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| Educational program | 6B06102 Information systems |
| EP purpose | The training of qualified specialists who know high-performance methods of information processing and who know how to apply their knowledge in the field of information systems with practical skills and leadership qualities that meet modern requirements for the quality of specialists with higher education |
| EP type | Acting |
| Level on NQF | 6 |
| Level on SQF | 6 |
| The awarded academic degree | Вachelor |
| Period of study | 4 |
| Volume of the credits | 240 |
| Language of education | Kazakh, Russian, English |
| Date of approval of the OP at the Board meeting | 10.04.2024 |
| Professional standard | Software testing, System analysis in information and communication technologies,  System and network administration 05.12.2022 |

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| № | Learning outcomes: |
| 1 | Modify existing software to correct errors, adapt to new hardware, update interfaces and improve performance. |
| 2 | Have the ability to evaluate and apply research methods and innovative approaches to understanding socially significant social phenomena and processes in legal, economic, entrepreneurial, industrial, environmental, cultural environments and anti-corruption policy. |
| 3 | To know modern models, methods and technologies of database management and design of information systems |
| 4 | To be able to build mathematical and physical models, set mathematical and physical problems, conduct high-quality mathematical and physical research, develop practical recommendations based on the analysis carried out |
| 5 | Knows the basic fundamentals of the development of software specifications, typical methods for designing algorithms, and the basic techniques for designing them; owns the means and programming environment, modern programming technologies |
| 6 | Possess the skills of planning, design, implementation and operation of telecommunication networks and systems, their technical, informational and software support |
| 7 | To use computer technologies in the field of design, development, diagnostics of cybernetic, intelligent robotic systems and complexes for industrial and research purposes |
| 8 | To use the skills of professional knowledge in the field of computer science, information technology, information security and data protection |
| 9 | To apply various types of information and communication technologies in professional activity: Internet resources, cloud and mobile services for the search, storage, processing, protection and dissemination of information |
| 10 | To speak a foreign language at the level of social and professional communication, applies special vocabulary and professional terminology of the language |
| 11 | Analyzes own and foreign experience in the development and implementation of information systems, interacts with experts in other subject areas in the design and development of information systems |