IT Innovations in Business

Ural Federal University named after the first President of Russia B.N. Yeltsin

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

Language of study: **English**
Mode of study: **full-time**
Duration: **2 years**
Availability of free education: **no**
Price: **255 100 per year; 189 600 per year as discounts apply.**

Programme webpage at the university website:
https://urfu.ru/en/international/programs-and-courses/master-programs-in-english/it-innovations-in-business/

Programme curator:
Tel.:
E-mail: admission@urfu.ru

Study period: 2 years

Area of Studies: Computer Science and Computer Technologies

Subject: Applied Informatics

Code: 09.04.03

Credits: 120 ECTS

Language of instruction: English

Heads of the program:

- Prof. Dmitry Berg, D.Sc. of Physics and Mathematics, Professor of Academic Department of Systems Analysis and Decision Making
- Marina Medvedeva, PhD, Head of Academic Department of Systems Analysis and Decision Making

Entry requirements: 4-year Bachelor's degree (or equivalent)

Modern business and information management areas strongly need experts who are able to:

1. Use modern information and communication technologies (ICT).
2. Determine the policy of an enterprise or organization in the field of information systems IS and ICT.
3. Ensure the development of joint strategic and ICT enterprise plan.
4. Create the information models of business processes and determine the IS composition and functions.
5. Make rational decisions on the integration of separate information systems.

Program goal: The purpose of the master's program is to train highly qualified managers of IT services of enterprises and state institutions, as well as leading consultants and project managers of IT-companies. The program trains potential owners of businesses based on use of innovations in information technologies.

Curriculum:

Spring

- Mathematical Modeling
- Development of Web Applications
- E-business. Part 1
- Data analysis
- Analysis and Design of Information Systems for Business

- Modeling and optimization of business processes

Autumn

- Foreign Language/Russian language
- Theory of decision making
- Security of systems and applications
- Virtual Systems
- Innovations in Business and IT
- Web technologies in business
- E-business. Part 2
- Data Warehouse and OLAP-systems
- Intelligent Agents and Multi-Agent Systems
- Corporate Networks
- Management of Software Development
- Computational methods of content management
- Information management and data storage
- Management of Large Scale Social Networks

[Download Modules Descriptions (.docx)](#)
[Download Educational Trajectories Chart (.xls)](#)

Final examination: Master's thesis defense

Program's highlights:

1. The educational process is based on the implementation of a real project to create a new product or system for business.

Students themselves choose a real project at the first year of a master's degree or continue to promote and accompany a project developed in the bachelor's degree.

When studying the modules of curriculum, the interdisciplinary projects are fulfilled, which are the part of a real project, where students show the skills of applying the knowledge of individual disciplines for the development of their business project.

In the process of passing through all stages of the project, students understand what they want to do: business analytics, data analysis, web design, corporate systems support, marketing, including social networking, programming, or, having studied all stages of the project, be managers of IT projects.

In the intermediate stages of the implementation of the projects, the experts from employers participate in the results assessment, who are not only assessing the work of students, but, first of all, helping to promote the project as practitioners.

2. Students choose only those professional modules that they need for professional development, and which are really useful in working life.

3. The main modules of the curriculum are read on the programs of corporate partners, and this make it possible, upon completion of their studies, to obtain a professional certificate for creating a portfolio, giving a competitive advantage in employment.

4. All masters are guaranteed employment in the scientific structures of the university or at the department for the performance of scientific and teaching activities.

Career opportunities:
This program graduates are qualified for careers in economic, financial, marketing, production and analytical services in different industries, areas and forms of ownership, institutions and organizations, including financial, credit and insurance institutions, municipal authorities and government, academic and institutional research organizations.

Possibilities for continuing scientific training

Graduates of the subject 09.04.03 "Applied informatics" are prepared to continue education as postgraduate students of the next subjects: 05.13.01 System analysis, management and information processing (in computer science, computer facilities and automation), 05.13.18 Mathematical Modeling, Numerical Methods and Program Complexes, 08.00.13 Mathematical and Instrumental Methods of Economics.

Contacts:
Student Recruitment and Admission Managers
admission@urfu.ru

Specializations within this programme