| **Program name** | Bachelor’s degree program  
Design and technology of radio electronic means |
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<td><strong>Key facts</strong></td>
<td>The program is aimed at students wishing to master the modern methodology for solving applied and scientific problems in the design and technology of radio electronic means.</td>
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<td><strong>Program length</strong></td>
<td>4 years</td>
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<td><strong>Starting date</strong></td>
<td>September, 1st</td>
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<td><strong>Language of instruction</strong></td>
<td>Russian</td>
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| **Prerequisites** | • School leaving certificate of secondary (full) comprehensive education, certificate of vocational education or diploma of higher education  
• Entrance exams in Physics, Informatics and ICT, Maths, Russian Language  
• preference is given to students who have previously participated in creative contests and (or) olympiads of the corresponding field of study |
| **Tuition fee per year** | 170 622 roubles (~ 2,297 USD) |
| **Program leader/team** | Head of Department:  
Aleksey Leviiskiy, Cand. Sc. (Physics and Mathematics), assistant professor  
Head of the Department of Instrumentation and Nanoelectronics, School of Engineering Physics and Radio Electronics, Siberian Federal University |
| **Qualification** | Bachelor of Science |
| **Skills/objectives** | - Reasoned choice and implementation of an effective methodology for the experimental study of parameters and characteristics of structures and processes of electronic devices for various functional purposes.  
- Calculation and design of electronic devices, circuits and devices of various functional purposes in accordance with the terms of reference using design automation tools.  
- Control over the compliance of developed projects and technical documentation with standards, specifications and other regulatory documents.  
- Execution of works on the preparation of the production of electronic devices.  
- Organization of metrological support for the production of electronic means |
| **Curriculum** | Foreign language,  
Mathematics,  
Information Technology,  
Physics,  
Chemistry,  
Metrology and radio measurements,  
Electronics,  
Radio materials and radio components,  
Circuitry,  
Protection of electronic devices from mechanical stress,  
Electronic components,  
Physicochemical foundations of electronic technology, |
| Information technology in the design of electronic means,  
| Numerical simulation in electronics,  
| Technical diagnostics of electronic devices,  
| Fundamentals of technology for the production of electronic devices,  
| Design of elements of microcircuits,  
| Electronic parts technology,  
| Heat and mass transfer in electronic means,  
| Fundamentals of the design of supporting structures for electronic devices,  
| Technology of microcircuits and microassemblies,  
| Fundamentals of electronic design,  
| Quality management of electronic means  
| Elective courses:  
| Electronic production technology, Printed wiring technology,  
| Information display devices, Optoelectronics |

**Contacts**

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