

## **THE GRADUATE MODEL OF THE MASTER OF EDUCATION IN THE EDUCATIONAL PROGRAM 7M01505 – CHEMISTRY**

The graduate model involves constant work on their skills, lifelong learning, and fulfilling the teacher's social mission to society. Our graduates are ready specialists to predict the rapidly changing needs of modern students.

### **Graduate Model**

1. Demonstrates the need to understand the main aspects of management psychology; own management growth prospects, demonstrates proficiency in a foreign language in interpersonal communication, professional and scientific activities;
2. Analyzes the current problems of reforming higher education taking into account modern requirements, models the educational process taking into account the complex of pedagogical, psychological and methodological knowledge, rationally organize pedagogical work and research using modern innovative technologies of teaching chemistry;
3. Formulates modern problems and tasks of scientific research in the field of inorganic, analytical, colloidal, physical chemistry and educational technologies, choosing methods and means of solving the tasks set;
4. Is able to apply modern methods and information technologies for the organization of educational activities in the field of chemistry;
5. Applies his professional knowledge and skills to solve specific theoretical and applied problems using fundamental and modern knowledge and methodology of physico-chemical research to develop new approaches to the study of substances and materials and improve existing ones;
6. Explains the mechanism of the chemical processes of organic and inorganic synthesis, analyzes the influence of static and dynamic reaction factors to assess the transition states of the chemical process, the reactivity of molecules;
7. Conducts independent scientific and experimental research, draws conclusions and solutions on the problem under study.