Applied Computer Science in the Field of Information

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: **223 700 Rub per year**

Programme webpage at the university website: http://fit.tsu.ru/

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The goals of the present Master's programme is to equip students with all necessery skills and knowledge for implementation of the following projects:

- developing software, databases, and systems of software and hardware;
- modeling information systems, development and implementation of projects integrating information systems in accordance with current quality standards;
- selection and transformation of mathematical models of phenomena, processes and systems for their effective implementation in software and hardware;
- development of the algorithms, mathematical models, methods, computer technologies and decision support systems in research and engineering activities, in managing technological, economic, social systems and in humanitarian fields.
- development of modern platforms for native mobile apps and web-based applications;
- development, modernization and operation of automated information systems,
- methods of information security for mobile devices.

Programme contents

Key Disciplines include Technology Management, Assessment of Intellectual Property, Methods and Decision-making systems, IT Project Management, Design and development of mobile applications, Modern Mobile Platforms, Design and Development of Web-based applications, Big Data in IT, IT Infrastructure Management, Cloud Technologies and Services, Java-programming, Version Control Systems, Technology of Distributed Computing, Principles of Object-Oriented Programming, Commercialization of Information Technology, Promotion of Information Products on Market, Security of Information Systems, Information-analytical and search engines.

The students can continue their education as PhD students.

Admissions

Only students with a higher educational diploma may submit application for this programme. The students shall be enrolled on a competitive basis according to the results of entrance examinations (it includes Applied Computer Science and interview).

Specializations within this programme