

Fundamental and Applied Chemistry (together with TIBOH FEB RAS and IC FEB RAS)

Far Eastern Federal University

Degree or qualification is awarded: **Bachelor**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **4 years**

Availability of free education: **yes**

Price: **210 000 rubles per year**

Programme webpage at the university website:

https://www.dvfu.ru/upload/medialibrary/596/yneu032ukdmvatiat572pwsitmc5v8xv/%D0%9F%D0%B0%D1%81%D0%BF%D0%BE%D1%80%D1%82%20%D0%9E%D0%9F%2004.03.01_%D0%A4%D1%83%D0%BD%D0%B4%D0%B0%D0%BC%D0%B5%D0%BD%D1%82%D0%B0%D0%BB%D1%8C%D0%BD%D0%B0%D1%8F%20%D1%85%D0%B8%D0%BC%D0%B8%D1%8F_2022.pdf

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The program is aimed at developing the ability of graduates to make scientifically based decisions in conditions of uncertainty when performing professional tasks. The tasks are to prepare for the solution of professional tasks in accordance with types of professional activity. Research activity: performing auxiliary professional functions (preparation of research objects, selection of technical means and test methods, conducting experimental studies according to a given methodology, processing experimental results, preparation of a report on the work performed). Technological activity: performing professional functions in industries economics related to chemistry (management of chemical high-tech equipment, work with information systems, preparation of reports on work performed). Pedagogical activity: preparation of educational materials and conducting theoretical and laboratory classes in educational institutions of general, secondary vocational and additional education.

Key disciplines of the program:

Inorganic Chemistry; Crystal chemistry; Analytical chemistry; Physical Chemistry; The structure of matter with the basics of quantum chemistry and quantum mechanics; Organic chemistry; Chemical foundations of biological processes; High-molecular compounds; Methods of teaching chemistry at school; Chemical technology; Methodology of scientific research and their statistical processing; Modern problems of colloidal chemistry; Chemical examination of the object; Synthesis and study of coordination compounds; Sorption processes; Physico-chemical methods of analysis; Separation and concentration methods in chemical analysis; Theoretical electrochemistry; Metrological support of analytical work in chemistry; Chromatography; Chemistry of heterocyclic compounds; Computer modeling of properties of chemical compounds; Genetics and molecular Biology; Low molecular weight bioregulators and their biological activity; Biochemistry.

Partners involved in the implementation of the program:

FSDIS Pacific Institute of Bioorganic Chemistry named after G.B. Elyakov FEB RAS; FSDIS Institute of Chemistry FEB RAS.

Specializations within this programme