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| Educational program | 6В01515 Biology (IP) |
| EP purpose | Training a qualified biology teacher who is able to use innovative technologies, including STEM-, CLIL-, IT-technologies in professional activities, possessing pedagogical and subject competencies in the field of conceptual and theoretical knowledge, conducting scientific research and applying them in science |
| EP type | Innovative |
| Level on NQF | 6 |
| Level on SQF | 6 |
| The awarded academic degree | Bachelor |
| Period of study | 4 |
| Volume of the credits | 240 |
| Language of education | Kazakh, Russian |
| Date of approval of the OP at the Board meeting | 10.04.2024 |
| Professional standard | Pedagog 15.12.2022 |

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| № | Learning outcomes: |

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| 1 | to develop own moral and civic position, acting in accordance with the social, business, cultural, legal and ethical standards of the Kazakh society, using the foundations of socio-political, economic and legal knowledge, demonstrating personal and professional competitiveness |
| 2 | to assess situations in various areas of interpersonal, social and professional communication in oral and written forms in the state, russian and foreign languages using analytical and critical thinking to develop language competencies |
| 3 | to use various types of information and communication technologies, modern methods of processing and synthesizing information in the field of scientific and pedagogical research |
| 4 | to focus on a healthy lifestyle to ensure the sustainable development of society and nature, full-fledged social and professional activities |
| 5 | to develop and apply methods of teaching, education, assessment in various types of educational environment, taking into account the principles of student-centered, competence-based, inclusive approaches |
| 6 | to carry out the choice of methodology and analysis for planning, conducting, collecting and processing data from laboratory and field studies |
| 7 | to build professional relationships for constructive pedagogical and social activities, own pedagogical development and well-being |
| 8 | to integrate knowledge of related sciences necessary for everyday professional activities and the formation of functional literacy of students |
| 9 | to use conceptual theories and laws of natural sciences to explain patterns, phenomena and processes in nature, to form a holistic view of the natural science picture of the world |
| 10 | to use the fundamental basics of biology and modern trends in its development, knowledge about the diversity and functioning of biological systems, their vast variety and evolution |
| 11 | to analyze the level organization of wildlife, the biological nature and social essence of a person, to demonstrate a scientific worldview, environmental and genetic literacy |
| 12 | to create and offer solutions to non-standard problems, to model and carry out biological and pedagogical research using the skills of academic writing, the principles of academic honesty |