1 November 1921, 1390 students started attending classes in its three faculties: labor, medical and social sciences. Only 14 professors and 25 candidates of sciences (Ph.D) were among first lecturers.
BSU today

- 20 faculties and educational institutes
- lyceum
- college
- 3 scientific-experimental stations
- 3 museums
- 4 scientific-research institutes
- 115 scientific-research laboratories
- 25 scientific centers
- 12 unitary enterprises
The BSU student community comprised of almost 29000 under-graduate and Master degree students, 663 Post-Graduate (Doctoral) and 11 Post-Doctoral Students.
University staff:
7398 (8680) staff members, including:
• 2477 lecturers
• 1900 researchers and research engineers

Lecturers:
• 6 academicians of the National Academy of Science of Belarus
• 7 corresponding member of the National Academy of Science of Belarus
• 291 doctors of science
• 1350 candidates of science
## BSU INTERNATIONAL COOPERATION

<table>
<thead>
<tr>
<th>Year</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of agreements</strong></td>
<td>123</td>
<td>182</td>
<td>221</td>
</tr>
<tr>
<td><strong>Number of countries</strong></td>
<td>29</td>
<td>45</td>
<td>50</td>
</tr>
</tbody>
</table>
International Scientific-Technical and Educational Exhibitions

In 2009 year

• **34 exhibitions** in the Republic of Belarus

• **5 exhibitions in Russia** (Moscow, Saint-Petersburg, Nizhni Novgorod and others)

• **17 exhibitions abroad** (Germany, Latvia, Korea, Kazakhstan, China and others)
Educational programmes

- pre-university education program – 6 educational profiles (term of study – 1 year)
- specialised secondary education training on the speciality «Law» (term of study – 3 years)
- Higher education program - 53 specialities, 51 directions of specialities, 256 specialisations 176 departments (chairs) (terms of study - 4,5-5 year)
- Master degree program - 49 specialities (terms of study 1-2 years)
- Higher qualification staff training on Post-graduate and Doctor’s graduate degree on 142 specialities (terms of studies - 3 years)
- Retraining and advance training
• Mechanics and Mathematics
• Applied Mathematics and Computer Science
• Radio Physics and Electronics
• Physics
• Chemistry
• Biology
• Geography
• Economics
• International Relations
• Law
• Philology
• History

• Philosophy and social science
• Institute of Journalism
• Liberal Education
• Military
• Pre-University education
• Institute of Theology named after Sts. Methodius and Cyril
• Institute of Business and Management of Technologies
• State institute of Management and Social Technologies
The library fund is 2 million volumes in Belarusian, Russian and Foreign Languages.

http://www.library.bsu.by
Over 40 km of fiber-optic communications connect all the BSU educational and administrative buildings.
Information Resources of the Network

- Web-Server,
- Web-Servers of the faculties and units of the BSU,
- Intranet-Server of BSU.
Information Resources of the Network

Digital collections and catalog of the Fundamental Library.

Library of limited edition literature
Information Resources of the Network

Use of distant training technology based on the following systems:

• eUniversity,

• Moodle,

• eLearning
Computer-Aided Network Information System «University»

«eSystem of registration and issue of the personal documents of the BSU student, PhD students and employees»
For the period of participating in the competitions, since 2001, BSU students won 32 golden, 22 silver and 5 bronze medals.
BSU students participates, since 1995/96

Last 12 year – finalists every year!

BSU team 2010, Harbin (China)
Rector BSU S.V.Ablameyko with first year students – winner of international Olympiads
Research and Innovation Potential

1900 research scientists and engineers
4 research institutes:
  • Institute of Nuclear Problems
  • Research Institute of Physical and Chemical Problems
  • Institute of Applied Physical Problems named after A.N. Sevchenko
  • Research Institute of Applied Problems of Mathematics and Informatics
25 research centers
115 research laboratories
12 unitary enterprises
BSU researches material and technical basis

Four Centers of sharing use of unique research equipment are available in BSU

- Belarusian inter-university center of research facilities
- Center of sharing use of devices and equipment of faculty of biology
- Laboratory of physical-and-chemical methods of research RI PCP
- Center of nanotechnologies and physical electronics

CSP concentrates up to 70% of BSU’s total park of new expensive and unique equipment
Nanostructure and nanotechnology
Elementary particles and high energy physics
Laser technology
Space research
Theory of differential and integral equations
Mathematical modeling of complex structures
Research in the sphere of new materials and technology creation
Biotechnologies and gene engineering
Concept of macroeconomic stabilization in the Republic of Belarus
Juvenile justice
Development of the National Atlas of Belarus
Employees:
263 research scientists and engineers.
• 18 doctors of science
• 42 candidates of science
• 9 professors
• 30 associate professors

37 dissertation theses for Doctor of Science Degree and 232 dissertation theses for Candidate of Science Degree have been defended at the Research Institute of Applied Physical Problems.

Main Fields of Activity:
• Spectroscopy and luminescence
• Ultrasonic and electromagnetic waves
• Nuclear and high-power electromagnetic radiation
• Semiconductors and other materials for electronic and machinery engineering
• High-speed process in the applied problems of physics
• Measuring and calculating devices for information processing
• Intellectual managing systems
Research Institute of Nuclear Problems

- Employees: 95 research scientists and engineers
- Among them 6 doctors of science and 25 candidates of science

Structure
- Nuclear Research Department
- Coherent and Nonlinear Processes Department
- High Energy Physics Department
- Optics Experimental Division
- Mechanics Experimental Division

Director of the Institute Baryshevski V.G. – author of two discoveries USSR in the field of nuclear physics ( Nº224 from 1979 and Nº360 from 1981 г. ).

Institute has different international contacts and closes cooperates with United Institute of Nuclear Research (Russia), and is a collaborating member of CMS in CERN, DO and BTeV in FNAL (USA)
Research Institute of Physical and Chemical Problems

RI PCP employs:
- 225 researchers and engineers
- 9 doctors and 82 candidates of sciences (Ph. D.)

Main directions

• Nanocrystal, amorphorous, fine and composite materials
• Natural and synthetic polymers
• Energy-and-source saving technologies to manufacture organic substances, materials and fuels.
• New medications
• Inorganic materials synthesis and modification.
• High-temperature electrochemical and electronic devices
• Magnetic, thermo- and wear-resistant coatings
• New organic compounds synthesis
• Extraction and sorption processes
The center employs:
- 54 researchers and engineers
- 3 doctors of science
- 17 candidates of science
- 2 professors

Main directions

- Theoretical and experimental research of fundamental interactions and structures of micro particles at high energies
- Methods of recording of micro particles at extreme conditions
- Organizational support of research carried out in United Institute of Nuclear Researches (UINR, Dubna, Russia) with participation of organizations and institutions of Republic of Belarus
Staff: 28 researches including 1 doctor and 7 candidates of sciences. Over 30 BSU lectures, postgraduate students and students take part in the research of the Center.

**Main directions**

- Computer data analysis
- Mathematic modeling of complex systems, processes and phenomena in economics, engineering, ecology, medicine and other branches of national economy
- Software in the field of theoretical and applied informatics
- Mathematical methods of information security, cryptography
Main directions

- Development of measuring equipment for ozonosphere monitoring
- On-line monitoring, analysis and forecast of ozonosphere condition and levels of surface ultraviolet radiation
- Taking measurements under BMO Global Atmosphere Watch
- Research in the field of ozonosphere physics, problems of ozonosphere preservation

The division employs
25 researchers
1 doctor of science
7 candidates of science
1 professor
Hi-Tech enterprises of the BSU

- **Unitehprom BSU** - Small-scale chemical and equipment production of various purpose
- **Unihimprom BSU** – Development of the technology of diesel biofuel production from vegetable oils and other accompanying products
- **Unidragmet BSU** - treatment of man-caused waste containing precious and non-ferrous metals treatment
- **Adamas BSU** - Production of diamond monocrystals and instruments made of them
- **Engineering department of the special purpose technical division of the BSU** – Production of computers, traffic controllers and systems of traffic control, software & hardware for medical experts
- **Active BSU** – Production of training devices for physical experiment, vacuum engineering and forage additives
- **Sand BSU** – Production of tests systems for drug detection
Basic R&D products of the BSU

**Hardware-software complexes, devices and equipment**
- Hardware-software complexes
- Control instrumentation
- Medical devices
- High-end devices and integrated circuits
- Training devices, equipment, systems

**Equipment and instrument**

**Substances and materials**
- Industrial substances
- Protective substances and materials
- Medical substances and reagents
- Biopreparations

**Technologies**
- Biotechnologies
- Industrial technologies
- Information high-end technologies
- Information training technologies

More than 1000 items altogether