

SPECIFICS OF EDUCATIONAL PROGRAMS FOR "Computer Science and Software"

The education program "Computer Science and Automatic Systems" is developed according to the standards of bachelor specialties 5B070400 "Computing and software" and Master's 6M070400 "Computer Science and software".

The education program regulates objectives, expected results, content, conditions and technologies of the educational process, and also evaluation of the quality of students and graduates.

A key element of the education program is competence of graduates formed as a result of the studying this program, expressed in graduate model.

Thus, in our understanding, the graduate model is a system of personality traits of a specialist, i.e. university graduates. It is the goal and the ideal representation of the result of activity of the educational system.

That model of a graduate is the basis for forming the content of the educational program.

Potential employers and managers of the enterprises considering own interests are actively involved in the development of educational programs and in the formation of catalogs of elective subjects.

Educational programs developed within credit system allows adequate assessing the levels, academic degrees of education sector of Kazakhstan, makes them clear and recognizable as one of the main conditions for entry into the world educational space.

Master students study on the basis of individual work plan. Individual plans of undergraduates are prepared under the direction of the supervisor. All managers are PhD doctors actively engaged in research.

Educational programs include a component for preparation for professional work, developing key skills. The curriculum provides practices as described above.

The department has extensive ties for professional practices - «National Information Technology», «KazMunayGaz-Services», «ARTASoftWARE», «Kazakhstan GaryshSapary», Kazakhmys Corporation, «ASTEL» etc. A detailed list of practice bases listed in Appendix 7. Collaboration with these companies continues during employment of graduates of the educational program.

Collaboration between teachers and students in the practice allows monitoring of their professional competence. In accordance with the existing rules the students having practiced at the enterprises have to make reports at the Department, which consider the recommendations of the head and gives the final assessment.

The educational program is aimed at multi-level system of higher education: Bachelor – Master – PhD. Each level is independent.

The next level is the master's program that gives the double-diploma education. In accordance with the agreement on double diploma education with Siberian State University of Telecommunications and Informatics (Novosibirsk, Russia) undergraduates pass exams of SIBSUTI and defense of master's thesis

takes place in our university. This year undergraduate Dyuzhev E. received 2 diplomas - Kazakh and Russian.

One of the conditions for the successful implementation of EP is the use of innovative teaching methods. The development and use of innovative methods of teaching process, information technologies have great importance. Ways of improving the existing data base of innovative methods and teaching aids are considered at faculty meetings and other collective management bodies. Experience in delivering the most relevant and effective methods becomes an object of exchange between teachers through demonstration and open classes and recorded in the journals of integrated attendance of teachers and recognized in terms of educational and methodical work of the department. The results of some researches are introduced in teaching.

For example, such researches as "Development of new information technologies is then integrated into the process of education of RK" (Suleimenova R. Z.), "Development of distance learning system using modern multimedia" (Omarbekova A.S.) have been introduced.

In general, the specificity of the educational program meets the criteria of specialized accreditation.

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