

The Faculty of Physics and Information Technologies ("the Faculty of Physics" till April 2017) is the oldest faculty at the University which dates back to 1930. In 1969 the physics faculty, being originally a part of the physics and mathematics faculty, became an independent structural unit of Gomel State University.

At present the faculty consists of 5 departments: General Physics; Theoretical Physics; Radio physics and Electronics; Optics; Automated Systems of Information Processing.

Computers are located in 11 computer labs integrated into the local network.

Laboratories have high-tech equipment and machinery.



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Educational process is provided by:

- ***More than 70 lecturers and other staff members including:***
 - ***2 corresponding members of the National Academy of Sciences of Belarus;***
 - ***10 Doctors of Sciences (Dr. hab.);***
 - ***28 PhDs;***
 - ***32 engineers and assistants.***

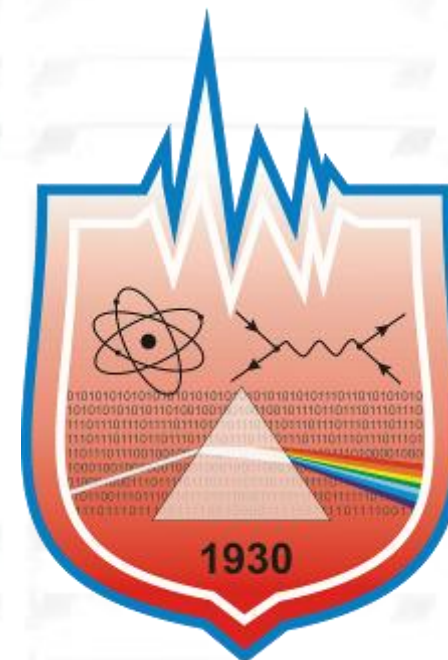
The faculty includes:

- ***5 departments;***
- ***8 research laboratories;***
- ***8 students research laboratories.***

The Faculty of Physics and Information Technologies trains 619 students including 69 international students.



Educational Institution
«Francisk Skorina Gomel State University»



**THE FACULTY OF
PHYSICS AND
INFORMATION
TECHNOLOGIES**



physfac.gsu.by

PRINCIPLES OF EDUCATION

- **Fundamentality** - profound background within classical physics and mathematics education.
- **Participation in research** - an important component of educational process.
- **Practical value** - intensive applied training in chosen speciality.

INTERNATIONAL COOPERATION

The faculty deals with a number of international research centers where graduates and postgraduates of the Faculty of Physics and Information Technologies have an opportunity to undertake an internship within international programmes:

- Stockholm University (Sweden);
- JINR (Russia);
- Shizuoka University (Japan);
- Nanjing University of Science and Technology (China);
- Korean institute of industrial technology, Inha University (The Republic of Korea);
- The University of Berg (Germany);
- Trzebiatowski institute of low temperatures and structural research (Poland);
- The Institute of Surface Chemistry of the National Academy of Sciences of Ukraine (Ukraine);
- Riga Technical University (Latvia);
- Alexandru Ioan Cuza University (Romania);
- Saint Petersburg National Research University of Information Technologies, Mechanics and Optics (ITMO) (St. Petersburg, Russia).

Every year specialists from different countries are invited to give lectures to the students of our faculty.

Among the graduates of the faculty are:

3 corresponding members of the National Academy of Sciences of Belarus;
4 rectors of institutions of higher education;
Managers and leading experts of numerous companies, headmasters and successful businessmen.

SPECIALITIES AND SPECIALIZATIONS

At the faculty students take courses on the following specialities:

- ✓ «Automated Systems of Information Processing»;
- ✓ «Programmable Mobile systems»;
- ✓ «Computerized physics»;
- ✓ «Physical electronics»;
- ✓ «Security systems»;
- ✓ «Physics» (industrial work, research and pedagogical work).

The ASIP department trains students on the speciality «**Automated systems of information processing**» with the specialization «**Automated systems of data processing and displaying**» or «**Corporate networks and systems**» (the qualification «**Engineer of Information technologies**»).

Since 2015 the department of General Physics has been training undergraduates on the speciality «**Programmable Mobile systems**» (the qualification «**Electronic systems engineer**»).

Since 2016 our faculty has been accepting applicants on speciality «**Computerized physics**». The course of study is 5 years. The qualification is «**Physicist. Programmer**».

The department of Radio physics and Electronics provides training on the following specialities: «**Physical electronics**» with the qualification «**Medical electronics**» (the qualification «**Physicist. Engineer**») and since 2015 «**Electronic security systems**» (the qualification «**Design-and-planning engineer**»).

Within the framework of the «**Physics**» speciality our faculty provides training on four specializations: «**Computer modeling of physical processes**», «**New materials and technologies**», «**Laser physics and spectroscopy**», «**Physical metrology and experiment automation**». At the end of the course graduates get the following qualifications (in accordance with the direction of their training): «**Physicist. Engineer**» or «**Physicist. The teacher of physics and information technologies**».

While studying at the Faculty of Physics and Information Technologies it is possible to attend courses and get international certificates:

- ✓ PC Hardware and Software;
- ✓ Network technologies
(*Network academy CISCO*);



<http://gsu.by/cisco>

- ✓ Basics of data transmission and switching in computer networks;
- ✓ Switching and routing technologies of modern networks Ethernet (*Authorized training centre of D-Link company in Belarus*);



- ✓ Development of mobile applications on Android platform (*International training and research centre Android Software Center*);



- ✓ Web-programming on ASP.NET platform;
- ✓ Development of web applications in JAVA (*EPAM Systems*);



- ✓ Work in IBM Lotus Notes;
- ✓ Linux administration (*IBA Gomel*);



- ✓ Work in 1 C environment. Enterprise 7.7;
- ✓ Work in 1 C environment. Enterprise 8.2 (*LLC «GBSoft»*).



Starting from the third year it is possible to get a second speciality at the Further Training and Retraining Institute at GSU «Information Systems Software» (the qualification Software Engineer), etc. (<http://ipk.gsu.by/>).