

# **EDUCATIONAL AND PROFESSIONAL PROGRAM DESCRIPTION**

## **Branch of knowledge 13 – Mechanical engineering**

### **Specialty 131 – Applied Mechanics**

#### **Educational program - Engineering of welding and related processes**

#### **(first (bachelor) level of higher education)**

Educational qualification "Bachelor of Applied Mechanics"

Availability of accreditation. Ministry of Education and Science of Ukraine

Accreditation certificate: UD series No. 15008139

The certificate is valid until July 1, 2024

The educational program is aimed at the formation of modern engineering thinking in students, the ability to use scientific methods of analysis of welding problems and related processes, and the skills of making effective technical decisions.

The purpose of the educational program is to train specialists with knowledge of welding production technologies, equipment, systems and complexes; software and computer technologies in welding and related processes.

Tasks of the educational program:

- the ability to use progressive methods of scientific research of engineering and technical systems;
- the ability to solve engineering and technical problems with the help of modern information technologies and software products;
- the ability to justify and implement engineering and technical projects;
- the ability to build models of engineering and technical systems and search for solutions to scientific and technical issues based on them;
- the ability to analyze and predict technical and technological risks, to implement measures to reduce them;
- the ability to reason in front of an audience.

**Keywords:** welding technologies, related technological processes, product manufacturing technologies, software and computer technologies in welding and related processes.