



PASSPORT OF THE EDUCATIONAL PROGRAM

• 7M05301 - Chemistry

OBJECTIVES OF THE EDUCATIONAL PROGRAM

Preparation of highly qualified, competitive specialists with in-depth, systematic theoretical knowledge and practical skills in fundamental and relevant areas of chemistry, capable of self-development and implementation in research, analytical and pedagogical activities

FIELD OF PROFESSIONAL ACTIVITY

research institutes, research centers, research laboratories, design and design bureaus, firms and companies; higher educational institutions, state educational institutions and educational enterprises, as well as non-governmental educational organizations

LEARNING OUTCOMES (LO)

- LO1** – professionally and critically assesses strategic external and internal factors correctly *set* natural science tasks that affect the scientific and pedagogical process;
- LO2** – *have* the skills of theoretical and methodological analysis, is able to use forecasting and planning methods in practice, and is also able to synthesize knowledge in the specialty and interdisciplinary knowledge to solve research and practical problems;
- LO3** – *summarize* fundamental research and scientific and practical innovative developments aimed at the systematic solution of problems in various fields of education;
- LO4** – *understands* industry, regional, national and global issues in the context of integrated chemical research and adapt to changing environmental conditions and make management decisions in the face of diverse opinions;
- LO5** – knows the techniques of computer modeling and methods of theoretical analysis of the results of scientific research;
- LO6** – can scientifically interpret trends in the development of chemical science, taking into account the development of scientific and technological progress, international practice;
- LO7** – understands new conceptual ideas and directions of development of pedagogical science in the context of the modern paradigm of education;
- LO8** – *have* an innovative style of scientific and pedagogical thinking and a holistic perception of pedagogical reality.