6В06140-«Mathematical and computer modeling» Objectives and learning outcomes of the undergraduate program

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| Purpose of the EP | Learning outcomes |
| Is to train highly qualified and in-demand specialists in the fields of information communication technologies and mathematical, computer modeling | **LO1** Communicate freely in the professional environment and society in Kazakh, Russian and English, taking into account the principles of academic writing and the culture of academic honesty.  **LO2** Apply natural science, mathematical, social, socio-economic and engineering knowledge in professional activities, methods of mathematical data processing, scientific and experimental research, regulatory documents and elements of economic analysis.  **LO3** Analyze and summarize information when building models, setting goals and choosing ways to achieve it  **LO4** Determine, classify, evaluate and obtain the necessary data in the process of mathematical and computer modeling  **LO5** Manage information processes, test, operate and maintain hardware and software systems  **LO6** Develop mathematical models in various fields with innovative approaches to achieve specific results in mathematical and computer modeling  **LO7** Plan and conduct experimental research, process data with the interpretation of the results obtained on the basis of modern modeling methods and computer technologies  **LO8** Develop components of mathematical and computer models, ensuring corporate interests and adherence to corporate ethics  **LO9** Create projects by using the resources of mathematical and computer models with a preliminary feasibility study of design calculations  **LO10** Design and administer databases in a modern way.  **LO11** Lead a healthy lifestyle, apply the ability of self-learning and self-education throughout life  **LO12** To be able to work effectively individually and as a team member, to defend one's point of view correctly |