

Mathematical Support and Software for Computers and Computer Networks

National Research Tomsk State University

Degree or qualification is awarded: **Master's degree**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **no**

Price: **196 700 RUB per year**

Programme webpage at the university website: <http://www.fpmk.tsu.ru/node/819>

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It is intended for students with Computer Science or Electrical and Computer Engineering undergraduate degrees who wish to pursue careers in operations, services, development, and research in the networking and IT industry. It addresses the needs of the networking industry in North Carolina, and, as such, it is consistent with the land-grant mission of the University. This is an exciting program that offers a wide variety of technical courses in computer networking, and optionally management courses, for a truly unique educational opportunity.

Students who complete this program will be able to demonstrate:

- Advanced knowledge of computer language theory, software design, as well as data bases, networks, or security.
- Proficiency in algorithms, operating systems, computer language usage, software development, and the management of data, networks, or security.
- Competence sufficient to investigate continually emerging new software technologies, applications, and approaches.
- Advanced knowledge of data communication protocols and networks; of issues involved in multi-access media, including wired and wireless; performance analysis of networks; and management of large networks.
- Proficiency in data communication protocols and networks, including error control and flow control, distributed synchronization, error detection and correction, and forwarding and techniques to implement it.
- Competence sufficient to design, specify, and develop data transfer protocols for specific purposes; design, specify, plan, and define networks of any size; and analyze, evaluate, and select network technologies.

Admission

Admission to the program is carried out on a competitive basis following the results of admission tests: an entrance examination and an interview.

Specializations within this programme