«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТІҢ ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR ACCREDITATION AND RATING

REPORT

On the results of the work of an external expert commission for assessment of compliance with the requirements of the standards of specialized accreditation of study programs

6B07312 – Land resources, 7M07311 – Land resources management, 6B07311 - Land cadastre and real estate appraisal, 6B08511 - Mechanization of production and processing of agricultural products, 6B06120 Software engineering, 7M07514– Metrology and metrological support in the industry of

M.Kh. DULATY TARAZ STATE UNIVERSITY

Site Visit Dates: from 28 to 30 November 2019

INDEPENDENT AGENCY FOR ACCREDITATION AND RATING
External expert commission

Addressed to
Accreditation
IAAR Council

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M.Kh. DULATY TARAZ STATE UNIVERSITY

During the period from November 28 to November 30, 2019

Taraz, 2019

CONTENT

(I) LIST OF DESIGNATIONS AND ABBREVIATIONS....4
(II) INTRODUCTION....5
(III) REPRESENTATION OF THE EDUCATION ORGANIZATION....7
(IV) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE....13
(V) DESCRIPTION OF THE EEC VISIT....13
(VI) COMPLIANCE WITH SPECIALIZED ACCREDITATION STANDARDS....16
6.1 Standard "Study program management "....16
6.2 Standard "Information management and reporting"....18
6.3 Standard "Study program development and approval"....20
6.4 Standard "Continuous monitoring and periodic evaluation of study programs"....22
6.5 Standard "Student-centered learning, teaching and performance assessment"....25
6.6 Standard "Students"....27
6.7. Standard "Academic staff"....29
6.8. Standard "Educational resources and student support systems"....32
6.9. Standard "Public Awareness"....35
6.10. Standard "Standards in the context of individual specialties"....37
(VII) REVIEW OF STRENGTHS / BEST PRACTICE BY EACH STANDARD....40
(VIII) REVIEW OF QUALITY IMPROVEMENT RECOMMENDATIONS BY EACH STANDARD....41
(IX) REVIEW OF RECOMMENDATIONS FOR THE DEVELOPMENT OF EDUCATION ..44
(X) Appendix 1. Evaluation table "SPECIALIZED PROFILE PARAMETERS" for SP 6B07312 Land Resources, 6B07311 Land Cadastre and Real Estate Appraisal, 7M07311 Land Resources Management, 6B06120 Software Engineering....45
(XI) Appendix 2. Evaluation table "SPECIALIZED PROFILE PARAMETERS" for SP 6B08511 Mechanization of production and processing of agricultural products, 7M07514 Metrology and metrological support in industry (2 years)....53

(I) LIST OF DESIGNATIONS AND ABBREVIATIONS

AC	Academic calendar
IAAR	Independent Agency for Accreditation and Rating
EEC	External expert commission
TarSU	Taraz State University
RSE	Republican State Enterprise
ST	Study program
NAS RK	National Academy of Sciences of the Republic of Kazakhstan
PBMPS	Production of building materials, products and structures
FT	Food Technology
LSSP	Life safety and environmental protection
LS in T	Life safety in the technosphere
PCandCP	Production of concrete and ceramic products
MBM	Modern building materials
IQAA	Independent agency for quality assurance in education
TS	Academic staff
MCP	Construction and production of materials
TFPPIB	Technology of food products, processing industries and biotechnology
BD	Basic disciplines
HEI	Higher educational institution
SCC	State Certification Commission
SCES	State Compulsory Educational Standard
SE	State examination
EHEA	European Higher Education Area
ILC	Information and library complex
FSC	Final state certification
SA	Summative assesment
IT	Information Technology
CLT	Credit Learning Technology
CEC	Catalog of elective courses
MSP	Modular study programme
RW	Research work
SRW	Student research work
GS	General subjects
MC	Major courses
RIDL	Republican Interuniversity Digital Library
ME	Midterm Examination
WC	Working curriculum
QMS	Quality management system
SC	Standard curriculum
CID	Curriculum and Instruction Department
CTM	Course teaching materials
EMB	Educational and Methodological Board
ECTS	European Credit Transfer System
EELA	External evaluation of learning achievements

(II) INTRODUCTION

In accordance with the order No. 110-19-OD of 10/22/2019, the Independent Agency for Accreditation and Rating from November 28 to November 3, 2019. The external expert commission assessed the conformity of study programs 6B07312 – Land resources, 7M07311 – Land resource management, 6B07311 - Land cadastre and real estate appraisal, 6B08511 - Mechanization of production and processing of agricultural products, 6B06120 - Software engineering, 7M07514– Metrology and metrological support in industry of M.H.Dulaty Taraz State University to the standards of specialized accreditation of the IAAR (No. 10-17-OD of February 24, 2017, fifth edition).

The report of the external expert commission (EEC) contains an assessment of the submitted study programs to the IAAR criteria, recommendations of the EEC on further improvement of study programs and profile parameters of study programs.

Composition of the EEC:

1. Chairman of the commission – Turtkaraeva Gulnara Bayanovna, Candidate of pedagogical sciences, Associate professor, Sh. Ualikhanov Kokshetau State University (Kokshetau);

2. Foreign expert –Ignacio Menéndez Pidalde Navascués, Professor, Doctor in Civil Engineering, Polytechnic University of Madrid (Madrid, Spain);

3. Foreign expert –Livia Nistor-Lopatenco, Ph.Dr. in Engineering, Dean of the Faculty Constructions, Geodesy and Cadastre, Technical University of Moldova (Chisinau, Republic of Moldova);

4. Expert – Ismaylova Guzal Amitovna, PhD, Assistant Prof., Al-Farabi Kazakh National University (Almaty);

5. Expert – Kalymova Kulziya Akrashevna, Candidate of Engineering Sciences, L. Gumilev Eurasian National University (Nur-Sultan);

6. Expert – Shaikenova Kimbat Khamitovna, Candidate of agricultural sciences, Associate professor, S. Seifullin Kazakh Agrotechnical University (Nur-Sultan);

7. Expert –Aldungarova Aliya Kairatovna, Doctor PhD, Associate professor, Pavlodar State University named after S. Toraigyrov (Pavlodar);

8. Expert – Idrisheva Zhanat Kabylbekovna, Candidate of Engineering Sciences, East Kazakhstan State Technical University named after D. Serikbayev (Ust-Kamenogorsk);

9. Expert – Mursalimova Elmira Askarovna, Candidate of Biological Sciences, Associate Professor, Kazakh National Agrarian University (Almaty);

10. Expert – Hamraev Sheripidin Itakhunovich, Candidate of Engineering Sciences, Professor, Abay Kazakh National Pedagogical University (Almaty);

11. Expert – Bulashev Berdibek Kabkenovich, Candidate of Agricultural Sciences, Associate Professor, S.Seifullin Kazakh Agrotechnical University (Nur-Sultan);

12. Expert – Abenova Elena Anatolievna, Candidate of Pedagogocal Sciences, Associate Professor, Narxoz University (Almaty);

13. Expert – Sarsenova Lazzat Kadirgalievna, Candidate of Biological Sciences , Al-Farabi Kazakh National University (Almaty);

14. Expert – Kopishev Eldar Ertaevich, Candidate of Chemical Sciences, Acting associate professor, L.N. Gumilyov Eurasian National University (Nur-Sultan);

15. Employer – Akchalova Aigul Sagimbekovna, head of IE “Akchalova”, Restaurant “Marakesh”, “Piala”, “Monterey” (Taraz);

16. Employer – Ukasova Aida Halilovna, Head of IE “Rakhimov” (Taraz);

17. Student – Bitenova Ayana Basytgyzy, 2nd year student of the ST “5B080110-Plant Protection and Quarantine”, Taraz University of the Humanities and Innovation and Humanities (Taraz);

18. Student – Adilbek Kudaibergen Nazymbekuly, 4th year student of SP 5B070400-Computer Engineering and Software, Taraz University of the Humanities and Innovation and Humanities (Taraz)

19. Student – Kudaibergenova Zhamila Serikbaykyzy, 4th year student of the ST 5B011200-Chemistry, Taraz State Pedagogical University (Taraz);

20. Student – Umiralkhanov Azizkhan Najimkhanuly, 4th year student of the ST 5B010900 Mathematics, Taraz State Pedagogical University (Taraz);

21. Observer for the Agency –Kanapyanov Timur Erbolatovich, PhD, Head of International Projects for Public Relations of the IAAR (Nur-Sultan).

(III) REPRESENTATION OF THE EDUCATION ORGANIZATION

M.Kh. Dulaty Taraz State University (TarSU) was formed by the Decree of the Government of the Republic of Kazakhstan No. 256 dated 03.24.1998. through the reorganization and merger of the Dzhambul irrigation and drainage and construction institute, the Dzhambul technological institute of light and food industry of the Zhambyl university. As RSE MES RK, M.Kh.Dulaty TarSU was formed in accordance with the Decree of the Government of the Republic of Kazakhstan "On the reorganization of institutions of the Ministry of Education and Science of the Republic of Kazakhstan" No. 1879 dated 08.12.1999. In 2012, by the Decree of the Government of the Republic of Kazakhstan No. 544 of April 28, 2012. Republican state treasury enterprise "Muhammed Haydar Dulaty Taraz State University" was transformed into a Republican state enterprise on the basis of economic management.

Personnel training at TarSU is carried out in accordance with the State license for educational activities in the field of higher and postgraduate professional education No. 12020167 of 14/11/2012, and the annexes to the license of 22/12/2017, order of MES RK No. 237 of 23/05/2017.

In 2019 192 study programs are included in the Register, of which 106 bachelor's degree programs, 81 master's programs and 5 doctoral programs.

Over the past 5 years, the university has trained more than 13,000 specialists for the region and the country. The quality of training and the demand for graduates are determined by a rather high level of their employment (in the 2017-2018 academic year, 71.66%, according to employment indicators). In general, for the period from 2015-2018. On average, 77% of graduates were employed.

In November 2019 the contingent of full-time students is 6425 students (of which based on the state educational grant –1489), part-time study –5239, distance learning - 1103, evening - 388.356 undergraduates and 44 doctoral students.

Currently, the total number of full-time teachers at the university is 630, of which 39 are doctors of sciences, professors, 242 candidates of sciences, associate professors, 36 doctors of PhD, 262 masters. The university employs 25 people who are part of the NAS, industry academies of sciences and professional associations of the Republic of Kazakhstan.

The university consists of 9 faculties: Faculty of Economics and Business; Faculty of Law; Faculty of Water Management, Ecology and Construction; Faculty of Oil, Gas and Mechanics; Faculty of Technology; Faculty of Information Technology, Automation and Telecommunications; Faculty of Humanities and Social Sciences; Faculty of Postgraduate Education; Faculty of distance learning. There are 43 departments in the structure of these faculties, including the military department.

M.Kh.Dulaty Taraz State University has a powerful modern material and technical base, which includes 56 objects with a total area of -1,61340.75 sq.m.

Teaching and research processes are organized and held in 14 teaching and laboratory buildings with a total area of 73924.4 square meters. There are 88 laboratories at the faculties equipped with the necessary equipment and measuring instruments. For educational purposes, the unique research laboratory “Nanoengineering Research Methods” is used, which is one of 15 engineering laboratories opened in the leading universities of Kazakhstan in the academic year 2007-2008 on the initiative of the President of the country N. Nazarbayev and is equipped unique modern foreign equipment.

M.Kh.Dulaty TarSU has a sufficient sports base, which consists of a combination of various indoor and outdoor sports facilities. The total area of sports halls, playgrounds and audiences is 4564.15 m2. The university has 7 indoor gyms equipped with appropriate sports equipment. The university also has a soccer field with grass lawn and treadmills; field hockey field with regupole coating; 2 outdoor football pitches; 2 basketball and 2

volleyball courts; 4 tennis courts and a fitness camp. The area of open sports complexes is 22983 sq.m.

Currently, the university has three dormitories with a total area of 18,370.8 square meters for 804 beds. To organize student meals at the university, the youth leisure center "Zhastarulemi" operates with a total area of 3069.9 sq. m. for 400 seats, as well as a cafe in the main building for 60 seats, 2 buffets - canteens in the technological building for 80 seats 2 buffet-canteens in the Hydrocomplex for 60 seats. Medical care for employees and students is provided by the health center and city clinic number 3.

In 2014 TarSU recognized as “Leader” (certificate of the National Business Rating of the Republic of Kazakhstan), rector recognized as “Best Leader of the Year”. In 2017 According to the results of the world ranking of the Webometrics Ranking of World Universities research group (www.webometrics.com), TarSU ranks 11104 among 20 thousand. universities of the world, and among 112 domestic universities –21 places. Since 2018, the university has been participating in the ranking of universities of the most “environmentally friendly” universities in the world Greenmetric.

The University is a member of 5 international, national and regional professional associations: University of the Shanghai Cooperation Organization (SCO, from 12.10.2012), Eurasian Association of Universities (from 15.04.2015), European Association of Higher Education Institutions (EURASHE) (from 01.07 .2015), Association of Universities of Central Asia (dated March 15, 2017), Association of Asian Universities (dated June 25, 2017).

From April 19 to May 3, 2019 TarSU has passed specialized accreditation for 17 educational undergraduate programs and 18 educational master's programs. By the decision of the Accreditation Council of the IQAA from 08.06.2019. M.Kh.Dulaty TarSU issued certificates of specialized accreditation SA-AN№0166 / 1-8, valid for June 10, 2019. until June 7, 2024

November 10-15, 2014 M.Kh.Dulaty TarSU passed specialized accreditation for 22 educational undergraduate programs and 21 educational master's programs. On December 6, 2014, the Accreditation Council of the IQAA adopted a positive decision on the accreditation of 43 educational programs of TarSU for the period from December 6, 2014 – December 5, 2019. The issued accreditation certificates SAN№0035 / 1-6, SAN№0038 / 1-4 indicate the status of the quality of education of the university.

In the period from April 13-16, 2015, 11 study programs of the university passed specialized accreditation. By the decision of the Accreditation Council of the IQAA, certificates were issued in three languages (Russian, Kazakh, English) about passing specialized accreditation of study programs. Accreditation certificates: SAN№0057 / 1, SAN№0057 / 2 dated 04/25/2015, validity period: from 04.25.2015. until 04.24.2020

On December 11, 2015, 4 study programs of the university passed specialized accreditation. By the decision of the Accreditation Council of the IQAA, certificates were issued in three languages (Russian, Kazakh, English) about passing specialized accreditation of study programs. Accreditation certificates: SAN№0073 / 1, SAN№0073 / 2, the validity of the certificate: 06.12.2014g. until 12/18/2019 In 2019 The university passed a recertification audit for compliance with the requirements of the standard ISO9001: 2015, received international certificates of the Association for Certification "Russian Register" and IQNet.

In November 2018, M.Kh.Dulaty TarSU successfully passed the international institutional re-accreditation at the Independent Agency for Accreditation and Rating (IAAR). By the decision of the Accreditation Council of December 20, 2018. M.Kh.Dulaty TarSU was issued a certificate No. AA0123, confirming the status of an accredited university. Validity of the certificate from 20.12.2018 until 19/12/2023

The university’s activities are carried out in accordance with the State license for educational activities in the field of higher and postgraduate professional education:

According to the old classifier:

- State license No. 12020167 of 14/12/2012 Appendix to the license No. 01 of 27/03/2017. on the list of licensed types of work and services that are part of the licensed type of activity, higher education at SP 5B090300-Land Management;

- State license No. 12020167 dated 14/12/2012, Appendix to the license No. 01 dated 27/03/2017. on the list of licensed types of work and services that are part of the licensed type of activity, higher education at SP5B090700-Cadastre;

-State license No. 12020167 dated 14/12/2012, Appendix to the license No. 01 dated 27/03/2017. on the list of licensed types of work and services that are part of the licensed type of activity, higher education at SP 5B080600 - "Agricultural machinery and technology";

- State license No. 12020167 of 14/12/2012, Appendix to the license No. 01 of 27/03/2017. on the list of licensed types of work and services that are part of the licensed type of activity, higher education at SP 5B073200– "Standardization, Certification and Metrology (by industry)";

-State license No. 12020167 dated 14/12/2012, Appendix to the license No. 01 dated 27/03/2017. on the list of licensed types of work and services that are part of the licensed type of activity, higher education on SP 5B070400 – Computer engineering and software;

- Appendix No. 001 of December 14, 2012 to State License No. 12020167 of December 14, 2012– postgraduate education: 6M090300-Land Management.

According to the new classifier:

- Appendix No. 34 dated 03/07/2019. to the license for educational activities No. 12020167 dated 14/11/2012, sub-types of licensed activities - higher education - 6B07311-Land cadastre and real estate appraisal;

- Appendix No. 34 dated 03/07/2019. to the license for educational activities No. 12020167 dated 14/11/2012, subtypes of licensed activities - higher education - 6B07312 –Land resources;

-Appendix No. 34 dated 03/07/2019. to license for educational activities No. 12020167 dated 14/11/2012, subspecies of licensed activities — higher education – 6B08511 – Mechanization of production and processing of agricultural products;

- Appendix No. 34 dated 03/07/2019. to the license for engaging in educational activities No. 12020167 of 14/11/2012, subtypes of licensed activities — higher education –6B06120 – Software engineering;

- Appendix No. 32 dated 03/07/2019. to the license for engaging in educational activities No. 12020167 of 14/11/2012, subtypes of licensed activities – postgraduate education, 7M07311-Land Resourses Management.

- Appendix No. 32 dated 03/07/2019. license for educational activities No. 12020167 dated 14/11/2012, subspecies of licensed activity – postgraduate education, 7M07514 – Metrology and metrological support in industry

Over the past 5 years, the university has trained more than 13,000 specialists. The graduate employment rate - in the 2017-2018 academic year is 71.66% (according to employment indicators). In general, for the period from 2015-2018 on average, 77% of graduates were employed.

Currently, the total number of full-time teachers at the university is 630, of which 41 are doctors of sciences, professors, 239 candidates of sciences, associate professors, 35 doctors of PhD, 262 masters. The university employs 25 people who are part of the NAS, branch academies of science of professional associations of the Republic of Kazakhstan.

The total area of buildings owned by the University is 161,340.75sq.m. The university structure consists of 9 faculties (faculty of economics and business; faculty of law; faculty of water management, ecology and construction; faculty of oil, gas and mechanics; faculty of technology; faculty of information technology, automation and

telecommunications; faculty of humanities and social sciences; faculty of postgraduate education The faculty of correspondence education.In the structure of these faculties there are 43 departments, including the military department.

The educational process uses 118 interactive kits, 1824 modern computers with Internet access. The library resources of the university are 1326567 copies. Textbooks and teaching materials ate 61.4% of copies, scientific literature are 12.7% of copies, fiction is 2.23% of copies; access to electronic information resources is provided.

The contingent of full-time and distance learning accredited SP students as of **November 01, 2019** is:

- 5B090300 - Land management - (2nd -4th years-33 people from them on the basis of the state educational grant –15 people), 1 master, distance learning –27 students.
- 6B07312 –Land resources– (1st year -12, of which 10 are on the basis of the state educational grant), 12 people are on the basis of higher education, 15 people are on the basis of secondary education.
- 6B07311-Land cadastre and real estate appraisal (1st year -26 people, of which on the basis of the state educational grant – 21 people).
- 6B08511 –Mechanization of production and processing of agricultural products (1st year –5 people, of which 2 are based on the state educational grant).
- 6B06120– Software Engineering - (1st year-22 people, on the basis of the state educational grant - 8 people)
- 5B070400 - Computer engineering and software- (2nd – 4th years-68 people, of which on the basis of the state educational grant-13 people, correspondence department - 38 people).

Information about the department "Land Management and Cadastre"

The department trains specialists in the following study programs for undergraduate and graduate studies: 6B07311 – Land Cadastre and Real Estate Appraisal, 6B07312 - Land Resources, 7M07311 - Land Resources Management. The department conducts extensive research in the field of food industry and processing of agricultural raw materials, with the aim of creating new import-substituting resources on saving, waste-free technologies and highly efficient machines, units and production lines for the development of small and medium-sized businesses in the food and processing industries.

Currently, the faculty consists of 15 full-time teachers, including one professor, 5 candidates of science, 9 masters. The degree of academic staff is 46%. Bachelors are taught in the state and Russian languages. The term of study is 4 years. Duration and preparation of masters: scientific and pedagogical magistracy – 2 years, specialized magistracy - term of study 1 year

Information about the department "Machinery and equipment"

The total number of full-time teachers conducting studies on SP 6B08211- “Mechanization of the production and processing of agricultural products” is 17, of which 9 teachers (52%) have academic degrees and titles. All teachers have basic education and conduct classes in two languages (Russian and Kazakh).

Over the past 3 years, 14 teachers have improved their qualifications as interns at leading enterprises and organizations of the Zhambyl region, at computer courses and seminars on innovative teaching technology.

Teachers of the department Professor Myrzashev S.M. and Ph.D. Associate professors Ibyldaev M.Kh., Shilibek K.K. and Bekmuratov M.M. are holders of the title "Best University Teacher".

Students are actively involved in completing research projects. Student Scientific Circle (SSC) "Mechanic" operates as part of the department of "Machinery and equipment" and covers students of study programs "Technological machinery and equipment", "Agricultural machinery and technology" and "Mechanization of production and processing

of agricultural products."

Information about the department "Information Systems"

The department was organized in 1973. For different years, the department had a different name. Since 2013, the department has been called "Information Systems", is headed by Ph.D., associate professor Borankulova G.S.

Currently, the department of Information Systems is equipped with modern computer technology, prepares undergraduate specialists in the specialty of Computer Engineering and Software, a bachelor's and master's degree in the specialty of Information Systems, and has a highly qualified academic staff and engineering support staff.

. The department has a laboratory of network technologies with multiprocessor network modular and route and congestion and switches that provide the work of the intranet. There is also a laboratory with a set of training stands in the disciplines: “Circuitry”, “Programming devices”, “Architecture of computing systems”, “System programming”, etc.

Information about the department of “Standardization and Metrology”

The department was organized in 1998. The department is headed by Dr. PhD Kauymbaev R.T. The personnel potential of the department currently consists of one professor, 3 candidates of science 3 doctors of PhD, 7 masters of engineering and technology.

Candidate of Engineer Scienses, professor Baitureev A.M. He is the winner of the Republican contest "The Best Candidate of Sciences-2019", is included in the collection "The Best Candidate of Sciences-2019", was awarded a diploma of the I degree, awarded the medal "The Best Candidate of Sciences-2019".

The department, in addition to the accredited study program 7M07514-Metrology and metrological support in industry (master's degree), provides training for the following educational programs for undergraduate and graduate education: 6B07511-Standardization and quality management in industry (bachelor); 6B07512-Metrology and metrological support in industry (bachelor) and 7M07511-Standardization and quality management in industry (master's degree).

The contingent of students with each SP in the context of forms and languages of instruction:

Currently, the contingent of students is:

Academic year	Form of training	Total number of students	Grant students		Students on a fee basis		Number of expelled students
7M07514- “Metrology and metrological support in industry”							
2014-2015	Master's programme	8	5	3	-	-	-
2015-2016	Master's programme	7	7		-		1
2016-2017	Master's programme	4	3		1		-
2017-2018	Master's programme	4	3		1		-
2018-2019	Master's programme a	4	4		-		1
7M07514- “Metrology and metrological support in industry”							

Academic year	Form of training	Total number of students	Grant students		Students on a fee basis		Number of expelled students
6M090300- "Land resource management"							
2014-2015	Master's programme	8	3	4	1	-	-
2015-2016	Master's programme	5	3		2		1
2016-2017	Master's programme	5	4		1		-
2017-2018	Master's programme	6	5		1		1
2018-2019	Master's programme	4	4		-		1

Academic year	Form of training	Total number of students	Grant students		Students on a fee basis		Number of expelled students
			Rus	Kaz	Rus	Kaz	
5B090700-Cadastre							
2014-2015	Full-time / part-time / distance		0/0/0	0/0/0	1/2/0	9/38/0	0/0/0
2015-2016	Full-time / part-time / distance		0/0/0	0/0/0	2/2/0	28/15/0	0/0/0
2016-2017	Full-time / part-time / distance		0/0/0	1/0/0	3/1/0	35/16/2	0/0/0
2017-2018	Full-time / part-time / distance		0/0/0	2/0/0	6/1/0	37/12/0	0/0/0
2018-2019	Full-time / part-time / distance		0/0/0	5/0/0	6/1/0	37/15/0	6/2/0
6B07311- Land cadastre and real estate appraisal							

*

Academic year	Form of training	Total number of students	Grant students		Students on a fee basis		Number of expelled students
			Rus	Kaz	Rus	Kaz	
5B090300- Land management							
2014-2015	Full-time / part-time / distance		0/0/0	3/0/0	10/4/0	38/23/0	0/1/0
2015-2016	Full-time / part-time / distance		0/0/0	3/0/0	3/4/0	40/26/0	1/0/0
2016-2017	Full-time / part-time / distance		0/0/0	2/0/0	4/7/0	35/40/0	2/0/0
2017-2018	Full-time / part-time / distance		0/0/0	1/0/0	4/5/0	37/55/0	0/0/0
2018-2019	Full-time / part-time / distance		0/0/0	29/0/0	7/6/0	91/51/0	12/6/0
6B07312- Land resources							

Academic year	Form of training	Total number of students	Grant students		Students on a fee basis		Number of expelled students
			Rus	Kaz	Rus	Kaz	
5B070400- Computer Engineering and Software							
2014-2015	Full-time / part-time / distance		6/0/0	25/0/0	16/4/0	63/21/0	14/0/0
2015-2016	Full-time / part-time / distance		1/0/0	30/0/0	5/7/0	51/20/0	5/0/0
2016-2017	Full-time / part-time / distance		0/0/0	22/0/0	10/9/0	47/29/0	1/3/0
2017-2018	Full-time / part-time / distance		5/0/0	12/0/0	8/10/0	55/27/0	0/0/0
2018-2019	Full-time / part-time / distance		2/0/0	11/0/0	14/8/0	41/30/0	13/2/0
6B06120- Software engineering							

(IV) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE

Study programs 6B07312 - Land resources, 7M07311 – Land resource management, 6B07311 - Land cadastre and real estate appraisal, 6B08511 - Mechanization of production and processing of agricultural products, 6B06120 - Software engineering, 7M07514 - Metrology and metrological support in industry are accredited to the IAAR for the first time.

(V) DESCRIPTION OF THE EEC VISIT

The work of the EEC was carried out on the basis of the approved Program of the visit of the expert commission on specialized accreditation of educational programs at TarSU from November 28 to 30, 2019.

To obtain objective information about the quality of educational programs and the entire infrastructure of the university, to clarify the content of self-assessment reports, meetings were held with the rector, vice-rectors of the university in areas of activity, heads of structural divisions, deans of faculties, heads of departments, teachers, students, graduates, employers. A total of 126 representatives took part in the meetings (table 1).

Table 1-Information about the target groups that took part in meetings with the EEC IAAR:

Category of participants	Quantity
Rector	1
Vice-rectors	4
Heads of structural divisions	30
Deans of faculties	3
Department Heads	4
Teachers	42
Students	5
Graduates	24
Employers	13
Total	**126**

During the tour, members of the EEC familiarized themselves with the state of the material and technical base of accredited SPs. We visited the dSPartment "Information Systems", "Land

Management and Cadastre", "Machines and Equipment", "Standardization and Metrology" specialized laboratories of the dSPartments, classrooms.

At the meeting of the EEC of the IAAR with the target groups of TarSU, the mechanisms for implementing the policy of the university were refined and the specifics presented in the self-assessment report of the university were specified.

Audience number, building	Discipline, type of activity group, number of students	Teacher, degree, position	Teaching method
2.2.209	"Theoretical Foundations of Computer Systems", 1st year, SP6V06120– "Software Engineering", topic "Boolean systems"	Tungatarova A.T.	Traditional, using information resources
6.1.000	Agricultural machines, theme of lecture lesson: "Construction of potato harvesters", 3rd year, group B-17, "Agricultural machinery and technology"	Zhusip Talgat Sembekovich, Candidate of Engineering Sciences, Associate Professor	Traditional, using information resources
2.5-413	"Normative-legal basis of the metrological logic of the subject", the subject: "Perspectives and prospects for the development of metrological knowledge", 6M075000-Metrology, 2nd year	Demeuova G.B., PhD, associate professor	Traditional, using information resources
6.2.210	"Land management, planning and organization of land cadastral works", 3rd year, group. B216ЖО3-1,5B090300-Landing;	Doctor of Engineering Sciences, Professor E.D. Darkenbayev	Classical
6.2202	"Cartography", group, B17ZU303K, practical lesson	Senior teacher G.A. Duburbaev	Classical
6.2221	"Earth monitoring", Kad 217 group, practical lesson	Doctor of Engineering Sciences, Professor M.K. Asbergen	Classical
6.2108	"Automated land management system", 4th year, group B 216 Kad-3,5B090300-Land management	Senior teacher Tusynbayev K.A.	Classical

Students undergo professional practice at the department's databases and protect the results of the practice in the form of a conference with the participation of managers from the enterprise and the university. In addition, the company provides all the necessary information of an analytical nature, data on the history and activities of enterprises that students learn to use in the process of completing term papers, diploma projects, practice reports. During the internship, students acquire practical skills and competencies in the field of study program.

In accordance with the accreditation procedure, 127 teachers, 198 students, including junior and senior students, were surveyed.

In order to confirm the information presented in the Self-Assessment Report by external experts, the university's working documentation was requested and analyzed. Along with this, experts studied the Internet positioning of the university through the official website of the university www.tarsu.kz

Within the framework of the planned program, recommendations for improving the accredited educational programs of TarSU developed by the EEC based on the results of the examination were presented at a meeting with the management on November 30, 2019.

During their work, members of the EEC visited the following practice bases for accredited SPs:

SP	Enterprise	Contract No.
SP 6B06120– "Software Engineering	Branch of Sberbank of Russia in Taraz	Mutual cooperation agreement 10/25/2017.
6B07312– "Land resources",	MSI "Department of land relations of the akimat of Taraz"	Mutual cooperation agreement dated 12/05/2015
6B07311- "Land Cadastre and Real Estate Appraisal", 7M07311- "Land Resources Management"	Department of Land Cadastre and Technical Inspection of Real Estate - a branch of the NJC "State \ Corporation" Government for Citizens ".	Mutual cooperation agreement of January 23, 2017.
6B08511-Mechanization of production and processing of agricultural products	LLP "Kazakh Research Institute of Water Management"	Mutual cooperation agreement 10/05/2017.
7M07514– "Metrology and metrological support in industry"	LLP "Kazphosphate"	Mutual cooperation agreement of SSPtember 11, 2017, No. 3898/17-OTO

In accordance with the accreditation procedure, 127 teachers, 198 students were questioned.

In order to confirm the information presented in the Self-Assessment Report by external experts, the university's working documentation was requested and analyzed. Along with this, experts studied the university's online positioning through the university's official website http://www.tarsu.kz.

Within the framework of the planned program, recommendations for improving the accredited educational programs of TarSU developed by the EEC based on the results of the examination were presented at a meeting with the management on November 30, 2019.

(VI) COMPLIANCE WITH SPECIALIZED ACCREDITATION STANDARDS

6.1 Standard "Study program management "

✓ *The university must have a published quality assurance policy.*
✓ *A quality assurance policy should reflect the link between research, teaching and learning.*
✓ *The university should demonstrate the development of a culture of quality assurance, including in the context of the SP.*
✓ *A commitment to quality assurance should apply to any activity carried out by contractors and partners (outsourcing), including the implementation of joint / double degree education and academic mobility.*
✓ *The SP management ensures transparency in the development of the SP development plan based on an analysis of its functioning, the real positioning of the university and its focus on meeting the needs of the state, employers, stakeholders and students.*
✓ *SP management demonstrates the functioning of the mechanisms for forming and regularly reviewing the SP development plan and monitoring its implementation, assessing the achievement of learning objectives, meeting the needs of students, employers and society, making decisions aimed at continual improvement of SP.*
✓ *SP management should involve representatives of stakeholder groups, including employers, students and faculty members, in the formation of the SP development plan.*
✓ *SP management must demonstrate the individuality and uniqueness of the SP development plan, its consistency with national development priorities and the development strategy of the educational organization.*
✓ *The university should demonstrate a clear definition of those responsible for business processes within the framework of the SP, an unambiguous distribution of the duties of the staff, and delimitation of the functions of collegial bodies.*
✓ *SP management must provide evidence of the transparency of the educational program management system.*
✓ *SP management must demonstrate the successful functioning of the internal quality assurance system of the SP, including its design, management and monitoring, their improvement, and decision-making based on facts.*
✓ *SP management must manage risk.*
✓ *The SP management should ensure the participation of representatives of interested parties (employers, academic staff, students) in the collegial bodies of the educational program management, as well as their representativeness in making decisions on educational program management.*
✓ *The university should demonstrate innovation management in the framework of the SP, including the analysis and implementation of innovative proposals.*
✓ *SP management should demonstrate evidence of openness and accessibility for students, faculty, employers and other interested parties.*
✓ *SP management must be trained in education management programs.*
✓ *SP management should strive to ensure that the progress achieved with the latest external quality assurance procedure is taken into account in preparation for the next procedure.*

Evidence part

The university has a published quality assurance policy (approved by the Academic Council on 10/09/2019). Quality Assurance Policy of M.Kh.Dulaty TarSu (http://www.tarsu.kz/ru/otdel-monitoringa/politika-v-oblasti-kachestva.html) is determined by the mission and vision of the university, the strategic development plan of M.Kh.Dulaty TarSU for 2016-2019 (approved. 17/06/2016) and the Development Program of M.Kh.Dulaty Taraz State University for 2019-2022. (the goals and objectives of TarSU are aimed at training competitive, innovative-minded and patriotically educated specialists who meet domestic international criteria, as well as in creating an elite scientific, intellectual, informational and cultural environment in the region, country and the world.

The university's policy in the field of quality reflects the relationship between research, teaching and learning and is focused on ensuring the innovative level of the educational process, taking leading positions in the training of specialists for the main sectors of the economy of the social sphere of the region and the country, improving the quality of scientific research, its effectiveness and recognition, ensuring technology transfer and the proper level of commercialization of research, the formation of an active creative environment in the team for a full and harmonious development of the personality of a

scientist, teacher and future specialist.

The culture of ensuring the quality of the study program is ensured through the implementation of the strategic directions of the development plan of the study program, namely: ensuring the organization of the content of the educational process, introducing innovations and scientific achievements in production and other areas of public life, developing academic relations with partners for implementing joint innovative programs, ensuring sustainable financial and economic development, the education of a multicultural harmoniously developed personality of the student, the creation of conditions for the formation of a professional full competence and competitiveness of future specialists.

All types of university activities are carried out independently without using outsourcing services, transferring them to partners and contractors. The direct management of the university is carried out by the rector in accordance with the legislation of the Republic of Kazakhstan.

Management and development of educational activities of the university are implemented through the activities of faculties and departments. The department is the main educational and scientific unit of the university. The main goal of the department is to prepare students for one or more educational programs.

The collegial and management bodies of the faculties are the Councils of the faculties and the Methodological bureaus of the faculties.

The internal quality assurance system of the study program at the department level is provided in accordance with the established schedule, according to which control over all types of activities is carried out with discussion at weekly operational meetings. At the end of the 1st and 2nd semesters, an analysis of the activities of the academic staff for the semester is conducted with discussion at the meetings of the departments and decision-making. If necessary, corrective actions are taken.

Monitoring the status of issues under consideration is carried out by competent commissions, created and the order of the university, faculties. The implementation of decisions made is monitored by the commission and discussed at meetings of the Academic Council of the University and the Councils of faculties. If discrepancies are identified, corrective actions involve changes to the training documentation.

The annual adjustment of documentation, its updating, unification are carried out with the aim of creating optimal study groups and lecture flows at faculties. The need to adjust existing disciplines in the specialties at the suggestion of employers, the abolition of lost relevance or the introduction of new elective disciplines are discussed at meetings of departments and meetings of the faculty's methodological council (examples of changes made to the MSP are given in the standard "Development and approval of the educational program").

Analytical part

The EEC notes that: a certain work has been done on accredited cluster SPs to strengthen the documentation of all the main business processes governing the implementation of the SP; analysis of information on the implementation of the SP is carried out by considering these issues at meetings of the department, the Academic Council of faculties and the university; MSP and CEC are developed.

At the same time, the uniqueness and advantage of the SP is not sufficiently confirmed by the logical educational programs of other universities, this opinion was confirmed by interviewing the leaders of the SP during the analysis of the submitted documentation. The management of the SP slightly demonstrated the individuality and uniqueness of the development plan of the SP. A specific program for introducing innovations in SPs has not been presented, especially taking into account the experience of orienting SPs implemented at the university to specific sectors of the economy;

accordingly, the monitoring process for implementing innovations in SPs has not been systematized.

An analysis of the documents studied, as well as the results of an interview with students, academic staff, graduates and employers led to the conclusion that the content of academic disciplines in the framework of study programs does not always take into account changes in the labor market, the requirements of employerš and the social request of society.

In this regard, there is a need to review the content of academic disciplines. Also, to strengthen the practical orientation of the proposed courses, to develop elements of dual education in senior courses.

According to the results of the survey of academic staff:

-15% of faculty members assess "relatively poorly" the possibility of combining teaching with scientific research;

-11% of faculty members assess "relatively poorly" the possibility of combining teaching with applied activity.

According to the results of the survey, the level of accessibility and responsiveness of the university leadership is "fully satisfied" - 70.2%, "partially satisfied" —25.8% of students.

Strengths for SP 6B07312 - Land Resources, 7M07311 - Land Resources Management, 6B07311 - Land Cadastre and Real Estate Appraisal, 6B08511 - Mechanization of Agricultural Production and Processing, 6B06120 - Software Engineering, 7M07514 - Metrology and Metrological Support in Industry:

- are absent

EEC recommendations for SP6V07312 - Land resources, 7M07311 - Land resources management, 6B07311 - Land cadastre and real estate valuation, 6B08511 - Mechanization of agricultural production and processing, 6B06120 - Software engineering, 7M07514 - Metrology and metrological support in industry:

- by the beginning of the academic year 2020–2021, the SP management should develop an updated model of the graduate and the SP development plan with specific measurable indicators and appoint those responsible for the implementation of the plan.

-ensure the passage of continuing education courses for SP management in the field of education management.

EEC findings:

According to the standard "Management of the educational program", 17 criteria are disclosed, of which, in all SP 16, they have a satisfactory position and 1 suggest improvement.

6.2 Standard "Information management and reporting"

✓ *The university should ensure the functioning of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software.*

✓ *SP management must demonstrate the systematic use of processed, adequate information to improve the internal quality assurance system.*

✓ *Within the framework of SP, there should be a system of regular reporting, reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the departments and departments, and scientific research.*

✓ *The university should establish the frequency, forms and methods of evaluating the management of SP, the activities of collegial bodies and structural units, senior management, and the implementation of scientific projects.*

✓ *The university should demonstrate the definition of the order and ensuring the protection of information, including the definition of responsible persons for the accuracy and timeliness of the analysis of information and the provision of data.*

✓ *An important factor is the involvement of trained workers and academic staff in the processes of collecting and analyzing information, as well as making decisions based on them.*

✓ *SP management should demonstrate the existence of a communication mechanism with students and other interested parties, including the availability of conflict resolution mechanisms.*

✓ *The university should provide a measure of the degree of satisfaction of the needs of faculty, staff and students in the framework of the SP and demonstrate evidence of elimination of the discovered deficiencies.*

✓ *The university should evaluate the effectiveness and efficiency of activities, including in the context of SP.*

✓ *Information collected and analyzed by the university in the framework of the SP should take into account:*

- *key performance indicators;*
- *the dynamics of the contingent of students in the context of forms and types;*
- *academic performance, student achievement, and expulsion;*
- *students' satisfaction with the implementation of the study program and the quality of education at the university;*
- *the availability of educational resources and support systems for students;*
- *employment and career growth of graduates.*

✓ *Students, employees and academic staff must document their consent to the processing of personal data.*

✓ *SP management should facilitate the provision of all necessary information in relevant fields of science.*

Evidence part

The university has implemented information management processes, including information collection and analysis processes. The university defines the responsible persons who are responsible for the information and technical support of accredited SPs.

Information is disseminated and feedback is obtained through meetings of collegial bodies and working groups created to solve pressing problems.

The following information technologies were introduced in the university's management activities: information site www.tarsu.kz, educational portal and others.

To conduct online lectures for distance learning students, a center for recording video lectures by teachers in all readable disciplines of the undergraduate accredited SPs, which are located in the distance learning system, was created.

The Career Center constantly works with employers, employment centers, as well as other enterprises, organizes annual job fairs, and monitors the employment and career growth of graduates.

Information is analyzed in the following categories: student body, student achievement, student satisfaction with the content of the study program, access to educational resources, and employment for graduates.

To monitor the implementation of the MSP plan and the implementation of corrective actions, reports of the heads of structural divisions and questionnaires are used. Assessment is carried out in all areas of educational, teaching, informational, scientific, educational activities and material and technical support of the educational process. Evaluation of the effectiveness of the implementation of the SP is considered at meetings of the department, faculty, administration, the Academic Council and is made out in the form of protocols.

Analytical part

On the analysis of compliance with the criteria of the standard "Information Management and Reporting" for accredited SPs, the commission notes the following: the university has an information and reporting management system. Data is stored in electronic and paper format in accordance with the nomenclature.

Databases available at the university allow you to generate a variety of analytical reports.

Regular questionnaires are conducted for students, employees, faculty, employers, as a result of which appropriate measures are taken to eliminate shortcomings and improve SP.

Feedback has been established with students, allowing us to identify their satisfaction with the quality of the implemented study programs. In the course of the conversation with the students, it was noted that they had the opportunity to turn to the leadership with certain problems.

Interviews with teachers and students showed that suggestions and recommendations from interested parties resonate with management decisions.

The SP management failed to provide a full analysis of joint programs with foreign educational organizations; EEC members note insufficient interaction with foreign universities to create joint programs. Not all students, academic staff are involved in the process of information analysis and decision-making based on them, which was clearly seen at meetings with these groups.

The system of regular reporting does not reflect all levels of the structure for assessing the effectiveness of the department itself and its scientific research.

Strengths for SP 6B07312 - Land resources, 7M07311 - Land resources management, 6B07311 - Land cadastre and real estate appraisal, 6B08511 - Mechanization of production and processing of agricultural products, 6B06120 - Software engineering, 7M07514 - Metrology and metrological support in industry:

- are absent

EEC recommendations for SP 6B07312 - Land resources, 7M07311 - Land resources management, 6B07311 - Land cadastre and real estate appraisal, 6B08511 - Mechanization of production and processing of agricultural products, 6B06120 - Software engineering, 7M07514 - Metrology and metrological support in industry:

- in order to improve the SP, regularly analyze the effectiveness of changes.

EEC findings:

According to the standard "Information Management and Reporting" 17 criteria are disclosed, of which all SP 17 have a satisfactory position.

6.3 Standard "Study program development and approval"

✓ *The university should determine and document the procedures for the development of SP and their approval at the institutional level.*

✓ *SP management should ensure that developed SPs are consistent with established goals, including intended learning outcomes.*

✓ *SP management should ensure that there are developed models of the graduate of the SP that describe the learning outcomes and personal qualities.*

✓ *SP management must demonstrate the conduct of external expert reviews.*

✓ *The qualifications obtained upon completion of the SP must be clearly defined, explained and consistent with a certain level of NSK.*

✓ *SP management should determine the impact of disciplines and professional practices on the formation of learning outcomes.*

✓ *An important factor is the ability to prepare students for professional certification.*

✓ *SP management should provide evidence of the participation of students, faculty and other stakeholders in the development of SP, ensuring their quality.*

✓ *The complexity of the SP should be clearly defined in Kazakhstan loans and ECTS.*

✓ *SP management should ensure the content of academic disciplines and learning outcomes for the level of training (bachelor's, master's, doctoral).*

The structure of the SP should provide for various types of activities corresponding to the learning outcomes

Evidence part

The development and approval of educational programs at the university is carried out in accordance with the provisions of regulatory legal acts in the field of higher and postgraduate education.

Accredited SPs are provided with educational and methodical documentation in accordance with the requirements of: state compulsory education standards; standard and working curricula; typical and working curricula of disciplines.

Assessment of the quality of educational programs is carried out on the basis of the analysis of curricula, a catalog of elective disciplines, modular educational programs, educational and methodical complexes of educational programs, educational and methodical complexes of disciplines, timetables, individual plans of students, internal regulatory documents governing the implementation of study programs, questionnaires for students.

The planning of the content of the educational programs of the university is based on a modular and competency-based approach based on the results of the annual analysis of educational programs, taking into account the views of students, academic staff and employers, recommendations of corporate partners.

Bachelor's educational programs form the competencies of six groups: the presence of general education, social and ethical competencies, economic competencies, organizational and managerial competencies, professional competencies, language skills and adaptability.

The master's degree programs of accredited SPs form the expected learning outcomes on the basis of the National Qualifications Framework, as well as second-level Dublin descriptors, which are expressed through three groups of competencies: general education, broad-mindedness, emotional intelligence; expert and analytical competencies; research competencies / design competencies.

The university has the following types of curricula: a standard curriculum (SC), a working curriculum (WC), an individual curriculum (IC). Curricula are developed on the basis of standard curricula in the SP for the entire period of study, State compulsory education standards and the Rules for the organization of the educational process on credit training technology. In accordance with SCES RK, the curriculum maintains the ratio of the volume of disciplines of the cycles of GS, BD, majors.

The content and structure of the accredited SPs are formed in accordance with the requirements of the Model Rules for the Activities of Higher and Postgraduate Education Organizations, State Educational Standard of Higher and Postgraduate Education, the Rules for the Organization of the Educational Process on Credit Technology of Education, approved by the Order of the Minister of Education and Science with corresponding amendments to them.

The formation of the individual educational trajectories of the student is carried out with the help of an adviser for each academic year on the basis of SCES RK, SCs, CEC.

For each accredited SP, a MSP has been developed, which indicates the complexity of the cycle disciplines in Kazakhstan and ECTS credits, as well as in hours, with lectures, practical (seminar) classes, students' independent work under the guidance of a teacher and student independent work, all types of professional practice, intermediate certifications.

MSPs of accredited SPs are formed by graduate departments with the participation of employers, practitioners and students, a mandatory examination of their content and quality of compilation by employers is carried out.

Analytical part

The analysis of accredited SPs for compliance with the criteria of the standard "Development and approval of an educational program" shows that the content of educational programs, the sequence of their implementation, the depth of development of all SP training require improvement in accordance with regulatory documents and labor market requirements.

A questionnaire of academic staff conducted during the visit of the EEC IAAR visit showed a high rating (50.4%) of the attention of the university leadership to the content of the study program. At the same time, the content of the SP "very good" meets the needs of 40.2% of the academic staff, "good" - 57.5%.

Questioning of students showed that the level of speed of response to feedback from teachers regarding the educational process is fully satisfied - 74.2%; partially – 21.7%; completely satisfied with the quality of teaching - 79.3%, partially -13.1%, partially unsatisfied - 6.1%.

Strengths for SP 6B07312 - Land Resources, 7M07311 - Land Resources Management, 6B07311 - Land Cadastre and Real Estate Appraisal, 6B08511 - Mechanization of Production and Processing of Agricultural Products, 6B06120 - Software Engineering, 7M07514 - Metrology and Metrological Support in Industry:

- are absent

EEC recommendations for SP 6B07312 - Land resources, 7M07311 - Land management, 6B07311 - Land cadastre and real estate valuation, 6B08511 - Mechanization of production and processing of agricultural products, 6B06120 - Software engineering, 7M07514 - Metrology and metrological support in industry:

-to make changes and additions to the academic disciplines of SP 7M07514– "Metrology and metrological support in industry", taking into account the updated provisions and norms of the new edition of the Law of the Republic of Kazakhstan "Ensuring the uniformity of measurements", which entered into force on April 11, 2019;

-on SP, conclude agreements or agreements in order to develop and implement joint educational programs at national and foreign universities.

Additionally, for SP 7M07514 - "Metrology and metrological support in industry":

- to revise the learning outcomes and bring in accordance with the labor functions of level 7 of the international standard classification of education specified in the professional standard "Metrology", approved by the Atameken NPP on 10/22/2018.

EEC findings:

According to the standard "Development and approval of the educational program", 1 2 criteria are disclosed, of which according to the SP:

-6B08511 Mechanization of production and processing of agricultural products, 7M07514 Metrology and metrological support in industry (2 years) have 11 satisfactory positions and 1 suggests improvement;

-6B07312 Land Resources, 7M07311 Land resources management, 6B07311 Land Cadastre and Real Estate Appraisal, 6B06120 Software Engineering have 1 strong position, 10 satisfactory position and 1 suggests improvement.

6.4 Standard "Continuous monitoring and periodic evaluation of study programs"

✓ *The university should conduct monitoring and periodic assessment of the SP in order to ensure the achievement of the goal and meet the needs of students and society. The results of these processes are aimed at continuous improvement of the SP.*

✓ *Monitoring and periodic assessment of SP should consider:*

- *The content of the programs in the light of the latest achievements of science in a particular discipline to ensure the relevance of the taught discipline;*
- *Changes in the needs of society and the professional environment;*
- *The load, performance and graduation of students;*
- *The effectiveness of student assessment procedures;*
- *Student expectations, needs and satisfaction;*
- *The educational environment and support services and their relevance to the goals of the SP.*

✓ *The university and the SP management must provide evidence of the participation of students, employers and other stakeholders in the revision of the SP.*

✓ *All interested parties should be informed of any planned or taken actions regarding the SP. All changes made to the SP should be published.*

SP management must ensure that content and structure are reviewed

Evidence part

The university determines the mechanisms for monitoring and periodically evaluating the implementation of the SP in order to ensure the achievement of the goal and meet the needs of students and society. The criteria for the effectiveness of the activities of SP are: student enrollment, academic performance and employment (data on indicators are given in the standard "Students").

All processes associated with the implementation of the undergraduate and graduate programs at M.Kh.Dulaty TarSU are documented and checked by the quality service. When planning an SP for each specific discipline, a reference to the fundamental strategic documents of the Republic of Kazakhstan is provided.

The result of satisfaction of students, faculty and employers with places, conditions and content of practices, as well as the level of students and teachers is the opinions and reviews of organizations that provide the basis for internships. The EEC Commission presented the feedback of employers on the best graduates of accredited SP, reviews of the heads of professional practices for students of accredited SP, which are in a set of documents based on the results of professional practice.

The university organized systematic activities for the employment of graduates. An annual alumni fair is held, where employers represent their enterprises and conduct express interviews with applicants. Representatives of enterprises of the region, potential employers, take part in the job fair. In an interview with graduates of accredited SPs, it was confirmed that graduating departments in their last year of study periodically organized round tables for students and undergraduates with employers, periodically updated students' resumes on the university website, and through professional practices, encouraged students throughout the entire period the training was tied to one enterprise, in order to obtain more in-depth skills on the specifics of enterprises and with a view to their further employment.

The departments constantly monitor the employment of university graduates by collecting information on the professional employment of graduates. One of the confirming factors of the external assessment of the SP is the employment of graduates (data are given in the standard "Students).

The university and the management of the SP presented evidence of the participation of students, employers and other stakeholders in the revision of the SP. The EEC Commission was presented with external expertise on the developed MSP with proposals on amendments to educational programs. Interviews with faculty and students also confirmed that participants in the educational process are actively involved in any opportunities for revising accredited SPs. For example, in an interview with students of the SP PS & M, it was confirmed that 3-year students did not have the skills to complete practical training in the study of design training programs. Students made a proposal to increase the number of hours in this area, and the current 2 year course confirmed a

sufficient number of topics in specialized disciplines related not only to building materials, but also to the specifics in the field of building design.

To determine the level of satisfaction of internal needs, the leading teachers of the department organize and conduct student surveys every academic period.

Monitoring and evaluation of SP is carried out at departments where an annual report on the implementation of SP is made, where self-assessment and analysis of the success of implementing the development strategy of SP are carried out on quantitative and qualitative indicators, the report is based on an analysis of the main problems identified as a result of monitoring the scientific and educational process and evaluating external and internal factors. The main criterion for success in the implementation of the SP is the percentage of graduates in this SP and the feedback of employers about university graduates, graduates entering the magistracy and their academic performance.

As a communication channel for innovative proposals, traditional feedback forms are used: meetings with management and the rector's blog.

Analytical part

The EEC confirms that the leadership of the university has demonstrated its openness and accessibility for students, faculty, and employers: reception hours are determined on personal issues, meetings with the rector are held on a systematic basis.

The self-assessment report provides information on the forms of stakeholder participation in monitoring the SP.

At the same time, during the interviewing of focus groups, visiting departments and analyzing the submitted documentation, representatives of the EEC noted that in practice the mechanisms of forms of participation in the planning, management and monitoring of SP do not fully work. The issue related to monitoring and periodic assessment of SPs, in particular the content of programs in the light of the latest scientific achievements in specific disciplines to ensure the relevance of the taught discipline, has not been sufficiently developed.

The management of SP 6B07312 - “Land Resources”, 6B07311- “Land Cadastre and Real Estate Appraisal”, 7M07311- “Land Resources Management”, 6B06120 - “Software Engineering” should pay attention to the practice-oriented accredited educational programs taking into account labor market requirements.

Strengths for SP 6B07312 - Land resources, 7M07311 - Land resources management, 6B07311 - Land cadastre and real estate appraisal, 6B08511 - Mechanization of production and processing of agricultural products, 6B06120 - Software engineering, 7M07514 - Metrology and Metrological Support in Industry:

- are absent

EEC recommendations for SP 6B07312 Land resources, 7M07311 Land resources management, 6B06120 Software engineering:

- to ensure the practical orientation of accredited study programs, taking into account the requirements of the labor market and professional associations of employers, by increasing the time allocated to industrial practice on the basis of enterprises with related professions.

Additionally for SP 7M07514 - Metrology and metrological support in industry

- subject to changes made to the legislation in the field of ensuring the uniformity of measurements, it is necessary to update the name and content of the discipline: “State metrological control and supervision”.

EEC findings:

According to the standard "Continuous monitoring and periodic evaluation of educational programs" 10 criteria are disclosed, of which according to the SP:

- 6B08511 Mechanization of production and processing of agricultural products; 7M07514 Metrology and metrological support in industry (2 years) 9 have a satisfactory position and 1 suggests improvement;

- 6B07312 Land Resources, 7M07311 Land Resources Management, 6B07311 Land Cadastre and Real Estate Appraisal, 6B06120 Software Engineering have 10 satisfactory positions.

6.5 Standard "Student-centered learning, teaching and performance assessment"

✓ *SP management should ensure respect and attention to various groups of students and their needs, providing them with flexible learning paths.*

✓ *SP management should ensure the use of various forms and methods of teaching and learning.*

✓ *An important factor is the availability of our own research in the field of teaching methods of educational disciplines of SP.*

✓ *SP management should demonstrate the existence of a feedback system on the use of various teaching methods and assessment of learning outcomes.*

✓ *SP management should demonstrate support for student autonomy, while also guiding and assisting the teacher.*

✓ *SP management must demonstrate the existence of a procedure for responding to student complaints.*

✓ *The university should ensure the consistency, transparency and objectivity of the mechanism for assessing learning outcomes for each SP, including the appeal.*

✓ *The university should ensure that the procedures for evaluating the learning outcomes of students of SP study meet the planned learning outcomes and program objectives. Evaluation criteria and methods within the framework of the SP should be published in advance.*

✓ *The university should determine the mechanisms for ensuring the development of learning outcomes by each graduate of SP and ensure the completeness of their formation.*

Assessors must be proficient in modern

Evidence part

For accredited SPs, management provides equal opportunities for students, regardless of the language of instruction, to form an individual educational trajectory aimed at building professional competence.

Regardless of the language of instruction, syllabuses, teaching materials, scientific and educational literature, SRW, SRW under the guidance of a teacher, consultations and information resources are equally available to students. Departments ensure the harmonious development of students, taking into account intellectual development and individual characteristics.

SP management seeks to provide attention to various groups of students and their needs, providing them flexible learning paths and using various forms and methods of teaching and learning.

For the purpose of student-centered teaching at the departments, various teaching methods and technologies are used that take into account the variety of forms of information assimilation. The following active and innovative teaching methods have been introduced in the educational process: a method for analyzing specific situations; discussion method; training in collaboration, lecture-conversation, lecture-visualization, lecture-dispute, brainstorming; project method; business game method. In isolated cases, academic staff of the department introduce their own methods into the educational process. For example, Associate Professor of the Department of Information Systems G. Altybaev when conducting classes in the disciplines of "Electronics", "Digital Circuitry" and "Designing microprocessor systems and networks" introduces new methods of teaching these disciplines. So, when conducting laboratory classes in the discipline "Electronics", a

software tool for modeling electronic circuits Labcenter Proteus is used. To organize a laboratory workshop on the discipline "Digital Circuitry", the design of electronic circuits is carried out in the description languages of the Verilog and VHDL equipment using the software tools ModelSim (Mentor Graphics) and Quartus Prime (Intel), as well as the hardware and software platform DE1-SoC (Terasic). The laboratory workshop on the discipline "Designing microprocessor systems and networks" is based on programming industrial microcontrollers of the AVR ATmega, PIC16F, STM32, ADuC family.

At the Department of Land Management and Cadastre, in the class on the discipline "Land Monitoring", Professor M. Asbergen showed video materials on monitoring the polluted lands of industrial territories; at the classes on the discipline "Automated systems of land management" for 4th year students, the teacher N. Tursynbaev used the Mapinfo program (room 6.2.108).

Students receive information about the possibilities of forming an individual educational trajectory through the automated system of the university, as well as with the help of curators / advisers.

Monitoring the progress of students along the educational trajectory is carried out on the basis of a system for evaluating the results of students and based on the reports of the academic staff of the department.

Monitoring and evaluation of learning outcomes and their implementation is ensured by the following procedures:

- independent computer testing in an automated system in the disciplines of SP: provides objectivity in assessing knowledge and shows the dynamics of their level;
- a survey of employers on the quality of training of graduates of SP.

When scoring, attendance, level of activity in the classroom, systematic implementation and level of independence of all types of tasks, the ability to correctly formulate a problem and find alternative solutions are taken into account. All educational achievements of students are reflected in the transcript.

An appeal (appeal) of the results of academic performance of students is carried out through the work of the appeal commission. Graduation works of students are tested for plagiarism.

One of the modern directions in the educational process is the widespread use of virtual laboratory work in an interactive mode. In connection with the availability of distance learning students in the programmatic engineering, land resources, land cadastre and real estate appraisal faculty, academic staff develops video tutorials and conducts online consultations to work with students. For this purpose, the university organized and operates a center for recording video lessons for distance education.

A classic feedback tool for studying the quality of teaching (content, forms, methods) is a student survey.

Analytical part

Students express satisfaction with the level of quality of teaching, which shows the results of the survey. Satisfied with the quality of teaching fully - 79.3%, partially - 13.1%.

The Commission notes that the University is committed to developing objective tools for assessing students' knowledge, using the recommendations of the latest version of ECTS and pursuing a clear anti-corruption policy.

Employers emphasized at the meeting with IAAR experts the need for introducing practice-oriented disciplines into catalogs of elective disciplines, as well as for wider involvement of practitioners in the educational process.

In general, both students and academic staff expressed positive opinions on the implementation of accredited SPs, which subsequently confirmed the results of the survey. However, we consider it necessary to note that at the university, within the framework of

accredited programs, there is a need for the development and implementation of new research in the framework of teaching methods with the aim of developing student-centered learning.

Strengths for SP 6B07312 - Land Resources, 7M07311 - Land Resources Management, 6B07311 - Land Cadastre and Real Estate Appraisal, 6B08511 - Mechanization of production and processing of agricultural products, 6B06120 - Software Engineering, 7M07514 - Metrology and Metrological Support in Industry:

- are absent

EEC recommendations for SP 6B07312 Land resources, 7M07311– Land recourses management, 6B07311 - Land cadastre and real estate appraisal, 6B08511 Mechanization of production and processing of agricultural products, 6B06120 Software engineering, 7M07514 Metrology and metrological support in industry:

- to develop programs for the development of educational and scientific laboratories and create conditions for the development of research teams, attracting students to research activities in the field of SP.

EEC findings:

According to the standard "Student-centered learning, teaching and performance assessment" 10 criteria are disclosed, of which 10 have a satisfactory position in all of the educational programs.

6.6 Standard "Students"

✓ *The university should demonstrate a policy for the formation of the contingent of students in the context of SP from admission to graduation and ensure the transparency of its procedures. Procedures governing the life cycle of students (from admission to completion) must be defined, approved, published.*

✓ *SP management should demonstrate the implementation of special adaptation and support programs for newly arrived and foreign students.*

✓ *The university must demonstrate the conformity of its actions to the Lisbon Recognition Convention.*

✓ *The university should cooperate with other educational organizations and national centers of the European Network of National Information Centers for Academic Recognition and Mobility / National Academic Recognition Information Centers ENIC / NARIC in order to ensure comparable recognition of qualifications.*

✓ *SP management should demonstrate the existence and application of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal learning.*

✓ *The university should provide an opportunity for external and internal mobility of students of SP, as well as assist them in obtaining external grants for training.*

✓ *SP management should make every effort to provide students with places of practice, facilitate the employment of graduates, and maintain contact with them.*

✓ *The university should provide graduates of the SP with documents confirming the qualifications obtained, including the results of training, as well as the context, content and status of the education and evidence of completion.*

✓ *An important factor is the monitoring of employment and professional activities of graduates of SP.*

✓ *SP management should actively encourage students to self-education and development outside the main program (extracurricular activities).*

Evidence part

The university demonstrated a policy of forming a contingent of students in the context of SP from admission to graduation and ensuring the transparency of its procedures. Procedures governing the life cycle of students (from admission to completion) are defined, approved, published.

Policies and procedures for admission of applicants to M.Kh. Dulaty TarSU is consistent with the mission, vision, strategic goals of the university and is officially

published on the university website (http://www.tarsu.kz/ru/missiya-videniya-napravleniya.html).

The formation of the contingent of students is carried out by the faculty of the department on the basis of a large career guidance work.

For newly enrolled students, an adaptation week is organized, implemented by the efforts of academic advisers. Review lectures are given by the university leadership in the discipline "Harmonization of the educational process and students." The approved schedule is available and posted on the official website of the university.

An analysis of the contingent of students in accredited SPs over the past 3 academic years shows a significant decrease in the number of students in undergraduate studies and a slight increase in master's programs.

From 2014 to 2018, 10 students who studied in the following universities participated in the program of internal and external academic mobility for accredited SPs: Aman Elaman (5B090700-Cadastre) studied in the program of academic mobility at the Lublin Technical University (Poland).

The procedures for admitting students from other universities, recognition and offsetting loans are based on the principles of the Lisbon Recognition Conference. Admission of students from other universities is carried out in accordance with the Rules of transfer and restoration, approved by order of the Minister of Education and Science of the Republic of Kazakhstan dated January 20, 2015 No. 19. When transferring students from other universities, the academic difference in the disciplines of working academic panels studied by them for previous academic periods is determined.

Employment rate for the period from 2016-2019 amounted to an average of 87% for undergraduate studies; according to the SP of the magistracy - 100%.

Table 3 - Employment of graduates of 2019 in the context of specialties

№	Cipher	Specialty	2016-2017 academic year		2017-2018 academic year		2018-2019 academic year	
			total	are employed	total	are employed	total	are employed
1	6B07312	Land resources	15	12/92,30%	9	9/100%	10	9/90%
2	6B07311	Land cadastre and real estate appraisal	10	9/90%	8	8/100%	12	11/91,6%
3	6B08511	Mechanization of production and processing of agricultural products	9	5/55%	10	10/100%	12	12/100%
4	6B06120	Software engineering	22	8/36,6%	19	19/100%	15	10/66,6%
5	7M07311	Land resources management	3	3/100%	2	2/100%	2	2/100%
6	7M07514	Metrology and metrological support in industry	3	3/100%	2	2/100%	2	2/100%

Examination sessions are traditionally held on dates established by the University's academic calendar. Session preparation was carried out in accordance with a set of

measures for the organization and conduct of the session by the structural units responsible for the organization of the educational process.

Analytical part

The commission notes that the university has developed an academic policy containing the main issues of educational and organizational activities of students.

As a result of the questionnaire, the availability of academic counseling was completely satisfied (68.2%); accessibility of health services (65.2%); availability of library resources (83.3%); existing training resources (74.2%); overall quality of study programs (75.3%); the relationship between student and teacher (86.8%).

Strengths for SP 6B07312 - Land Resources, 7M07311 - Land resources management, 6B07311 - Land Cadastre and Real Estate Appraisal, 6B08511 - Mechanization of production and processing of agricultural products, 6V06120 - Software Engineering, 7M07514 - Metrology and Metrological Support in Industry:

- are absent.

EEC recommendations for SP 6B07312 - Land resources, 7M07311 - Land resources management, 6B07311 - Land cadastre and real estate appraisal, 6B08511 - Mechanization of production and processing of agricultural products, 6B06120 - Software engineering, 7M07514 - Metrology and metrological support in industry:

- draw up a work plan to update the work of the Alumni Association.

Additionally, for SP 6B06120– "Software Engineering":

- during the 2019/20 academic year, the department of information systems to conclude contracts, in addition to the available for practical training students of SP in their specialization.

EEC findings:

According to the standard "Students", 12 criteria are disclosed, of which 11 have a satisfactory position in all SPs and 1 suggests improvement.

6.7. Standard "Academic staff"

✓*The university should have an objective and transparent personnel policy, including in the context of SP, including hiring, professional growth and staff development, ensuring the professional competence of the entire staff.*

✓*The university should demonstrate the compliance of the staff potential of the academic staff with the development strategy of the university and the specifics of the SP.*

✓*SP management should demonstrate awareness of responsibility for its employees and ensure favorable working conditions for them.*

✓*SP management should demonstrate a change in the role of the teacher in connection with the transition to student-centered learning.*

✓*The university should determine the contribution of faculty staff to the implementation of the development strategy of the university, and other strategic documents.*

✓*The university should provide opportunities for career growth and professional development of faculty staff.*

✓*SP management should involve practitioners in relevant industries in teaching.*

✓*SP management should provide targeted action to develop young teachers.*

✓*The university should demonstrate the motivation for the professional and personal development of teachers of SP, including encouraging the integration of scientific activity and education, as well as the use of innovative teaching methods.*

✓*An important factor is the active use of the academic staff of the information and communication technologies in the educational process (for example, on-line training, e-portfolio, MOOC, etc.).*

An important factor is the development of academic mobility in the framework of SP, the involvement of the best foreign and domestic teachers.

An important factor is the involvement of academic staff in the life of society (the role of academic staff in the education system, in the development of science, the region, the creation of a cultural

Evidence part

The personnel policy of the university contributes to the formation and effective use of motivated and highly productive personnel capable of responding adequately to the impact of external and internal environment. Its implementation is based on the following documents: P 4.01-2016 Rules of the internal labor schedule of M.Kh Dulaty TarSU from 01/19/2016, STU 04-2019 "Personnel Management". The cadre staff of the academic staff of SP is equipped in accordance with the legislation of the Republic of Kazakhstan.

A qualified academic staff has been formed at the departments, which provides training for specialists in accordance with the requirements of the State educational standard and the Development Program of M.Kh Dulaty Taraz State University for 2019-2022.

The personnel policy of TarSU is designed to combine existing approaches, proven methods and tools of personnel management, taking into account the best experience in the field of work with personnel. The following basic principles are laid the basis of the HR policy of TarSU: comprehensiveness, systematicity, transparency, validity, efficiency.

Table 6 The qualitative composition of the faculty in the SP cluster Department of Machinery and Equipment

Indicators	Academic year				
	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
Total full-time academic staff	13	12	11	14	13
of them:					
Doctors of Science	1	1	1	1	1
Candidates of Science	8	7	5	9	9
PhD	-	-	-	-	-
Masters	4	4	3	4	3
Graduation (%)	69,2	66,6	54,5	71,4	76,9

Department of Standardization and Metrology

Indicators	Academic year				
	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
Total full-time academic staff	18	18	17	11	12
of them:					
Doctors of Science	-	-	-	-	-
Candidates of Science	6	6	6	3	3
PhD	4	4	4	3	3
Masters	8	8	7	5	5
Graduation (%)	55,5	55,5	58,5	54,5	50

Department "Land Management and Cadastre"

Indicators	Academic year				
	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
Total full-time academic staff	11	11	11	11	11

of them:					
Doctors of Science	1	1	1	1	-
Candidates of Science	4	4	4	4	4
PhD	-	-	-	1	1
Masters	4	5	6	5	6
Graduation (%)	45,5	45,5	45,5	54,5	45,5

Department “Information Systems”

Indicators	Academic year				
	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
Total full-time academic staff	21	20	19	23	23
of them:					
Doctors of Science	2	1	2	3	3
Candidates of Science	9	9	9	8	8
PhD	-	1	1	2	2
Masters	8	7	6	9	9
Graduation (%)	52,3	55	50	47	47

The SP management demonstrated the awareness of responsibility for their employees and ensuring favorable working conditions for them and the changing role of the teacher in connection with the transition to student-centered training: rating system of remuneration and material incentives based on its results; free access to the library fund and information resources of the university; providing opportunities to improve qualifications at the expense of the university in accordance with the decision of the administration; organization of multilevel courses for teaching English; creation of conditions for use in the work of computer and office equipment, technical training tools, other equipment; assistance in participation in Kazakhstan and international competitions of scientific works and competitions for individual grants; publication of methodological developments of employees; providing material support to undergraduates, doctoral students; Awarding with letters of appreciation and gratitude to the university senior management in the field of educational and scientific activities, community service and many years of conscientious work

SP management ensures the completeness and adequacy of indicative academic staff work plans for all types of activities, monitoring the effectiveness and efficiency of indicative plans, demonstrates evidence of teachers fulfilling all types of planned workloads. The workload of academic staff in the specialties includes educational, educational, scientific, organizational and methodological work, increasing professional competence. In all disciplines, educational and methodological complexes have been developed.

Every year, academic staff take part in various cultural and recreational events at the city and republican levels.

Analytical part

During the visit, EEC experts on this standard found that the department has a low level of academic mobility, which may lead to a lack of access to the resources of third-party higher education institutions.

In this regard, the management of accredited SPs needs to increase the level of academic mobility of academic staff and research work, in particular publication activity. It is necessary to participate in competitions for financing research projects on the specifics of SP.

The SP's leadership does not sufficiently present an action program aimed at developing young academic staff with concrete examples.

At the departments there are no funded and contractual research works on the specifics of accredited SPs and in general.

Strengths for SP 6B07312 - Land Resources, 7M07311 - Land resources management, 6B07311 - Land cadastre and real estate appraisal, 6B08511 - Mechanization of production and processing of agricultural products, 6B06120 - Software Engineering, 7M07514 - Metrology and Metrological Support in Industry:

- are absent

EEC recommendations for SP 6B07312 - Land resources, 7M07311 - Land resources management, 6B07311 - Land cadastre and real estate appraisal, 6B08511 - Mechanization of production and processing of agricultural products, 6B06120 - Software engineering, 7M07514 - Metrology and metrological support in industry:

- take measures to stimulate young teachers to participate in academic mobility programs, conferences of all levels, competitions, research projects on the profile of the SP, the development of mentoring,
- draw up a plan for the development of academic mobility, advanced training of academic staff, attracting the best foreign and domestic teachers and conducting joint research on the profile of the SP in the implementation of accredited educational programs,
- increase the number of scientific publications in accordance with the regulatory requirements of the university and the Ministry of Education and Science of the Republic of Kazakhstan.

Additionally, for SP 7M07514 - "Metrology and metrological support in industry":

- assist the academic staff in obtaining the certificate of the calibrator of measuring instruments.

EEC findings:

According to the standard "Academic staff" 12 criteria are disclosed, of which according to the SP:

- 6B08511 Mechanization of production and processing of agricultural products, 7M07514 Metrology and metrological support in industry (2 years) have 12 satisfactory positions;

- 6B07312 - Land resources, 7M07311 - Land resources management, 6B07311 - Land cadastre and real estate appraisal, 6B06120 - Software engineering have 11 satisfactory positions and 1 implies improvement.

6.8. Standard "Educational resources and student support systems"

✓ *SP management must demonstrate the adequacy of material and technical resources and infrastructure.*

✓ *SP management should demonstrate the existence of support procedures for various groups of students, including information and counseling.*

- *SP management must demonstrate compliance of information resources with SP specifics, including compliance with:*
- *technological support for students and academic staff in accordance with educational programs (for example, online training, modeling, databases, data analysis programs);*
- *library resources, including a fund of educational, methodological and scientific literature on general education, basic and majors in paper and electronic media, periodicals, access to scientific databases;*
- *examination of the results of research, final works, dissertations on plagiarism;*

- *access to educational Internet resources;*
- *WI-FI functioning in the territory of the educational organization.*

✓ *The university should strive to ensure that the educational equipment and software used to master educational programs are similar to those used in the relevant industries.*

✓ *The university must ensure compliance with safety requirements in the learning process.*

✓ *The university should strive to take into account the needs of various groups of students in the context of EP (adults, workers, foreign students, as well as students with disabilities).*

Evidence part

The University has the material and technical base, providing all types of practical training and research work for students and undergraduates, provided for by the university curriculum and corresponding to the existing sanitary-epidemiological and fire safety standards and rules.

There are 14 educational and laboratory buildings with a total area of 73924.4 sq.m., 2 dormitories for 680 beds and 155 laboratories equipped with equipment and measuring instruments. There are libraries with a total area of 3,721.1 m2. There are first-aid posts at the university, there are sports facilities, a youth palace for organizing students' leisure activities, the Jasorken sports and health camp, canteens, cafes and buffets. The educational process uses 85 interactive whiteboards, 1852 modern computers with Internet access. Also, the university created support services for students, introduced units of advisers and curators.

For the effective organization of educational and scientific activities, the university has an extensive classroom fund, there are research institutes and centers where students receive knowledge, abilities and skills in research work. The areas of the main educational premises are adopted in accordance with the requirements of Building standards of RK 3.02-07-2014 Public buildings and structures. The university is provided with drinking and industrial water, thermal and electric energy, and telephone communications centrally. All engineering networks comply with the requirements of Building standards of RK 4.02-101-2012 Heating, ventilation and air conditioning, SP RK 3.05-101-2013 Trunk pipelines.

The material and technical base of the university ensures the conduct of all types of laboratory and practical classes, scientific research work of students envisaged by the curriculum, and meets the current sanitary standards, as well as the requirements of SCES specialties. The working environment conditions meet the requirements of Building Codes II-68-78 “Higher educational institutions” and the requirements of ST RK 1158-2002 “Higher professional education. The material and technical base of educational organizations. " For the effective organization of educational and scientific activities, the university has an extensive classroom fund. The areas of the main educational premises are adopted in accordance with the requirements of ST RK 1158-2002, Building Codes 2.08-02-89 “Building Norms and Rules. Public buildings and facilities. ” The university is provided with drinking and industrial water, thermal and electric energy, and telephone communications centrally. All engineering networks comply with the requirements of Building Codes of RK 3.02.-43-2007, Building Codes of RK 4.02.-42-2006, Building Codes of RK 3.05.01.2010. For the organization of student meals at the university, a youth leisure center "Zhastar Alemi" operates with a total area of 3069.9 sq.m. for 400 seats, a cafe in the main building for 60 seats, as well as 9 buffets - canteens in all buildings of the university.

The university has 3 student dormitories with a total area of 12,742.10 sq.m. at 840 beds - places. Places in dormitories are issued according to the standard "On the issue of places in a dormitory for university students." In the 2018-2019 academic year 804 students live in the Student House, of which: first-year students - 188, 2-year students - 253, 3-year students - 140, 4-year students - 54. When issuing places, the social status of students is always taken into account, and foreign students are also provided with hostels. Dormitory buildings are located near educational buildings, thus students do not waste

time traveling. The buildings of student dormitories are typical, comply with building codes and rules. In the student dormitories and the Student House, all domestic and socio-cultural conditions are created. Despite the large hostel base available, today more than 700 students at the university need a hostel.

Analytical part

EEC confirms the availability of student support systems, including support through the university website. During meetings with students and faculty, it was revealed that, unfortunately, the majority have no financial opportunities for undergoing training, internships, and advanced training at leading universities in the world, therefore it is advisable to involve students and faculty more widely in the best online courses**.**

As a result of a visual inspection of the facilities of the material base, the members of the EEC were convinced that the university possesses the necessary educational and material assets to ensure the educational process of accredited educational programs. University buildings and facilities comply with applicable sanitary standards and fire safety requirements.

At the same time, during the interviews of focus groups, there were wishes about the need to update the material and technical base of educational laboratories.

The Commission notes that during the audit of the CTM, the insufficiency of textbooks and teaching aids in the last years of publications was revealed.

According to the results of the survey, the availability of library resources was fully satisfied - 83.3%, “partially satisfied" - 13.1% of students; classrooms, classrooms for large groups - 76.3% (16.2%); cabinets for small groups - 78.3% (17.7%); lounges for students - 58.6% (17.7%); computer classes and Internet resources - 72.7% (19.7%) of students; available computer classes - 73.7% (19.2%); by scientific laboratories - 68.7% (22.7%). Full satisfaction of students with providing a hostel is - 75.3% (16.2%).

The university organized a unified system of library and information services, the purchase of educational and methodical literature at the request of the department, constantly updating the literature. The university subscribes to EBSIPRbooks and RMEB (Republican Interuniversity Digital Library). The stock of premium versions of ELS IPRbooks is 39082 copies. electronic resources, 645 titles of journals. EBR IPRbooks contains over 2000 audio and video collections. The RMEB fund is 76591 copies. electronic resources, including 28138 titles of magazines.

SP students have free access to Internet resources and an electronic library. In the reading rooms, students have the opportunity to study from 9 to 18 hours. The list of written periodicals is formed on the basis of applications from the department and fully meets the information needs of faculty and students. Money is annually allocated for the acquisition of the library fund.

The buildings contain the necessary number of access points for high-quality network coverage. In an interview with students, 2 clusters also received confirmation of the full coverage of the broadcast area of the WI-FI network in the university and student dormitories, which confirms the provision of high-speed Internet to all students, teachers and employees of the university.

The university creates conditions for training within the framework of academic mobility of students, which are divided into external and internal. Currently, TarSU has agreements for students' academic mobility with other universities of the Republic of Kazakhstan, such as Karaganda State Technical University, K.I. Satpayev Kazakh National Research Technical University, Eurasian Humanitarian Institute and Almaty Technological University, etc.

There are also agreements on cooperation with foreign universities.

The reliability of the final works, master's theses, research results presented by faculty in monographs, scientific articles and reports is evaluated by checking them for plagiarism according to the Anti-Plagiarism system. There is an agreement with Plagiat.ru on the provision of services. Research reports on doctoral dissertations and monographs are subjected to external verification through JSC "NTsNTE".

The university provides support to socially disadvantaged students (orphans and children left without parental care, students with disabilities). For this category of students, social support mechanisms have been created, including free accommodation in a dormitory, benefits for paying for tuition (by the decision of the Academic Council), material assistance. In order to meet the requirements of working students, as well as students with disabilities, distance-educational learning technology is being implemented.

Strengths for SP 6B07312 - Land Resources, 7M07311 - Land Resources Management, 6B07311 - Land Cadastre and Real Estate Appraisal, 6B08511 - Mechanization of Production and Processing of Agricultural Products, 6B06120 - Software Engineering, 7M07514 - Metrology and Metrological Support in Industry:

- are absent

EEC recommendations for SP 6B07312 - Land Resources, 7M07311 - Land Resources Management, 6B07311 - Land Cadastre and Real Estate Appraisal, 6B08511 - Mechanization of Production and Processing of Agricultural Products, 6B06120 - Software Engineering, 7M07514 - Metrology and Metrological Support in Industry:

- the university's library, together with the graduating department, provide 100% provision of core subjects in the field of study with textbooks and teaching aids, especially in the Kazakh language, in accordance with licensing requirements,
- to create, by the end of the 2019-2020 academic year, a teaching and methodological base on electronic media in accordance with the qualification requirements for the organization of educational activities in universities,
- to consider the possibility of updating the material and technical base of the study program, since today technical training laboratories require capital investments to provide the educational process with modern equipment and software.

EEC findings:

According to the standard "Educational resources and student support systems" 10 criteria are disclosed, of which 10 have a satisfactory position in all of the educational programs.

6.9. Standard "Public Awareness"

✓ *Information published by the university within the framework of the SP should be accurate, objective, relevant and should include:*

- *ongoing programs indicating expected learning outcomes;*
- *information about the possibility of qualification at the end of the SP;*
- *information on teaching, training, assessment procedures;*
- *information on passing grades and training opportunities provided to students;*
- *information on employment opportunities for graduates.*

✓ *SP management should use a variety of methods of disseminating information, including the media, information networks to inform the general public and interested parties.*

✓ *Public awareness should include support and clarification of national development programs of the country and the system of higher and postgraduate education.*

✓ *The university should publish audited financial statements on its own web resource, including in the context of SP.*

✓ *The university should demonstrate the reflection on the web resource of information characterizing the university as a whole and in the context of SP.*

✓ *An important factor is the availability of adequate and objective information about the faculty of education, in terms of personalities.*

✓ *An important factor is informing the public about cooperation and interaction with partners within the framework of SP, including with scientific / consulting organizations, business partners, social partners and educational organizations.*

✓ *The university should post information and links to external resources based on the results of external evaluation procedures.*

✓ *An important factor is the participation of the university and implemented SPs in various external assessment procedures.*

Evidence part

In order to inform the public and all interested parties, the policies of the departments are aimed at constantly providing students with the highest quality educational services through their continuous improvement, through the introduction of innovative technologies in the educational process and effective feedback from students and staff.

Academic staff and university students, systematically informs the general public about the activities of M.Kh.Dulaty TarSU, including the department "Construction and production of materials" through the following forms: official website of the university www.tarsu.kz; publications http: //mit.zhambyl.kzиtis-kz@mail.ru in the republican, regional and city / trade union mass media; have access to domestic, Russian and world databases: www.kazneb.kz, www.rmebrk.kz, http://www.springerlink.com, elibrary.ru; distance learning information system www.cde.tarsu.kz. library Internet resource with access to the electronic library www.lib.tarsu.kz; portal www.or.tarsu.kz provides personal information about the educational trajectory of the student. Information kiosks are installed in all educational buildings of the university to quickly obtain information about academic performance, and for access to the official Internet resources of the university. Information search in the electronic library catalog http://ecat.tarsu.kz can also be carried out from remote computers connected to the Internet.

All electronic publications comply with modern requirements, which makes it possible to work on the Internet and on the corporate network.

The leadership of the university considers the process of public awareness as an important resource for the implementation of the mission, goals, quality policy and objectives set in the Strategic Plan for the Development of the University for 2019-2023.

TarSU is a regional university, so the question of image and information about the activities of the university is very up to date. The site represents the university on the global Internet, promotes the formation of the university's image and provides an information environment for applicants, students, employers, graduates, faculty and university employees. The site provides general information about the university.

Information resources of the TarSU website are formed from socially significant information for all participants in the educational process, business partners and other interested parties in accordance with the statutory activities of the university. The rector's blog provides feedback for students, staff, academic staff, employers, and members of the public.

Academic staff and university students systematically inform the general public about the activities of M.Kh. Dulaty Taraz State University through the following forms:

University's official Internet resource www.tarsu.kz;

- Internet library resource with access to the electronic library www.lib.tarsu.kz;
- distance learning information system www.cde.tarsu.kz;
- social networks Instagram, Facebook, VKontakte, Twitter, Youtube;
- publications in republican, regional and city / trade union mass media;
- participation in television programs of the Jambyl agency, etc.

For the real positioning of TarSU as a leading university in the country, in addition to traditional resources, image information is used (presentation by the rector (annual

reports), leading teachers on television, placement of articles of academic staff and informing the general public through interaction with the media, open days, job fairs, meetings of graduates , career guidance events. Publication of materials about all the important events taking place in the life of the university takes place through the website, newspaper of the university, and is also covered in republican and regional newspapers and television. The total circulation of the newspaper "For Polytechnical Knowledge", produced at the university, is 350 copies.

The official page of the university operates on a social network:Vkontakte https://vk.com/tarmu_media), Facebook (https://wweb.facebook.com/pages/ТарГУ-им-Дулати/612537105602640) , Instagram (https://www.instagram.com/tarmu_official/) and etc.

Analytical part

An analysis of the information presented in the media showed an insufficient level of informing the public about the implemented public relations.

A survey of students conducted during the visit of the EEC IAAR showed that 78.3% were satisfied with the students' knowledge of the courses, academic programs, and academic degrees, 18.2% were partially satisfied, and 2% were partially unsatisfied.

Strengths for SP 6B07312 - Land Resources, 7M07311 - Land Resources Management, 6B07311 - Land Cadastre and Real Estate Appraisal, 6B08511 - Mechanization of production and processing of agricultural products, 6B06120 - Software Engineering, 7M07514 - Metrology and Metrological Support in Industry:

- are absent

EEC recommendations for SP 6B07312 - Land Resources, 7M07311 - Land Resources Management, 6B07311 - Land Cadastre and Real Estate Appraisal, 6B08511 - Mechanization of production and processing of agricultural products, 6B06120 - Software Engineering, 7M07514 - Metrology and Metrological Support in Industry:

- Update information on the activities of the university in the implementation of accredited SPs, as well as create personal pages of academic staff of the SP on the official website of the university.

EEC findings:

According to the standard "Public awareness" 13 criteria are disclosed, of which according to the SP:

- 6B08511 Mechanization of production and processing of agricultural products, 7M07514 Metrology and metrological support in industry (2 years) have 13 satisfactory positions;

- 6B07312 – Land resources, 7M07311 – Land management, 6B07311 – Land cadastre and real estate appraisal, 6B06120 – Software engineering have 12 satisfactory positions and 1 implies improvement.

6.10. Standard "Standards in the context of individual specialties"

Evidence part

To increase the efficiency of the implementation of the SP for this cluster, measures aimed at:

- to deepen, systematize, generalize and concretize theoretical knowledge obtained at the university;

- to improve professionally significant skills in the field of specialization;

- to familiarize students with the professional environment and gain practical experience and skills in general education.

The effectiveness of the educational programs of this cluster can be judged by the results of seminars, scientific and practical conferences, competitions, as well as students attending thematic exhibitions, field trips at enterprises whose activities are related to information systems and technologies.

At the departments of SP 6B07312 – Land Resources, 7M07311 - Land Resources Management, 6B07311 – Land Cadastre and Real Estate Appraisal, 7M07514- "Metrology and Metrological Support in Industry", 6B06120- Software Engineering, 6B08511- Mechanization of Production and Processing of Agricultural Products for academic staff training and methodological seminars are held with the aim of exchanging experience, as well as advanced training, domestic foreign scientists are invited to give lectures and conduct master classes. High professional level, practical experience, mobility of academic staff - everything is aimed at achieving the main goal - improving the quality of training of specialists in demand.

Analytical part

Based on the results of the analysis, the members of the EEC came to the following conclusion.

A visit to the department, laboratories, special rooms showed that teaching in educational programs is carried out by using interactive and innovative teaching methods, software products, multimedia presentation of the lecture, consideration of situational tasks, non-standard (creative) solutions to problems, business games, interactive whiteboards.

The analysis of academic staff serving the SP showed that among the full-time teachers of the Department of Standardization and Metrology there are scientists and practitioners with experience working in enterprises in the field of specialization of the educational program:

Kurbaev Nurzhan Asambaevich - senior lecturer of the department "Standardization and Metrology", graduate of the department, in state, production experience - Zhambyl branch of JSC "National Center for Expertise and Certification" (2004-2006), specialist of the 2nd category of the department of testing light and textile industry.

Karim Erkebulan Abilkasymuly, - Senior Lecturer at the Department of Standardization and Metrology, graduate of the department, in state, production experience - Zhambyl branch of the RSE Kazakhstan Institute of Standardization and Certification (2018-2019), leading specialist.

Baitureev Agybay Mambetovich - Ph.D., professor of the Department of Standardization and Metrology, on staff, production experience - Chimkent Lead Plant, Chimkent Phosphorus Plant, Zhambyl Superphosphate Plant, Kazphosphate LLP NDFZ, Kazgelprom (1968-1989) .), an engineer.

Frolova Yulia Veniaminovna - Senior Lecturer, Department of Standardization and Metrology, part-time job, works at 0.25 rate, the main place of work is Kazphosphate LLP, leading engineer

EEC experts visited the practice base SP 6B06120 - "Software Engineering", Sberbank of Russia Branch in Taraz, SP 6B07312 - "Land Resources", 6B07311- "Land Cadastre and Real Estate Valuation", 7M07311- "Land Resources Management" visited the Land Cadastre Department and technical inspection of real estate - a branch of IQAA "State Corporation" Government for Citizens". Students undergo professional practice on the department's

databases, protect the results of the practice in the form of a conference with the participation of managers from the enterprise and the university. In addition, the company provides all the necessary information of an analytical nature, data on the history and activities of enterprises that students study and use in the process of completing term papers, diploma projects, practice reports. During the internship, students acquire practical skills and competencies in the field of study.

Strengths for SP 6B07312 - Land Resources, 7M07311 - Land Recourses Management, 6V07311 - Land Cadastre and Real Estate Appraisal, 6B08511 - Mechanization of Production and Processing of Agricultural Products, 6B06120 - Software Engineering, 7M07514 - Metrology and Metrological Support in Industry:

- are absent

EEC recommendations

- are absent

EEC findings:

According to the standard "Standards in the context of individual specialties" 5 criteria are disclosed, of which 1 has a strong position in all SPs, 4 have a satisfactory position.

(VII) REVIEW OF STRENGTHS / BEST PRACTICE BY EACH STANDARD

- ***Standard "Study program management"***
- are absent

Standard "Information management and reporting"
- are absent

Standard "Study program development and approval"
- are absent

Standard "Continuous monitoring and periodic evaluation of study programs"
- are absent

Standard "Student-centered education, teaching and performance assessment"
- are absent.

Standard "Students"
- are absent

Standard "Academic staff"
- are absent

Standard "Educational resources and student support systems"
- are absent

Standard "Public Awareness"
- are absent

Standards in the context of individual specialties
- are absent.

(VIII) REVIEW OF QUALITY IMPROVEMENT RECOMMENDATIONS BY EACH STANDARD

Standard "Study program management"

EEC recommendations for SP 6B06120 - Software Engineering:

- by the beginning of the academic year 2020-2021, the SP management develop an updated model of the graduate and the SP development plan with specific measurable indicators and designate those responsible for the implementation of the plan.

- ensure the passage of continuing education courses for SP management in the field of educational management.

Standard "Information management and reporting"

EEC recommendations for SP 6B07312 - Land resources, 7M07311 - Land resources management, 6B07311 - Land cadastre and real estate appraisal, 6B08511 - Mechanization of production and processing of agricultural products, 6B06120 - Software engineering, 7M07514 - Metrology and metrological support in industry:

- in order to improve SP, regularly analyze the effectiveness of changes.

Standard "Study program development and approval"

EEC recommendations for SP 6B07312 - Land resources, 7M07311 - Land resources management, 6B07311 - Land cadastre and real estate appraisal, 6B08511 - Mechanization of production and processing of agricultural products, 6B06120 - Software engineering, 7M07514 - Metrology and metrological support in industry:

- make changes and additions to the educational disciplines of SP 7M07514 - "Metrology and metrological support in industry", taking into account the updated provisions and norms of the new edition of the Law of the Republic of Kazakhstan "On ensuring the uniformity of measurements", which entered into force on April 11, 2019;

- on SP, conclude agreements or agreements in order to develop and implement joint educational programs with domestic and foreign universities.

Additionally, for SP 7M07514 - "Metrology and metrological support in industry":

- To revise the learning outcomes and bring in accordance with the labor functions of level 7 of the international standard classification of education specified in the professional standard "Metrology", approved by NPP "Atameken" from 22/10/2018.

Standard "Continuous monitoring and periodic evaluation of study programs"

EEC recommendations for SP 6B07312 - Land resources, 7M07311 - Land resources management, 6B06120 - Software engineering:

- to ensure the practical orientation of accredited educational programs, taking into account the requirements of the labor market and professional associations of employers, by increasing the time allocated to industrial practice on the basis of enterprises with related professions.

Additionally, for SP 7M07514 - Metrology and metrological support in industry:

- subject to changes in legislation in the field of ensuring the uniformity of measurements, it is necessary to update the name and content of the discipline: "State metrological control and supervision".

Standard "Student-centered education, teaching and performance assessment"

EEC recommendations for SP 6B07312 - Land resources, 7M07311 - Land resources management, 6B07311 - Land cadastre and real estate appraisal, 6B08511 - Mechanization of production and processing of agricultural products, 6B06120 - Software engineering, 7M07514 - Metrology and metrological support in industry:

- to develop programs for the development of educational, scientific laboratories and create conditions for the development of research teams, attracting students to research activities on the profile of the SP.

Standard "Students"

EEC recommendations for SP 6B07312 - Land resources, 7M07311 - Land resources management, 6B07311 - Land cadastre and real estate appraisal, 6B08511 - Mechanization of production and processing of agricultural products, 6B06120 - Software engineering, 7M07514 - Metrology and metrological support in industry:

- draw up a work plan to update the work of the Alumni Association.

Additionally, for SP 6B06120– "Software Engineering":

- during the 2019/20 academic year, the department of information systems to conclude contracts, in addition to the available for practical training students of SP in their specialization.

Standard "Academic staff"

EEC recommendations for SP 6B07312 - Land resources, 7M07311 - Land resources management, 6B07311 - Land cadastre and real estate appraisal, 6B08511 - Mechanization of production and processing of agricultural products, 6B06120 - Software engineering, 7M07514 - Metrology and metrological support in industry:

- take measures to stimulate young teachers to participate in academic mobility programs, conferences of all levels, competitions, research projects on the profile of the SP, the development of mentoring,

- draw up a plan for the development of academic mobility, advanced training of academic staff, attracting the best foreign and domestic teachers and conducting joint research on the profile of the SP in the implementation of accredited educational programs,

- increase the number of scientific publications in accordance with the regulatory requirements of the university and the Ministry of Education and Science of the Republic of Kazakhstan.

Additionally, for SP 7M07514 – "Metrology and metrological support in industry":

- assist the academic staff in obtaining the certificate of the calibrator of measuring instruments.

Standard "Educational resources and student support systems"

EEC recommendations for SP 6B07312 - Land resources, 7M07311 - Land resources management, 6B07311 - Land cadastre and real estate appraisal, 6B08511 - Mechanization of production and processing of agricultural products, 6B06120 - Software engineering, 7M07514 - Metrology and metrological support in industry:

- the university's library, together with the graduating department, provide 100% coverage of the core disciplines of the study program with textbooks and teaching aids, especially in the Kazakh language, in accordance with licensing requirements,

- to create, by the end of the 2019-2020 academic year, a teaching and methodological base on electronic media in accordance with the qualification requirements for the organization of educational activities in universities,

- to consider the possibility of updating the material and technical base of the educational program, since today technical training laboratories require capital investments to provide the educational process with modern equipment and software.

Standard "Public Awareness"

EEC recommendations for SP 6B07312 - Land resources, 7M07311 - Land resources management, 6B07311 - Land cadastre and real estate appraisal, 6B08511 - Mechanization of production and processing of agricultural products, 6B06120 - Software engineering, 7M07514 - Metrology and metrological support in industry::

- Update information on the activities of the university in the implementation of accredited SPs, as well as create personal pages of academic staff of the SP on the official website of the university.

Standard "Standards in the context of individual specialties"

- are absent

(IX) REVIEW OF RECOMMENDATIONS FOR THE DEVELOPMENT OF EDUCATION

(List of EEC recommendations related to the development of SAs. These recommendations do not apply to measures to improve quality and comply with IAAR standards)

- Harmonization of the contents of the university's SP with foreign educational organizations, focused work on the development of joint educational programs with partner universities.

- To complete the installation of ramps for people with disabilities, guiding markings and color signs and signs for visually impaired students and staff in the university buildings.

- In order to maintain a comfortable temperature in the winter in classrooms (category 2), in accordance with the requirements of the interstate standard SCES 30494-2011 - "Residential and public buildings. The microclimate parameters in the premises ", to establish a heating system to provide educational facilities with optimal (20-22 C) and acceptable (18-24 C) temperature.

(X) Appendix 1. Evaluation table "SPECIALIZED PROFILE PARAMETERS" for SP 6B07312 Land Resources, 6B07311 Land Cadastre and Real Estate Appraisal, 7M07311 Land Resources Management, 6B06120 Software Engineering

№	№	Criteria for evaluation	Education Organization Position			
			Strong	Satisfactory	Suggests improvement	Unsatisfactory
Standard "Study program management"						
1	1.	The university must have a published quality assurance policy.		+		
2	2.	Quality assurance policies should reflect the link between research, teaching and learning.		+		
3	3.	The university should demonstrate the development of a culture of quality assurance, including in the context of SP.		+		
4	4.	A commitment to quality assurance should apply to any activity carried out by contractors and partners (outsourcing), including in the implementation of joint / double degree education and academic mobility.		+		
5	5.	The SP management ensures transparency in the development of the SP development plan based on an analysis of its functioning, the real positioning of the university and its focus on meeting the needs of the state, employers, stakeholders and students.		+		
6	6.	SP management demonstrates the functioning of the mechanisms for forming and regularly reviewing the SP development plan and monitoring its implementation, assessing the achievement of learning objectives, meeting the needs of students, employers and society, making decisions aimed at continual improvement of SP.		+		
7	7.	SP management should involve representatives of stakeholder groups, including employers, students and faculty members, in the formation of the SP development plan.		+		
8	8.	SP management must demonstrate the individuality and uniqueness of the SP development plan, its consistency with national development priorities and the development strategy of the educational organization.			+	
9	9.	The university should demonstrate a clear definition of those responsible for business processes within the framework of the SP, an unambiguous distribution of the duties of the staff, and delimitation of the functions of collegial bodies.		+		
10	10.	SP management must provide evidence of the transparency of the educational program management system.		+		
11	11.	SP management must demonstrate the successful functioning of the internal quality assurance system of the SP, including its design, management and monitoring, their improvement, and decision-making based on facts.		+		
12	12.	SP management must manage risk.		+		
13	13.	SP management should ensure the participation of representatives of interested parties (employers, academic staff, students) in the collegial bodies of the educational program management, as well as their representativeness in making decisions on educational program management.		+		
14	14.	The university should demonstrate innovation management in the framework of the SP, including the analysis and implementation of		+		

		innovative proposals.				
15	15.	SP management should demonstrate evidence of openness and accessibility for students, faculty, employers and other interested parties		+		
16	16.	SP management must be trained in education management programs.		+		
17	17.	SP management should strive to ensure that the progress made since the last external quality assurance procedure was taken into account in preparation for the next procedure.		+		
		Total for standard	**0**	**16**	**1**	**0**
Standard "Information management and reporting"						
18	1.	The HEI should ensure the functioning of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software.		+		
19	2.	SP management must demonstrate the systematic use of processed, adequate information to improve the internal quality assurance system.		+		
20	3.	Within the framework of SP, there should be a system of regular reporting, reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the departments, and scientific research.		+		
21	4.	The HEI should establish the frequency, forms and methods of evaluating the management of SP, the activities of collegial bodies and structural units, senior management, and the implementation of scientific projects.		+		
22	5.	The HEI should demonstrate the definition of the order and ensuring the protection of information, including the definition of responsible persons for the accuracy and timeliness of the analysis of information and the provision of data.		+		
23	6.	An important factor is the involvement of students, workers and academic staff in the processes of collecting and analyzing information, as well as making decisions based on them.		+		
24	7.	SP management should demonstrate the existence of a communication mechanism with students, employees and other interested parties, including the existence of conflict resolution mechanisms.		+		
25	8.	The HEI should provide a measure of the degree of satisfaction of the needs of academic staff, personnel and students in the framework of the SP and demonstrate evidence of elimination of the discovered deficiencies.		+		
26	9.	The HEI should evaluate the effectiveness and efficiency of activities, including in the context of SP.		+		
		Information collected and analyzed by the HEI should take into account:				
27	10.	key performance indicators;		+		
28	11.	the dynamics of the contingent of students in the context of forms and types;		+		
29	12.	level of academic achievement, student achievement and expulsion;		+		
30	13.	students' satisfaction with the implementation of the academic program and the quality of education at the university;		+		
31	14.	the availability of educational resources and support systems for students;		+		
32	15.	employment and career growth of graduates.		+		
33	16.	Students, employees and academic staff must document their consent to the processing of personal data.		+		
34	17.	SP management should facilitate the provision of all necessary information in relevant fields of science.		+		
		Total for standard	**0**	**17**	**0**	**0**

Standard "Study program development and approval of the "						
35	1.	The university should determine and document the procedures for the development of SP and their approval at the institutional level.		+		
36	2.	SP management should ensure that developed SPs are consistent with established goals, including intended learning outcomes.		+		
37	3.	SP management should ensure the availability of developed models of the graduate of the SP that describe the learning outcomes and personal qualities.		+		
38	4.	SP management must demonstrate the conduct of external expert reviews.		+		
39	5.	The qualifications obtained upon completion of the SP must be clearly defined, explained and consistent with a certain level of science student group.	+			
40	6.	SP management should determine the impact of disciplines and professional practices on the formation of learning outcomes.		+		
41	7.	An important factor is the ability to prepare students for professional certification.		+		
42	8.	SP management must provide evidence of the participation of students, academic staff and other stakeholders in the development of SP, ensuring their quality.		+		
43	9.	The complexity of the SP should be clearly defined in Kazakhstan credits and ECTS.		+		
44	10.	SP management should ensure the content of academic disciplines and learning outcomes for the level of training (bachelor's, master's, doctoral).		+		
45	11.	The structure of the SP should provide for various types of activities corresponding to the learning outcomes.		+		
46	12.	An important factor is the presence of joint educational institutions with foreign educational organizations.			+	
		Total for standard	**1**	**10**	**1**	**0**
Standard "Continuous monitoring and periodic evaluation of SP"						
47	1.	The university should conduct monitoring and periodic assessment of the SP in order to ensure the achievement of the goal and meet the needs of students and society. The results of these processes are aimed at continuous improvement of the SP.		+		
		Monitoring and periodic assessment of SP should consider:				
48	2.	the content of the programs in the light of the latest achievements of science in a particular discipline to ensure the relevance of the taught discipline;		+		
49	3.	changes in the needs of society and the professional environment;		+		
50	4.	load, academic performance and graduation of students;		+		
51	5.	the effectiveness of student assessment procedures;		+		
52	6.	students' expectations, needs, and satisfaction with learning in SP;		+		
53	7.	educational environment and support services and their compliance with the goals of the SP.		+		

54	8.	The university and the SP management must provide evidence of the participation of students, employers and other stakeholders in the revision of the SP.		+		
55	9.	All interested parties should be informed of any planned or taken actions regarding the SP. All changes made to the SP should be published.		+		
56	10.	SP management should ensure that the content and structure of the SP are reviewed taking into account changes in the labor market, requirements of employers and the social request of the company.		+		
		Total for standard	**0**	**10**	**0**	**0**
Standard "Student-centered education, teaching and performance assessment"						
57	1.	SP management should ensure respect and attention to various groups of students and their needs, providing them with flexible learning paths.		+		
58	2.	SP management should ensure the use of various forms and methods of teaching and learning.		+		
59	3.	An important factor is the availability of our own research in the field of teaching methods of educational disciplines of SP.		+		
60	4.	SP management should demonstrate the existence of a feedback system for the use of various teaching methods and assessment of learning outcomes.		+		
61	5.	SP management should demonstrate support for students' autonomy while guiding and assisting the teacher.		+		
62	6.	SP management should demonstrate the existence of a procedure for responding to student complaints.		+		
63	7.	The HEI should ensure the consistency, transparency and objectivity of the mechanism for assessing learning outcomes for each SP, including the appeal.		+		
64	8.	The HEI should ensure that the procedures for evaluating the learning outcomes of students of SP study are in line with the planned learning outcomes and program objectives. Evaluation criteria and methods within the framework of the SP should be published in advance.		+		
65	9.	The HEI should determine the mechanisms for ensuring the mastery of each learning outcome by each graduate of the SP and ensure the completeness of their formation.		+		
66	10.	Evaluators must be proficient in modern methods of assessing learning outcomes and regularly improve their skills in this area.		+		
		Total for standard	**0**	**10**	**0**	**0**
Standard "Students"						
67	1.	The university should demonstrate a policy for the formation of the contingent of students from admission to graduation and ensure the transparency of its procedures. Procedures governing the life cycle of students (from admission to completion) must be defined, approved, published.		+		
68	2.	SP direction should demonstrate the implementation of special adaptation and support programs for newly arrived and foreign students.		+		
69	3.	The HEI must demonstrate the conformity of its actions to the Lisbon Recognition Convention.		+		
70	4.	The HEI should cooperate with other educational organizations		+		

		and national centers of the European Network of National Information Centers for Academic Recognition and Mobility / National Academic Recognition Information Centers ENIC / NARIC in order to ensure comparable recognition of qualifications.				
71	5.	SP management should demonstrate the existence and application of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal learning.		+		
72	6.	The HEI should provide an opportunity for external and internal mobility of students of SP, as well as assist them in obtaining external grants for training.		+		
73	7.	SP management should make every effort to provide students with places of practice, facilitate the employment of graduates, and maintain contact with them.		+		
74	8.	The HEI should provide graduates of the study program with documents confirming the qualifications obtained, including the results of training, as well as the context, content and status of the education and evidence of completion.		+		
75	9.	An important factor is monitoring the employment and professional activities of graduates of SP.		+		
76	10.	SP management should actively encourage students to self-education and development outside the main program (outside of educational activities).		+		
77	11.	An important factor is the presence of an existing alumni / association.			+	
78	12.	An important factor is the availability of a support mechanism for gifted students.		+		
		Total for standard	**0**	**11**	**1**	**0**
Standard "Academic staff"						
79	1.	The HEI should have an objective and transparent personnel policy, including hiring, professional growth and staff development, ensuring the professional competence of the entire staff.		+		
80	2.	The HEI should demonstrate the compliance of the staff potential of the academic staff with the development strategy of the university and the specifics of the academic program.		+		
81	3.	SP management should demonstrate awareness of responsibility for its employees and ensure favorable working conditions for them.		+		
82	4.	SP management should demonstrate a change in the role of the teacher in connection with the transition to student-centered learning.		+		
83	5.	The HEI should determine the contribution of academic staff to the implementation of the development strategy of the university, and other strategic documents.		+		
84	6.	The HEI should provide opportunities for career growth and professional development of academic staff.		+		
85	7.	SP management should involve practitioners in relevant industries in teaching.		+		
86	8.	SP management should provide targeted action to develop young teachers.		+		
87	9.	The HEI should demonstrate the motivation for the professional and personal development of teachers of SP,		+		

		including encouraging the integration of scientific activity and education, as well as the use of innovative teaching methods.				
88	10.	An important factor is the active use of academic staff of information and communication technologies in the educational process (for example, on-line training, e-portfolio, MOOC, etc.).		+		
89	11.	An important factor is the development of academic mobility in the framework of SP, the involvement of the best foreign and domestic teachers.			+	
90	12.	An important factor is the involvement of academic staff in public life (the role of academic staff in the education system, in the development of science, the region, the creation of a cultural environment, participation in exhibitions, creative contests, charity programs, etc.).		+		
		Total for standard	**0**	**11**	**1**	**0**
Standard "Educational recourses and student support system"						
91	1.	SP management must demonstrate the adequacy of material and technical resources and infrastructure.		+		
92	2.	SP management should demonstrate the existence of support procedures for various groups of students, including information and counseling.		+		
		SP management must demonstrate compliance of information resources with SP specifics, including compliance with:				
93	3.	technological support for students and faculty in accordance with educational programs (for example, online training, modeling, databases, data analysis programs);		+		
94	4.	library resources, including a fund of educational, methodological and scientific literature on general education, basic and majors in paper and electronic media, periodicals, access to scientific databases;		+		
95	5.	examination of the results of research, final works, dissertations on plagiarism;		+		
96	6.	Access to Educational Internet Resources		+		
97	7.	WI-FI functioning in the territory of the educational organization.		+		
98	8.	The HEI should strive to ensure that the educational equipment and software used to master the educational program are similar to those used in the relevant industries.		+		
99	9.	The HEI must ensure compliance with safety requirements in the learning process.		+		
100	10	The HEI should strive to take into account the needs of various groups of students in terms of SP (adults, workers, foreign students, as well as students with disabilities).		+		
		Total for standard	**0**	**10**	**0**	**0**
Standard "Public Awareness"						
		Information published by the HEI within the framework of the SP should be accurate, objective, relevant and should include:				
101	1.	ongoing programs indicating expected learning outcomes;		+		
102	2.	information about the possibility of qualification at the end of the SP;		+		
103	3.	information on teaching, training, assessment procedures;		+		

104	4.	information about passing grades and educational opportunities provided to students;		+		
105	5.	information on job opportunities for graduates.		+		
106	6.	SP management should use a variety of methods of disseminating information (including media, web resources, information networks, etc.) to inform the general public and interested parties.		+		
107	7.	Public awareness should include support and clarification of national development programs of the country and the system of higher and postgraduate education.		+		
108	8.	The HEI should publish audited financial statements on its own web resource.		+		
109	9.	The HEI should demonstrate the reflection on the web resource of information characterizing the university as a whole and in the context of SP.		+		
110	10.	An important factor is the availability of adequate and objective information about the academic staff, in terms of personalities.			+	
111	11.	An important factor is informing the public about cooperation and interaction with partners in the framework of SP, including scientific / consulting organizations, business partners, social partners and educational organizations.		+		
112	12.	The HEI should post information and links to external resources based on the results of external evaluation procedures.		+		
113	13.	An important factor is the participation of the university and implemented SPs in various external assessment procedures.		+		
		Total for standard	**0**	**12**	**1**	**0**
		Standards in the context of individual specialties.				
NATURAL SCIENCES, TECHNICAL SCIENCES AND TECHNOLOGIES						
		Educational programs in the areas of ***"Technical Sciences and Technologies", such as "Land Resources", "Software Engineering", "Land Cadastre and Real Estate Appraisal",*** *etc., must meet the following requirements:*				
114	1.	In order to familiarize students with the professional environment and relevant issues in the field of specialization, as well as to acquire skills based on theoretical training, the education program should include disciplines and activities aimed at gaining practical experience and skills in the specialty as a whole and majors in particular, in t .h .: - excursions to enterprises in the field of specialization (factories, workshops, research institutes, laboratories, educational experimental farms, etc.), - conducting individual classes or entire disciplines at the enterprise of specialization, - conducting seminars to solve practical problems relevant for enterprises in the field of specialization, etc.		+		
115	2.	The academic staff involved in the education program should include full-time teachers with long experience as full-time employees in enterprises in the field of specialization of the education program.		+		
116	3.	The content of all disciplines of the SP should be based to one degree or another and include a clear relationship with the content of the fundamental natural sciences, such as mathematics, chemistry, physics.		+		
117	4.	SP management should provide measures to strengthen practical training in the field of specialization.		+		
118	5.	SP management should provide training for students in the application of modern information technologies.	+			

Total for standard	**1**	**4**	**0**	**0**
TOTAL	**2**	**111**	**5**	**0**

(XI) Appendix 2. Evaluation table "SPECIALIZED PROFILE PARAMETERS" for SP 6B08511 Mechanization of production and processing of agricultural products, 7M07514 Metrology and metrological support in industry (2 years)

№	№	Criteria for evaluation	Education Organization Position			
			Strong	Satisfactory	Suggests improvement	Unsatisfactory
Standard " Study program management"				+		
1	1.	The university must have a published quality assurance policy.		+		
2	2.	Quality assurance policies should reflect the link between research, teaching and learning..		+		
3	3.	The university should demonstrate the development of a culture of quality assurance, including in the context of SP.		+		
4	4.	A commitment to quality assurance should apply to any activity carried out by contractors and partners (outsourcing), including in the implementation of joint / double degree education and academic mobility.		+		
5	5.	The SP management ensures transparency in the development of the SP development plan based on an analysis of its functioning, the real positioning of the university and its focus on meeting the needs of the state, employers, stakeholders and students.		+		
6	6.	SP management demonstrates the functioning of the mechanisms for forming and regularly reviewing the SP development plan and monitoring its implementation, assessing the achievement of learning objectives, meeting the needs of students, employers and society, making decisions aimed at continual improvement of SP.		+		
7	7.	SP management should involve representatives of stakeholder groups, including employers, students and faculty members, in the formation of the SP development plan.		+		
8	8.	SP management must demonstrate the individuality and uniqueness of the SP development plan, its consistency with national development priorities and the development strategy of the educational organization.			+	
9	9.	The university should demonstrate a clear definition of those responsible for business processes within the framework of the SP, an unambiguous distribution of the duties of the staff, and delimitation of the functions of collegial bodies.		+		
10	10.	SP management must provide evidence of the transparency of the educational program management system.		+		
11	11.	SP management must demonstrate the successful functioning of the internal quality assurance system of the SP, including its design, management and monitoring, their improvement, and decision-making based on facts.		+		
12	12.	SP management must manage risk.		+		
13	13.	SP management should ensure the participation of representatives of interested parties (employers, academic staff, students) in the collegial bodies of the educational program management, as well as their representativeness in making decisions on educational program management.		+		
14	14.	The university should demonstrate innovation management in the framework of the SP, including the analysis and implementation of		+		

		innovative proposals.				
15	15.	SP management should demonstrate evidence of openness and accessibility for students, faculty, employers and other interested parties.		+		
16	16.	SP management must be trained in education management programs.		+		
17	17.	SP management should strive to ensure that the progress made since the last external quality assurance procedure was taken into account in preparation for the next procedure.		+		
		Total for standard	**0**	**16**	**1**	**0**
Standard "Information management and reporting"						
18	1.	The university should ensure the functioning of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software.		+		
19	2.	SP management must demonstrate the systematic use of processed, adequate information to improve the internal quality assurance system.		+		
20	3.	Within the framework of SP, there should be a system of regular reporting, reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the departments and departments, and scientific research.		+		
21	4.	The university should establish the frequency, forms and methods of evaluating the management of SP, the activities of collegial bodies and structural units, senior management, implementation of scientific projects.		+		
22	5.	The university should demonstrate the definition of the order and ensuring the protection of information, including the definition of responsible persons for the accuracy and timeliness of the analysis of information and the provision of data.		+		
23	6.	An important factor is the involvement of students, workers and academic staff in the processes of collecting and analyzing information, as well as making decisions based on them.		+		
24	7.	SP management should demonstrate the existence of a communication mechanism with students, employees and other interested parties, including the existence of conflict resolution mechanisms.		+		
25	8.	The university should provide a measure of the degree of satisfaction of the needs of faculty, staff and students in the framework of the SP and demonstrate evidence of elimination of the discovered deficiencies.		+		
26	9.	The university should evaluate the effectiveness and efficiency of activities, including in the context of SP.		+		
		Information collected and analyzed by the university should take into account:				
27	10.	key performance indicators;		+		
28	11.	the dynamics of the contingent of students in the context of forms and types;		+		
29	12.	level of academic achievement, student achievement and expulsion;		+		
30	13.	students' satisfaction with the implementation of the academic program and the quality of education at the university;		+		
31	14.	the availability of educational resources and support systems for students;		+		
32	15.	employment and career growth of graduates..		+		
33	16.	Students, employees and faculty must document their consent to the processing of personal data..		+		
34	17.	SP management should facilitate the provision of all necessary information in relevant fields of science.		+		
		Total for standard	**0**	**17**	**0**	**0**
Standard " Study programs development and approval"						
35	1.	The university should determine and document the procedures for		+		

		the development of SP and their approval at the institutional level.				
36	2.	SP management should ensure that developed SPs are consistent with established goals, including intended learning outcomes.		+		
37	3.	SP management should ensure the availability of developed models of the graduate of the SP that describe the learning outcomes and personal qualities.		+		
38	4.	SP management must demonstrate the conduct of external expert reviews.		+		
39	5.	The qualifications obtained upon completion of the SP must be clearly defined, explained and consistent with a certain level of NSC		+		
40	6.	SP management should determine the impact of disciplines and professional practices on the formation of learning outcomes.		+		
41	7.	An important factor is the ability to prepare students for professional certification..		+		
42	8.	SP management must provide evidence of the participation of students, faculty and other stakeholders in the development of SP, ensuring their quality.		+		
43	9.	The complexity of the SP should be clearly defined in Kazakhstan loans and ECTS.		+		
44	10.	SP management should ensure the content of academic disciplines and learning outcomes for the level of training (bachelor's, master's, doctoral).		+		
45	11.	The structure of the SP should provide for various types of activities corresponding to the learning outcomes.		+		
46	12.	An important factor is the presence of joint educational institutions with foreign educational organizations.			+	
		Total for standard	**0**	**11**	**1**	**0**
Standard "Continuous monitoring and periodic evaluation of study programs"						
47	1.	The university should conduct monitoring and periodic assessment of the SP in order to ensure the achievement of the goal and meet the needs of students and society. The results of these processes are aimed at continuous improvement of the SP.		+		
		Monitoring and periodic assessment of SP should consider:				
48	2.	the content of the programs in the light of the latest achievements of science in a particular discipline to ensure the relevance of the taught discipline;			+	
49	3.	changes in the needs of society and the professional environment;		+		
50	4.	load, academic performance and graduation of students;		+		
51	5.	the effectiveness of student assessment procedures;		+		
52	6.	students' expectations, needs, and satisfaction with learning in SP;		+		
53	7.	educational environment and support services and their compliance with the goals of the SP.		+		
54	8.	The university and the SP management must provide evidence of the participation of students, employers and other stakeholders in the revision of the SP.		+		
55	9.	All interested parties should be informed of any planned or taken actions regarding the SP. All changes made to the SP should be published.		+		
56	10.	SP management should ensure that the content and structure of the SP are reviewed taking into account changes in the labor market, requirements of employers and the social request of the company.		+		
		Total for standard	**0**	**9**	**1**	**0**
Standard "Student-centered Learning, Teaching and Assessment"						
57	1.	SP management should ensure respect and attention to various groups of students and their needs, providing them with flexible learning paths.		+		
58	2.	SP management should ensure the use of various forms and methods of teaching and learning.		+		

59	3.	An important factor is the availability of our own research in the field of teaching methods of educational disciplines of SP.		+		
60	4.	SP management should demonstrate the existence of a feedback system for the use of various teaching methods and assessment of learning outcomes.		+		
61	5.	SP management should demonstrate support for students' autonomy while guiding and assisting the teacher.		+		
62	6.	SP management should demonstrate the existence of a procedure for responding to student complaints.		+		
63	7.	The HEI should ensure the consistency, transparency and objectivity of the mechanism for assessing learning outcomes for each SP, including the appeal.		+		
64	8.	The HEI should ensure that the procedures for evaluating the learning outcomes of students of SP study are in line with the planned learning outcomes and program objectives. Evaluation criteria and methods within the framework of the SP should be published in advance.		+		
65	9.	The HEI should determine the mechanisms for ensuring the mastery of each learning outcome by each graduate of the SP and ensure the completeness of their formation.		+		
66	10.	Evaluators must be proficient in modern methods of assessing learning outcomes and regularly improve their skills in this area.		+		
		Total for standard	**0**	**10**	**0**	**0**
Standard "Students"						
67	1.	The university should demonstrate a policy for the formation of the contingent of students from admission to graduation and ensure the transparency of its procedures. Procedures governing the life cycle of students (from admission to completion) must be defined, approved, published.		+		
68	2.	SP direction should demonstrate the implementation of special adaptation and support programs for newly arrived and foreign students.		+		
69	3.	The HEI must demonstrate the conformity of its actions to the Lisbon Recognition Convention.		+		
70	4.	The HEI should cooperate with other educational organizations and national centers of the European Network of National Information Centers for Academic Recognition and Mobility / National Academic Recognition Information Centers ENIC / NARIC in order to ensure comparable recognition of qualifications.		+		
71	5.	SP management should demonstrate the existence and application of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal learning.		+		
72	6.	The HEI should provide an opportunity for external and internal mobility of students of SP, as well as assist them in obtaining external grants for training.		+		
73	7.	SP management should make every effort to provide students with places of practice, facilitate the employment of graduates, and maintain contact with them.		+		
74	8.	The HEI should provide graduates of the study program with documents confirming the qualifications obtained, including the results of training, as well as the context, content and status of the education and evidence of completion.		+		
75	9.	An important factor is monitoring the employment and professional activities of graduates of SP.		+		
76	10.	SP management should actively encourage students to self-education and development outside the main program (outside of educational activities).		+		
77	11.	An important factor is the presence of an existing alumni / association.			+	
78	12.	An important factor is the availability of a support mechanism for		+		

		gifted students.				
		Total for standard	**0**	**11**	**1**	**0**
Standard "Academic staff"						
79	1.	The HEI should have an objective and transparent personnel policy, including hiring, professional growth and staff development, ensuring the professional competence of the entire staff.		+		
80	2.	The HEI should demonstrate the compliance of the staff potential of the academic staff with the development strategy of the university and the specifics of the academic program.		+		
81	3.	SP management should demonstrate awareness of responsibility for its employees and ensure favorable working conditions for them.		+		
82	4.	SP management should demonstrate a change in the role of the teacher in connection with the transition to student-centered learning.		+		
83	5.	The HEI should determine the contribution of academic staff to the implementation of the development strategy of the university, and other strategic documents.		+		
84	6.	The HEI should provide opportunities for career growth and professional development of academic staff.		+		
85	7.	SP management should involve practitioners in relevant industries in teaching.		+		
86	8.	SP management should provide targeted action to develop young teachers.		+		
87	9.	The HEI should demonstrate the motivation for the professional and personal development of teachers of SP, including encouraging the integration of scientific activity and education, as well as the use of innovative teaching methods.		+		
88	10.	An important factor is the active use of academic staff of information and communication technologies in the educational process (for example, on-line training, e-portfolio, MOOC, etc.).		+		
89	11.	An important factor is the development of academic mobility in the framework of SP, the involvement of the best foreign and domestic teachers.		+		
90	12.	An important factor is the involvement of academic staff in public life (the role of academic staff in the education system, in the development of science, the region, the creation of a cultural environment, participation in exhibitions, creative contests, charity programs, etc.).		+		
		Total for standard	**0**	**12**	**0**	**0**
Standard "Educational recourses and student support system"						
91	1.	SP management must demonstrate the adequacy of material and technical resources and infrastructure.		+		
92	2.	SP management should demonstrate the existence of support procedures for various groups of students, including information and counseling.		+		
		SP management must demonstrate compliance of information resources with SP specifics, including compliance with:				
93	3.	technological support for students and faculty in accordance with educational programs (for example, online training, modeling, databases, data analysis programs);		+		
94	4.	library resources, including a fund of educational, methodological and scientific literature on general education, basic and majors in paper and electronic media, periodicals, access to scientific databases;		+		
95	5.	examination of the results of research, final works, dissertations on plagiarism;		+		
96	6.	Access to Educational Internet Resources		+		
97	7.	WI-FI functioning in the territory of the educational organization.		+		
98	8.	The HEI should strive to ensure that the educational equipment and software used to master the educational program are similar to those		+		

		used in the relevant industries.				
99	9.	The HEI must ensure compliance with safety requirements in the learning process.		+		
100	10	The HEI should strive to take into account the needs of various groups of students in terms of SP (adults, workers, foreign students, as well as students with disabilities).		+		
		Total for standard	**0**	**10**	**0**	**0**
Standard "Public Awareness"						
		Information published by the HEI within the framework of the SP should be accurate, objective, relevant and should include:				
101	1.	ongoing programs indicating expected learning outcomes;		+		
102	2.	information about the possibility of qualification at the end of the SP;		+		
103	3.	information on teaching, training, assessment procedures;		+		
104	4.	information about passing grades and educational opportunities provided to students;		+		
105	5.	information on job opportunities for graduates.		+		
106	6.	SP management should use a variety of methods of disseminating information (including media, web resources, information networks, etc.) to inform the general public and interested parties.		+		
107	7.	Public awareness should include support and clarification of national development programs of the country and the system of higher and postgraduate education.		+		
108	8.	The HEI should publish audited financial statements on its own web resource.		+		
109	9.	The HEI should demonstrate the reflection on the web resource of information characterizing the university as a whole and in the context of SP.		+		
110	10.	An important factor is the availability of adequate and objective information about the academic staff, in terms of personalities.		+		
111	11.	An important factor is informing the public about cooperation and interaction with partners in the framework of SP, including scientific / consulting organizations, business partners, social partners and educational organizations.		+		
112	12.	The HEI should post information and links to external resources based on the results of external evaluation procedures.		+		
113	13.	An important factor is the participation of the university and implemented SPs in various external assessment procedures.		+		
		Total for standard	**0**	**13**	**0**	**0**
Standards in the context of individual specialties						
NATURAL SCIENCES, AGRICULTURAL SCIENCES, TECHNICAL SCIENCES AND TECHNOLOGIES						
		Educational programs in the areas of ***"Engineering and technology", such as "Mechanization of production and processing of agricultural products", "Metrology and metrological support in industry",*** *etc., must meet the following requirements:*				
114	1.	In order to familiarize students with the professional environment and relevant issues in the field of specialization, as well as to acquire skills based on theoretical training, the education program should include disciplines and activities aimed at gaining practical experience and skills in the specialty as a whole and majors in particular, in t .h .: - excursions to enterprises in the field of specialization (factories, workshops, research institutes, laboratories, educational experimental farms, etc.), - conducting individual classes or entire disciplines at the enterprise of specialization, - conducting seminars to solve practical problems relevant for enterprises in the field of specialization, etc.		+		
115	2.	The academic staff involved in the education program should include full-time teachers with long experience as full-time employees in	+			

		enterprises in the field of specialization of the education program.				
116	3.	The content of all disciplines of SP should be based to one degree or another and include a clear relationship with the content of fundamental natural sciences, such as mathematics, chemistry, physics		+		
117	4.	SP management should provide measures to strengthen practical training in the field of specialization.		+		
118	5.	SP management should provide training for students in the application of modern information technologies.		+		
		Total for standard	**1**	**4**	**0**	**0**
		TOTAL	**1**	**113**	**4**	**0**