Mathematical Logic, Algebra, and Number Theory

Far Eastern Federal University

Degree or qualification is awarded: **Candidate of Sciences**

Language of study: **Russian**
Mode of study: **full-time**
Duration: **4 years**
Availability of free education: **yes**
Price: **305 000 rub per year**

Programme webpage at the university website:
https://www.dvfu.ru/upload/medialibrary/a06/%D0%9F%D0%B5%D1%80%D0%B5%D1%87%D0%B5%D0%BD%D1%8C%20%D0%BF%D1%80%D0%BE%D0%B3%D1%80%D0%B0%D0%BC%D0%BC%20%D0%B0%D1%81%D0%BF%D0%B8%D1%80%D0%B0%D0%BD%D1%82%D1%83%D1%80%D1%8B,%20%D0%BE%D0%B1%D1%8A%D1%8F%D0%B2%D0%BB%D0%B5%D0%BD%D0%BD%D1%8B%D1%85%20%D0%B2%20%D0%BD%D0%B0%D0%B1%D0%BE%D1%80%202020%20%D0%B3%D0%BE%D0%B4%D0%B0.pdf

Programme curator: **Artem Grachev**
Tel.: **+74232652424 (#2206)**
E-mail: interadmission@dvfu.ru

The purpose of the educational program is to acquire the necessary level of competence for professional activity and prepare for the defense of a scientific qualification work (dissertation) for the degree of candidate of Sciences.
The main tasks of training a graduate student in the profile "Mathematical logic, Algebra, and Number theory" are:
in-depth study of the theoretical and methodological foundations of fundamental mathematics in the field of mathematical logic, algebra and number theory;
improving philosophical training, focused on understanding the philosophical foundations of mathematics;
improving knowledge of a foreign language for working with foreign mathematical literature, publishing articles and presenting reports in English;
the formation of skills in independent research activities;
the formation of systematized knowledge, abilities and skills in the field of methods of teaching mathematics.
The objects of professional activity are concepts, theorems, physical and mathematical models, numerical algorithms and programs, methods of experimental research of models based on fundamental algebraic and number-theoretic theories.
Types of professional activities that graduates who have completed the postgraduate program are preparing for:
research activities in the field of fundamental and applied mathematics, mechanics, natural sciences;
teaching activities in the field of mathematics, mechanics, computer science.
A graduate who has completed the postgraduate program is ready for research activities in the specialty "Mathematical logic, algebra and number theory". The specialty includes works containing research in the following areas:
model theory;
universal algebra,
algebra,
mathematical logic.
Specialists of this profile are in demand in research institutes of Russia (Institute of Applied Mathematics of the Far East Branch of the Russian Academy of Science; St. Petersburg Department of Steklov Mathematical Institute of Russian Academy of Sciences, Sobolev Institute of Mathematics of the Siberian Branch of the Russian Academy of Science) and abroad, as well as at universities of federal level.
The relevance of this direction of training for world science is also confirmed by the annual international conferences on model theory, algebra and mathematical logic (The International Conference «Mal'tsev Meeting», International Conference on Algebra, Analysis and Geometry, and others).

Specializations within this programme