

«Approved»
 Dean of the Faculty of Information
 Technologies
 NJSC «L.N. Gumilyov Eurasian National
 University»
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 «27» 02 2021

**Development plan of the educational program "7M06112 - Artificial Intelligence Technologies"
 for the years of 2021-2025**

№	Name of the strategic direction, goals and objectives	Measures to implement the strategic direction	Responsible persons	Expected results	Implementation period				
					2021	2022	2023	2024	2025
1	2	3	4	5					
Strategic direction 1. Science and innovation, commercialization and technology transfer "ENU - INNOVATION UNIVERSITY"									
Goal 1. Ensuring the competitiveness of scientific research and innovation results at the international level									
1.1	TASK 1.1. To improve the quality and effectiveness of scientific researches	Involvement of students in scientific and research works (SRW) under the guidance of leading scientists of the department within the framework of the implementation of scientific projects of grant funding for the scientific cluster «Mathematics and Information Technologies»	Head of the department. Persons responsible for the department's SRW, SRWM. Teaching staff	The increase in the proportion of masters involved in SRW	-	+	+	+	+

1	2	3	4	5	2021	2022	2023	2024	2025
1.2	TASK 1.1. To improve the quality and effectiveness of scientific researches	Organization of scientific clubs for students	Head of the department. Persons responsible for the department's SRW, SRWM. Teaching staff	The increase in the number of scientific clubs and conditions for choosing from the fields of interest and revealing the creative abilities of students. Improvement of the level of students training and acquisition of new competencies	-	+	+	+	+
1.3	TASK 1.1. To improve the quality and effectiveness of scientific researches	Participation of students in scientific conferences (university, national, international), competitions of scientific papers, in the presentation of the results of their own researches at scientific seminars of the department	Head of the department. Persons responsible for the department's SRW, SRWS. Teaching staff	The improvement of the level of students training and acquisition of new competencies	-	+	+	+	+
1.4	TASK 1.1. To improve the quality and effectiveness of scientific researches	Publications of students' research results in domestic and foreign scientific publications	Academic supervisors of students	The increase in the proportion of joint publications of teaching staff and students of the department	-	+	+	+	+

1	2	3	4	5	2021	2022	2023	2024	2025
1.5	TASK 1.3. To modernize and digitize the scientific infrastructure.	Expanding the practice of using the digital scientific platform (virtual laboratories, digital services of the university infrastructure, digitized databases of educational and scientific publications)	Head of the department. Teaching staff	The increase in the proportion of educational sessions and scientific researches carried out with the use of digital platforms	+	+	+	+	+
Goal 2. Increasing the contribution of science to the real economy sector									
1.6	TASK 2.2. To ensure the effectiveness of the activities of commercialization structures	Involvement of students in the development and commercialization of start-up projects of students, postgraduates and doctoral students, as well as in the implementation of SRW of the department with business structures and enterprises of the city and the country		The increase in the number of young specialists in the acceleration program of the Youth Business Incubator for the development, implementation of projects and subsequent entry into potential markets for goods and services	-	+	+	+	+
Strategic direction 2. Academic excellence “ENU - ACADEMIC EXCELLENCE UNIVERSITY”									
Goal 1: International orientation of educational programs and quality assurance of training personnel									
2.1	TASK 1.1. To ensure the quality of training personnel	Development and implementation of innovative technologies in the educational process, including distance learning technologies, creation of open online courses and educational resources in digital format	Head of the department. Persons responsible for the department's TMW (training and methodical work). Teaching staff	Placement of digital educational resources and massive online training courses (MOOCs) on the distance learning platform	+	+	+	+	+

1	2	3	4	5	2021	2022	2023	2024	2025
2.2	TASK 1.1. To ensure the quality of training personnel	Training teaching staff new directions in science and technology, with the possibility of obtaining international certificates, including professional certificates from IT vendors	Head of the department. Persons responsible for the advanced training of Teaching staff. Personnel Management Department	Professional development of teaching staff, certification of teaching staff	+	+	+	+	+
2.3	TASK 1.1. To ensure the quality of training personnel	Conducting competitions for filling vacant positions in the department, hiring based on competitive selection and an objective approach to assessing compliance with requirements on education, professional competencies of candidates, practical experience of employees	Head of the department. Personnel Management Department	Teaching staff that meets the qualification requirements for the implementation of educational activities on the Master's educational program in the field of ICT	+	+	+	+	+
2.4	TASK 1.2. To guarantee the quality of educational programs at the international and national level.	Involvement of academic experts from partner universities (Kazakhstani and foreign) in the examination of the educational program (EP), catalogues of disciplines and syllabuses of disciplines.	Head of the department. Persons responsible for the international cooperation. Persons responsible for the development of Educational programs in the department. Teaching staff	Harmonization of EP content with similar programs of the countries of Bologna process	+	+	+	+	+

1	2	3	4	5	2021	2022	2023	2024	2025
2.5	TASK 1.2. To guarantee the quality of educational programs at the international and national level.	Involvement of experts from the government organizations and companies and professional associations of the IT industry in the examination of the educational program, catalogs of disciplines and syllabuses of disciplines.	Head of the department. Persons responsible for the practice and employment of students, for the development of Educational programs in the department.	Harmonization of EP content with the National and Sectoral Qualifications Framework, Professional Standards and employers' recommendations	+	+	+	+	+
2.6	TASK 1.2. To guarantee the quality of educational programs at the international and national level.	Ensuring the quality of the educational program through compliance with internal standards and their recognition at the international level through certification and accreditation procedures in international specialized agencies	Head of the department . Working group on preparation for accreditation and audits.	Educational program that has passed the international accreditation and certification	+	+	+	+	+
2.7	TASK 1.2. To guarantee the quality of educational programs at the international and national level.	Ensuring the quality of the educational program through compliance with internal standards and their recognition at the republican level through participation in the national ratings (NCE “Atameken”, IAAR, etc.)	Head of the department . Working group on preparing information for Ratings	The results of the ratings of universities and EP	-	+	+	+	+

1	2	3	4	5	2021	2022	2023	2024	2025
2.8	TASK 1.2. To guarantee the quality of educational programs at the international and national level.	Participation of students in competitions, master classes, olympiads, certification courses held by the government organizations, IT companies in order to prepare graduates to confirm their qualifications and ensure their employment.	Head of the department. Persons responsible for SRWS and employment in the department	The increase of the portion of graduates who have confirmed their qualifications, employed in the first year after graduating from a higher educational institution on a state educational order	-	+	+	+	+
2.9	TASK 1.2. To guarantee the quality of educational programs at the international and national level.	Conducting a survey of students in order to determine the degree of satisfaction with the quality and content of the educational process	Department of education quality assessment	Updating and adjusting the content of the EP, catalogs of disciplines, syllabuses of disciplines, teaching methods based on the analysis of masters survey results	+	+	+	+	+
Strategic direction 3. Internationalization and increasing international competitiveness “ENU - INTERNATIONAL UNIVERSITY”									
Goal 1. Internationalization of scientific and educational activities									
3.1	TASK 1.2. To ensure the development of academic and managerial resources based on the international cooperation.	Attracting foreign scientists and teachers to lecture on the disciplines of the educational program, including from the world's leading universities (TOP-200)	Head of the department. Person responsible for the international cooperation in the department. Teaching staff	The increase in the portion of foreign professors	-	+	+	+	+


1	2	3	4	5	2021	2022	2023	2024	2025
3.2	TASK 1.2. To ensure the development of academic and managerial resources based on the international cooperation.	Training of competitive personnel in the international labor market: increasing the academic mobility of teaching staff and students, opening multilingual groups	Head of the department. Person responsible for the international cooperation in the department. Teaching staff	The increase in the number of lecturers teaching in English, the number of disciplines taught in English, the number of masters studying in English	-	+	+	+	+
3.3	Strategic direction 4. Creation and modernization of the ecosystem for students and teachers “ENU - DIGITAL UNIVERSITY”								
	GOAL 1. Modernization of the infrastructure ecosystem of the university								
4.1	TASK 1.1. To create a safe and comfortable environment for students	Formation and expansion of the modern educational and laboratory base for the implementation of the educational process and SRW in compliance with sanitary and epidemiological standards, equipping classrooms with multimedia equipment	IT Department. Head of the department. Educational Support Personnel of the Department	The increase in the number of specialized training laboratories and computer classrooms	+	+	+	+	+
4.2	TASK 1.1. To create a safe and comfortable environment for students	Providing support to students in the provision of places for collective use (openspaces, co-working sites, etc.), removing barriers to meet basic educational needs for inclusive education.	Head of the department. Curators of Academic groups	The increase in the portion of students satisfied with the conditions of study and living	+	+	+	+	+

1	2	3	4	5	2021	2022	2023	2024	2025
Goal 2. Creating digital ecosystem									
4.3	TASK 2.3 . To create an intelligent learning system Smart.Learning.ENU	To use the smart learning system Smart.Learning.ENU for an individual educational trajectory of students of all levels using LMS, smart MOOCs, digital library and intelligent assessment of learning outcomes.	Head of the department. Teaching staff	The increase in the number of electronic resources (including intelligent MOOCs introduced into the educational process). The improvement of the effectiveness of learning outcomes assessment	+	+	+	+	+

The development plan of the educational program “7M06112 - Artificial Intelligence Technologies” was developed according to the development strategy of the NJSC “L.N. Gumilyov ENU” for the years of 2021-2025, Development Strategy of the Faculty of Information Technologies until 2024, Development Strategy of the Department of Information Security until 2025.

Considered at a meeting of the Department of Information Security, Record No. 6.1 « 18 » 01 2021

Approved by the Council of the Faculty of IT, Record No 7 « 17 » 02 2021

Head of the Department of Information Security  Satybalдина D.Zh. « 15 » 02 2021