Analytical justification

Information about the educational program. The educational program "Computer software and automated systems" based on the State Educational Standard of the Republic of Kazakhstan, approved by the Government of the Republic of Kazakhstan on August 23, 2012 No. 1080 (amended on 01.09.2018) and implemented by the department Computer equipment and software »In the preparation of bachelors and masters in the specialties 5B070400 - Computers and Software and 6M070400 - Computers and Software gram software.

The educational program for undergraduate and graduate programs specially designed in accordance with the national qualifications framework for the industry in accordance with the Dublin descriptors and the European Qualifications Framework.

Information about students. Educational program calculates the bachelors on a specialty "5B070400 - Computers and Software" bilingual education (in Kazakh and Russian languages).

Currently, the specialty "5B070400 - Computing and the Software" are trained 431 students, of which the state language - 220, and in Russian - 211 students. In general grant - 127, on a contractual basis - 304 students.

Specialty "6M070400 - Computing and software" trained 26 graduate students. On educational graduate direction trained - 10 (2 contract basis) of core area (1 year) - 7; on the core area (1.5 years) - 9 undergraduates.

The main goals and objectives of the development plan of OP with timelines and stages of its implementation

The purpose of the development plan of the educational program is to improve the content of an educational program with the formation of professional competencies for personnel in engineering and technology, improving the competitiveness of Kazakhstan's society.

№	Name of task	Development timeline	Stages of development
1	Improve and perfect conditions for high-grade, high-quality vocational education.	The entire training period	Development of measures to improve educational services for skills development
2	Carrying update the content of educational programs, which form the basic professional competence of bachelors and masters majoring Computer Science and Software Engineering.	The entire training period	When updating the content of educational programs include the discipline recommended by employers

3	The creation of prerequisites for self-exploration research activities of students in the framework of the research projects	The entire training period	Inclusion of search and research and experimental work in the study of educational programs
4	Development of measures for the development of work with scientific and technical information using domestic and foreign experience in professional work	The entire training period	Event Analysis and processing of the results
5	Organization of the consultation of employers and academic research institutes in the selection of relevant and practically important fact theses, master's theses	End of study at the undergraduate and master's degree at the beginning of training	Establishment of a list of relevant and practically important fact, given the employers' proposals
6	The annual observance of the survey of employers to identify actual problems of training for the modern labor market.	The entire training period	Event Analysis and processing of the results

An action plan for the development of OP

№	Activity	Deadlines	responsible
1	Formation of the commission to develop a plan for development of educational programs specialty "Computers and Software"	April	Head of Department., Staff of the department
2	Developing goals and objectives of the educational program development plan for the specialty "Computers and Software"	May June	Head of Department., Staff of the department
3	Updating and improving the content of educational programs, including the introduction of elective courses that meet the current state of science and education, aimed at improving the development of the scope of future professional activity	Annually	Head of Department., Staff of the department, employers
4	Improve dual training for the	Annually	Head of

	creation of additional opportunities to improve the effectiveness of training in the field of engineering and technology staff		Department., Staff of the department, employers
5	The development of joint educational programs with leading IT universities and abroad for integration into the international educational space	Annually	Head of Department., Staff of the department
6	Creating a group of authors for the production of educational materials in English, Kazakh languages	Annually	Head of Department., Staff of the department
7	Annual development of academic mobility of students and teachers	Annually	Head of Department., Staff of the department
8	Targeted training of the teaching staff (doctors PhD, postdoctoral) in leading IT universities of far abroad	Annually	Head of Department., Staff of the department
9	Organization of training and research practices to students in graduate programs in advanced IT universities and research institutes and abroad	Annually	Head of Department., Staff of the department

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