

Teaching subjects

Name of the discipline	The summary of the discipline
Bachelor's program	
1 Organization and technology of irrigation and drainage works	<p>This discipline forms the students' skills, qualifications and knowledge in solving the problems of selecting highly mechanized technologies and organizing construction and repair works and reconstructing irrigational and meliorative systems in accordance with the direction profile. It learns the basics:</p> <ul style="list-style-type: none"> • technical and technological requirements, predyavlemyh to Soils and Other Construction materials; • Organization and technology of earthworks; • The organization of concrete and reinforced concrete, special works and technological processes of their production by means of mechanisms; • organization and technology of production of works in the construction of hydraulic engineering and land reclamation facilities: bank protection, distribution, rail overlooking the taking, collecting in large Channels and Channels rivers; • modern achievements of science and technology development, foreign and Replucian Advanced Experience by Construction and Repair that can provide perfect the work water management and meliorative facilities; • Improvement of quality indicators.
2 Hydrotechnical works. Organization, planning and management of water management.	<p>The purpose of the discipline is the acquisition by students, who study in the bachelor's degree, of extensive theoretical knowledge and practical skills in the field of hydraulic engineering: the technical and technological requirements imposed on soils and building materials; Organization and technology of excavation work; Organization and technology of production of concrete, reinforced concrete and special works by means of machines and mechanisms; Organization and technologies of construction of canals, culverts, water catchments, distribution and other water management structures; Application of advanced methods of construction production, use of modern technologies in hydraulic engineering construction, application of foreign technologies in hydraulic engineering construction and reconstruction of water management facilities; Improving the quality and productivity of work; Shortening of the terms of construction of facilities; Calculation of estimates for construction.</p>

3	Integrated mechanization of irrigation and reclamation works	<p>This discipline teaches students:</p> <ul style="list-style-type: none"> • Requirements imposed on the complex mechanized technological processes, to the materials used, to modern meliorative, construction and special machines, to replaceable working bodies; • Organization of works and technologies of construction, repair and cleaning of open, closed, lined networks of irrigation and drainage systems; • Organization of integrated mechanized work processes in the construction of drip, sprinkler, underground irrigation networks; • Organization of production of a complex mechanized method of laser technology for capital, current, operational planning of irrigated lands; • Integrated mechanization of loading, transportation, unloading of construction cargo in works on irrigation and melioration systems; • Drafting of the organization and technology of complex repair works on irrigated lands; • Determination of the composition of the park of meliorative and construction machines; • Ensuring quality at the level of modern requirements, with a reduction in the cost of work through optimization of the use of the fleet of vehicles; • Introduces Achievements scientific - technical of progress and from foreign experience.
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Master's program

1	Organization and management of land reclamation and construction works	<p>This discipline studies the organization of the process of land reclamation, complex repair and reconstruction, protection of land, the introduction of advanced manufacturing, technological processes, construction works on the basis of the use of modern machinery-mechanisms, building materials and equipment.</p>
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