

Code and title of specialty (direction): 161 “Chemical technology and Engineering”

Title of specialization:

Code and title of the field of knowledge: 16 “Chemical and bioengineering”

Qualification: *bachelor of chemical technology and engineering*

Number of credits: 240

Grade of higher education: the first (Bachelor), corresponds to the sixth qualification level of Ukrainian National Framework of Qualifications.

Requirements to the previous education grade: a person has the right to obtain a bachelor's degree, provided that he has completed general secondary education or education in the educational program of a junior bachelor in the corresponding specialty. Provided that the previous degree was obtained in another country, it requires nostrification.

Qualification requirements: the higher education document is issued to a person who had successfully completed the educational program and was certified. Graduation certification is carried out by assessing the degree of competence formation. Form of attestation – State exam preparation and public defense of a Bachelor’s thesis.

Program study results: to use conceptual knowledge, including knowledge of modern achievements, to solve complicated unpredictable tasks and problems of the industry; to use theories, principles, methods and concepts of general engineering sciences in studying and professional activity; to collect and interpret information and choose methods and tools for professional problems solving; to apply innovative approaches for professional problems solving; to inform specialists and non-specialists of information, ideas, problems, decisions and own experience in the field of professional activity; to manage complex actions or projects; to form a communication strategy; use a foreign language at a professional level; to be responsible for the professional development of individuals and / or groups of persons; to be responsible for making decisions in unpredictable conditions; to study with a high level of autonomy. Technological professional activity: to apply the obtained knowledge in practical situations, to have an understanding of the subject area and profession, to use information and communication technologies, to know and to use in practice the safety rules, to demonstrate the desire to the environment preserve, to demonstrate knowledge and understanding of the basic facts, concepts, principles and theories relating to chemistry and chemical technology, to interpret data obtained from laboratory observations and measurements. Organizational professional activities: to recognize and implement scientific knowledge in the measuring practice, knowledge of another language for providing the opportunity to communicate and submit documents, to process data related to chemical information, and carry out informational research work of primary and secondary information sources, including information search systems with the help of on-line searching, to carry out calculations, which include errors analysis, evaluation accuracy, to use correctly measurement units, to possess basic knowledge of proper laboratory practice and quality assurance of the experiment results. Management professional activity: to plan the components of technological and organizational activity; to monitor the components of technological and organizational activities; to improve the components of technological and organizational activities.

Employment competences: Bachelor of specialty 161 “Chemical technology and engineering” can hold positions in companies, industrial enterprises and institutes: technologist, technician, technician-laboratory assistant (chemical and physical research), laboratory assistant (chemical and physical research), laboratory technician (chemical production).

Further study perspective: Bachelor of specialty 161 “Chemical technology and engineering” can continue to study at the master educational-qualification level in the fields: 16 "Chemical and bioengineering", 18 "Production and technologies", 10 "Natural sciences" (specialty 101 “Ecology”, 102 “Chemistry”).

Department graduating a student with degree: department of chemical engineering and ecology.

Institute / Faculty: faculty of engineering.
Educational program supervisor:
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Kudryavtsev

S.O.,