

Post-graduate Studies in Mathematics and  
Computer Science  
Proposed by the Institute of Mathematics and  
Computer Science of the Academy of Sciences of  
the Republic of Moldova

## 1 Institute

At the Institute of Mathematics and Computer Science 39 doctors of science and 13 doctors habilitat of science do research in the field of mathematics and computer science. The training of post-graduate students has been one of their most important activities. Researchers and post-graduate students of the institute defended 210 doctor theses and 24 doctor habilitat theses, many of them now work at universities and research institutes in the Republic of Moldova and other countries.

The institute also contributed to providing doctors of science for Algeria, Bulgaria, Germany, Syria, USA, Tadjikistan, Ukraine, Uzbekistan, Vietnam. The institute has two specialized scientific councils for conferring the academic degrees of doctor of science and doctor habilitat of science in mathematics and computer science. Scientific results of researchers of the institute are published in various specialized journals world wide and in two journals issued by the institute: "Buletinul Academiei de Științe a Republicii Moldova. Matematica" and "Computer Science Journal of Moldova". These two journals are distributed in more than 160 scientific centers and universities of 48 countries.

The institute of Mathematics and Computer Science is situated in Chișinău, the capital of the Republic of Moldova, which is in South-Eastern Europe and belongs to countries of the Basin of the Black Sea. Chișinău is the main scientific, educational and cultural center of Moldova and one of the oldest and most important cities of the country. It has a long history, more of than 560 years, its population amounts to about 1 million. In Chișinău there are 30 universities and 15 centers of culture and arts. Chișinău has air communications with many countries of the world via various airline companies.

## 2 Post-graduate studies

The institute of Mathematics and Computer Science offers each year post-graduate studies for 25 persons, from university graduates, in the following fields:

- Mathematical analysis;
- Differential equations (Invariant methods in qualitative theory of differential equations, group analysis),
- Mathematical logic, algebra and number theory (Topological algebra, algorithmic problems of expressibility in propositional logics, structural theory of rings and modules, quasigroup theory);
- Mathematical cybernetics (Optimization, graph theory);
- Mechanics of deformable solids (Elasticity theory, mathematical modeling and computational experiment in mechanics of deformable solid);
- Mechanics of fluid, gas and plasma (Mathematical modeling in gas dynamics);
- Software (Theoretical bases of computer science, artificial intelligence, programming systems, natural languages, simulation systems);
- Operations research, Decision Support Systems, Mathematical modeling

## 3 Admission to post-graduate study

An applicant may be admitted to the post-graduate study after passing 2 examinations on the base of a contract. The duration of a post-graduate course is 3 years. An applicant may take examination during a year. The cost of a year of a post-graduate course is \$2000 USA.

Applications to post-graduate study may be submitted, as a rule, by September

1. An applicant must show the aptitude for research.

For more information please contact to:

**World Wide Web:** [www.math.md](http://www.math.md) and

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