

**Code and title of specialty (direction):** 015.04 “Vocational Education (Industrial Engineering)”.

**Title of specialization:** Industrial Engineering.

**Code and title of the field of knowledge:** 0101 “Teacher education”.

**Qualification:** Bachelor of Vocational Education (Industrial Engineering).

**Number of credits:** 240 ECTS credits.

**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 – public defense of a graduate thesis.

**Program study results:** Future specialists have: to demonstrate knowledge of the basics and history of vocational education and engineering-pedagogical education, to express clearly and logically the acquired basic knowledge, to evaluate new information and interpretations of this knowledge context, to demonstrate the theory understanding and to be able to implement critical analysis methods.

To know the computer science and modern information technologies; to be able to use software and computer networking skills, to be able to create databases and use Internet resources. To know the variety of light industry equipment and consumer services; to possess methods of description, identification, classification within the Universal Decimal Classification (UDC) and the International Patent Classification (IPC); to know about the principles of structural and functional organization of mechanical and technological systems and machines of light industry and consumer services. To be able to apply basic methods of machines structural analysis; kinematic analysis methods of technological machines; to perform metric (geometric) synthesis of machines' target mechanisms. To be able to perform mechatronics maintenance for industry machines cycle control, to have the skills of mechatronics applying for machines and mechanical - technological systems automation; computer numerical control skills (CNC type) for industry machines; to know the basics of the IEC 61131-3 standard, research standards and Ukraine legislation in the field of industrial engineering. To be able to organize work according to the life safety requirements. Business communications knowledge in the professional field, knowledge of the business communication basics, teamwork skills. To be able to use professionally-profiled knowledge for metric synthesis in the new machines designing and the existing ones improvement, to determine the physical and mechanical properties of materials and semi-finished products that are processed on machines and apparatus of light industry and consumer services. To be able to use professionally-profiled knowledge in the field of structural and kinematic analysis of mechanisms and machines, the basics of calculations and design of typical industry machines and mechanisms.

**Employment competences:** Bachelor of Direction 015.04 “Vocational Education (Industrial Engineering)” can take the positions of vocational school teacher in the field of mechanical engineering, vocational school teacher, industrial training instructor, industrial training master, training center master, teacher, technician, industrial practice head, training laboratory head, head of a workshop, labor teacher, vocational training teacher in the field of mechanical engineering, senior laboratory technician of the educational process, engineering technologist, engineering technician, engineering designer, production engineering department manager.

**Further study perspective:** Bachelor of Vocational Education (Industrial Engineering)

can continue his education at the qualification level specialist 015.01 “Vocational Education. Computer Technologies” and master 015.10 “Vocational Education. Computer Technologies”, 011.01 “Higher Education Pedagogy”.

**Department graduating a student with degree:** Department of Pedagogy, Department of Mechanical Engineering and Applied Mechanics.

**Institute / Faculty:** faculty of humanities, psychology and pedagogy.

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