Program name	Information systems and technologies 09.03.02
Key facts	Code and direction of training: 09.03.02 «Information systems and technologies» Orientation (profile) of training/specialization: 09.03.02.13 «Information systems and technologies in hydropower industry» Institute (department) implementing the EP HE: Sayano-Shushensky Branch of the Siberian Federal University, Fundamental Training Chair
Program length	4 years
Starting date	September, 1st
Language of instruction	Russian language (some disciplines are taught in English)
Prerequisites	- Persons having a documented secondary or specialized secondary education are accepted to master the program. - As the results of entrance tests, the results of the Unified State Exams or the results of entrance tests conducted by the university independently are accepted for certain categories of citizens or persons with secondary vocational or higher education. - The maximum number of points for each subject is 100; the minimum number of points required for admission to university is determined annually (up-to-date information on the official website). - Subject entrance tests in order of priority: - Physics/ Computer Science and ICT - Mathematics - Russian language
Tuition fee per year	Fee-paying places – 146 132 RUB (~ 1,953 USD)
Program leader/team	Developers of the EP HE: Chernenko Elena Alexandrovna, Associate Professor, Candidate of Technical Sciences, head of Fundamental Training Chair, Sayano-Shushensky Branch of the Siberian Federal University Yusypov Timur Maratovich, Deputy Director, Chief Engineer of the Sayano-Shushenskaya HPP named after PS Neporozhny, PJSC RusHydro's branch
Qualification	Bachelor degree program in the field of training 09.03.02 Information systems and technologies, profile 09.03.02.13 Information systems and technologies in hydropower industry
Skills/ objectives	1. Production and technological activities: development and implementation of technologies of professional activity objects in the fields of: mechanical engineering, instrumentation, engineering, education, medicine, administrative management, law, business, entrepreneurship, commerce, management, banking systems, information systems security, process control, mechanics, technical physics, energy, nuclear power, power electronics, metallurgy, construction, transport, railway transport, communications, telecommunications, info communication management, postal communications, chemical industry, agriculture, textile and light industry, food industry, medical and biotechnology, mining, security, underground businesses and industries, Geology, oil and gas, geodesy and cartography, geographic information systems, forestry, chemical-forest complex, ecology, field service, media, design, media industries, and companies of various profile and all kinds of activities in the economy of information society. 2. Organizational and management activities: - organization of workplaces, their technical equipment, placement of computer equipment;

	· assessment of the total cost of ownership of information systems; · assessment of production and non-production costs to ensure the quality of the design object; · organization of quality control of input information. Design activities: · pre-project survey (engineering) of the design object, system analysis of the subject area, their relationships; · technical design (reengineering); · working design; · selection of source data for design; · modeling of processes and systems; · calculation of the provision of safe living conditions; · calculation of economic efficiency; · development, approval and release of all types of project documentation; · design of basic and applied information technologies; · development of tools for implementing information technologies (methodological, informational, mathematical, algorithmic, technical and software); · development of computer-aided design tools for information technologies. Areas of professional activity and areas in which graduates can solve the problems of professional activity: 06 communication and information technologies (in the field of research, design, implementation and maintenance of information technologies and systems) and 20 electric power industry (in the fields of power and electrical engineering). Profile: Information systems and technologies in hydropower industry.
Curriculum	Computer Science, Computer Systems, Networks and Telecommunications, Philosophy of Information Civilization, Discrete Mathematics, Electrical Engineering, Electronics and Systems Engineering, Databases, Intelligent Decision Support Systems, Information Systems Design, Information Security and Information Protection, Introduction to Engineering, Career in the company, Computer-aided Design (ACAD) Basics, Programming Languages and Systems, Regulatory framework in the field of IT, Programming, HPP Technological processes, Database management Systems, Integrated information security of automated HPP systems, Information systems at energy enterprises, Corporate information systems, Systems theory and system analysis, Architecture of computer systems, Fundamentals of mathematical modeling, Fundamentals of Accounting.
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