

REVIEW

of the educational-professional program "Applied Mathematics"
for the training of bachelors in specialty F1 Applied Mathematics
at Odesa I. I. Mechnikov National University

The educational-professional program "Applied Mathematics" for the training of higher education applicants at the first (bachelor's) level in the specialty F1 Applied Mathematics, within the field of knowledge F Information Technologies, is developed in accordance with the requirements of current regulations on bachelor training, including the Higher Education Standard and the National Qualifications Framework. Leading specialists in the field of applied mathematics from the Faculty of Mathematics, Physics, and Information Technologies at Odesa I. I. Mechnikov National University, students enrolled in the program, and its graduates participated in the development and updating of the educational-professional program.

The program considers the specific features of bachelor training in accordance with the needs of the IT market for highly qualified professionals capable of solving practical problems using mathematical methods, and possessing systems and analytical thinking.

"Applied Mathematics" program is oriented toward training professionals—mathematicians and analysts—capable of working in any applied field, as well as software engineers, data analysts, data scientists and ML/AI engineers, aligning with current industry and business needs.

The achievement of the program's goals and content orientation is ensured through educational components, divided into mandatory and elective parts. The curriculum components are structured to develop general and specialized (professional) competencies and the corresponding program learning outcomes.

At the same time, when evaluating the educational program overall, it should be noted that it would be advisable to expand cooperation with IT companies, particularly by updating and modernizing the topics of course and qualification works.

In general, the "Applied Mathematics" educational program of the first (bachelor's) level of higher education in the specialty F1 "Applied Mathematics" within the field of knowledge F "Information Technologies" at Odesa I. I. Mechnikov National University, meets established requirements and is capable of providing higher education seekers with a fundamental education in the form of in-depth theoretical and practical knowledge, skills, and abilities in the specialty F1 "Applied Mathematics". These are sufficient for the effective fulfillment of future professional tasks in the fields of mathematical modeling and information technologies, and therefore, the program can be recommended for use in the university's educational process.

Founder

08.04.2025

 Roman Kovalevych