



СЕВЕРНЫЙ
(АРКТИЧЕСКИЙ)
ФЕДЕРАЛЬНЫЙ
УНИВЕРСИТЕТ



Institute of Mathematics, Information and Space Technologies (IMIST)

Northern Arctic Federal University (NArFU)



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History

On 1 November, 1932 - Archangelsk Evening Pedagogical Institute.

On 27 July, 2011

Institute of mathematics and computer science = Faculty of Mathematics (PSU) + Department of Mathematics (NArFU) + Department of Applied Mathematics (NArFU).

On 28 June, 2012

Institute of Mathematics, Information and Space Technologies =
Institute of Mathematics and Computer Science +
Institute of Information and Space Technologies.

Director of the Institute: **L.E. Khaymina**

The Institute consists of 12 departments:

- **Department of Algebra and Geometry;**
 - **Department of Mathematical Analysis;**
 - **Department of Applied Mathematics;**
 - **Department of Mathematics;**
 - **Department of Mathematics Teaching Methodology;**
 - **Department of Information Security;**
 - **Department of Applied Computer Science and Education Informatization;**
 - **Department of Programming and High Performance Computing;**
 - **Department of Computing Systems and Telecommunications;**
 - **Department of Informatics;**
 - **Department of Information Technologies;**
 - **Department of Computer Design;**
- + College of Telecommunications and Information Technologies**
- + Department of IT education.**



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The Institute is located in two separate buildings

library

cafeteria

lecture halls

computer labs

1100 students

200 staff





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Admission in 2012:

Full-time programs:

- **010100.62 Mathematics (Bachelor degree)**
"The teaching of Mathematics and informatics"
"Mathematical Modeling"
- **010400.62 Applied mathematics and informatics (Bachelor degree)**
- **090900.62 Information security (Bachelor degree)**
- **230400.62 Information systems and technologies (Bachelor degree)**
"Information systems and technologies"
"Information technologies in design"
"Security of information systems"
- **230700.62 Applied informatics (Bachelor degree)**
"Applied Informatics in Economics"
"Applied Informatics in Design"
"Applied Informatics in Education"
- **231300.62 Applied mathematics (Bachelor degree)**
"Mathematical and software maintaining of information processing systems and management"
- **080500.62 Business informatics (Bachelor degree)**

- **010400.68 Applied mathematics and informatics (Master degree)**

"High-performance and cloud computing"

"Mathematical and information maintaining of economic activity"

- **050100.68 Pedagogical education (Master degree)**

"Mathematical Education"

"Information Technologies in Education"

- **230700.68 Applied informatics (Master degree)**

"Corporate information systems"

Part-time programs:

- **230400.62 Information systems and technologies (Bachelor degree)**

"Information systems and technologies"

"Information technologies in design"

"Security of information systems"

- **230700.62 Applied informatics (Bachelor degree)**

"Applied Informatics in Economics"

"Applied Informatics in Design"

"Applied Informatics in Education"

Based on the secondary education 3.5 years/Based on the higher education 3 years

Post-graduate (doctoral) programs:

- **01.01.01 – Real, Complex Functional Analysis**
- **01.01.04 – Geometry and Topology**
- **01.01.06 – Logic, Algebra and Number Theory**
- **01.03.01 – Astronomy and Celestial Mechanics**
- **05.13.18 – Mathematical Modeling, Numerical Methods and Program Complexes**
- **13.00.02 – Theory and Methods of Training and Education (Mathematics).**



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International projects

«KITENPI PROJECT»

Kolarctic IT Education Networking Partnering Infrastructure

<http://www.kitenpi.eu/>

http://www.narfu.ru/math/international_project/kitenpi.php

Partners:

Luleå University of Technology (**Luleå, Sweden**);
InformationsTeknik I Norbotten AB (**Luleå, Sweden**) Internet
Bay AB (**Luleå, Sweden**);Luleå Näringsliv AB (**Luleå, Sweden**);
Kemi-Tornio University of Applied Sciences (**Kemi-Tornio,
Finland**); Norwegian Centre for Integrated Care and
Telemedicine, University Hospital of North-Norway (**Tromsø,
Norway**); Northern (Arctic) Federal University (**Archangelsk,
Russia**); Saint Petersburg State University of Information
Technologies, Mechanics and Optics (**Saint Petersburg, Russia**);
RUSSOFT association , (**Saint Petersburg, Russia**)

KITENPI has three specific cross-border **objectives**:

- **Academic integration**, to create a common pool of jobs and highly-trained ICT professionals, and tapping into the potential of recruiting more female students into ICT education.
- **Innovation facilitation** that increase industry involvement in education, and exchange of best practice among the involved ICT regions.
- **Infrastructure improvements** with an extended open IP network, and ICT tools that make distance education and collaboration easy



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BSBU+ Project **Barents Cross-Border University Development**

Project within Kolarctic ENPI CBC program

<http://bcbu oulu.fi>

The main aim has been to develop international multidisciplinary joint Master's programs. The programs follow the principles of the Bologna process and the teaching will be in English. Later the cooperation will also cover doctoral education in the same fields.

Partners:

Luleå University of Technology (**Luleå, Sweden**); University of Lapland (**Rovaniemi, Finland**); University of Oulu (**Oulu, Finland**); Narvik University College (**Narvik, Norway**); Northern State Medical University (**Archangelsk, Russia**); Northern (Arctic) Federal University (**Archangelsk, Russia**); Murmansk State Humanities University (**Murmansk, Russia**), Murmansk State Technical University (**Murmansk, Russia**).

- Master program «High-performance and cloud computing»
- Courses for teachers on distance education
- Equipment for the collaboration studios (3)
- Developing “Recruitment network”
- Hosting meetings.
- Organizing collaboration between industry companies and educational institutions.



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Technology of learning geometry using interactive geometry environment “MITE”

<http://maths.pomorsu.ru/mite/>









еральный университет имени М.В. Ломоносова
еских услуг «Арктика»



- Laboratory of measurements systems and digital signal processing
- Laboratory of robototechnics

