**Program name**  
Bachelor degree program 09.03.01.30 “Informatics and Computer Science”

**Key facts**  
The bachelor program "Informatics and Computer Engineering" provides training in the field of electronic instrumentation, information and telecommunications technology, as well as advanced programming technique for computing systems and networks. In the course of training, students acquire skills that allow them to implement at a high professional level the full cycle of design, development and maintenance of information and computing systems.

Training methods and teaching materials used in the program implementation have been developed in close cooperation with a number of leading universities in Russia and Europe on the base of the best domestic and foreign practices. Our team has over fifty years of experience in engineering education, including on the international CDIO initiative.

<table>
<thead>
<tr>
<th>Program length</th>
<th>4 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starting date</td>
<td>September, 1st</td>
</tr>
<tr>
<td>Language of instruction</td>
<td>Russian</td>
</tr>
</tbody>
</table>
| Prerequisites | - Certificate of secondary education  
- Results of the unified state exam in the disciplines Mathematics, Informatics, Physics or the results of entrance examinations at the university. |
| Tuition fee per year | 250,000 rubles (~ 3,310 USD) |
| Program leader/team | Prof. Andrei Kondrashev  
Doctor of Juridical Science (S.J.D), Head of Constitutional, administrative and municipal Department, School of Law SibFU |
| Qualification | Bachelor |
| Skills/objectives | A graduate of the program is able to:  
• carry out conceptual, functional and logical design, development and maintenance of software and hardware for information and telecommunication systems, computing equipment and integrated solutions.  
• provide technical support for the development, testing, debugging, modification and operation of computer soft- and hardware. |
| Curriculum | • Theory and practice of effective communication  
• Life safety  
• Algebra and geometry  
• Mathematical analysis  
• Discrete Math  
• Physics  
• Theory of Probability and Mathematical Statistics  
• Information security and information protection  
• Computing systems protection  
• Solving optimization problems by software  
• Decision making methods and systems  
• Control theory  
• Fundamentals of adaptive control systems  
• Informatics |
• Introduction to professional activities
• Basics of programming
• Algorithms and data structures
• Operating Systems
• Interdisciplinary course project
• Software design fundamentals
• Databases
• Parallel computing systems
• System software
• Internet technologies
• Translators
• Organization of the software design process
• Hybrid computing systems
• Mobile systems software
• Fundamentals of Computer Engineering
• Basics of computer networks
• Electrical and Electronics Engineering
• Applied theory of Finite State Machines
• Computer circuitry
• Computers and peripherals
• Networks and telecommunications
• Methods of design and CAD of computing systems
• Microprocessor systems
• Programmable Logic Integrated Circuits
• Embedded Systems Design Tools
• Digital signal processing
• Network OS and Network Administration
• Test automation systems

Contacts

e-mail: ONepomnuashy@sfu-kras.ru
Google Scholar: https://scholar.google.com/citation...
Profile on another site: http://vt.ikit.sfu-kras.ru/people/N...
tel. (391) 291-29-31
(+7) 9048955005
Kirenskogo 26, Krasnoyarsk, 660074, Russia