACADEMIC PROGRAM

Training of bachelors on the specialty 5B100200 - "Systems of Information Security" has been carried out since 2008, on the specialty 6M060200 - "Information Science" has been carried out since 2011, on the specialty 6D071800 - "Electric-power industry" has been implemented since 2010.

To date, the Graduating Department of the academic program 5B100200 - "Systems of Information Security", is the department "Information Security". Academic program 5B100200 - "Systems of Information Security" is implemented under the License for the right to conduct educational activities, No. KZ56LAA00005304 as of 11/07/2015. The graduate is awarded the academic degree of Bachelor of Military Affairs and Security in the specialty 5B100200 - "Systems of Information Security".

Training of personnel on 6M060200 - Information Science is carried out by the Department of Information Science. Academic program 6M060200 - Information Science is implemented under the License for the right to conduct educational activities, series AB No. 0137395 as of 03.02.2010. Throughout 2015-2016 academic year Masters of the 1st year of study are taught in three languages: English, Kazakh and Russian. The graduate is awarded the academic degree of Master of Science in the specialty 6M060200 - "Information Science".

Training of personnel according to 6D071800 - "Electric-power industry" is carried out by the department "Electric-power industry and automation of technological complexes". Academic program 6D071800 - "Electric-power industry" is implemented under the License for the right to conduct educational activities, AB No. 0137395 as of 03.02.2010. The graduate is awarded the academic degree of PhD in the specialty 6D071800 - "Electric-power industry".

Academic programs are implemented in full accordance with the State Program for the Development of Education of the Republic of Kazakhstan for 2011-2020, the State Obligatory Education Standards of the Republic of Kazakhstan, the Dublin descriptors coordinated with the European qualifications framework, in accordance with the Addresses of the Head of State N.Nazarbayev to the people of Kazakhstan "Strategy" Kazakhstan - 2050 ".

Educational activity is carried out using credit technology in accordance with the "Rules for the organization of the educational process for the credit technology of education" No. 152, approved by the Ministry of Education and Science of the Republic of Kazakhstan on 20.04.2011.

Training of bachelor's, master's and doctoral students is conducted in full-time mode of study. In accordance with the requests of students, the requirements of employers and the labor market, the content of academic programs is adjusted annually using the catalogue of elective disciplines (CED) and through updating of the curriculum of academic disciplines.

Evaluation of educational achievements and the level of students' training is ensured through the application of a score-grading system, as well as through the educational portal of the university and the information and educational environment of the Polytech University.

Academic programs of the specialties 5B100200 - "Systems of Information Security", 6M060200 - "Information Science", 6D071800 - "Electric-power industry" are developed in accordance with state compulsory educational standards. The languages of instruction are Kazakh and Russian.

The field of study in the master's program 6M060200 - "Information Science" is scientific and pedagogical with a duration of 2 years.

The students' population on the academic program 5B100200 - "Systems of Information Security" is 93 people, studying on state language are 58 students.

The master's degree students' population in the academic program 6M060200 - Information Science is 17 people.

The population of doctoral students in the academic program 6D071800 - "Electric-power industry" is 6 people trained by the state order.

(IV) RECOMMENDATIONS TO THE ACADEMIC PROGRAMS

1) Standard «Management of academic program»

• Strengthen the role of management, faculty, employers and students in the development, public discussion and improvement of educational management mechanisms taking into account the specifics of the national higher education institution.

2) Standard «Development and approval of academic program»

- Strengthen further development of cooperation with domestic and foreign higher education institutions that implement similar academic programs, and consider implementation of joint academic programs.
- Strengthen the harmonization of the content of academic programs with Kazakhstani universities in order to ensure continuity of content at the bachelor's level master's program in accordance with the academic program 6M060200 Information Science.

3) Standard «Student-centered learning, teaching and student evaluation»

• Strengthen the implementation of innovative technologies in the academic process, including the development of distance learning courses, the creation of virtual laboratories and training simulators.

4) Standard «Students»

- Organize introductory courses for students to plan the results of training, organize the educational process for academic programs and implement the basic principles of the Bologna process.
 - Strengthen the work on development of external and internal academic mobility of students.

5) Standard «Teaching staff and effectiveness of teaching»

- To continue the work on attracting teachers-practitioners with experience in the specialty to the implementation of academic programs.
- Strengthen the work on developing the academic mobility of the teaching staff, upgrading the qualifications of the teaching staff, attracting the best foreign and local teachers and conducting joint research in the implementation of academic programs.
- To take measures to encourage young teachers to participate in academic mobility programs, Bolashak, conferences of all levels, competitions, scientific projects. Increase the amount of differential payment for the faculty.

6) Standard «Educational resources and systems of students support »

- Ensure uninterrupted free access to the e-educational environment of the HEI and the Internet at the whole university area, including dormitories, including through the introduction of Wi-Fi technology.
- Update computer equipment of computer classes of the academic program 6M060200 "Information Science", purchase licensed software for implementation of disciplines of the Catalogue of elective disciplines.
- Purchase specialized hardware and software for carrying out training sessions on information security under the academic program 5B100200 "Systems of Information Security".
- Organize the use of the computing cluster of the national scientific laboratory for the collective use of information and space technologies for the preparation of diploma and coursework by students of the academic program 6M060200 Information Science.

7) Standard «Information management and reporting»

• Carry out risk assessment in the analysis of information by the management.

8) Standard «Public information»

- Develop the information policy of the university, organize the process of monitoring the contents of the official university website in order to improve the relevance, accessibility and objectivity of information.
- Ensure the transparency of information, organize feedback from consumers, for which it is recommended to create a section "Questions and Answers to the management" on the university's website and ensure its moderation.

(V) PARAMETERS OF THE SPECIALIZED PROFILE

Nº	Nº	Evaluation Criteria		educ	on of th ational	
			Strong	Satisfactory	Needs improving	Unsatisfactory
Standar	rd "Ed	ucational Program Management"				
		The HEI must have a published quality assurance	+	·		
1	1	policy. The policy of quality assurance ought to reflect the	+			
2	2	relation between research, teaching and learning.	T			
		The HEI must demonstrate the development of a	+			
3	3	quality assurance culture.				
4	4	Quality assurance policy should also refer to any activity, conducted by the partners (outsourcing).		+		Κ,
5	5	The university demonstrates development of EP based on the analysis of its performance, real-positioning of HEI and its narrowness to meet the	+			L
4		needs of the state, employers, stakeholders and students.				
6	6	The HEI determines mechanisms of formation and regular review of the EP's development plan, and monitoring of their implementation, assessment of	+		7	
	1	the achievement of learning objectives, meeting the	_		7	
		needs of students, employers and society, decision- making, aimed at continuous improvement of the educational program.			F.	
7	7	The HEI must demonstrates the transparency of the processes of formation of the EP's development plan. The HEI provides the awareness of stakeholders on the con-tent of the mission and strategy and processes of their formation.	+			
8	8	The institution must involve representatives of stakeholder groups, including students, academic staff and employers in the formation of the EP's development plan.		+		
9	9	The university must demonstrate individuality and uniqueness of EP's development plan, its consistency with national development priorities and development strategy of the EO.		+		

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10	10	The HEI must ensure compliance of the EP's		+		
		development plan with available resources (including				
		financial, information, human resources, material and				
		technical base).				
		In the EO all major business processes governing the	+			
11	11	implementation of the EP should be documented.				
12	12	The HEI must demonstrate an accurate designation of		+		
		those responsible for business processes, a clear				
		allocation of staff duties, and delimitation of				
		responsibili-ties of collegial bodies that participated				
		in the EP implementation.				
13	13	The institution systematically analyzes the		+		
		information on the implementation of the educational				
		program and conducts self-examination with all areas				
		to assess the success of the development strategy				
		implementation of the educational program through		1		
		indicators such as the "productivity" and		1		
		"efficiency."		1		
14	14	The EP management must demonstrate the evidence	+		7	
		of transparency of the management system of the EP.				
15	15	The EP management must demonstrate successful	+			-
10		functioning of in-house quality assurance system,				
		including designing, management, monitoring and				
		improvement of EP, making decisions on the basis of				
		facts.				
The FI	2 Mane	agement is expected to include:				
	. Iviaii	agement is expected to include.				
16	16	activity management through processes;	+			
16 17	16 17	activity management through processes; mechanisms of planning, development and	+			
		mechanisms of planning, development and				7
				+		
17	17	mechanisms of planning, development and continuous improvement;		+		
17	17	mechanisms of planning, development and continuous improvement; risk assessment and identification the ways to reduce these risks;		+		
17	17 18	mechanisms of planning, development and continuous improvement; risk assessment and identification the ways to reduce these risks; monitoring, including creation of reporting processes,				
17	17 18	mechanisms of planning, development and continuous improvement; risk assessment and identification the ways to reduce these risks; monitoring, including creation of reporting processes, which allows to determine the dynamics in the			4	
17 18 19	17 18 19	mechanisms of planning, development and continuous improvement; risk assessment and identification the ways to reduce these risks; monitoring, including creation of reporting processes, which allows to determine the dynamics in the activities and the implementation of plans;		+		
17	17 18	mechanisms of planning, development and continuous improvement; risk assessment and identification the ways to reduce these risks; monitoring, including creation of reporting processes, which allows to determine the dynamics in the activities and the implementation of plans; analysis of the revealed discrepancies, the				
17 18 19	17 18 19	mechanisms of planning, development and continuous improvement; risk assessment and identification the ways to reduce these risks; monitoring, including creation of reporting processes, which allows to determine the dynamics in the activities and the implementation of plans; analysis of the revealed discrepancies, the implementation of the corrective and preventive		+		
17 18 19	17 18 19	mechanisms of planning, development and continuous improvement; risk assessment and identification the ways to reduce these risks; monitoring, including creation of reporting processes, which allows to determine the dynamics in the activities and the implementation of plans; analysis of the revealed discrepancies, the implementation of the corrective and preventive actions;		+		
17 18 19 20	17 18 19 20 21	mechanisms of planning, development and continuous improvement; risk assessment and identification the ways to reduce these risks; monitoring, including creation of reporting processes, which allows to determine the dynamics in the activities and the implementation of plans; analysis of the revealed discrepancies, the implementation of the corrective and preventive actions; analysis of the effectiveness of change;		+ + +		
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17 18 19 20 21 22 23 24	17 18 19 20 21 22 23 24	mechanisms of planning, development and continuous improvement; risk assessment and identification the ways to reduce these risks; monitoring, including creation of reporting processes, which allows to determine the dynamics in the activities and the implementation of plans; analysis of the revealed discrepancies, the implementation of the corrective and preventive actions; analysis of the effectiveness of change; assessment of productivity and efficiency of activity of divisions and their interaction; interaction with the employers. The institution must involve representatives of stakeholder groups, including students, AS and employers as part of collegial bodies of education program management, and ensure their representation in decision-making in terms of the educational program management.	-	+ + + +	+	
17 18 19 20 21 22 23	17 18 19 20 21 22 23	mechanisms of planning, development and continuous improvement; risk assessment and identification the ways to reduce these risks; monitoring, including creation of reporting processes, which allows to determine the dynamics in the activities and the implementation of plans; analysis of the revealed discrepancies, the implementation of the corrective and preventive actions; analysis of the effectiveness of change; assessment of productivity and efficiency of activity of divisions and their interaction; interaction with the employers. The institution must involve representatives of stakeholder groups, including students, AS and employers as part of collegial bodies of education program management, and ensure their representation in decision-making in terms of the educational program management. The EP management must ensure measurement of the		+ + + +	+	
17 18 19 20 21 22 23 24	17 18 19 20 21 22 23 24	mechanisms of planning, development and continuous improvement; risk assessment and identification the ways to reduce these risks; monitoring, including creation of reporting processes, which allows to determine the dynamics in the activities and the implementation of plans; analysis of the revealed discrepancies, the implementation of the corrective and preventive actions; analysis of the effectiveness of change; assessment of productivity and efficiency of activity of divisions and their interaction; interaction with the employers. The institution must involve representatives of stakeholder groups, including students, AS and employers as part of collegial bodies of education program management, and ensure their representation in decision-making in terms of the educational program management. The EP management must ensure measurement of the satisfaction degree of needs of AS, employees and	-	+ + + +	+	
17 18 19 20 21 22 23 24	17 18 19 20 21 22 23 24	mechanisms of planning, development and continuous improvement; risk assessment and identification the ways to reduce these risks; monitoring, including creation of reporting processes, which allows to determine the dynamics in the activities and the implementation of plans; analysis of the revealed discrepancies, the implementation of the corrective and preventive actions; analysis of the effectiveness of change; assessment of productivity and efficiency of activity of divisions and their interaction; interaction with the employers. The institution must involve representatives of stakeholder groups, including students, AS and employers as part of collegial bodies of education program management, and ensure their representation in decision-making in terms of the educational program management. The EP management must ensure measurement of the	-	+ + + +	+	

26	26		l .			
26	26	The EP management must demonstrate the evidence	+			
		of the openness and accessibility of the management				
		and administration to students, faculty and employers				
		(office hours regarding personal questions, e-mail				
		communication, etc.).				
27	27	The HEI must demonstrate that availability of the	+			
		communication channel through which any interested				
		person can make innovative proposals in order to				
		improve the activities of the management of the EP.				
		The university must demonstrate examples of the				
		analysis of these proposals and the implementation of				
		such proposals.				
		Subtotal	14	12	1	0
Standa	rd "D	evelopment and Approval of the Educational				
Progra		evelopment and Approval of the Educational				
28	1	The university should define and document the	+	-		
20	1	procedures for the quality of the educational program		7.		
		development and evaluation, set the frequency, forms				
		and methods of assessing the quality of educational			7	
	F				7	
29	2	programs. The university should establish a procedure for	_+			
29						
		periodic review and monitoring of educational				
20	2	programs. The institution must determine the requirements for				
30	3	The institution must determine the requirements for	+			
		the educational programs according to their				
		specificities, levels of education, as well as the				
21	4	technologies used, including remote ones.				
31	4	The university must demonstrate that developed	+			
		educational program graduate models, including				
22		knowledge, skills and professional competence.				
32	5	The institution must demonstrate the participation of			+	
	L.	the faculty, employers and students in the				
		development of educational programs, ensuring their				
1		quality, to provide evidence that employers are				
		typical representatives of employers.				
33	6	The institution must provide an external examination		+	7	
	74	of the educational program and its approval by the		3		
		collective bodies.				
34	7	EP management must clearly define the EP	+			
2.5		objectives.				
35	8	EP management should demonstrate the logic of	+			
		curricula and training programs compilation, in				
		particular the reasons for the inclusion of a list of				
		subjects in the curriculum, the reasons for assigning				
		the post or prerequisites.				
36	9	EP management should ensure that the names and		+		
		content of the disciplines are relevant to areas of				
		study in science / society, etc.				
37	10	The institution should determine the content, scope,		+		
		logic of constructing student's individual educational				
		trajectory.				
38	11	EP management must demonstrate the continuity of		+		
	j					

		the content of educational programs at different				
		levels, including the logic of the relationship of				
		academic disciplines, their consistency and				
		continuity.				
39	12	EP management must provide an annual revision of		+		
		the content of curricula and training programs, taking				
		into account changes in the market, employers',				
		students' and teachers' needs.				
40	13	EP management must demonstrate the impact of	+			
		disciplines on the formation of students' professional				
		competence.				
41	14	The complexity of the EP must be clearly defined in	+			
		the Kazakhstani credits and ECTS.				
42	15	The structure of the EP must provide a variety of	+			
		activities, the contents of which should contribute to			L.	
		the formation of professional competence of students.		1		
43	16	The institution must demonstrate the effectiveness of		+		
		the organization and conduct of professional				
		internship.			7	L.
44	17	The institution must ensure that the content of		+		
		academic disciplines to the planned learning				
		outcomes. The list of subjects and content must be				
	_	available to the students.				
45	18	An important factor is the harmonization of the			+	
		content of educational programs with similar				
		educational programs of leading international and				
		Kazakhstani educational organizations.				
46	19	An important factor is the presence of joint			+	
		educational programs with foreign educational				
		institutions.				
47	20	An important factor is the cooperation and exchange		+		
		of experience with other educational organizations				
	L.	implementing similar educational programs.				
48	21	EP management must ensure that research elements		+		
		are included in the content of EP.	_		_	
		Subtotal	9	9	3	0
Standa	rd ''St	udent-Centered Learning, Teaching and Progress				
Evalua		3, 5				
49	1	EP management must provide equal opportunities to	+			
		all students, regardless of the language of instruction				
		on the formation of individual educational program				
		aimed at the formation of professional competence.				
50	2	EP management should ensure the harmonious	+			
		development of students in view of intellectual				
		development and individual characteristics.				
51	3	EP management must ensure the implementation and			+	
		effectiveness of active and innovative learning				
		methods.				
52	4	EP management must ensure its own developments		+		
		in the field of academic disciplines teaching				
		methodology.				
53	5	EP management must demonstrate the existence of	+			
	1		l	<u> </u>	j	I

		feedback system for the use of various methods of				
F 4		learning and knowledge control.				
54	6	EP management must monitor the student's		+		
		independent work control and the adequate				
		evaluation of its results in the process of				
	<u> </u>	implementation of the educational program.				
55	7	EP management must monitor the satisfaction of		+		
		students by passing the professional internship.				
56	8	EP management must demonstrate decision making		+		
		process on the basis of the results of students'				
		feedback and the assessment of their satisfaction.				
57	9	EP management must prove the existence of a	+			
		monitoring system for the improvement of the				
		student on the educational trajectory and				
		achievements of the learners.	- 1			
58	10	EP management must ensure the availability and		+		
		efficiency of the mechanism of objective assessment		7		
		of the learning outcomes of the collective appeal		1		
		mechanism, transparent criteria and assessment tools.			1	L
59	11	EP management must ensure that the level of		+		
		students' knowledge assessment matches the planned				
		learning outcomes and objectives of the program on				
		the criteria and evaluation methods.				
60	12	EP management must provide the conditions for		+		
		inclusive education.				
		Subtotal	4	7	0	0
Standa	rd ''\$1	udents''				
Standa	iiu St	udents				
61	1	Management of EP should demonstrate policy of EP	+			
		formation of the students' contingent starting from				
		admission to graduation and ensure the transparency				5
		admission to graduation and ensure the transparency of the procedures. The procedures governing the		U		_5
-		admission to graduation and ensure the transparency		U		, ,
1		admission to graduation and ensure the transparency of the procedures. The procedures governing the cycle of the students study period must be approved and published.		U		7
62	2	admission to graduation and ensure the transparency of the procedures. The procedures governing the cycle of the students study period must be approved and published. Admission and enrollment in the educational		J	+	7
62	2	admission to graduation and ensure the transparency of the procedures. The procedures governing the cycle of the students study period must be approved and published. Admission and enrollment in the educational program must be accompanied by an introductory			+	7
62	2	admission to graduation and ensure the transparency of the procedures. The procedures governing the cycle of the students study period must be approved and published. Admission and enrollment in the educational program must be accompanied by an introductory course that contains information about the			+	7
62	2	admission to graduation and ensure the transparency of the procedures. The procedures governing the cycle of the students study period must be approved and published. Admission and enrollment in the educational program must be accompanied by an introductory course that contains information about the organization of education and specific education			+	7
		admission to graduation and ensure the transparency of the procedures. The procedures governing the cycle of the students study period must be approved and published. Admission and enrollment in the educational program must be accompanied by an introductory course that contains information about the organization of education and specific education program.			+	
62	2	admission to graduation and ensure the transparency of the procedures. The procedures governing the cycle of the students study period must be approved and published. Admission and enrollment in the educational program must be accompanied by an introductory course that contains information about the organization of education and specific education program. Management of EP should foresee the special		+	+	7
63	3	admission to graduation and ensure the transparency of the procedures. The procedures governing the cycle of the students study period must be approved and published. Admission and enrollment in the educational program must be accompanied by an introductory course that contains information about the organization of education and specific education program. Management of EP should foresee the special adaptation and support program for foreign students.			+	
		admission to graduation and ensure the transparency of the procedures. The procedures governing the cycle of the students study period must be approved and published. Admission and enrollment in the educational program must be accompanied by an introductory course that contains information about the organization of education and specific education program. Management of EP should foresee the special adaptation and support program for foreign students. Management of the EP must demonstrate the	+	+	+	
63	3	admission to graduation and ensure the transparency of the procedures. The procedures governing the cycle of the students study period must be approved and published. Admission and enrollment in the educational program must be accompanied by an introductory course that contains information about the organization of education and specific education program. Management of EP should foresee the special adaptation and support program for foreign students. Management of the EP must demonstrate the conformity to the actions of the Lisbon Recognition	+	+	+	7
63	3	admission to graduation and ensure the transparency of the procedures. The procedures governing the cycle of the students study period must be approved and published. Admission and enrollment in the educational program must be accompanied by an introductory course that contains information about the organization of education and specific education program. Management of EP should foresee the special adaptation and support program for foreign students. Management of the EP must demonstrate the conformity to the actions of the Lisbon Recognition Convention.	+	+	+	
63	3	admission to graduation and ensure the transparency of the procedures. The procedures governing the cycle of the students study period must be approved and published. Admission and enrollment in the educational program must be accompanied by an introductory course that contains information about the organization of education and specific education program. Management of EP should foresee the special adaptation and support program for foreign students. Management of the EP must demonstrate the conformity to the actions of the Lisbon Recognition Convention. The institution should cooperate with other	+	+	+	
63	3	admission to graduation and ensure the transparency of the procedures. The procedures governing the cycle of the students study period must be approved and published. Admission and enrollment in the educational program must be accompanied by an introductory course that contains information about the organization of education and specific education program. Management of EP should foresee the special adaptation and support program for foreign students. Management of the EP must demonstrate the conformity to the actions of the Lisbon Recognition Convention. The institution should cooperate with other organizations and national education centers	+		+	
63	3	admission to graduation and ensure the transparency of the procedures. The procedures governing the cycle of the students study period must be approved and published. Admission and enrollment in the educational program must be accompanied by an introductory course that contains information about the organization of education and specific education program. Management of EP should foresee the special adaptation and support program for foreign students. Management of the EP must demonstrate the conformity to the actions of the Lisbon Recognition Convention. The institution should cooperate with other organizations and national education centers "European Network of National Information Centers	+		+	
63	3	admission to graduation and ensure the transparency of the procedures. The procedures governing the cycle of the students study period must be approved and published. Admission and enrollment in the educational program must be accompanied by an introductory course that contains information about the organization of education and specific education program. Management of EP should foresee the special adaptation and support program for foreign students. Management of the EP must demonstrate the conformity to the actions of the Lisbon Recognition Convention. The institution should cooperate with other organizations and national education centers "European Network of National Information Centers on Academic Recognition and Mobility / National	+		+	
63	3	admission to graduation and ensure the transparency of the procedures. The procedures governing the cycle of the students study period must be approved and published. Admission and enrollment in the educational program must be accompanied by an introductory course that contains information about the organization of education and specific education program. Management of EP should foresee the special adaptation and support program for foreign students. Management of the EP must demonstrate the conformity to the actions of the Lisbon Recognition Convention. The institution should cooperate with other organizations and national education centers "European Network of National Information Centers on Academic Recognition Information Centres" in order	+		+	
63	3	admission to graduation and ensure the transparency of the procedures. The procedures governing the cycle of the students study period must be approved and published. Admission and enrollment in the educational program must be accompanied by an introductory course that contains information about the organization of education and specific education program. Management of EP should foresee the special adaptation and support program for foreign students. Management of the EP must demonstrate the conformity to the actions of the Lisbon Recognition Convention. The institution should cooperate with other organizations and national education centers "European Network of National Information Centers on Academic Recognition and Mobility / National Academic Recognition Information Centres" in order to provide a comparable recognition of qualifications.	+		+	
63	3	admission to graduation and ensure the transparency of the procedures. The procedures governing the cycle of the students study period must be approved and published. Admission and enrollment in the educational program must be accompanied by an introductory course that contains information about the organization of education and specific education program. Management of EP should foresee the special adaptation and support program for foreign students. Management of the EP must demonstrate the conformity to the actions of the Lisbon Recognition Convention. The institution should cooperate with other organizations and national education centers "European Network of National Information Centers on Academic Recognition Information Centres" in order to provide a comparable recognition of qualifications. Management of the educational program must	+		+	
63 64 65	3 4	admission to graduation and ensure the transparency of the procedures. The procedures governing the cycle of the students study period must be approved and published. Admission and enrollment in the educational program must be accompanied by an introductory course that contains information about the organization of education and specific education program. Management of EP should foresee the special adaptation and support program for foreign students. Management of the EP must demonstrate the conformity to the actions of the Lisbon Recognition Convention. The institution should cooperate with other organizations and national education centers "European Network of National Information Centers on Academic Recognition and Mobility / National Academic Recognition Information Centres" in order to provide a comparable recognition of qualifications.	+			
63 64 65	3 4	admission to graduation and ensure the transparency of the procedures. The procedures governing the cycle of the students study period must be approved and published. Admission and enrollment in the educational program must be accompanied by an introductory course that contains information about the organization of education and specific education program. Management of EP should foresee the special adaptation and support program for foreign students. Management of the EP must demonstrate the conformity to the actions of the Lisbon Recognition Convention. The institution should cooperate with other organizations and national education centers "European Network of National Information Centers on Academic Recognition Information Centres" in order to provide a comparable recognition of qualifications. Management of the educational program must	+			

						1
		academic mobility of students, as well as results of				
		additional, formal and informal learning.				
67	7	EP management must demonstrate the effectiveness	+			
		of the monitoring of academic achievements of				
		students.				
68	8	EP management must demonstrate awareness of the		+		
		main roles (professional, social) of the students based				
		on learning outcomes.				
69	9	EP management must contribute to professional	+			
		certification of students.				
70	10	EP management must ensure the involvement of		+		
		students in research work and consulting.				
71	11	The university and EP management must provide an			+	
		opportunity for internal and external mobility of				
		students and assist them in obtaining external grants				
		for training.		14		
72	12	The university must provide graduates with the	+			
	1	documents confirming the qualification, including	'			
		learning outcomes achieved, as well as the context,			1	
		content and status of education and a certificate of its				
		completion.				
73	13	EP management must provide graduates with		+		
73	13	employment measures, the systematic monitoring of				
		employment of graduates, their career development				
		and improvement of the efficiency of alumni				
		associations.				47
74	14					
/4	14	EP management must enable students to exchange		+	-	
		and expression of their opinions – for example,				
75	1.5	through the Internet forum and student organizations.				
75	15	EP management must demonstrate the operation of	+			
		the feedback system support for students, including				
		the prompt submission of information on the results				
7.6	1.0	of assessment of students.			_	
76	16	EP management must demonstrate the existence and		+		
7		effectiveness of the mechanism of support for gifted				
-		students.	-			
		Subtotal	6	7	3	0
Standa	ard "A	cademic Staff"				
77	1					
77	1	The University must have an objective and	+			
		transparent staff policy, including employment,				
		professional development, ensuring the professional				
		competence of all staff.				
78	2	The administration of educational program must	+			
		demonstrate the compliance of HR capacity of				
		academic staff with the eligibility requirements,				
		levels and the uniqueness of educational program on				
		the basis of the recruiting system.				
79	3	The administration of EP (educational program) must		+		
		demonstrate the awareness of liability for its				
		employees and their favorable working environment.				
80	4	The administration of educational program must		+		
		demonstrate the changing role of teacher in the				

		context of transition to student-centered education.				
81	5	The University must provide the public with the	1			
01	J	access to information about academic staff, including	+			
		academic staff directories and posting questionnaires				
0.2		on the university website.				
82	6	The administration of educational program must	+			
		provide the monitoring of academic staff activity, a				
		systematic assessment of the competence of teachers,				
		a comprehensive assessment of the quality of				
		teaching, including the assessment of satisfaction of				
		teachers and students.				
83	7	The administration of EP must provide the	+			
		completeness and adequacy of individual planning				
		work of academic staff for all activities, performance	-			
		monitoring and the effectiveness of individual plans,				
		and to demonstrate the evidence of teacher		1		
		performance of all projected workload.				
84	8	The university administration must show the support		+		
		for research activities of academic staff, and provide			7	
		a link between research and teaching.				
85	9	The university administration must show the		+		
		existence of professional and personal development				
		of academic and administrative staff, as well as the				
		compliance of professional and personal				
		development of faculty with strategy development.				
86	10	The administration of EP must involve experienced			+	
00	10	experts, as well as outstanding scientists, public and			1	
		political figures.				
87	11	The Administration of EP must ensure the concerted			+	
07	11	action on the professional development of young				
		teachers.				
88	12	The administration of EP must ensure the system of		+		
00	12			+		
		professional and personal development of faculty and				7
90	12	staff.				
89	13	The Administration of EP must ensure monitoring of		+		
00	1 /	academic staff satisfaction.				
90	14	The Administration of EP must involve the academic			+	
	1	staff into the practical activity in the field of				
0.1		specialization on a permanent basis.				
91	15	The Administration of EP must demonstrate IT-		+		
		competence of academic staff, the conditions of				
		motivation for the use of innovative methods and				
		forms of education, information and communication				
		technologies in the educational process.				
92	16	An important factor is the development of academic			+	
		mobility of teachers, to attract the best foreign and				
		local lecturers and conduct joint researches.				
93	17	An important factor is the participation of academic		+		
		staff in social life (academic staff's role in the				
		system of education, in the development of science,				
		region, creating a cultural environment, participation				
		in exhibitions, creative competitions, charity				
		programs, etc.).				
<u> </u>		r · O ·, · · · · / ·	l	l	l	L

94	18	The administration of EP demonstrates the		+		
)4	10	compliance of the priorities of consulting, research		_		
		work, implemented academic staff with the topical				
		issues of the economy, the priorities of government				
		development, the state national policy in the sphere				
		of education, science and innovation development.				
	<u> </u>	Subtotal	5	9	4	0
C4 1 -						
Standa System		ducational Resources and Student Support				
95	1	The university must demonstrate the sufficiency of		+		
	1	material, financial and human resources.		-		
96	2	The university must demonstrate the effectiveness of		+		
		the students support services and the availability of				
		support procedures.				
97	3	The university must identify the support needs of		+	L.	
	3	different groups and categories of students.		1		
98	4	The university must ensure the existence and	+	7		
		effective functioning of information and feedback	'	1		
		system focused on students, staff and others.				L.
99	5	The university must demonstrate the effectiveness of	+			
		the regular analysis of the adequacy of resources and	·			
		support systems for students, including the				
	- 4	competence of the involved staff.				
		The university must create learning environment that				
		reflects the specifics of the educational programs,				47
		which includes:				-
100	6	technological support of students and the teaching		+		
		staff in accordance with EPs (e.g. on-line education,				
	7	database, data analysis program);				
101	7	personalized interactive resources (with the access in	+			
		extracurricular time), including teaching materials				
	L.	and assignments, ensuring the possibility of self-				
		assessment of students' knowledge through remote				
		access to the university portal;				
102	8	interactive academic consultations to help students		+		
	١.	plan and develop the educational programs, including			7	
100		personified interactive resources;	_4			
103	9	professional guidance, assistance in choosing and		+		
104	10	achieving career paths;				
104	10	the sufficient number of classrooms, equipped with		+		
		modern technological means of teaching, educational				
		and research laboratories, educational and training grounds, technoparks with modern equipment,				
		complied with EPs, sanitary-epidemiological norms				
		and requirements;				
105	11	the sufficient number of computer classes, reading		+		
103	11	halls, multimedia, language and scientific-methodical		'		
		classrooms, the number of seats in them;				
106	12	the book fund, including the fund of educational,	-	+		
100	12	methodical and scientific literature on general		'		
		disciplines, basic courses and majors in print,				
		electronic versions, periodicals in the context of				
L	l	distribution versions, periodicals in the context of	l	l	l	l

		learning languages;				
107	13	structured information in the context of disciplines.	+			
107	13	For example, presentation materials, videos, lecture	'			
		notes, compulsory and additional literature, practical				
		tasks, etc.;				
108	14	the availability of scientific databases and electronic		+		
100	17	scientific journals;		'		
109	15	the availability of electronic versions of published		+		
109	13	journals;				
110	16	plagiarism expertise of research work results,		+		
110	10	graduation papers, dissertations;				
111	17	free WI-FI and access to educational online			+	
111	1 /	resources, throughout the territory of the institution.				
112	18	The administration of EP must ensure the copyright				
112	18		***	+		
		compliance when publishing educational and	-	1	h.	
113	10	methodical materials in open access.				
113	19	Leaning equipment and programs must comply with		+		
		modern requirements. Subtotal	4	14	1	0
a. •			-	17	1	V
Standa	rd «In	formation Management»				
114	1	The university should provide proper functioning of	+			
	4	information collection system, information analysis				
		and management on the basis of up-to-date				
		information technologies and software.				
115	2	The university decides on the amount and structure		+		
		of periodically updated information and the				
		personnel responsible for reliability and timelines of				
		the information in accordance with the university				
		development strategy.				
116	3	The university provides up-to-date, reliable and full		+		
		information and its storage.				
117	4	Educational program leaders should show the		+		7
		evidence of making decisions based on the analysis				
		of the facts.				
118	5	The system of information collection, its analysis and		+/		
	7	management should be used for maintaining the				
	3	quality of the educational program.				
		The information collected and analyzed by				
		educational organizations should take into				
		consideration the following:				
119	6	dynamics of student contingent in the context of its		+		
		forms and types;	<u> </u>		<u> </u>	
120	7	students' progress, achievements and dismissals;		+		
121	8	students' satisfaction with the educational program	1			
121	O	and quality of education at university;	+			
122	9					
122	9	availability of the resources and support system for	+			
122	10	students;		1		
123		employment and career advancement of the alumni.		+		
124	11	Leaders of the educational program should show the			+	
		ability of the information analysis for revealing and				
1		predicting risks.	1			

125 12 The university should provide effective functioning of the informing and feedback systems for students, staff and stakeholders. 126 13 Students, employees and teachers must confirm their consent to personal data processing. 127 14 Involvement of students, staff and the faculty in information collection, its analysis and making decisions on its basis is a very important factor. Subtotal 4 8 2 0							
Students, employees and teachers must confirm their consent to personal data processing. 127 14 Involvement of students, staff and the faculty in information collection, its analysis and making decisions on its basis is a very important factor. Subtotal 4 8 2 0	125	12	The university should provide effective functioning			+	
126 13 Students, employees and teachers must confirm their consent to personal data processing. 127 14 Involvement of students, staff and the faculty in information collection, its analysis and making decisions on its basis is a very important factor. Subtotal 4 8 2 0			of the informing and feedback systems for students,				
consent to personal data processing. 127			staff and stakeholders.				
consent to personal data processing.	126	13	Students, employees and teachers must confirm their		+		
127			, 1				
Information collection, its analysis and making decisions on its basis is a very important factor. Subtotal 4 8 2 0	127	14		+			
Standard	127	1.					
Standard «Informing of the Public» 128			•				
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get students introduced to professional environment							
and current issues in the field of their specialization			Land current issues in the field of their specialization	ĺ	1	1	

		as well as for the acquisition of skills through				
		theoretical training education program.:				
		- excursions to enterprises in the field of				
		specialization (plants, workshops, research institutes,				
		laboratories, etc.)				
		- conducting lessons and seminars at the				
		enterprise of specialization;				
		- conducting seminars to solve practical tasks				
		relevant to enterprises in the field of specialization,				
		etc.				
137	2	The teaching staff must consist of at least one full-		+		
137		time teacher who has a long experience of working at		'		
		enterprises in the field of specialization.;				
138	3	The contents of all the disciplines within the EP must	+			
136	3	be based and include a clear correlation with the				
		contents of fundamental natural sciences such as		4.		
				74		
120	4	Mathematics, Chemistry, Physics;				
139	4	The EP management should provide measures to		+		L
	7	strengthen practical training in the field of			1	k.
	_	specialization;				
140	5	The management of the EP should ensure the training	+			
		of students in the field of application of modern				
		information technologies.				
		Subtotal	3	2	0	0
		SUBTOTAL IN GENERAL	51	73	16	4