Annual Report
2016
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Every academic year is a new challenge for us in pursuing our ambitious goal to join the team of world’s leaders in the sphere of IT education.

Another important task of Innopolis University is to provide students with opportunities to gain both theoretical knowledge and practical experience through participation in real industrial projects. During the studies, they take part in internships and familiarize with modern IT industry, technological developments and special research studies in order to be in demand and fulfil their potential in Russia.

Mission of Innopolis University is to form a generation of IT experts who will take the Russian IT industry to a new competitive level.

I am glad that we all go the same way!
### Innopolis University Today

<table>
<thead>
<tr>
<th></th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of students</strong></td>
<td>14</td>
<td>50</td>
<td>322</td>
<td>635</td>
</tr>
<tr>
<td><strong>Laboratories and research centres</strong></td>
<td>0</td>
<td>4</td>
<td>11</td>
<td>13 + 3</td>
</tr>
<tr>
<td><strong>Academic partners</strong></td>
<td>2</td>
<td>9</td>
<td>14</td>
<td>27</td>
</tr>
<tr>
<td><strong>Industrial partners</strong></td>
<td>11</td>
<td>19</td>
<td>34</td>
<td>100</td>
</tr>
<tr>
<td><strong>Administrative staff</strong></td>
<td>30</td>
<td>49</td>
<td>93</td>
<td>124</td>
</tr>
<tr>
<td><strong>Faculty members</strong></td>
<td>2</td>
<td>20</td>
<td>23</td>
<td>45</td>
</tr>
<tr>
<td><strong>Research fellows</strong></td>
<td>0</td>
<td>22</td>
<td>39</td>
<td>48</td>
</tr>
<tr>
<td><strong>Publications</strong></td>
<td>1</td>
<td>12</td>
<td>78</td>
<td>113</td>
</tr>
<tr>
<td><strong>Received grants</strong></td>
<td>0</td>
<td>3</td>
<td>16</td>
<td>10</td>
</tr>
<tr>
<td><strong>Total amount of funding from grants</strong></td>
<td>0</td>
<td>416.3 million Rub</td>
<td>35.5 million Rub</td>
<td>167.4 million Rub</td>
</tr>
<tr>
<td><strong>Total amount of funding from sponsors</strong></td>
<td>462.6 million Rub</td>
<td>211 million Rub</td>
<td>535.9 million Rub</td>
<td>336.9 million Rub</td>
</tr>
</tbody>
</table>

* as of September 1, 2016
## Finance

### Income

<table>
<thead>
<tr>
<th>Description</th>
<th>Rub</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balance as of beginning of the year</td>
<td>92,843,129</td>
</tr>
<tr>
<td>Subsidies and grants</td>
<td>167,457,747</td>
</tr>
<tr>
<td>Education services</td>
<td>163,836,032</td>
</tr>
<tr>
<td>Sponsor contributions and endowments</td>
<td>336,906,050</td>
</tr>
<tr>
<td>Other</td>
<td>217,768,643</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>978,811,601</strong></td>
</tr>
</tbody>
</table>

### Expenditure

<table>
<thead>
<tr>
<th>Description</th>
<th>Rub</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education</td>
<td>242,256,074</td>
</tr>
<tr>
<td>Research activities</td>
<td>295,079,686</td>
</tr>
<tr>
<td>Pre-university programs</td>
<td>30,741,844</td>
</tr>
<tr>
<td>University management</td>
<td>236,753,017</td>
</tr>
<tr>
<td>Events</td>
<td>124,753,324</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>929,583,945</strong></td>
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</table>

### Closing balance

<table>
<thead>
<tr>
<th>Description</th>
<th>Rub</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Closing balance</strong></td>
<td><strong>49,227,656</strong></td>
</tr>
</tbody>
</table>
Admission Campaign 2016

9 200 Applications received
313 Applicants became students
10 Countries

Map of Russian Students

17% – Moscow, Saint Petersburg, Moscow and Leningrad Region
29% – Republic of Tatarstan
54% – other regions of the Russian Federation

Applications from Russian regions

1 174 – Moscow and Moscow Region
459 – Saint Petersburg
778 – Republic of Tatarstan
299 – Republic of Bashkortostan
3 918 – other regions of the Russian Federation
8 Federal Districts and 46 Subjects of the Russian Federation

1. Astrakhan Region
2. Republic of Bashkortostan
3. Belgorod Region
4. Vladimir Region
5. Vologda Region
6. Voronezh Region
7. Republic of Dagestan
8. Irkutsk Region
9. Kaluga Region
10. Kemerovo Region
11. Kostroma Region
12. Krasnodar Krai
13. Kransnoyarsk Krai
14. Kursk Region
15,16. Republic of Crimea and Sevastopol
17. Lipetsk Region
18. Mari El Republic
19. Republic of Mordovia
20,21. Moscow and Moscow Region
22. Nizhny Novgorod Region
23. Novosibirsk Region
24. Omsk Region
25. Orenburg Region
26. Oryol Region
27. Penza Region
28. Perm Krai
29. Primorsk Krai
30. Rostov Region
31. Samara Region
32,33. Saint Petersburg and Leningrad Region
34. Saratov Region
35. Sakha Republic
36. Sverdlovsk Region
37. Republic of North Ossetia — Alania
38. Republic of Tatarstan
39. Tula Region
40. Tyumen Region
41. Udmurt Republic
42. Ulyanovsk Region
43. Chelyabinsk Region
44. Chuvash Republic
45. Khanty-Mansi Autonomous Okrug – Yugra
46. Yaroslavl Region
Details of the Admission Campaign

15 on-site student selection events

- 9 student selection events at Innopolis University
- 6 student selection events in the regions of Russia: Moscow, Ekaterinburg, Novosibirsk, Vladimir, Saint Petersburg, Voronezh

14 Open Days for applicants and their parents

28 delegations of applicants visited the University

Our Applicants

31 % of enrolled applicants studied at top-500 Russian schools according to the rating made by Moscow Centre for Continuous Mathematical Education under supervision of the Ministry of Education and Science of the Russian Federation

85,05 average score at the Unified State Examination of students accepted for the 1st year studies

77 % of Master’s degree students have industrial experience
“This year we had the best admission campaign in the history of the University. Among the applicants to the Master’s degree programs were young experts with a relevant work experience in IT companies. Speaking of the Bachelor’s degree programs, Innopolis University joined the list of TOP-5 Russian technical universities according to results of the Unified State Exam demonstrated by students admitted to the first year of study. Among the admitted applicants were winners of Olympiads and IT competitions”.

Sergey Masyagin
Vice-Rector for Student Affairs, Enrollment and Admission
High quality IT education is a top priority for Russia. Knowledge opens new paths and helps to make dreams come true. Considering global challenges that we face and integration of information technologies in every sphere of life, Innopolis University is becoming more than just a higher education institution. The established system shows how education shall react on demands of business by training experts in accordance with current market needs and forming a foundation for development of the IT industry for many years to come.

Nikolay Nikiforov
Minister of Telecom and Mass Communications of the Russian Federation

Roman Shaykhutdinov
Deputy Prime Minister of the Republic of Tatarstan — Minister of Information and Communication of the Republic of Tatarstan

Serguei Belousov
Founder and CEO of Acronis, founder of Runa Capital and Qwave Fund

All students of Innopolis University have come through a multi-level selection. There are no random people here. Students of the IT University are ambitious and have a high potential. Thus, the major goal of the University is to help students to fulfil their potential and provide a proper basis for further development. I am sure that graduates of Innopolis University will be more than just experts in high technology, and will serve as role models and inspire others in their choice of future career.

According to global standards, Innopolis University is a young higher education institution. For this reason, the University management and team need to set global strategic tasks ahead in order to become well-known. Every year the University tightens admission threshold, multiplies research agreements and expands the network of international academic partners. We are creating a world-class university that is recognized in Russia and abroad. We are at the beginning of our path but I am sure that smart ideas and expertise of the University employees will help it to become a role model for higher education institutions established in XXI century.
Students of Innopolis University are ambitious young people who know what they want and why they get such a profound education. We see that the University trains experts eager to deal with challenges they face and senior managers ready to assume responsibility. Many of students already have a professional experience in the IT industry. They bring smart ideas, projects and plans. Enthusiasm and ambitiousness of these young people inspire others.

The University has created comfortable conditions for studies, work and personal development. The campus has a sophisticated infrastructure that includes residential and academic buildings. The comfortable working conditions allow students to focus on their studies and not to be disturbed by any outside issues and troubles. Students are trained by highly qualified professors and research fellows. The tandem of well-qualified IT experts and a young generation of specialists will form a new development path of information technologies in Russia.

Innopolis has closely linked science, education and business. The new Russian city is a place where people from the same intelligent IT environment can work and study together. To meet the demands of industry the University synchronises educational programs and research activities with business processes. For this purpose, it holds strategic sessions, lectures, internships and other events organised together with industrial partners. Such a fruitful cooperation is a brand new and unique experience for the Russian IT industry.
Cooperation with Industry

The main task of the University is to train experts according to demands of the IT industry, provide employment opportunities to graduates in Innopolis and stimulate their further career advances.

- Annual strategic sessions on graduates’ competencies with partner companies
- Engagement of companies in the educational process: organisation of training courses, seminars, open lectures and other academic events
- Development of projects of the National Technology Initiative – the University is among 11 higher education institutions having the NTI status
- Monitoring of graduates’ career
- Student internships

The University has developed programs of advanced professional training for employees of IT companies. Besides, it organises research and development projects in joint scientific research centres.
14 Partnership Agreements

“Enics” CJSC
Unmanned and robotic technologies in civil area

“Zarnitsa” Manufacturing Group
Joint research and technical cooperation in the sphere of robotics

“Maykor” LLC
Organisation of events and training of personnel in the sphere of IT outsourcing

“MGA-Security” LLC
Sharing experience and knowledge in the sphere of cybersecurity

General department of research activities and technological support of advanced technologies (Innovative Research) of the Ministry of Defence of the Russian Federation
Creation of highly reliable complexes for development and creation of innovative military equipment prototypes and special purpose machinery

“Zarnitsa” Child Centre for Scientific Research
Methodological and organizational support of programs of additional child education in the sphere of robotics

“MyOffice” LLC
Joint projects on creation and development of technological products for competitive recovery of Russian software

“Kaspersky” Lab JSC
Development and commercialisation of projects in the sphere of cybersecurity

“KUKA Robotics Rus” LLC
Joint development of solutions on technologies and organisation of agile robotic manufacturing based on the company’s orders

“InfoWatch” JSC
Development of educational programs in the sphere of cybersecurity

“Postgress Professional” LLC
Exchange and joint development of projects in the sphere of data base management systems

“Ancor” JSC
Expert support in human capital management

Moscow Polytechnic University
Development of the federal state standards of higher professional education in the field of IT, promotion of the Olympiad movement, launch of the IT Tech championship based on the WorldSkills methodology

“Quantorium” Child Technological Park
Encouragement and support of science and technological initiatives of the young generation
Guest lectures for students:
Yandex, IBM, Ozon, Samsung, Formula 1, Kaspersky Lab, “Strelka” Institute, Agency of Strategic Initiatives, Wargaming, Beeline Data School, VimpelCom.

Internships for students:
Kaspersky Lab, ABBYY, Yandex, SKB Kontur, ICL-KME CS, ICL Services, Intel, Servionika, Unwired devices, Multiklet, Digital Security, Fix, Units, Bars Group, Etton Group, Corporate Information Solutions, TGT Oil, Miranda-Media, GD Forge, Centre for Distance Monitoring Technologies, Centre for Youth Innovative Work, Innosoft, M-Technologies, Roborzoid, Fash-Mob, Pilvet.ru, Level90, FossLabs.

Open educational events:
Open mobile platform, AngelHack, Zarnitsa, Ancor, Generation S, “Elbrus” Moscow Centre for SPARC-Technologies, Yandex, LifeSreda, Pro vectus, “Strelka” Institute, Google DevFest, Cyberiada, Sberbank Technologies, Russian Academy of Science, Russian Post, Gazprom Bank, Moscow Institute of Physics and Technology, RVC.

Projects for Master’s degree program in Software Engineering:
100 partners
In total

54 partners
New
IT Business Module

IT Business Module is a new advanced professional training in the sphere of information technologies tailored to the client’s needs. The programs combine a global academic expertise and practical experience of current IT leaders.

The module is focused on senior managers and employees of companies and enterprises who are interested in business growth by optimising and introduction of modern IT solutions.

The program includes 12 modules

- IT Management
- Project Management
- Software Engineering
- Cybersecurity Management
- Big Data
- Control and Programming of Industrial Robots
- Cloud Technologies and Data Virtualization
- System Programming
- Technological Entrepreneurship
- Applied Technologies in IT
- Machine Learning
- Virtual Reality
Each module consists of 86 courses available in 3 formats:

- Information sessions (2-3 days)
- Customized courses for companies (1-3 weeks)
- Individual programs

3 companies have completed training at the IT Business Module so far — the Russian National Payment Cards System, Sberbank Technologies and Tatneft.

Maxim Gashkov
Head of the Industry Relations Office

“The project functions as an educational prototype of Uber and aggregates requests from companies for training and courses offered by IT experts. Information technologies became the so-called “new oil”, and our task is to teach Russian companies how to work on this high technology market”.
Student Internships

Industrial internships

During this year, the University organised 3 internship fairs. The events involved 76 companies offering vacancies in software development, cybersecurity and system analytics.

The key objective of internships is to help students to shape and improve their professional competencies by working on real business tasks.

Other areas

- Administrative internship — 74 students worked on internal projects of Innopolis University.
- Research internship — 87 students took part in research projects offered by Innopolis University, international partner universities and organisations, including CERN.

500 Interviews

92 Students participated in industrial internships

320 Work hours on each project

<table>
<thead>
<tr>
<th>Internships</th>
<th>1st year</th>
<th>3rd year</th>
<th>Master’s degree</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative</td>
<td>62</td>
<td>11</td>
<td>1</td>
<td>74</td>
</tr>
<tr>
<td>Research</td>
<td>1</td>
<td>65</td>
<td>21</td>
<td>87</td>
</tr>
<tr>
<td>Industrial</td>
<td>1</td>
<td>72</td>
<td>19</td>
<td>92</td>
</tr>
<tr>
<td>Total</td>
<td>64</td>
<td>148</td>
<td>41</td>
<td>253</td>
</tr>
</tbody>
</table>
Employment

According to results of graduation projects, 28 students of the Master’s degree program in Software Engineering were employed by the resident companies of “Innopolis” Special Economic Zone: Acronis, Yandex, AK Bars Digital Technologies, MyOffice, Sberbank Technologies, Cognitive Technologies, Visiology, Dooglys, CDC, Innosoft, Noxa Data Lab and SportFort.

Future graduates of the university have created 2 companies, i.e. Innosoft focused on software development and SportFort, a professional service for competition organisers.
A special course on Introduction to Career Development was started. Innopolis University received a grant from the University of Talents to implement this course.

5 seminars were organized for senior students and students of the Centre for Specialized Training. The seminars were focused on CV writing, interview behaviour and other aspects of employment process.

A career portal for graduates has been developed and currently is tested.

Over 650 applicants and 100 students had their soft skills evaluated.

University human resources assessment was conducted.

“The Centre for Career Development belongs to the best international educational practices. Unlike other higher education institutions, Innopolis University pays a special attention to employees along with development of students’ competencies. The main task of the Centre is to create a system of professional development and career building for students and employees. Innopolis University provides comfortable conditions for improvement of hard and soft skills, thus increasing competitive abilities of graduates and enhancing performance of employees.”

Aliya Samatova
Vice-Rector for University Business Development

Centre for Career Development

The Centre is established to develop a system of professional growth and career building for students and employees of Innopolis University. The Centre was opened with the kind support of Alena Vladimirskaya, founder of the “Talanting” and “PRUFFI” recruiting agencies.

<table>
<thead>
<tr>
<th>Tasks</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identification of competence models of graduates and employees.</td>
<td>A special course on Introduction to Career Development was started. Innopolis University received a grant from the University of Talents to implement this course.</td>
</tr>
<tr>
<td>Creation of a system that will help to evaluate competencies of applicants, students and graduates of Innopolis University.</td>
<td>5 seminars were organized for senior students and students of the Centre for Specialized Training. The seminars were focused on CV writing, interview behaviour and other aspects of employment process.</td>
</tr>
<tr>
<td>Creation of a mentorship institution as a tool to implement a personal system for career building and development of competencies.</td>
<td>A career portal for graduates has been developed and currently is tested.</td>
</tr>
<tr>
<td>Development and implementation of methods necessary for career planning and improvement of professional competencies.</td>
<td>Over 650 applicants and 100 students had their soft skills evaluated.</td>
</tr>
<tr>
<td>Career guidance, organisation of internships, employment support of graduates, integration of students in the educational process.</td>
<td>University human resources assessment was conducted.</td>
</tr>
</tbody>
</table>
Centre for Specialized IT Training

The Centre for Specialized IT Training of Innopolis University is established to support resident companies of “Innopolis Special Economic Zone”. The program is designed to train specialists able to form a core team of a new resident company by developing professional competencies and additional skills for dealing with new tasks in the field of IT.

5 700 Study applications

90 People became students of the Centre

80 % Of graduates employed by IT companies in Innopolis

Alexander Dolgoborodov
Head of the Centre for Specialized IT Training

“The following factors helped us to achieve these results: a three-stage selection of candidates, a successful model of education and professionalism of the team members working at the Centre”. 
Alexander Tormasov  
Rector of Innopolis University

Innopolis University was established on the principle of a deep integration of science and industry. Our laboratories and centres deal with challenging tasks in the framework of research grants and joint projects with Russian IT companies. We use this approach in the educational practice as well.

During the studies, students of Innopolis University are in close cooperation with the industry and handle real cases offered by high-technology companies. Thus, our graduates obtain practice-oriented knowledge and competencies that are in-demand on the IT market.

This summer 28 Master’s degree students graduated from the University. Within their final internship, the young experts were employed by partners of Innopolis University – residents of “Innopolis” Special Economic Zone and two graduates established their own companies. Besides, the University selected over three hundred talented young people who passed the Unified State Exam with an average score of 85. They all will make own contribution to the development of the Russian digital economy.
Research Laboratories and Centres

13 Laboratories

Cyber-Physical Systems Lab

The laboratory is focused on aspects of programming related to development and use of cyber-physical systems. Members of the lab study approaches to development of software and tools that can support the advancement of cyber-physical systems.

New!

Cognitive Robotic and Systems Lab

The laboratory deals with verbal and non-verbal interaction between humans and machines, symbolic reasoning, cognitive data acquisition systems for special applications and large-scale "human-machine" cognitive systems.

New!

Data Science and Information Systems Lab

Medical Images Analysis Lab

Intelligent Robotic Systems Lab

Software Design, Models and Architectures Lab

Intelligent Transport Systems Lab

Machine Learning and Knowledge Representation Lab

Artificial Intelligence in Game Development Lab

Cloud Systems and Service Virtualization Lab

Software Engineering Lab

Network Science and Information Technology Lab

Industrial Production of Software Lab

3 Centres

Centre for Information Security

The centre deals with high-technology projects and advanced research and development in the sphere of applied cybersecurity and IIOT systems / IoT and Internet / Intranet networks.

New!

Centre for Modelling and Analysis of Big Data in Finance and Economy

The centre is focused on research and teaching in the field of computer analysis and mathematical modelling of financial and economic processes.

New!

Centre for Automation of Business Processes

The centre develops recommendations to companies on how to improve business processes by means of enhancing applied software.

New!
## Research Projects

<table>
<thead>
<tr>
<th>Projects</th>
<th>Partners</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development of the new generation of cloud technologies for data storage and management with integrated security system and a guaranteed access and fail-safe level.</td>
<td>“Rostelecom” PJSC and the Ministry of Science and Education of the Russian Federation</td>
</tr>
<tr>
<td>Development of the concept and the prototype of an intellectual system for diagnostics of the technical condition of compressor stations.</td>
<td>“Gazprom” PJSC</td>
</tr>
<tr>
<td>Development of a prototype system to monitor leaks of ethane using a wireless sensor network with ultra-low power consumption.</td>
<td>“Gazprom” PJSC</td>
</tr>
<tr>
<td>Development and mathematical justification of high-precision computational methods for numerical solution of 2D and 3D geomechanical modeling tasks.</td>
<td>“Gazprom” PJSC</td>
</tr>
<tr>
<td>Development and study of a software solutions complex for the creation of energy efficient systems to control mechanic movements of anthropomorphic robotic complexes based on static and dynamic balance control.</td>
<td>“Android Techniques” Specific Production Association and the Ministry of Science and Education of the Russian Federation</td>
</tr>
<tr>
<td>Consulting services on how to modify modelling system of business process. The services also provide recommendations for improving business processes.</td>
<td>“Aeroflot” PJSC</td>
</tr>
<tr>
<td>Research and development of methods for autoconfiguration of virtual machines on distributed computing resources.</td>
<td>Russian Foundation of Fundamental Research</td>
</tr>
<tr>
<td>Projects</td>
<td>Partners</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Research and development of multiple objective search techniques for protein structure prediction.</td>
<td>Russian Foundation of Fundamental Research</td>
</tr>
<tr>
<td>Scaling privacy protection of social network data from generation to management.</td>
<td>Russian Foundation of Fundamental Research</td>
</tr>
<tr>
<td>Modern methods of robust inference in finance and economics, with applications to the study of crises and their propagation in financial and economic markets.</td>
<td>Russian Science Foundation</td>
</tr>
<tr>
<td>Organisation and monitoring of corporate services management in an ICT company.</td>
<td>Russian Science Foundation ICL-KME CS and the Ministry of Science and Education of the Russian Federation</td>
</tr>
</tbody>
</table>

“In 2016, Innopolis is again among the most active Russian higher education institutions that deal with grants. Each research fellow is attributable to one submitted grant project with the funding around 30 Million Rub per year. The University has strengthened its positions in cooperation with industrial partners. We have made agreements with “Gazprom” PJSC, Russian Post, “Sberbank Technologies” JSC, “Kamaz” PJSC, “Tatneft” PJSC, “Russian Railways” OJSC, “Rosseti” PJSC, “National Payment Cards System” JSC, etc. Engagement through partnership has allowed us to start new research and development projects and integrate real-life projects into the educational process thus increasing the University’s recognition in the Russian business community”.

Iskander Bariev  
Vice-Rector for Project, Science and Research Affairs
Research Results

10
Winning grant projects

167.4 mln. Rub
Received as grant funding

2 709.95 mln. Rub
78 grant applications

1 178.5 mln. Rub
28 grant applications are under expert review

<table>
<thead>
<tr>
<th></th>
<th>All years</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>All publications</td>
<td>204</td>
<td>1</td>
<td>12</td>
<td>78</td>
<td>113</td>
</tr>
<tr>
<td>Scopus</td>
<td>113</td>
<td>1</td>
<td>5</td>
<td>42</td>
<td>65</td>
</tr>
<tr>
<td>WoS</td>
<td>81</td>
<td>0</td>
<td>5</td>
<td>33</td>
<td>43</td>
</tr>
<tr>
<td>Russian Science Citation Index</td>
<td>10</td>
<td>0</td>
<td>2</td>
<td>3</td>
<td>5</td>
</tr>
</tbody>
</table>

CERN openlab

Innopolis University joined CERN Openlab, a multilateral research project. Along with Newcastle University, the consortium includes Kazan Federal University, Intel and CERN. Innopolis University works on the BioDynaMo project focused on designing of a prototype platform. The platform simulates the human brain development by means of cloud technologies.
“Analysis of the research accomplishments based on Google Scholar showed that the Faculty published 100 works in 2016 and the number of new citations exceeded 2000. Five of our professors had more than 100 citations during 2016 and three received more than 200 references. According to Scopus, nine of our researchers have h-index higher than 10 and three higher than 20. Another seven faculty members have h-index higher than 5”.
Institutes and Faculty Members

Faculty of Computer Science
Giancarlo Succi, Dean

Institute of Technologies and Software Development
Manuel Mazzara, Director

Industrial Production of Software Lab
Giancarlo Succi

Institute of Information Systems
Alberto Sillitti, Director

Machine Learning and Knowledge Representation Lab
Adil Khan

Institute of Robotics
Nikolaos Mavridis, Director

Artificial Intelligence in Game Development Lab
Joseph Brown

Intelligent Robotic Systems Lab
Alexander Klimchik
11 new faculty members
8 new instructors
2 new research assistants
40 new visiting lecturers
International and Academic Cooperation

The International and Academic Cooperation Office is focused on organisation of academic exchange programs, implementation of joint educational and research projects in cooperation with partner organisations.

27
Academic partners

14
Universities concluded agreements on academic mobility programs with Innopolis University

9 New partner universities

- Moscow Polytechnic University (Russia)
- The University of Bonn, The Faculty of Mathematics and Natural Sciences (Germany)
- University of Innsbruck (Austria)
- The University of Southern Denmark (Denmark)
- Middle East Technical University, Department of Computer Engineering (Turkey)
- Harbour.Space University of Technology and Design (Spain)
- Indian Institute of Technology Madras (India)
- Beijing Institute of Technology (China)
- Kazan State Power Engineering University (Russia)
“Innopolis University cooperates with the largest universities and research institutions in order to integrate the best global and domestic experience, form and develop a high-class educational and research system, and maintain international academic standards”.

Elmira Shimchik
Director for International and Academic Cooperation
Academic Mobility

Student Exchange

In the fall semester 2016/2017, Innopolis University launched an academic exchange program for students.

Five students took part in the academic exchange program and went to top-100 higher education institutions specialised in Computer Science:

- Korea Advanced Institute of Science and Technology (Republic of Korea) – 1 student
- Seoul National University (Republic of Korea) – 2 students
- Polytechnic University of Catalonia (Spain) – 2 students
- One student came to Innopolis University from Korea Advanced Institute of Science and Technology that is among the top-50 universities specialising in Computer Science:
  - Korea Advanced Institute of Science and Technology (Republic of Korea)
- One student went to Harbour.Space University of Technology and Design (Spain):
  - Harbour.Space University of Technology and Design (Spain)
Student Internships

European Innovation Academy in France

Two students participated in a project internship in summer.

European Organisation for Nuclear Research - CERN

One student participated in a research internship in Switzerland.

Joint Research Supervision

University of Southern Denmark

Innopolis University and the University of Southern Denmark agreed upon a joint research supervision for Larisa Safina, a junior research fellow of Software Design, Models and Architectures Lab of Innopolis University. The research is focused on formal methods and micro services.

Research Mobility

Dublin Institute of Technology (Ireland)

Innopolis University and Dublin Institute of Technology (Ireland) received an Erasmus+ grant (European Union) for implementation of the bilateral academic mobility: extension of work on research and educational projects, study of potential opening of a joint research lab and find opportunities to attract industry.
International Events

In April 2016, Innopolis University took part in The Times Higher Education Young Universities Summit in Barcelona (Spain).

In May 2016, the Office of International and Academic Cooperation presented experience of Innopolis University at Going Global, a major international conference on internationalisation of education held in Cape Town, South Africa.

In June 2016, CERN Openlab held a meeting on the BioDynaMo project based at Innopolis University. The University welcomed Alberto di Meglio, senior project manager at CERN, Fons Rademakers, a Chief Technology Officer at CERN Openlab, Roman Bauer, a research fellow at Newcastle University, and Salvatore Distefano, a visiting professor at Kazan Federal University.

In June 2016, Innopolis University welcomed the Netherlands-Russia Working Group on Innovation.
University Rankings

Results achieved by Innopolis University are included in data basis of international university rankings, in particular: The Times Higher Education, QS World University Rankings, Webometrics, U-Multirank, Round University Ranking.
Education

Educational Programs

11
New faculty members – experts in Computer Science

Bachelor’s degree in Computer Science
During the first two years, students have fundamental courses in Engineering, Mathematics and Computer Science. 3-4th year students can choose one of the following tracks:
- Software Development
- Data Science
- Artificial Intelligence and Robotics

Master’s degree in Data Science
The program includes disciplines covering competencies that are necessary in the interdisciplinary field of Data Science. The teaching method helps students to develop practical skills in solving business tasks related to Big Data. Graduates obtain knowledge in Informatics, Data Mining and Entrepreneurship.

Master’s degree in Software Engineering
The program is designed for experts who have had industrial experience in software development. The courses cover knowledge that will help a student to have a thorough understanding of different software development stages to become a team leader, a software architect or a project manager. The purpose of the final team project is to check how knowledge and skills gained at the University help to deal with real-life challenges of an IT company.

By 2,5 times
increased the number of disciplines

Master’s degree in Robotics
The educational program developed together with IT companies is based on the current business needs and provides students with the basic competences in Informatics, Robotics and Programming. The program is aimed at training of experts able to become leaders of international teams in Robotics and Artificial Intelligence. The essential part of the program is a thesis focused on real industrial cases. The project helps students to improve their teamwork skills and practical experience.

Master’s degree in Secure System and Network Engineering
The curriculum is developed in partnership with high-technology companies. It includes 9 courses providing knowledge that allows students to become experts in information security. The courses cover basis of security, cybercrimes and criminalistics, distributed systems, advanced security and network technologies. Graduates are qualified enough to build corporate and private systems fulfilling modern requirements to cybersecurity.
Professions of the Future

Educational programs of the University are based on the current and future market needs. In its educational programs the University is oriented at professions of the future suggested by experts of the IT market i.e. Microsoft, Russian Venture Company, Russian Association of Electronic Communications, Agency for Strategic Initiatives and PRUFFI:

- Designer of Virtual Environment
- Digital Linguist
- Medical IT Administrator
- Counsel for Robot Ethics
- Smart Networks and Power Supply Expert
- Nanotechnologist
- Digital Culture Journalist
- Distance Learning Expert
- Added Environment Engineer
- Strategic Analyst for Projects on the Internet of Things
- Designer of On-Line Courses
- Smart City Planner
- Natural Environment Recovery Engineer
- Medical Robotics Expert
- Geological Engineer
- Human Body Designer
- Medical Engineer
- Virtual Reality Architect
- Big Data Analyst
- Consultant on Genetics
- 3D-Printing Engineer
- Data Technician
- Expert in Bioinformatics
- Designer of Natural Interfaces
- Cloud Computing Engineer
- Designer of Implants
- Drone Operator
- Neuropsychologist
- Expert in Informatics and Pharmacology
- Designer of Microorganisms
“This year Innopolis University launched Master’s degree programs in Robotics and Data Science developed by faculty members of the University. Besides, we have started a Master’s degree program in Secure System and Network Engineering. One of the key goals of the University is to adapt educational programs to demands of the Russian IT sector. For this reason, administration of the University together with faculty members and industry representatives held a strategic session to coordinate educational programs with business needs. In 2016, we had organised the first two-month summer internships in the industry, released an ECTS catalogue and arranged a number of guest lectures by practical experts from the IT industry.”
New Programs

System of initial, intermediate and final control of the educational program in English.

Orientation Program for new faculty members. The program contains information regarding history and mission of Innopolis University, principles of educational programs development, knowledge evaluation system, tutoring and academic supervision.

3 training programs for Teaching Assistants

Orientation Program
The program is designed for new Teaching Assistants and those who start delivering a new course. It consists of 10-12 hours and is held prior to teaching. Participants involved in the trainings study history, mission and outlook of Innopolis University, principles of educational programs development, duties of a Teaching Assistant, content of the course, knowledge evaluation system and course materials. Besides, they learn how to use the Moodle learning management system.

Induction Program
It is a compulsory program for new Teaching Assistants. The program includes 24-30 hours of group training for 3-6 participants. Participants get theoretical knowledge about methods of teaching planning, styles of teaching and instruction, knowledge evaluation techniques, motivation tools and management of tight situations.

Professional Development Program
The program is designed to promote professional development of Teaching Assistants in practice at Innopolis University. Participants of the program have their classes visited by a course instructor once a year. They visit classes of their colleagues 2 times per semester, take part in trainings and workshops for teachers 4 times per semester, participate in an annual conference for teachers once a semester and have individual consultations.
In 2016, for the first time the University has implemented a principle of forming educational programs according to individual trajectories. Bachelor’s degree students of the final year formed their curriculum independently by choosing 4 out of 27 offered elective courses. Some electives are available to Bachelor and Master’s degree students of other years of studies. This approach is an innovation even for the international academic environment.
84 Bachelor and Master’s degree courses

Mathematical Analysis
Discrete Mathematics
Introduction to System and Network Engineering
Linear Algebra
Operating Systems and Networks
Physics
Workshop on Software Engineering
Software Architectures
Computation Theory
Robotics
Architectures of Software Systems
Analysis of Software Artefacts
English
Sport
Communications for Technical Engineers
Communications in Engineering
Entrepreneurship and Business Development
Technical Communication
Innovation Projects Development and Implementation Technologies
Data-Oriented Approach to Development of Applied Solutions

Introduction to Programming
Data Structures and Algorithms
Robotic Sensors: Methods of Data Acquisition and Processing
Intelligent Roots and Systems
Introduction to Machine Learning
Introduction to Research
Modelling and Analysis of Manipulators
Introduction to Programming I
Computer Architecture
Discrete Mathematics / Logic
Mathematical Analysis 1
Programming Paradigms
Theoretical Fundamentals of Computing
Computer Architecture
Information Theory
Operating Systems
Introduction to Programming
Data Structures and Algorithms
Modelling of Data Bases
Philosophy
Route Planning for Mobile Robots
Modelling of Data Bases
Fundamentals of System and Network Engineering
Security of Systems and Networks
Research Project I
Classical Internet Applications
Distributed Web-Applications
Parallel Computing Algorithms
Statistics, Dynamic Programming and Stochastic Control
Machine Learning and Natural Language Processing
Machine Learning and Object Recognition
Automated Control Theory
Industrial Robotics
Models of Software Systems
Methods: Deciding what to Design
Software Engineering
Communication for Software Engineers I
Introduction to Individual Software Development
Business Communication
Career Development
Communication Skills
Introduction to IT Entrepreneurship
ICT Innovation and Entrepreneurship
Strategic Management of New Technologies and Innovation
Creative Solutions and Know-How
Performance Management and Measurement for R&D
Cybersecurity
Security Principles and Applications
Advanced Algorithms for Data Science
Artificial Cognitive Systems
Web-Game Development
Innovative Agile Software Development
Methodology for High Reliability and Mission Critical Applications
Machine Learning Algorithms
Human-Computer Interaction Design
Software Architecture
Software Engineering
UX Design
Computer Architecture for a System Developer
Procedural Content Generation in Games
Information Retrieval
Data Mining
IT Biomedical Instrumentation
Mathematical Foundations of Big Data Science
Developing and Testing on C#
161 course in a single catalogue

Employees of Innopolis University have put into operation a full catalogue of disciplines taught at Innopolis University. ECTS catalogue contains descriptions of courses of Bachelor and Master’s degree programs. It offers a smart search of courses based on the main features i.e. number of credits, target audience, academic year, semester, instructor, key words, majors. The catalogue helps students to analyse the content of curricula in advance and choose appropriate elective courses.

Education Quality Control System

The platform includes 11 elements, each being implemented at least once a semester.

- Open lectures assessment of candidates applying for teaching positions at Innopolis University.

- On-site evaluation of taught disciplines — unscheduled attendance at lectures of faculty members by their colleagues and the University administration.

- Mid-term assessment of students’ knowledge in order to see their progress. Mid-term student performance evaluation helps to identify students who require additional attention in the form of mentorship, professional orientation meeting, social and psychological support.

- Mid-term meetings with students — course instructors get together with student representatives in the middle of a semester in order to receive their feedback and improve the course.

- Anonymous student opinion poll regarding the quality of courses at the University. It is held at the end of each academic semester prior to examinations. Summary of students’ comments and suggestions is delivered to instructors and the University administration for future work.

- Anonymous student opinion poll regarding instructors’ qualification and the quality of teaching. It is held upon completion of each academic semester prior to examinations.
Faculty reflection refers to questioning of instructors about the course they teach, problems and changes they foresee. It is held after examinations.

During the whole semester professors and teaching assistants work in the LMS Moodle. The system allows them to track activity and performance of students.

Creation of a unified electronic service for students to ask any questions regarding the educational process — education@innopolis.ru.

Tests on cognitive skills of students.

In 2016, employees of the Department of Education presented an educational model of Innopolis University at six international conferences:

- WEEF & GEDC 2016
- Edcrunch 2016
- Moscow International Education Fair 2016
- International Conference of Higher Education Researchers
- American Society for Engineering Education
- Russian Information Services Summit
Interaction of Faculty Members and Students

In 2016, the University introduced the LMS Moodle designed for interaction between faculty members and students. The system includes courses on studied disciplines where instructors and their assistants upload educational materials, give home assignments and check them, provide feedback on completed tasks, organise tests and opinion polls.

**808**
Active users registered in the system

**40 Gb**
Repository of educational materials

Adaptation of educational programs to business needs

In February 2016, the University had a strategic session on development of Bachelor’s degree programs aimed at correction of educational programs considering the current tendencies and demands of the IT market.

Faculty members, the University administration, students and representatives of companies took part in the event, in particular: Yandex, Wargaming, 1C, SKB Kontur, MAYKOR, Innopraktika, ICL, IT Service (Sibur Holding), TaxNet, FIX, IMC, KUKA and Android Techniques.

**Results of the session:**

- Approved list of competencies (hard and soft skills)
- Approved educational program for 1-2nd year of studies
- Updated list of perspective tracks for 3-4th year of studies
- Updated list of applied educational technologies
- Updated list of applied teaching forms, tools and methods
Student Activities

Student Association

In 2016, Student Association continued its work in a new format:

- A new board and new structure of the Association was selected and approved including the Board of Founders, Chairman, a member in charge of fundraising, PR and committees.
- It was approved by a manifest of the Association.

InnoBootCamp

InnoBootCamp is an annual project focused on adaptation of 1st year students to the educational process and extracurricular activities at the University. At the event, young people choose a strategy they prefer to get involved in the University life.

- Orientation seminars
- Lectures and workshops on programming
- English language classes with native speakers
- Trainings on personal development
- Interest clubs
- Sports
- Innopolis city quest

Clubs

40
Clubs organised by students

8
IT clubs

9
Sports clubs

4
Foreign language clubs

10
Other

9
Creative activities clubs
Events

Student Association and volunteer students held 14 entertaining events: cooking battle, Valentines’ Day, New Year, trips to classical music concerts, Halloween, Defender of the Fatherland Day, International Women’s Day etc.

At the Industrial-Academic Weekend, students immersed in the academic and industrial environment for two days.

They were engaged in research in laboratories and worked on real projects.

Students involved in the Student’s Escape school developed projects and events to improve the University life. After the session, students and faculty members gathered for an informal meeting at the Slippers of the Year event, where all participants came dressed up and in slippers.
Competitions

Students became winners and laureates of 20 out of 35 competitions and hackathons they participated in: AI FinTech Hackathon in Saint Petersburg, IX Open Olympiad on Programming of Kazan Federal University held in Kazan, Microsoft Hackschool for students held in Kazan, FashionHackathon in Moscow, InspiRussia Hackathon at Innopolis, AngelHack Innopolis, HackDay in Saint Petersburg, BattleBots by Yandex.Money in Moscow, Hackathon on Intelligent Transport Systems and Human Mobility held in Kazan, GoTo Hack in Moscow, “Our Tatarstan” Forum in Kazan, GS Group in Saint Petersburg, UMNIK Competition.

Football and basketball teams of the University take part in student league competitions of the Republic of Tatarstan.

The University has become a platform for the QCTF Starter competition on cybersecurity for the second year in a row. In total, 22 teams took part in the competition, in comparison to just 8 teams in 2015.

Students of the University organized InnoCTF 2016, a capture-the-flag based competition for newcomers in cybersecurity. Over 20 teams from Innopolis University, Kazan National Research Technical University named after A. N. Tupolev — KAI, Kazan Federal University, Kazan National Research Technological University participated in the competition.

Bonuses for Students

The University has a functioning reward system for students called Innopoints. Students receive Innopoints for active involvement in social life, mentorship and sports activities.

Students attend Sviyaga Hills Mountain-Ski Complex, the Sports Venue in Innopolis and study at the driving school free of charge.
PR and Promotion of IT

In 2016, a new version of the University website was launched.

60 000 visits per month
average website traffic in 2016

Be IT Hero - an interactive first-person game that simulates the admission process to the University was developed and launched.

51 000 People played the game
7 000 People visited the admission page

Members of the Public Relations Office held a panel session and a round-table discussion on research communications with representatives of ITMO, MIPT and popular science projects like PostNauka and Schrodinger’s Cat at the Russian Internet Forum.
Innopolis University has become one of the platforms of the FANK Science Film Festival. During the festival, members of the Public Relations Office organised a round-table discussion on Robotics with the participation of Russian and international experts in Artificial Intelligence and Robotics.

As part of the Russian Robot Olympiad, the University made a research involving 300 children interested in Robotics.

Together with the TRIK company and N+1 popular science project, the University organised the world’s first robot football match with robots controlled via Twitter. As a result, #впо2016 remained in the top of the Russian Twitter for two days.
The University launched an Instagram account and several columns in social networks providing information about outstanding students, book reviews and interesting IT facts.
The University made its own research on information security as part of ICL IT & Security Forum. Articles about research are published in 48 Russian media sources: Kommersant, Slon, Forbs, Vedomosti, Argumenty i Fakty, Federal Press, Dozhd, RT, RBK, Meduza, VC, Rusbase, Newsru, DW, Roem etc.

Besides, the University conducted research on cybersecurity at industrial facilities among participants of the IV CyberSecurity Conference 2016: Unite and Act. Research materials are published in Kommersant and other Russian media sources.

The University released WRO 2016 Diary, a documentary film that tells a story about the Russian national team at the World Robot Olympiad in India.
Members of the University press service have developed and are working on release of the game called «2nd Chance» for iOS and Android.

**Medialogy Report**

In 2016, members of the Public Relations Office helped to release **2 177 media publications** with a reference to Innopolis University, which is 1 000 publications more than in 2015.
Timur Fazullin
Director for Public Relations at Innopolis University

“The task of Public Relations Office is to tell about achievements and discoveries made by faculty members, employees and students of the University and illustrate stories of successful cooperation between science and industry. Efficient operation of the University and enthusiasm of all its divisions about promotion of Innopolis University are our chief weapons. I am glad that Innopolis University has many interesting projects made by smart and highly motivated people”.
Events

The University welcomed 160 delegations from international and Russian governmental agencies, high-technology companies, educational and research institutions.

In 2016, the University organised 129 events which is twice more than in the previous year, when the total number of events was 56.

Guest Lectures

In addition to the main classes in the framework of the educational programs, Innopolis University organises guest lectures on a monthly basis. During 2016, 16 experts gave lectures to students of the IT University.

**Antonio Calabrese**
Head of Information Systems at Ferrari F1 team of the Formula One World Drivers’ Championship

**Ares**
Hacker, developer of the Interceptor-NG service for traffic interception who used to work with Edward Snowden

**Eugene Kaspersky**
CEO and Founder of Kaspersky Lab

**Danny Perekalsky**
CEO of Ozon.ru
# Key Events Overview

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<tr>
<th>Event</th>
<th>Location/Details</th>
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<td>Regional and federal schools of Olympiad programming and Informatics</td>
<td>Participation in Finnopolis, the second Forum of Innovative Financial Technologies</td>
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<td>Opening of the Wall of Partners at Innopolis University</td>
<td>Opening of the Wall of Partners at Innopolis University</td>
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<tr>
<td>Information Technology of Industrial Russia, the largest IT forum</td>
<td>IV Annual International CyberSecurity Conference organised together with Kaspersky Lab</td>
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<td>for industry in the Eastern Europe</td>
<td>Development of a testing system for the 28th International Olympiad on Informatics (IOI 2016)</td>
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<tr>
<td>Participation in Army 2016 International Military Technology Forum</td>
<td>InTech conference and hackathon organised together with SberbankTechnologies</td>
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<td>Participation in the Open Innovations International Forum</td>
<td>AngeHack Innopolis, a stage of the world’s largest hackathon</td>
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<tr>
<td>Participation in the World Robot Olympiad 2016</td>
<td>Russian Robot Olympiad</td>
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Pre-University Training and Olympiad Movement

The Open Olympiad in Informatics of Innopolis University

In 2016, the Open Olympiad in Informatics of Innopolis University joined the list of Olympiads approved by the Russian Council on Olympiads for the third-level schoolchildren and got the international status. The on-site stage of the competition is held in Innopolis and in Minsk. 4,687 people from 56 countries registered for the selections, including 109 young participants who took part in the Russian Olympiad on Informatics and Mathematics for Schoolchildren 2016.

The Russian Robot Olympiad

Since 2014 Innopolis University has been an official operator of the Russian Robot Olympiad. In June 2016, the University welcomed 577 participants from 51 Russian regions, including 47 young people who joined the Russian national team that took part in the World Robot Olympiad held in India.

The World Robot Olympiad

Innopolis University formed and trained the Russian national team for participation in the World Robot Olympiad 2016. In total, 21 team from 11 regions went to the competition held in New Delhi. During three days of the Olympiad, Russian robotics enthusiasts won two golden medals (Technopark MPL from Murmansk and OWC-2016 from Saint Petersburg), one silver medal (RoboHand from Saint Petersburg) and a bronze one (Fixies from Innopolis).

Olympiad of the National Technology Initiative

In 2016, Innopolis University launched a new Russian Olympiad designed to form and develop engineering teams consisting of Russian schoolchildren. Participants of the new Intelligent Robotic Systems track will handle real-life challenges of the robotic industry.

1,104 Participants
71 Russian regions
7 CIS countries
“Open Olympiads on Mathematics and Programming held by Innopolis University are two large-scale projects for schoolchildren that the University has been organising since 2014. In 2016, both Olympiads joined the list of academic competitions approved by the Russian Council on Olympiads thus allowing to count the scores obtained by our participants as admission tests to the Russian higher education institutions. The competitions got the international status and in 2017 will be held on two platforms — in Russia and in Belarus”.

Olga Kornienko
Head of the Subject-Oriented Academic Competitions Office
Team-Based Programming Olympiad for Schoolchildren

The University held a regional stage of the Russian Team-Based Olympiad on Programming for Schoolchildren. In addition to local schoolchildren, the competition was attended by participants from Samara and Izhevsk where the regional stages were not held. 6 teams from the Republic of Tatarstan, including 3 awarded with certificates of honour, took part in the 17th Russian Team-Based Programming Olympiad for Schoolchildren.

57 165
Teams Participants

Schools of Olympiad Training

During summer and winter holidays, the University organises Schools of Olympiad Training on Robotics and Programming. During the training, young people have a chance to improve their knowledge and practice skills related to the Olympiad tasks.

Robotics

58 people, 2 Russian regions

Programming

121 people, 18 Russian regions and 3 CIS countries

Training Boot Camps

The University has held two Boot Camps on Robotics and six Boot Camps on Programming for training and selection of schoolchildren for the teams of Russia and the Republic of Tatarstan. The national teams will participate in the Russian Robot Olympiad, the World Robot Olympiad, the International and Russian Olympiads on Programming.

Robotics

179 people from 17 Russian regions

Programming

191 people from Tatarstan
Защита периметра сети
Защита персональных данных
Управление рисками
Стандарты и законы в области ИБ
Риск-менеджмент в управлении ИБ
Безопасный город
На основе опроса Университета Иннополис участников форума IT & Security / 2016
STEM-Centres

In the STEM-Centres schoolchildren of the Republic of Tatarstan get ready for the Russian Olympiad for Schoolchildren and admission to universities in the groups of additional and Olympiad training.

Groups of additional training in 2016-2017:

Mathematics
214 people

Programming
511 people

Robotics
219 people

Olympiad Training

Groups on Programming consist of 61 people, including 16 children who took part in the Russian Olympiad on Informatics for Schoolchildren. Two participants became winners and seven more got prizes. Three schoolchildren joined the Russian national team on programming, including one participant who received a bronze medal at WRO 2016.

Distant School of Robotics

During the last academic year, schoolchildren were challenged with robotic tasks and sent them to the University to be checked. Students discuss the completed tasks with instructors and get feedback.

The school is open for all Russian schoolchildren. In the recent academic year, it included 50 students from 8 Russian regions.

Courses of advanced training for teachers

Every year, Innopolis University provides advanced training for teachers from all Russian regions. In 2016, the University organised 2 events attended by 88 teachers from 17 regions.