

**BUSINESS CARD**  
**MAIN PROFESSIONAL EDUCATIONAL PROGRAM**  
**HIGHER EDUCATION - BACHELOR'S PROGRAMS**  
**DIRECTION OF TRAINING: 02.03.03 SOFTWARE AND ADMINISTRATION OF**  
**INFORMATION SYSTEMS**  
**PROFILE: DEVELOPMENT AND ADMINISTRATION OF INFORMATION SYSTEMS**  
**ENROLLMENT OF 2022**

**LEADERS**  
**BASIC PROFESSIONAL EDUCATIONAL PROGRAM - BACHELOR LEVEL**



**Starikov Evgeny  
Nikolaevich**

**Position:** Head of the Department of Chess Art and Computer Mathematics  
**Academic degree:** Candidate of Economic Sciences  
**Academic title:** Associate Professor  
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**Efimov Konstantin  
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**Position:** Associate Professor of the Department of Chess Art and Computer Mathematics  
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**Voronov Mikhail  
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**Position:** Associate Professor of the Department of Chess Art and Computer Mathematics  
**Academic degree:** Candidate of technical sciences  
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**PROFILE CHARACTERISTIC**

The profile "Development and administration of information systems" is aimed at training highly qualified bachelors with knowledge, professional competencies, abilities in the design, development, implementation and operation of computer technology and information systems, and management of their life cycle.

In their activities, graduates solve the following professional tasks:

- development of new areas and methods of using computer technology and automated systems in information systems and networks;
- design, development and administration of information systems and networks;
- application of modern mathematical apparatus in the creation and operation of information systems;
- organization of work related to the creation and application of software for information systems;
- maintenance and administration of information systems and networks;
- development of concepts and technical specifications for information systems, mathematical modeling of information processes and systems;
- ensuring information security of databases and information systems.

Graduates work as system administrators, developers and analysts of information systems, programmers, as well as leaders of development teams, heads of departments and computer support services, etc.

**WHY TO US?**

- Successful mastering of the program opens up access to a number of the most demanded, prestigious and highly paid professions.
- Information technology is a dynamically developing type of activity, which receives increased attention from different sides (business, government and public organizations), graduates of the direction "Mathematical support and administration of information systems" have a high level of adaptability, constantly improve their personal level and professional competencies, are in demand for labor market.
- Activities in the field of IT are multifaceted, it allows people with different abilities, interests and preferences to achieve success.
- The department provides students with additional opportunities to study foreign languages, participate in research and project activities, undergo educational and industrial practices in the leading IT companies of the Ural Federal District, form an individual learning path through the student's choice of special disciplines.

- Training is carried out by highly qualified teachers with practical experience and recognized by the scientific community, whose work has been repeatedly awarded the Prize of the Governor of the Sverdlovsk Region.
- The department maintains close contacts with the Sverdlovsk Regional Chess Federation. Former world chess champion A.E. Karpov takes an active part in the activities of the Department of Chess Art and Computer Mathematics.

scientific director of the department

The scientific director of the Department of Chess Art and Computer Mathematics is **Anatoly Evgenievich Karpov**, the twelfth world chess champion (1975-1985), Deputy of the State Duma of the Federal Assembly of the Russian Federation.

### FAMOUS TEACHERS

**Valery Grigorievich Labunets** Professor of the Department of Chess Art and Computer Mathematics, Doctor of Sciences, Professor, Laureate of the Governor of the Sverdlovsk Region Prize in the field of information technologies in 2020 in the nomination "For Outstanding Contribution to the Development of Scientific Research in the Field of Information Technology", full member of the A. M. Prokhorov. From 1988 to 2000 he was in charge of the Department of Automation and Information Technologies of USTU-UPI. 1998 to 1999 he worked as the dean of the radio engineering faculty of USTU-UPI. From 1999 to 2002 - Scientific Director of the Computer Vision Department of the International Laboratory for Digital Signal Processing (Tampere International Center for Signal Processing - TICSP, Tampere University & NOKIA, Finland). From 2003 to 2005 - scientific director of the American corporation "EnerSoft" on the development of image processing software for advanced telecommunication and information systems. He was repeatedly invited to the leading foreign universities to give lectures. More than 10 times he has won RFBR grants in the field of informatics and computer technology. Author of over 140 scientific publications, 16 monographs and 12 textbooks. Has more than 20 certificates of state registration of computer programs and databases.

**Chasovskikh Viktor Petrovich**, Professor of the Department of Chess Art and Computer Mathematics, Doctor of Sciences, Professor, Twice laureate of the Governor of the Sverdlovsk Region Prize in the field of information technology in 2020 and 2015 in the nomination "For Outstanding Contribution to the Development of Scientific Research in the Field of Information Technology", Honored Worker of Higher Education RF, Academician of the Russian Academy of Engineering Sciences. A.M. Prokhorova, Academician of the Russian Academy of Natural Sciences, full member of the European Academy of Natural History. From 1995 to 2019 he was the director of the Institute of Economics and Management, 1992 to 2020 headed the Department of Applied Informatics of the Ural State Forestry University. For 15 years, he participated in the project of the Ministry of Education and Science of the Russian Federation "OASU of the Ministry of Higher Education" and "standard automated control system of the university". He was the scientific supervisor of the "ASOD ORION" project for the machine-building enterprises of the defense complex. Awarded with the Certificate of Honor of the Ministry of Higher Education of the Russian Federation; the badge "Honorary Worker of Higher Professional Education of Russia". The RAE Presidium conferred the honorary title "Honored Worker of Science and Education" and the honorary title "Founder of the Scientific School"; RAE awarded the badge "Golden Department of Russia" (for lecturer skills and achievements in the development of education in Russia); laureate of the Professor A.S. Popova; Awarded the gold medal of A.S. Popov. Author of over 280 scientific publications, 14 monographs and 15 textbooks. Has more than 70 certificates of state registration of computer programs and databases.

### COMPETENCES OF THE GRADUATE

**As a result of mastering the program, the graduate will be able to:**

- analyze the problems and directions of development of programming technologies;
- apply modern mathematical apparatus associated with the design, development, implementation and quality assessment of software products and software systems in various fields of human activity;
- apply modern information technologies, including domestic ones, when creating software products and software systems for various purposes;
- design and manufacture a software product, as well as know the principles of construction, structure and methods of working with tools that support the creation of software;
- use methods of system modeling in research and design of software systems;
- simulate applied processes and subject area;
- develop an information security policy, exercise control and audit of the security system at the level of the database, information system and network;
- choose the architecture and integration of modern computers, systems, complexes and networks of system administration;
- use modern system information technologies and tools in the creation and administration of information systems.

### AREA OF PROFESSIONAL ACTIVITY

- Business structures, in particular IT companies, banks, insurance companies, industrial enterprises.
- Bodies of state power and local self-government, state and municipal organizations, management.
- Research centers, design and research and production organizations, educational institutions, budgetary institutions of the public sector, public organizations.

### STRATEGIC PARTNERS

- SKB "Kontur";
- LLC "Company Tandem";
- LLC "Corus Service";
- NPO "Sapphire" company;
- LLC "Octonica";
- LLC "Sima-land";

### FORMS OF INTERACTION

- conducting lectures, seminars using modern multimedia technologies;
- coordination of FQP topics, certification;
- organization of educational and industrial practice for students and teachers;
- implementation of joint research projects;

<ul style="list-style-type: none"> <li>• Chess Federation of the Sverdlovsk Region;</li> <li>• Sverdlovsk regional branch of the "Union of Russian Mechanical Engineers";</li> <li>• Union of Defense Industry Enterprises of the Sverdlovsk Region;</li> <li>• JSC "Production Association" Ural Optical and Mechanical Plant "named after E.S. Yalamov ";</li> <li>• JSC "Scientific and Production Association of Automation named after Academician N. A. Semikhatov ";</li> <li>• JSC "Scientific and Production Corporation" Uralvagonzavod "them. F. E. Dzerzhinsky ";</li> <li>• PJSC "Machine-building plant named after MI Kalinin";</li> <li>• Institute of Mathematics and Mechanics, Ural Branch of the Russian Academy of Sciences;</li> <li>• Institute of Economics, Ural Branch of the Russian Academy of Sciences;</li> <li>• and others.</li> </ul>	<ul style="list-style-type: none"> <li>• holding days of "open doors" at enterprises;</li> <li>• participation of employees of enterprises in the teaching activities of the department;</li> <li>• implementation of career guidance activities;</li> <li>• participation in solving specific applied problems at the enterprises of the industry;</li> <li>• participation in the work of the USUE Chess Club.</li> </ul>
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**Department of Chess Art and Computer Mathematics**

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