



**SATBAYEV
UNIVERSITY**

**K. Turysov Institute of Geology and Oil and Gas Engineering
Department of Hydrogeology, Engineering and Petroleum Geology**

**EDUCATIONAL PROGRAM
6B08601 Water resources and water use**

Code and classification of the field of education: 6B08 Agriculture and bioresources.

Code and classification of training areas: 6B08601-Water resources and water use

Group of educational programs: B082 – Water resources and water use.

NQF level: 6

ORK level: 6

Duration of study: 4

Volume credits: 240

Almaty 2025






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 “KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY NAMED AFTER K.I.
 Educational program 6B08601 Water Resources and Water Use approved at the
 meeting of the Academic Council of KazNITU named after K.I. Satpayev .

Protocol No. 10 of “06” 03_2025


Reviewed and recommended for approval at a meeting of the Educational
 and Methodological Council of KazNITU named after K.I. Satpayev .

Protocol No. 3 of “20” 12_2025

Educational program 6B08601 Water Resources and Water Use
 developed by the academic committee for the field of Water Resources and Water
 Use

Full name	Academic degree/ academic title	Job title	Place of work	Signature
Chairman of the Academic Committee:				
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General information

№.	Field name	Note
1	Code and classification of the field of education	6B08 Agriculture and bioresources
2	Code and classification of training areas	6B08601 Water resources and water use
3	Group of educational programs	B082 Water resources and water use
4	Name of the educational program	6B08601 Water resources and water use
5	Brief description of the educational program	Water resources and water use is a science that studies the origins of modern water management policy. The objectives are the basic methods and principles of the integrated use of water resources, their current state and the most complete and economically feasible satisfaction of the needs of water users and consumers , taking into account the preservation of nature and the protection of water from pollution and depletion.
6	The purpose of the OP	The goal of the "Water Resources and Water Use" educational program is to train highly qualified, competitive specialists in water resource management and use , including groundwater resources, as well as in the design and operation of water management systems and structures. The program culminates in a Bachelor of Agriculture degree. To prepare qualified bachelors capable of solving problems in the field of water resources management and focused on solving professional issues of rational use, distribution, and management of water resources based on fundamental knowledge in accordance with the requirements of national and international standards.
7	Type of OP	production and technological; organizational and managerial; experimental research : calculation, design and analytical
8	Level according to the National Qualification Test	6
9	Level according to the ORK	6
10	Distinctive features of the OP	The most important feature of the object of research on the environmental principles of nature conservation and rational use of natural resources, the prospects for the creation of non-destructive technologies, the latest discoveries in natural science, the prospects for their use in the construction of technical devices, the methodology of environmental justification of engineering projects, methods of designing and calculating hydraulic and hydroelectric structures, the principles of the layout of hydraulic structures, the principles of using water energy, rules for the technical operation of hydraulic structures, methods for obtaining and processing information on the state of the environment and engineering facilities, basic laws of environmental

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		<p>protection, laws and rules for the use of water and land resources.</p> <p>At the moment, the specialty of water resources and water use is in demand more than ever, given in the field of design, construction and operation of water management, irrigation and drainage and hydropower facilities.</p>
11	Form of study	full-time
12	Duration of study	4 years
13	Volume of loans	240
14	Languages of instruction	Russian, Kazakh, English
15	Awarded academic degree	Bachelor of engineering and technology
16	Developer(s) and authors:	Absametov M.K., Auelkhan E.S., Tasbolat A.R.