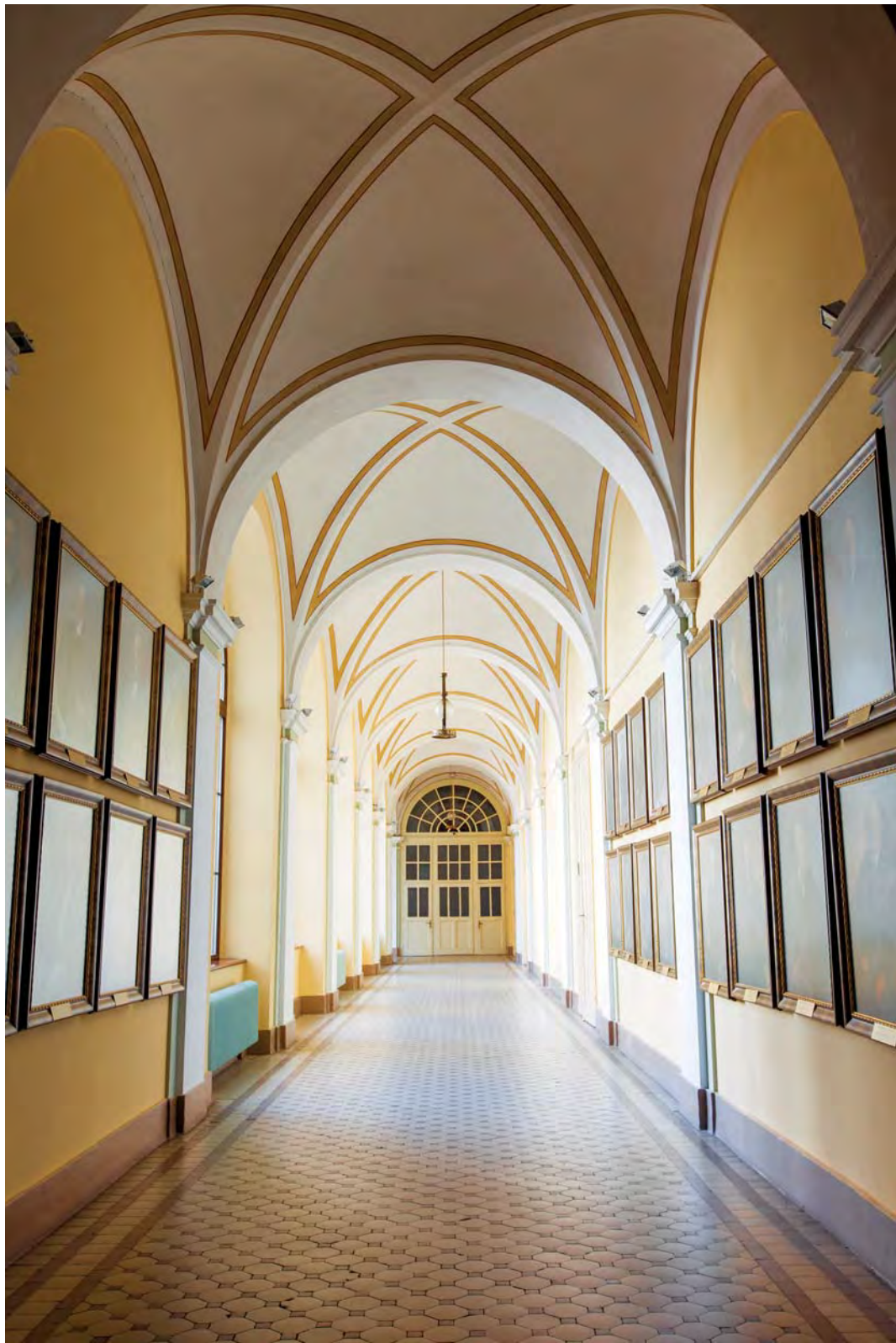


Lviv  
Polytechnic  
National  
University

# CONTENTS

Foreword from Rector	4	8. SCIENTIFIC RESEARCH WORK	30
About Lviv Polytechnic	6	— Major Research Areas	
1. LVIV POLYTECHNIC IN FIGURES	8	— Funding of research works and projects	
2. ADMINISTRATION	10	— Scientific Publications	
3. STRATEGY	12	— Postgraduate and Doctoral Studies	
4. OUR ADVANTAGES	14	9. INNOVATIVE ACTIVITIES	36
5. ACHIEVEMENTS AND AWARDS	16	— Cooperation with Enterprises	
— Lviv Polytechnic in Rankings		— Patents	
— Achievements and Scientific Awards		— Innovative Structures	
6. UNIVERSITY STAFF	20	10. INTERNATIONAL COOPERATION	44
7. HIGH-QUALITY EDUCATION	22	— Areas of Development	
— Institutes and Colleges		— Membership in International Organizations	
— Student Body		— International Cooperation Agreements	
— The Number of Students in Institutes		— International educational and scientific cooperation	
— State-funded/Commercial Students		11. INFORMATION SUPPORT	48
— The Number of International Students		12. MARKETING ACTIVITIES	52
— International Students by Countries		13. THE CAMPUS	56
— University Graduates		14. CULTURE	60
— Academic Disciplines Taught in English		15. SPORTS AND RECREATION	66



# Foreword from Rector



You are holding in your hands the prospectus that describes the present and the future of the oldest academic technical educational institution of Ukraine and one of the oldest technical schools in Eastern Europe – Lviv Polytechnic National University. It is dedicated to the University's 200<sup>th</sup> anniversary.

I hope that having read the information presented you will greatly enrich your knowledge about our University and learn many new interesting facts about the present-day Lviv Polytechnic. Through the years the University has been committed to the motto imprinted on the attic of the façade of its main building LITTERIS ET ARTIBUS – TO SCIENCE AND ARTS, being continuously involved in education and training of the scientific and technical elite of the nation, while remaining an integral part of the European and global scientific environment.

We are trying to appropriately reconstruct our history and to be active in building the future of our country. Thus, in historical perspective, we identify ourselves as Europeans, tirelessly paving the way to civilized intellectual and cultural world. There is no alternative to this as we see Ukraine among the most developed nations of Europe and the world.

There is another aspect that characterizes the historical image of the 200-year-old Lviv Polytechnic. Our University has always been distinguished for its dynamic development and democratic nature. The University's adherence to the humanistic ideals of goodness, justice, and freedom, being in line with the best university traditions, is a guarantee of the sustainable development and progress of our Alma Mater.

*Rector*



*Professor Yuriy Bobalo*



# 200 YEARS OF SERVICE TO SCIENCES AND ARTS

Being the oldest and largest academic technical educational institution of Ukraine and Eastern Europe Lviv Polytechnic National University is celebrating its glorious 200th anniversary. The University traces its roots from Imperial-Royal Real School in Lviv founded in 1816 that soon became a well-known scientific, intellectual and educational centre, the place where national culture, freedom and democracy were cherished.

Lviv Polytechnic is the University of three centuries – XIX, XX and XXI. It is a historic brand, the essence of which is encoded in the immortal words of the oath: *Litteris et Artibus* – to Science and Arts – to which dozens of Lviv Polytechnic generations have been faithful.

Lviv Polytechnic has always been associated with moving forward, combining the energy of the young with the wisdom of mature years.

For three centuries of its development the university has been an integral part of European technical science, gained high reputation for training high-quality engineers, designers and scientists.

We are proud of the fact that one of the creators of modern functional analysis and the founder of Lviv mathematic school Stefan Banach worked in Lviv Polytechnic. Among the world recognized scientists who worked in Lviv Polytechnic there were Maximilian Huber, Dominik Zbrozhek, Ignacy Moscicki, Kazimierz Bartel, Ivan Lewinski, Maximilian Tulliye, Karol Skibinski, Dmytro Tolopko, Kyrylo Mikhalevych, Markiy Medvid', Hryhorii Denisenko, Havriil Sokolnitskyi, Yurii Velychko.

Outstanding scientists, social and political activists of the XX century Bruno Schulz, Stanislav Uliam, Roman Shukhevych, Stepan Bandera were graduates of the University. All of them were people of different nationalities but they were united by the filial devotion to their Alma Mater.

Our pride and our relic – the main university building, built in 1877 in the style of late Renaissance under the guidance of the then-rector Professor Julian Zakhariyevych – is a real gem of the architecture of Lviv. The attic with a three-figure sculptural composition, whose author is the famous sculptor Leonardo Marconi, crowns the building.

New generations of Lviv Polytechnic graduates preserve and multiply the unbreakable traditions of the older generations. Many Polytechnic graduates occupy senior positions in government, business and financial structures, science and education. Among them – Dmytro Shymkiv, Liliya Hrynevych, Olexandr Shlapak, Yurii Lutsenko, Oleksiy Skrypnyk, Andriy Sadovyi, Mykola Kmit, Petro Pysarchuk, Stepan Kubiv, Mark Zarkhin, Tsakhiagiin Elbegdorzh, Oksana Yurynets, Oleh Serheyev and others.

Today Lviv Polytechnic National University comprises 16 academic institutes, as well as the Institute of Distance Education and the International Institute of Education, Culture and Relations with Diaspora. At present the University trains more than 35 thousand students. The results of the expert rating show that recently Lviv Polytechnic has been among the top five higher educational institutions of Ukraine.

Improvement of education and research effectiveness, fruitful cooperation with international centres and foundations, formation of innovation infrastructure are the main priorities of Lviv Polytechnic, which ensure its reputation and recognition at present and guarantee its prestige for the future.

1 • Lviv  
Polytechnic  
in figures

**35 000**  
STUDENTS

**2 000+**  
PROFESSIONALS



**16** ACADEMIC  
INSTITUTES

**200**  
YEARS OF EXPERIENCE

**TOP5** UNIVERSITIES  
IN UKRAINE

## 2 • Administration



**Rector**

**Yuriy Bobalo**  
 Doctor of Science in Technology, Full Professor, Corresponding Member of National Academy of Pedagogical Sciences of Ukraine



**First Vice-Rector**

**Volodymyr Pavlysh**  
 PhD in Technology, Professor



**Vice-Rector for Scientific Research**

**Nataliya Chukhray**  
 Doctor of Science in Economics, Full Professor



**Vice-Rector for Education and International Relations**

**Oleh Matviykyv**  
 Doctor of Science in Technology, Associate Professor



**Vice-Rector for Economic Affairs – Chief Accountant**

**Anatoliy Moroz**  
 PhD in Economics, Associate Professor



**Vice-Rector for Undergraduate Education**

**Dmytro Fedasiuk**  
 Doctor of Science in Technology, Full Professor



**Vice-Rector for Graduate Education**

**Oleh Davydchak**  
 PhD in Technology, Associate Professor



**Vice-Rector for Scientific and Pedagogical Work**

**Roman Korzh**  
 PhD in Technology, Associate Professor



**Vice-Rector for Training and Production**

**Volodymyr Krayovskyy**  
 PhD in Technology



**University Academic Secretary**

**Roman Brylynsky**  
 PhD in Technology, Associate Professor



## 3 • Strategy

### **MISSION:**

to form the generation of creative leaders and to develop innovative solutions

### **UNIVERSITY POSITIONING:**

international high-technology centre of developing a personality, creating and implementing innovations

### **SLOGAN:**

“Modern technologies are born right here!”

### **UNIVERSITY OBJECTIVES:**

- to ensure free access to higher education to all those willing and having sufficient knowledge for it;
- to develop modern curricula, academic facilities, and to provide highly intellectual teaching staff;
- to develop modern high-technology scientific products being the result of research, comprehensive development of Lviv Polytechnic research staff and cooperation with other Ukrainian and international higher schools;
- to be involved into the development of the Ukrainian society as a whole and Western regions of Ukraine, in particular, through contributing into education of highly educated and patriotic citizens.

## CORPORATE VALUES

*Experience.* The university is using its 200-year experience of teaching and doing research applying modern approaches and methods, maintaining the reputation of a leader in the field of education and scientific research.

*Professionalism.* The University shapes educational and research system combining the best teaching staff, clear methodical support, modern material and technical facilities as well as decent living conditions.

*Respect to an individual.* We respect every person regardless of their race, nationality, religion, gender and social status. The relationships in a multicultural environment of Lviv Polytechnic are based on the principles of mutual help and understanding. We are advocates of preserving cultural identity and spiritual enrichment of the nation through contacts with other cultures.

*Versatility.* We believe that Lviv Polytechnic National University being the Western Ukraine's largest technical university provides opportunities for professional development of its staff, student training and education according to the historical and patriotic traditions of our university. We try to respond to the needs of all the participants of teaching and research process.

*Decency.* We always act in conformity with applicable laws, requirements of teaching and labour discipline, ethical norms and honorably fulfill our commitments.

## THE TASKS OF LVIV POLYTECHNIC TILL 2020

- To position the University as a powerful educational and scientific, innovative, world competitive centre, able to respond quickly to educational, scientific, cultural and social needs of society
- To create a modern system of training highly qualified specialists based on deep fundamental knowledge and specialized practical training, who will be able to make a significant contribution to the development of industry, science, education and culture of the Ukrainian state
- To maximally expand the range and improve the quality of educational services
- To create innovative infrastructure and effective system of commercialization of scientific developments and technology transfer
- To ensure the integration of the University into the European educational and scientific space
- To effectively and efficiently meet the social needs of University staff and students
- To improve youth policy and develop student government

## 4 • Our advantages

### 15 ADVANTAGES

- 1 The combination of classical education and innovative technologies

---

- 2 High quality education and international recognition of diplomas

---

- 3 Scientific career from Bachelor's and Master's degrees to PhD and Doctor of Science

---

- 4 Possibility to obtain a second higher education

---

- 5 International cooperation: exchanges, training and internship abroad (France, Poland, Germany, Canada, the USA)

---

- 6 Possibility of advanced study of foreign languages

---

- 7 Teaching specialized disciplines in English

---

- 8 Modern material and technical basis for laboratory work and research

---

- 9 Possibility to be employed in successful Ukrainian and foreign companies, in which students take practical training while studying

---

- 10 Possibility of getting accommodation in the University halls of residence

---

- 11 Free access to the Internet and e-library

---

- 12 Versatile student life (dancing, singing, acting studios, students' festivals, concerts, discos etc.)

---

- 13 Availability of Sports Complex (sports hall, swimming pool, shooting range, ski base)

---

- 14 Possibility of getting military training

---

- 15 Availability of medical sanatorium and recreational and entertainment infrastructure



# 5 • Achievements and Awards

## LVIV POLYTECHNIC IN RANKINGS

THE WORLD  
UNIVERSITY  
RANKINGS  
OF BRITISH  
NEWSPAPER  
TIMES HIGHER  
EDUCATION



(September 2016)

*801+ place*

The main indicators are international student and staff mobility, the number of international scholarship programmes, the level of scientific investigations, contribution to innovations, citation of scientific publications, the level of educational services etc.

QS UNIVERSITY  
RANKINGS:  
EECA



*101<sup>th</sup> place*

The ranking includes universities in 22 developing countries of Europe and Central Asia. The main indicators are academic reputation of the university, academic staff-to-student ratio, university reputation among employers, the number of foreign students and teachers, the number of scientific papers and citations of university scientists, the number of staff with academic degrees.

INTERNATIONAL  
RANKING OF  
INTERNET-  
PRESENCE  
WEBOMETRICS  
(2016)



*The 4<sup>th</sup> place* among higher education institutions of Ukraine and the 2278<sup>th</sup> place in the world ranking.

It acknowledges the level of integration into the global information space and the authority of a university.



RANKING BY  
THE NUMBER OF  
PUBLICATION  
CITATIONS  
(JUNE 2016)



*The 10<sup>th</sup> place* among 128 higher education institutions of Ukraine.

(Articles in scientific publications)

In author-level metric Scopus database. Evaluation criteria are the number of scientific publications and their citations (Hirsch index).

ACADEMIC  
RANKING “TOP-  
200 UKRAINE”  
DRAWN UP BY  
THE UNESCO  
(2016)



*The 5<sup>th</sup> place* among higher education institutions of Ukraine.

It focuses on such criteria as the quality of research and teaching capacity, the overall quality of the education delivered, international recognition indicators.

CONSOLIDATED  
RANKING OF  
UNIVERSITIES  
IN UKRAINE  
(2016)



*The 6<sup>th</sup> place* among higher education institutions of Ukraine.

It is based on the rankings of UNESCO “TOP-200 Ukraine”, Scopus and Webometrics.

TRANSPARENCY  
RANKING  
(ACCORDING  
TO ANALYTICAL  
CENTRES  
CEDOS) (2016)



*The 7<sup>th</sup> place* among higher education institutions of Ukraine.

This ranking is based on the following indicators: online information about learning content of higher education institutions, administrative and financial transparency, online strategic development plan, online information about job and international exchange opportunities.

INTERNATIONAL  
RANKING WEB  
OF REPOSITORIES  
(2016)



*The 2<sup>nd</sup> place* among higher education institutions of Ukraine and the 344<sup>th</sup> place in the world ranking.

## ACHIEVEMENTS AND SCIENTIFIC AWARDS

Every year the University scientists and researchers participate in national and international exhibitions, such as “Modern Education in Ukraine”, “Education of Ukraine”, “Innovative Technologies for Learning”, “Innovation in Education of Ukraine”, “Landscape Architecture and Design”, “Landscape Garden”, “Modern Education Institutions”, “Education and Career”, “Modern Education Establishments”, “New Time”, “Iwis-International Warsaw Inventions Show”, “Innovation in Modern Education”, “Arms and Security” etc.

In particular, in 2016 the University participated in 29 national and 41 international exhibitions. There were displayed 240 exhibits, including 125 - at international and 115 - at state and national exhibitions.



## *During 2015-2016, Lviv Polytechnic University received awards at the following exhibitions:*

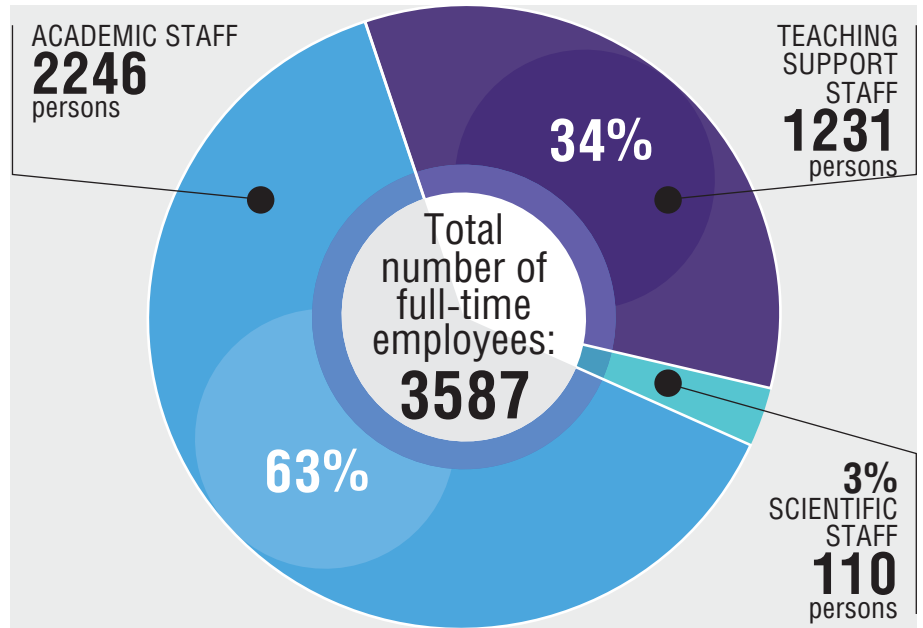
- Grand Prix Diploma “Leader of International Activities” for strong performance in the rating exhibition contest “International Activities” at VI and VII International Exhibitions “Modern Educational Establishments”.
- Golden medal in the category “Innovations in the development of international cooperation and presentation of national education in the global and European educational and scientific spaces” at VI and VII International Exhibitions “Modern Educational Establishments”.
- Certificate of Merit for significant personal contribution to the modernization of the national education system at VI International Exhibition “Modern Educational Establishments – 2015”.
- Diploma for creative work on improving the quality of national education at VI and VII International Exhibitions “Modern Educational Establishments”.
- Certificate for quality of scientific publications at VI and VII International Exhibitions “Modern Educational Establishments”.
- The 1st Degree Laureate Diplomas of VII International Forum “Innovation in Higher Education”.

## *The following facts prove high level of research done at Lviv Polytechnic over the past five years:*

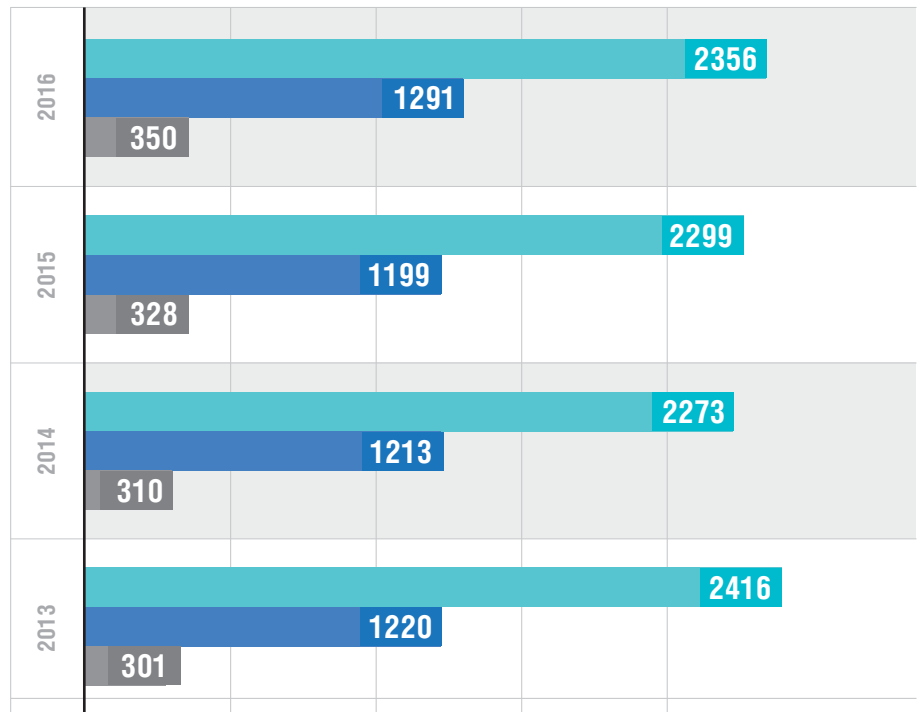
- five State Prizes of Ukraine in the field of science and engineering;
- State Prize of Ukraine in the field of architecture;
- two state awards of other countries (Japan and Poland);
- 16 grants from the President of Ukraine to support young scientists’ research work;
- two grants from the President of Ukraine to Doctors of Sciences to support their scientific research;
- annual grant from the President of Ukraine for gifted young people;
- six annual prizes of the President of Ukraine for young scientists;
- six prizes of the Verkhovna Rada of Ukraine to the most talented young scientists in the field of fundamental and applied research, research and development;
- six scholarships from the Verkhovna Rada of Ukraine;
- 12 scholarships from the Cabinet of Ministers of Ukraine for young scholars;
- and more than 100 other national and municipal awards


# 6 • University Staff


## TOTAL NUMBER OF FULL-TIME EMPLOYEES:




## ACADEMIC AND SCIENTIFIC STAFF



 Total, persons |

 PhD, persons |

 Doctor of Science, persons |



# 7 • High Quality Education

## INSTITUTES AND COLLEGES

### ACADEMIC INSTITUTES

#### INSTITUTE OF ARCHITECTURE (IARCH)

(trains specialists in the fields of architecture and construction, arts and culture).

#### INSTITUTE OF BUILDING AND ENVIRONMENTAL ENGINEERING (IBEE)

(provides teaching of fundamental and professionally oriented engineering disciplines and trains specialists in the fields of architecture and construction, civil safety).

#### INSTITUTE OF GEODESY (IGD)

(trains specialists in the fields of geodesy, land planning, and Earth sciences for environmental monitoring using geodesy, geodynamics, remote sensing and mathematical modeling methods).

#### INSTITUTE OF HUMANITIES AND SOCIAL SCIENCES (IHSS)

(provides teaching of humanities and social sciences and trains specialists in the fields of information technologies, social and behavioral sciences, arts and culture, social work).

#### VYACHESLAV CHORNOVIL INSTITUTE OF ECOLOGY, NATURE PROTECTION AND TOURISM (IENP)

(trains specialists in the fields of natural sciences, manufacturing and technologies, management and administration, service sector, social and behavioral sciences).

#### INSTITUTE OF POWER ENGINEERING AND CONTROL SYSTEMS (IPEC)

(provides teaching of fundamental and professionally oriented engineering disciplines and trains specialists in the fields of electrical engineering, automation and instrument making).

#### INSTITUTE OF ECONOMICS AND MANAGEMENT (IEM)

(trains specialists in the fields of social and behavioral sciences, management and administration).

#### INSTITUTE OF JURISPRUDENCE AND PSYCHOLOGY (IJPS)

(trains specialists in the fields of social and behavioral sciences, law and journalism).

#### INSTITUTE OF ENGINEERING MECHANICS AND TRANSPORT (IEMT)

(trains specialists in the field of engineering mechanics and transport).

## **INSTITUTE OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGIES (ICSIT)**

(trains specialists in the fields of information technologies, social sciences, manufacturing and technologies).

## **INSTITUTE OF COMPUTER TECHNOLOGIES, AUTOMATION AND METROLOGY (ICTA)**

(trains specialists in the fields of information technologies, automation and instrument making).

## **INSTITUTE OF ENTERPRISE AND ADVANCED TECHNOLOGIES (IEAT)**

(trains specialists in the fields of social and behavioral sciences, management and administration, information technologies).

## **INSTITUTE OF APPLIED MATHEMATICS AND FUNDAMENTAL SCIENCES (IMFS)**

(trains specialists in the fields of social and behavioral sciences, natural sciences, mathematics and statistics, information technologies).

## **INSTITUTE OF TELECOMMUNICATION, RADIOELECTRONICS AND ELECTRONIC ENGINEERING (ITRE)**

(trains specialists in the fields of automation and instrument making, electronics and telecommunication).

## **INSTITUTE OF CHEMISTRY AND CHEMICAL TECHNOLOGIES (ICCT)**

(trains specialists in the fields of chemical bioengineering, mechanical engineering, manufacturing and technologies, healthcare).

## **INSTITUTE OF ADMINISTRATION AND POSTGRADUATE EDUCATION (IAPE)**

(provides programs for students of Bachelor, Specialist and Master degrees and professional development courses for specialists in all fields and specialties licensed at the University).

as well as

## **INSTITUTE OF DISTANCE EDUCATION (IDE)**

(provides an opportunity for students to gain basic higher education on-the-job; education process is conducted by using distance learning technologies such as video classes with electronic textbooks, manuals and other methodological support).

## **INTERNATIONAL INSTITUTE OF EDUCATION, CULTURE AND DIASPORA RELATIONS (IECDR)**

(was established for developing cooperation with higher education institutions, strengthening educational and cultural relations with the Ukrainian diaspora).

## COLLEGES

- ZOLOCHIV COLLEGE
- KOLOMYYA POLYTECHNIC COLLEGE
- LVIV AUTOMOBILE AND ROAD COLLEGE
- LVIV COLLEGE “INFOCOMMUNICATIONS”
- TECHNICAL AND ECONOMIC COLLEGE
- TECHNICAL COLLEGE
- TECHNOLOGICAL COLLEGE
- KHMELNYTSKYI POLYTECHNIC COLLEGE





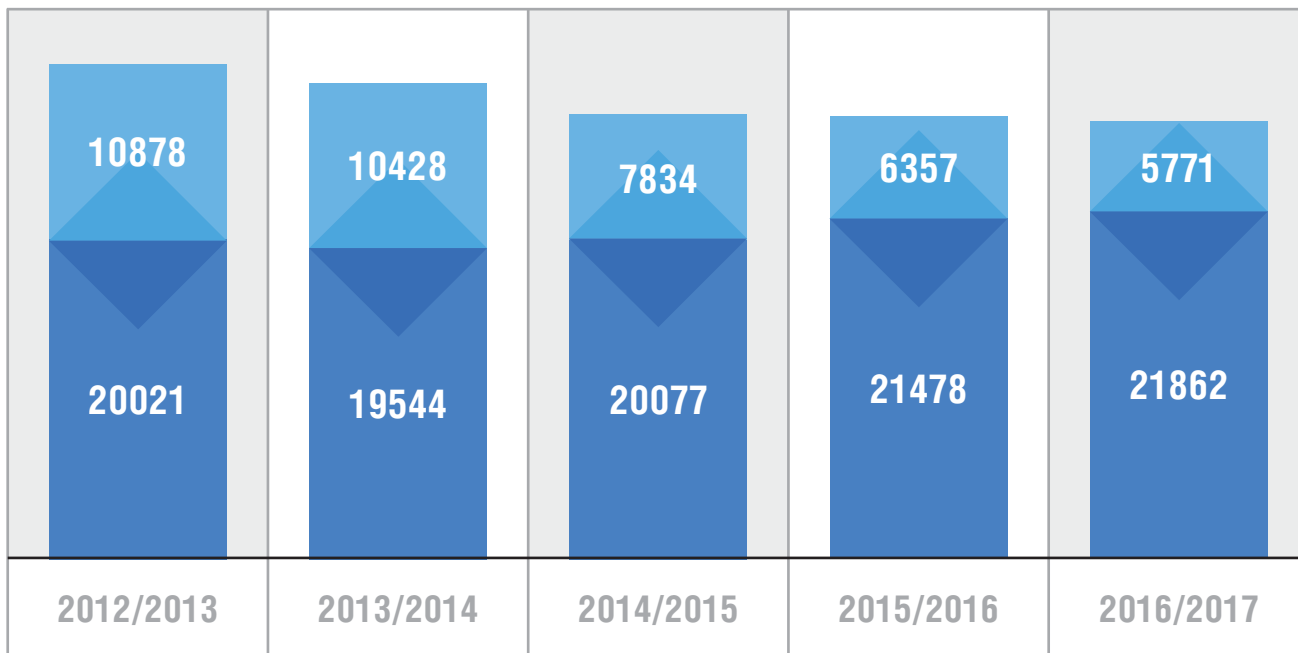
# STUDENT BODY

Lviv Polytechnic is one of the biggest universities in Ukraine. The University total enrollment in **2016 is 27633 students.**

Total student enrollment

2012	2013	2014	2015	2016
<b>30899</b>	<b>29972</b>	<b>27911</b>	<b>27835</b>	<b>27633</b>

Changes in the number of full-time and distance learning students during the years 2011–2017 are shown in the figure.

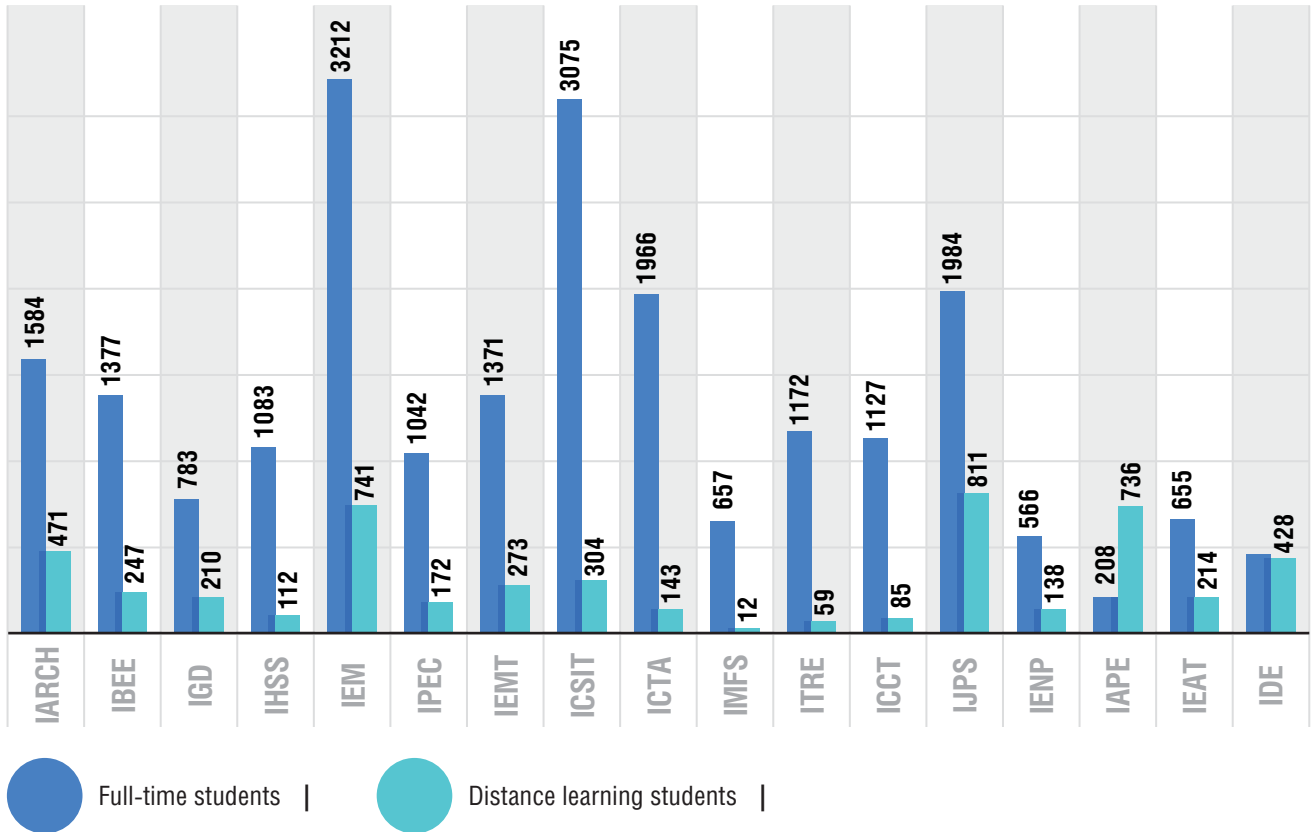


● Full-time students | ● Distance learning students |

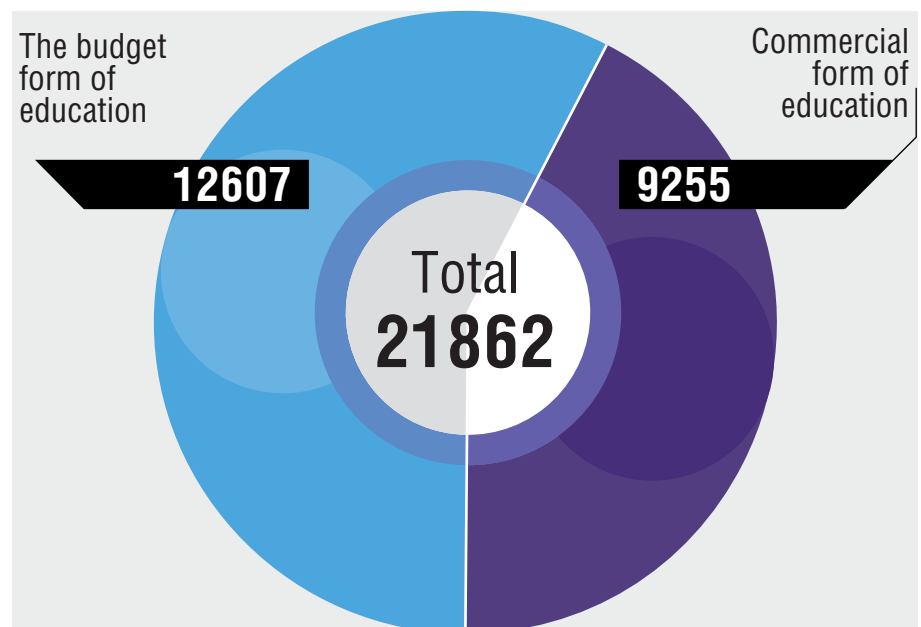


## THE NUMBER OF STUDENTS IN INSTITUTES

The leading academic institutes with the largest number of students are: Institute of Economics and Management, Institute of Computer Science and Information Technologies, Institute of Jurisprudence and Psychology and Institute of Computer Technologies, Automation and Metrology.



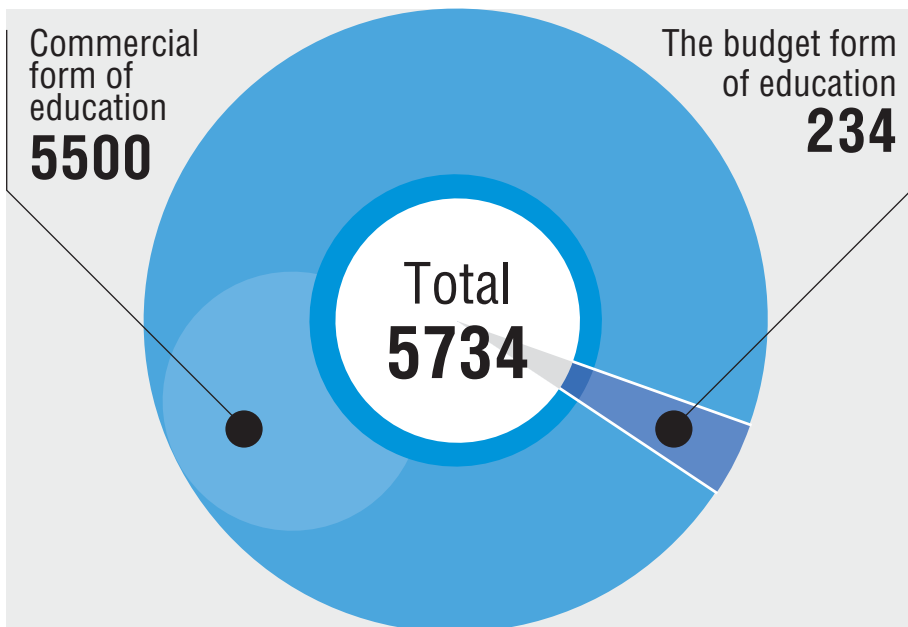
## STATE-FUNDED/ COMMERCIAL STUDENTS





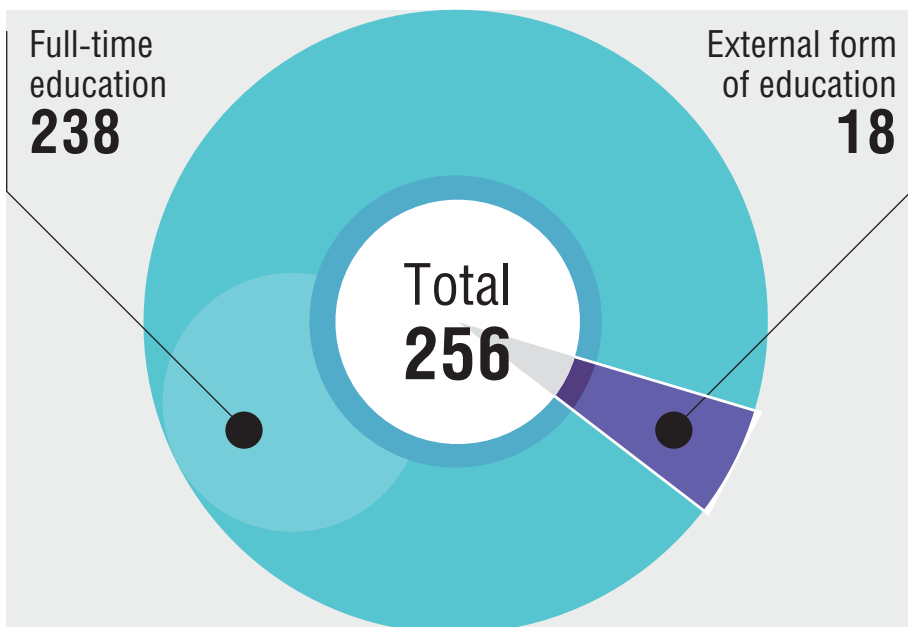
## DISTANCE LEARNING STUDENTS

Distance learning students



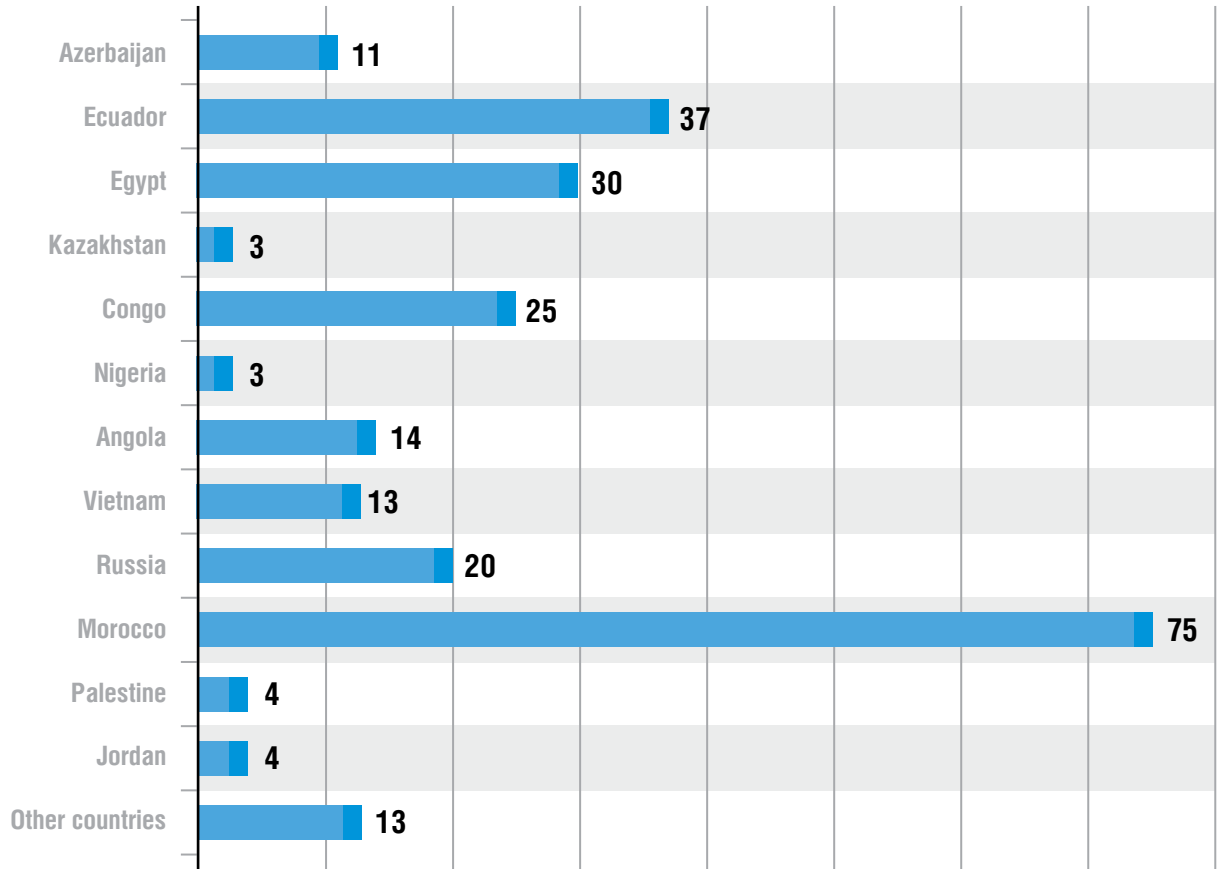
## INTERNATIONAL STUDENTS

The total number of foreign students is one of the main indicators of the degree of internationalization of the university.

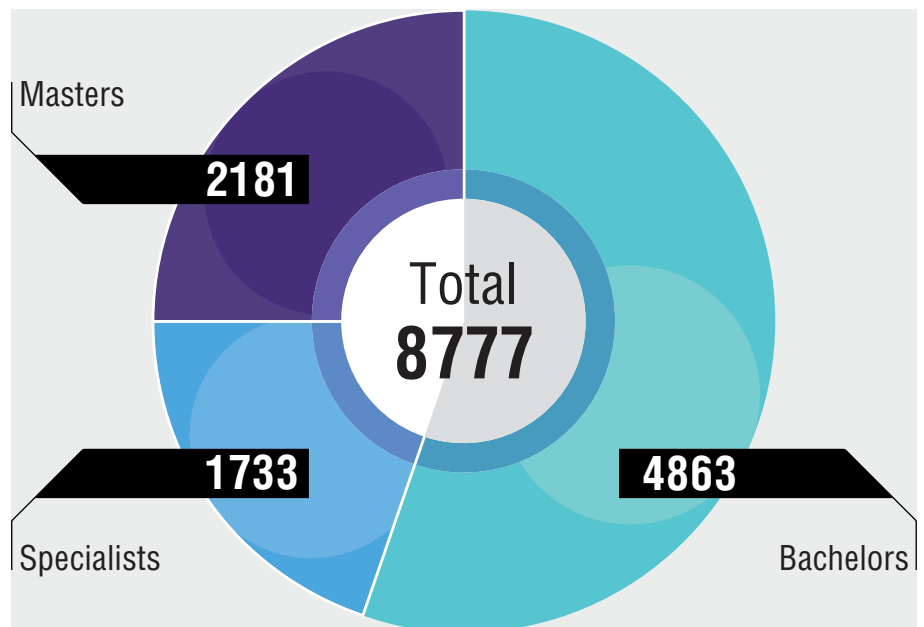


## INTERNATIONAL STUDENTS BY COUNTRIES

The vast majority of foreign students are from Ecuador, Egypt, Congo and Morocco.



## GRADUATES



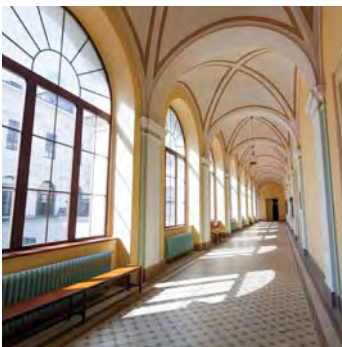
## **ACADEMIC DISCIPLINES TAUGHT IN FOREIGN LANGUAGES (ENGLISH)**

The University provides training courses in foreign languages in the following fields of study:

- **ARCHITECTURE**
- **ART**
- **CIVIL ENGINEERING**
- **GEODESY AND REALLOCATION OF LAND**
- **GEODESY**
- **SOCIAL AND BEHAVIORAL SCIENCE** (specialty «International relations, public communications and regional studies»)
- **SOCIAL AND BEHAVIORAL SCIENCE; SOCIOLOGY**
- **SOCIAL WORK**
- **AUTOMATION AND INSTRUMENT ENGINEERING**
- **TECHNICAL COURSES**
- **ELECTRICAL ENGINEERING**
- **MECHANICAL ENGINEERING**
- **INFORMATION TECHNOLOGIES**
- **ENGINEERING SCIENCES**
- **INFORMATICS**
- **HUMANITIES**
- **METROLOGY, MEASURING TECHNIQUE AND INFORMATION**
- **INFORMATION TECHNOLOGY**
- **MANAGEMENT AND ADMINISTRATION**
- **SPECIFIC CATEGORIES** (Economics)
- **INTERNATIONAL CREDIT-SETTLEMENT AND CURRENCY TRANSACTIONS**
- **ECONOMICS AND BUSINESS**
- **ECONOMICS**
- **MANAGEMENT OF FINANCIAL AND ECONOMIC SECURITY**
- **ADMINISTRATIVE MANAGEMENT**
- **RADIO ENGINEERING, RADIO-ELECTRONIC APPARATUS AND COMMUNICATION**

# 8 • Scientific Research Work

## MAJOR RESEARCH AREAS

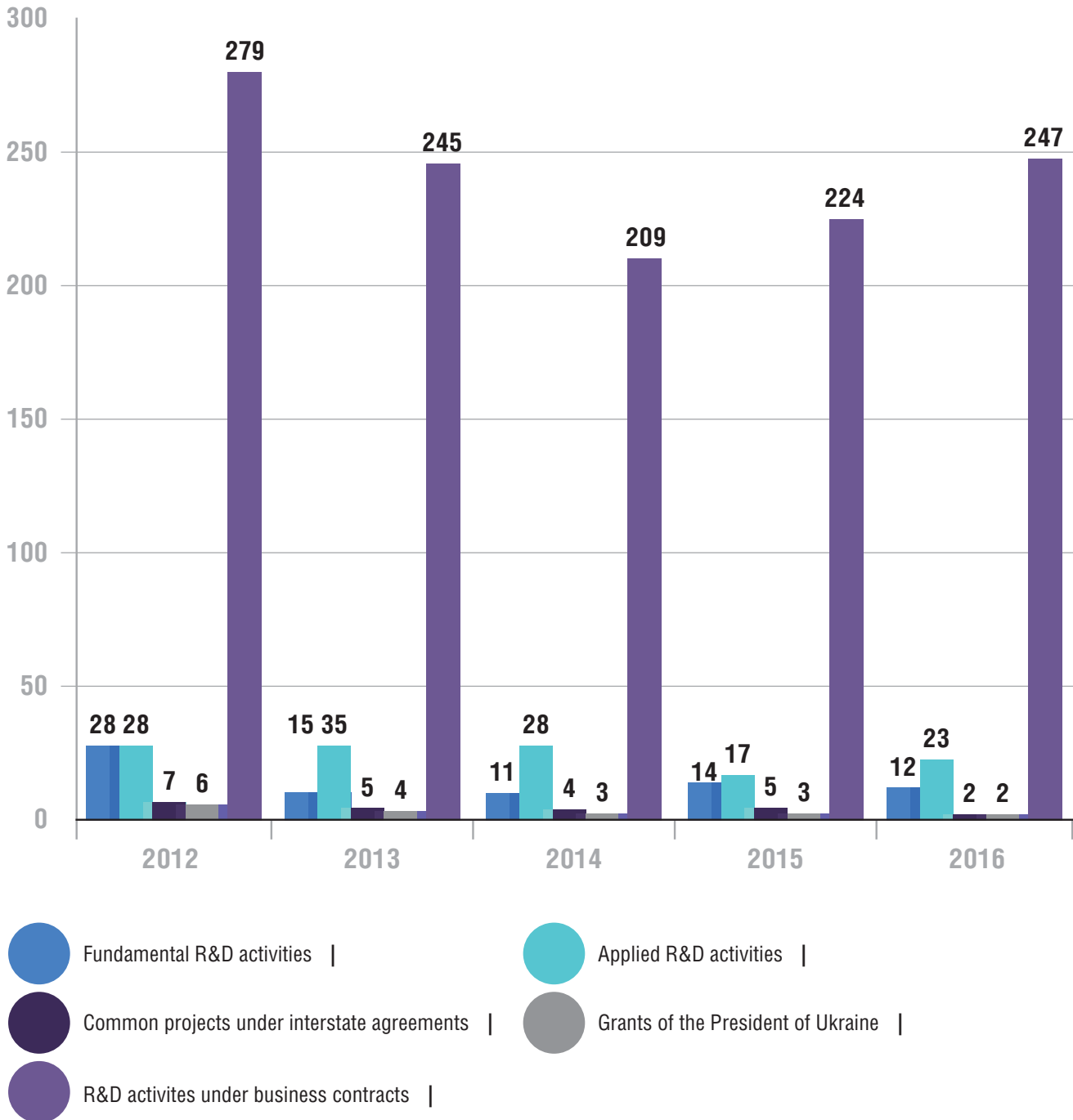


1. Formation of people's dwelling environment through architecture and city planning.
2. Theoretical and experimental research of construction design of buildings, structures and bridges, development of energy and resource efficient construction technologies, progressive building materials and improvement of energy efficiency of heat and gas supply systems and water conservation.
3. Geoinformation monitoring and environmental assessment using methods of geodesy, cartography, remote sensing and land cadastre.
4. Topical issues of Humanitarian and Social Sciences.
5. Resource-saving technologies, environmental protection measures, and principles of assessment and utilisation of recreational and tourism potential of territories.
6. Issues of economics and innovative development management.
7. Resource-saving technologies and intelligent control systems in power supply for economic entities.
8. The invention of innovative technologies, technical systems and materials in industry and transport, diagnostics of machines, constructions and buildings.
9. Perspective computer systems and information technologies.
10. Development of theoretical basis, technical and program means, mathematical support of computer, measurement, control, and information security systems, their metrological supervision and certification testing.
11. Legal, psychological, and information problems of statehood development in Ukraine.
12. Development of mathematic methods and physical and mechanical models and their use for solving applied problems.
13. Infocommunication radioelectric, electric, and optoelectric systems and appliances, materials and components.
14. Development of theoretical basis and process technologies of obtaining new organic and non-organic substances and materials for various purposes.
15. Diaspora and migration processes in Ukrainian and world dimensions: politological, economic, educational, cultural aspects.

Lviv Polytechnic is doing research according to priority areas of science and technology development in Ukraine. Annually, scientific staff of the university perform over 50 scientific research works, gain grants of the President of Ukraine to support young scientists (Candidates and Doctors of Sciences), implement common projects under interstate agreements (international projects under the auspice of the Ministry of Education and Science of Ukraine).

Every year over 300 research works are conducted at the University under business contracts with estimated funding of over 10 mln UAH.

The number of scientific research works carried out at the University in 2012-2016 is presented in Fig.1:

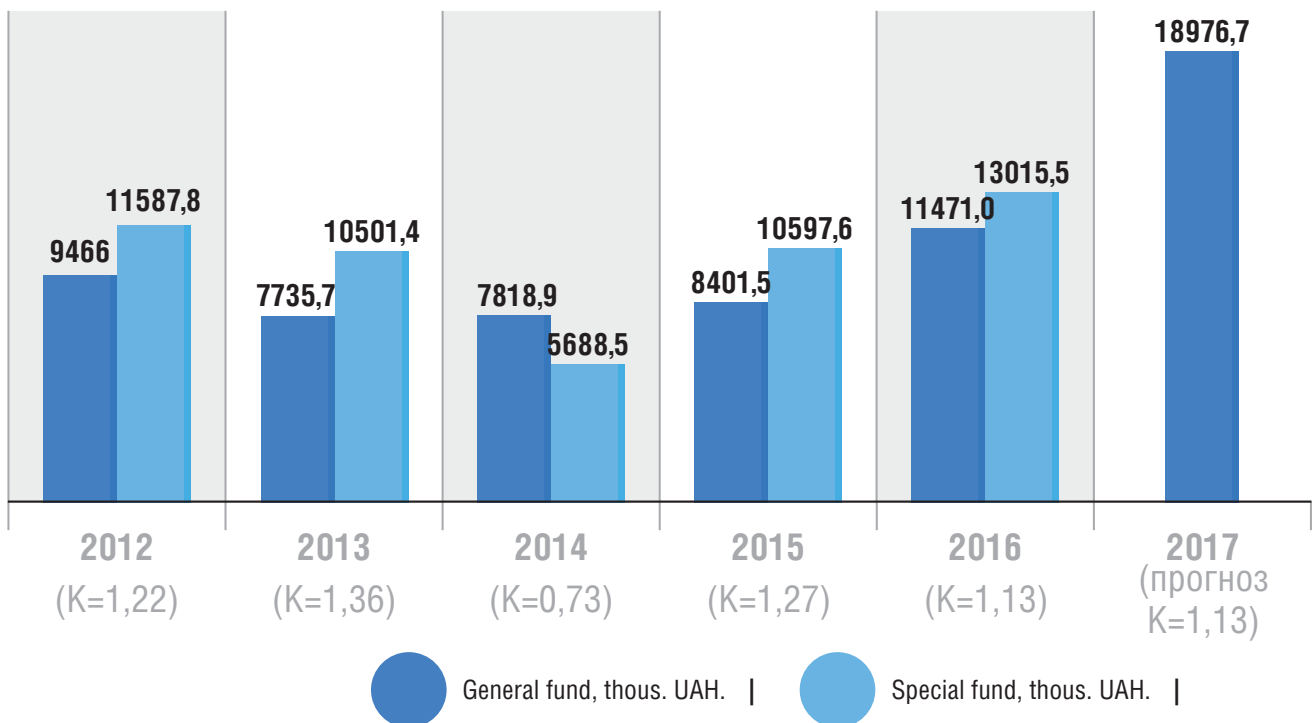


Annual funding of scientific research works exceeds **20 mln UAH**.

## FUNDING OF RESEARCH WORKS AND PROJECTS

The ratio of revenues to the special fund and funding from the general fund of state budget for the university averages 1.2 (see. Figure). In terms of attracting extrabudgetary funds for scientific research Lviv Polytechnic is one of the first higher educational institutions in Ukraine.

### Dynamics of financing research works from general and special funds



Scientific work is also carried out by university academic staff according to their individual plans (research themes of the departments are registered in the Ukrainian Institute for Scientific Technical Expertise and Information). Every year about 150 departments-based scientific research works are conducted at the University.

## SCIENTIFIC PUBLICATIONS

The University publishes 36 scientific periodicals, 14 of them being scientific journals (10 in English). “Chemistry and Chemical Technology” journal in English is listed in Scopus scientometric database.

Every year university scientists publish more than 4500 scientific papers. Almost 2500 articles are published in professional editions, about 700 articles – in editions included into scientometric databases.

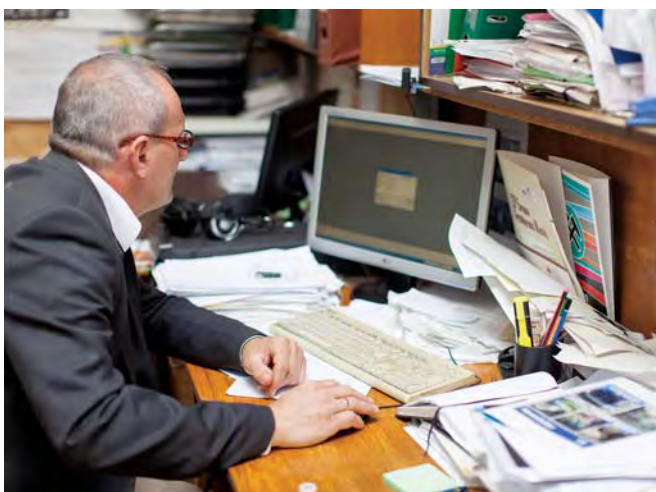
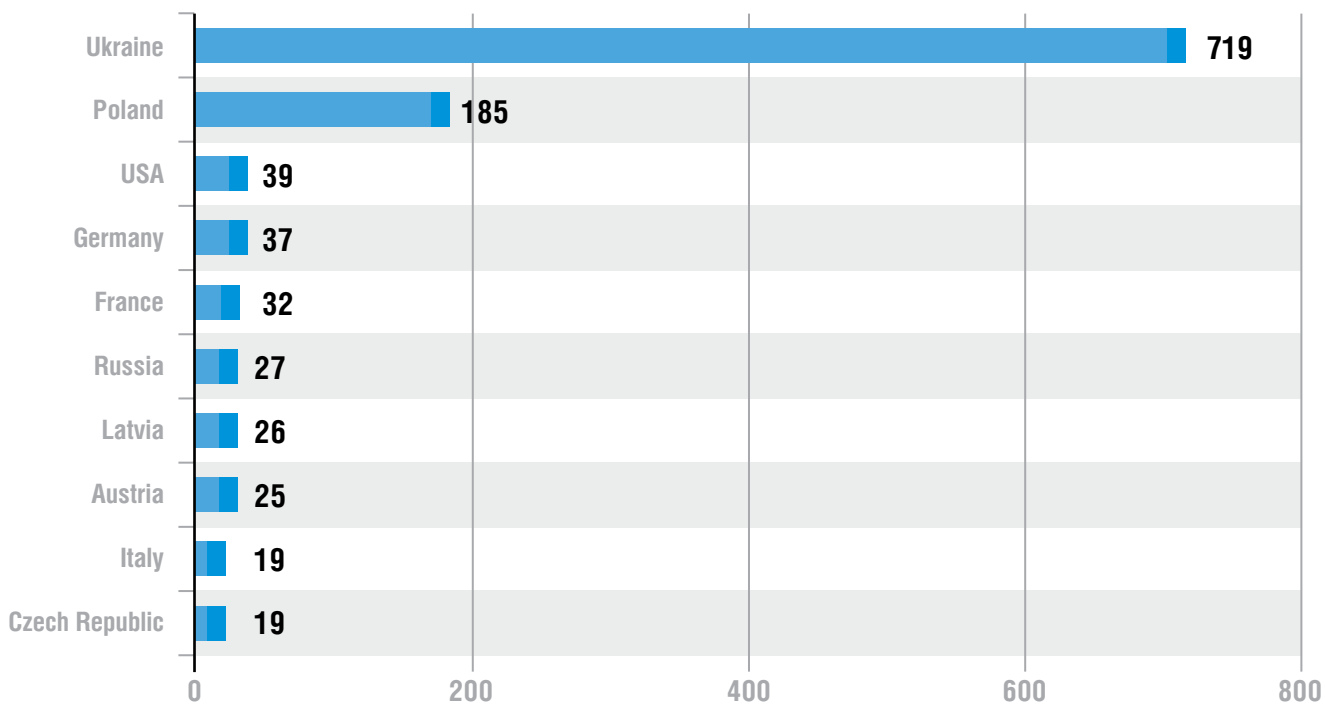


**ACCORDING TO THE H-INDEX OF THE SCOPUS SCIENTOMETRICAL DATABASE, THE TOP THREE RANKING SCIENTISTS OF LVIV POLYTECHNIC:**

(as on 10.02.2017)

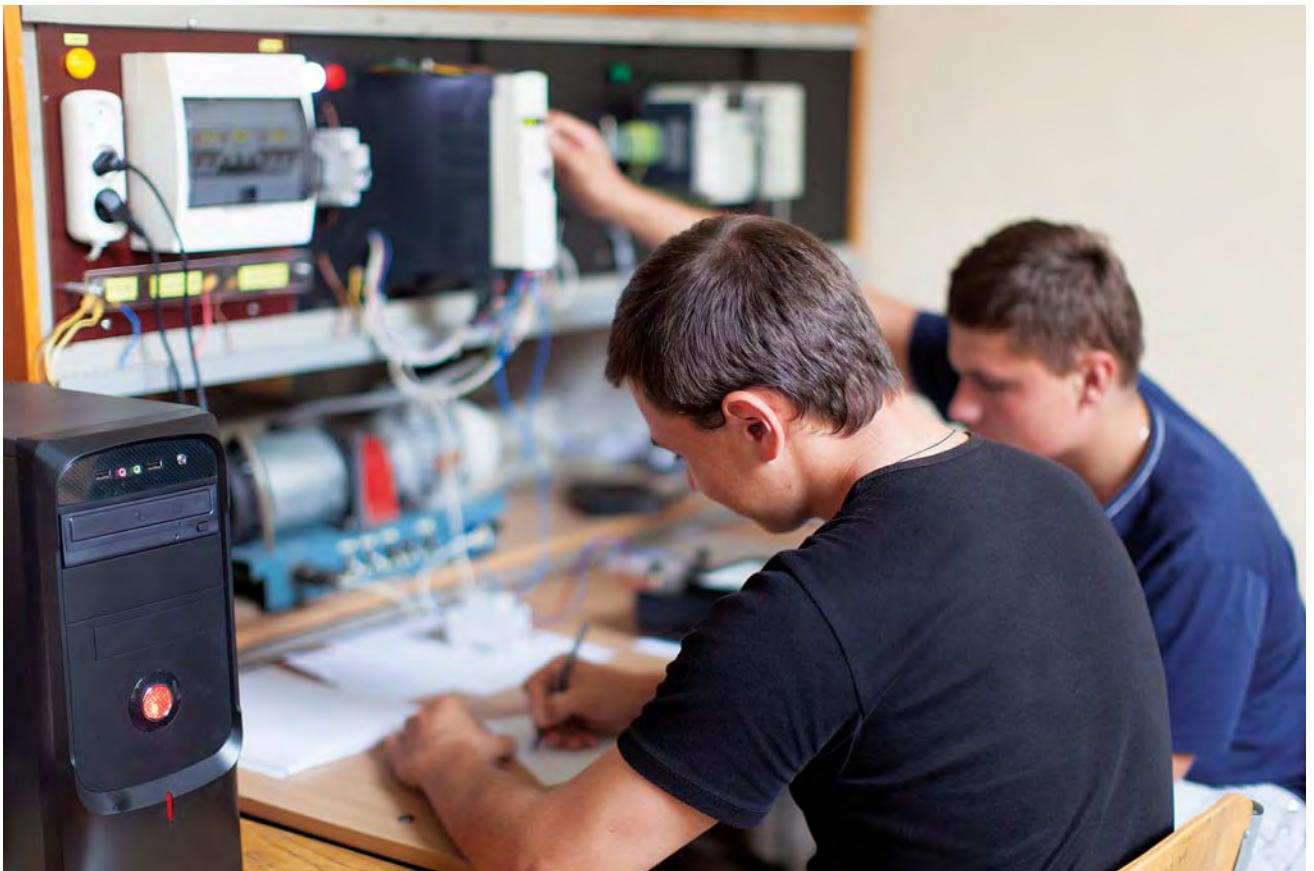
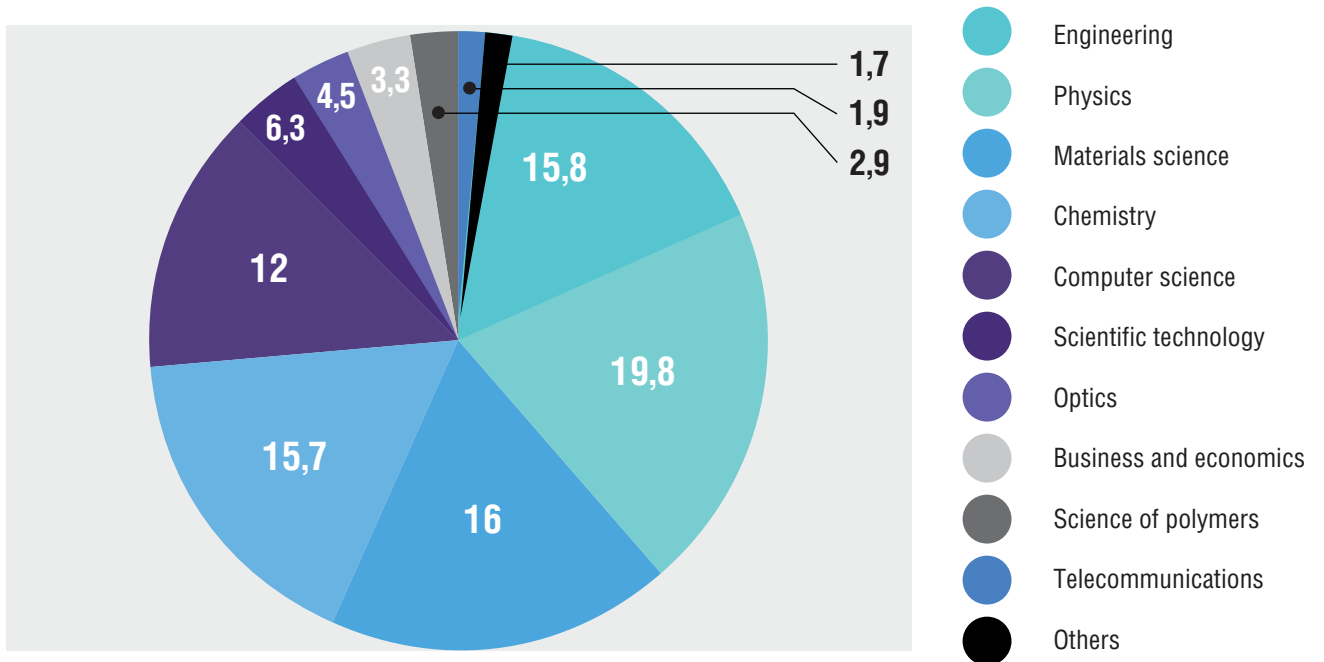
<b>1</b>	<b>Leonid Vasylechko, Dr.Sc. in Chemistry, professor (h=21)</b>
<b>2</b>	<b>Anatoliy Andrushchak, Dr.Sc. in Engineering (h=15)</b>
<b>3</b>	<b>Dmytro Suhak, Dr. Sc. In Physics and Mathematics, senior research associate (h=14)</b>

## **INTERNATIONAL CO-AUTHORSHIP IN SCIENTIFIC PUBLICATIONS OF LVIV POLYTECHNIC DURING 2012-2016** (according to Web of Science)



## SCIENTIFIC DIRECTIONS IN WHICH SCIENTISTS OF LVIV POLYTECHNIC PUBLISHED THEIR ARTICLES DURING 2012–2016

(according to Web of Science)



## PHD AND DOCTORAL STUDIES

In 2016 there were opened 37 new specialties and 54 PhD specialties were licensed. Lviv Polytechnic holds the first place in Ukraine as to the number of licensed postgraduate specialties.

Effective preparation of highly qualified academic and scientific staff is facilitated by 23 Specialised Academic Councils, 18 of which are doctoral, for 47 scientific specialties.

Annually, the staff, PhD students and Doctoral students of the university defend about 30 Doctoral and over 100 PhD theses.



# 9 • Innovative activities

## COOPERATION WITH ENTERPRISES

- **National Space Agency**
- **“Pivdenmash”** Public Joint-Stock Company
- **“Pivdenne”** Design Office
- **“Arsenal” Plant”** State Enterprise
- **“NaftoGas of Ukraine”** NJSC
- State Scientific Research Enterprise **“KONEKS”**
- **“Ivano-Frankivsk Cement”** Public Company
- **“Lviv Locomotive Repair Plant”** Public Company
- **The Western Scientific Centre of the National Academy of Sciences of Ukraine and the Ministry of Education and Science of Ukraine**
- **“Eco-Optima”** LLC
- **“Stryi Gravel Rock-Crushing Plant”** LLC
- **“State Road Research Institute Named after M. P. Shulhin”** State Enterprise
- Lviv public utility company **“Zbyranka”**
- **“Concern Galnaftogaz”** PJSC
- **“DTEK Zahidenergo”** Public Company
- Novyi-Rozdil State Mining and Chemical Enterprise **“Sirka”**
- **“Market-MATS”** LLC
- **“Ukrtechmed”** Private company



# PATENTS

To insure the intellectual property rights protection of research works done at the departments of Lviv Polytechnic, every year there are granted about 100 patents on inventions and useful models.

The University successfully carries out scientific research work on creation of scientifically based production, high level of which is approved with protective documents for objects of intellectual property rights – over 700 patents on inventions, useful models, industrial samples, certificates of authorship of a written work, computer programs, certificates of registration of trademarks for goods and services.

The inventive work of the University scholars, which involves students as well, embraces a wide range of areas in different fields. Lviv Polytechnic owns protective documents for devices, machines, equipment for various operations, means of specialized computational technology, information and measuring systems, software products, building materials and structures, electro energetic systems and power supply systems, new materials and technologies for electronic engineering, technologies for electronic, pharmaceutical, and medical fields, biotechnology, nanomaterials, nanoappliances, nanotechnology.

According to the results of “Invention of the Year” all-Ukrainian competitions, Lviv Polytechnic has been repeatedly recognised as a winner for the originality of developments, new and novel technical solutions in various categories.



## INNOVATIVE STRUCTURES

### EDUCATIONAL AND SCIENTIFIC LABORATORIES AND CENTRES ESTABLISHED UNDER THE AUSPICE OF FOREIGN FIRMS AND INSTITUTIONS AND ACCORDING TO THE RESULTS OF INTERNATIONAL PROJECTS

Educational and scientific laboratories and centres, created with the support of enterprises and companies, including foreign ones, contribute to increasing the quality of education and provide the educational process with technical means of learning.

- Training laboratory of the “Fujikura” firm (Japan).
- Training laboratory of flexible methodologies of software development (with support of “Sigma Software”).
- Training and research centre “Schneider Electric” (France).
- Training and research centre of “Moeller” firm (Germany).
- Research laboratory of low-voltage electrotechnical equipment of “ABB” (Switzerland), “ETI” (Slovenia) companies.
- Training centre for computer diagnostics of transport means “Lviv Polytechnic – Bosch Academy”.
- Training and research laboratory on IT-technologies (“EPAM Systems”, the biggest developing company in the sphere of IT-consulting in Eastern Europe).
- Training centre “Computer technologies of design and processing products” (in the framework of cooperation between Ukrainian higher educational institutions and “Delcam plc.” company, the UK).
- Training and research laboratory of processing satellite measurements (with the support of “Leica Geosystems” company, Switzerland).
- Training and research laboratory of geodesy, geoinformatics and 3D-scanning (in the framework of TEMPUS program).
- Laboratory MESO (service office of engineering materials science) in the framework of “TEMPUS” program.
- Laboratory from the company DataArt (USA).

Within the scopes of the innovative business center it was launched Tech Start Up School, where there was organized the school of entrepreneurs and innovators, created conditions for training trainers and mentors, co-working spaces, specialized laboratories, crowd funding platform. Various contests are held here (contests of business ideas and projects, international contest branded TechChallenge, the contests on creating application for Clickers mobile phone etc.)

### TECH START UP SCHOOL

### BUSINESS INCUBATOR

Being an accelerator of academic entrepreneurship, “Incubator Centre” (business incubator) is a department of the university’s Technopark.

The mission of the business incubator is to develop innovative ecosystems and ensure the development of academic entrepreneurship, particularly among students, through creating supportive environment for innovative and investment activity.

Since its beginning, the business incubator has provided services to over 850 clients. About 510 students have participated in training and educational programs.

More than 200 investment projects have been developed. Six of them have been designed in the field of innovations.

## **RESOURCE CENTRE OF EDUCATIONAL INFORMATION TECHNOLOGIES FOR PEOPLE WITH SPECIAL NEEDS**

The Centre aims at processing and practical implementation of information technologies oriented on people with severe vision impairment. Efforts of the Resource Centre employees are focused on developing and implementing inclusive education of blind pupils and students by preparing video content with audio description, adapting manuals and textbooks, namely with the help of DAISY, Braille, Audio, printing in tactile writing system, preparing educators for work with blind students at school in the context of inclusion, introducing modern technical means and programs into educational process.

The Resource Centre has started practical implementation of principles and foundations of inclusive learning in educational institutions of various types with orientation on a wide range of educational programs, subjects and specialties, having designed the Ukrainian model of inclusive education of visually impaired people and constructed their educational path.

## **EDUCATIONAL AND CAREER GUIDANCE CENTRE**

The centre helps to identify professional inclinations and facilitates future profession choice as well as provides a high level of knowledge and ensures appropriate training for admission to Lviv Polytechnic.

Modern realities require that the graduates be able to generate ideas, understand the ultimate goal of a specific project and work in teams. The focus of the university cultural and educational activities carried out simultaneously with the preparation of highly qualified specialists is on formation of the national professional elite. To implement the concept of educational and career guidance, the University successfully practices new forms of cooperation with potential applicants, their parents and civil society in general.

Very popular in Ukraine and in all areas of the western region are scientific projects of Lviv Polytechnic – “The University of Intellect “Bilia ratushy” (“At City Hall”) launched on 26 September 2015 and “Educating Aristocrats of Spirit” implemented jointly with the Ukrainian Greek Catholic Church. The youngest citizens are also in the focus of attention, in particular, in recent years the university developed active and interesting cooperation with the “Polytechnic-Ecoland” educational centre.

The possibilities for educational and career guidance at Lviv Polytechnic University have increased essentially due to active participation of the Educational and Career Guidance Centre in the work of “Osvita” Cluster at Lviv City Council.

The Small Technical Academy of Science, which helps to identify professional interests, to justify future professional choice and to involve talented, promising young people into education, contributes significantly to the general concept of career guidance and educational activities of Lviv Polytechnic. At the Small Technical Academy of Science, school students have opportunities to do independent research, carrying out investigations within the framework of scientific and educational projects. For those from remote regions, there is an opportunity to be involved in research online via the Internet.

Round tables, master classes, meetings with school students and their parents, invitation of successful graduates to take part in these events are changing the character of educational environment by putting into practice high principles of educational and cultural activities of Lviv Polytechnic, being a national self-governing (autonomous) research institution of higher learning.

Days of Open Doors at Lviv Polytechnic University have become a regular event and are held involving a video-conferencing service supported by the state-of-the-art technologies.

Lviv Polytechnic, being a successful participant of science festivals, career and educational fairs, has attracted interest of our colleagues-educators outside the national boundaries. Particularly, at the invitation of the Polish agency “Polimedia”, society “ExploRes” and Polish radio “Pzeszow”, The Educational and Career Guidance

## CENTRE OF INFORMATION TECHNOLOGIES AND SYSTEMS

Centre represented its exposition at the Second Interactive Festival of Knowledge called “Researcher’s Day” in Rzeszow (Poland). The international experience is used successfully for submitting “Horizon 2020” grant applications.

The Centre promotes implementation of knowledge into production, teaching and research. The Centre provides for the work in three areas, i.e. training, production and research.

### **TRAINING AREA/ TRAINING COMPONENT**

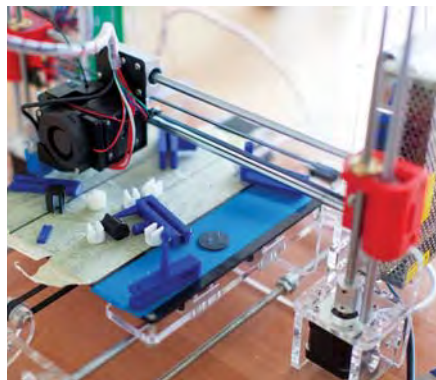
- *academic library*, the advantage of which will be cooperation of experts in information technologies (e-copies, thematic parsing, e-directories), bibliographers (records managers) (data consolidation, abstracting) and professional philologists (preparation of abstracts in English and their translation into Ukrainian);
- *technical museum “K&IT”* with historical exhibits, teaching, scientific and research laboratories where its visitors could enrich or perfect their knowledge and skills in the field of computer technologies;
- *exhibition of the best educational projects.*

### **PRODUCTION AREA OR PRODUCTION COMPONENT**

- *“Ideas Portal”* is an intellectual site for innovations and competitive ideas of various social orientation;
- *Student circle (club) “CyberClub”*, where the Internet of Things (IoT) training will be conducted in the blended learning mode: 3 in 1;
- *School of sports programming (competitive programming);*
- *student startup competition.*

### **RESEARCH AREA OR RESEARCH COMPONENT**

- *exhibition of the best scientific projects;*
- *submission of applications for European programmes (Erasmus, Horizon);*
- *implementation of ideas of The Internet of Things Innovation Hub*, a new Internet of Things hub laboratory, which serves as a platform for cooperation in the areas of education, business and manufacturing.











# 10 • International Cooperation

International cooperation is one of the important areas of Lviv Polytechnic innovative development that contributes to its becoming a modern European multidisciplinary academic and research university.

## AREAS OF DEVELOPMENT

### ***THE MAIN AREAS OF THE UNIVERSITY INTERNATIONAL COOPERATION DEVELOPMENT ARE AS FOLLOWS:***

- active participation in the work of All European and Regional Associations of Universities;
- extension of cooperation with leading European universities based on package agreements on cooperation;
- stimulation of research and teaching staff's participation in preparing and implementing international scientific and educational projects sponsored by the EU programmes;
- more profound international scientific cooperation;
- promotion of international academic mobility;
- increase in the spectrum of dual degree (two diplomas) programmes and the number of their participants among Ukrainian and European Union students;
- improvement of international relations infoware;
- training specialists for foreign countries;
- development of international educational and cultural relations with Ukrainians abroad.

## PARTICIPATION IN INTERNATIONAL ORGANIZATIONS

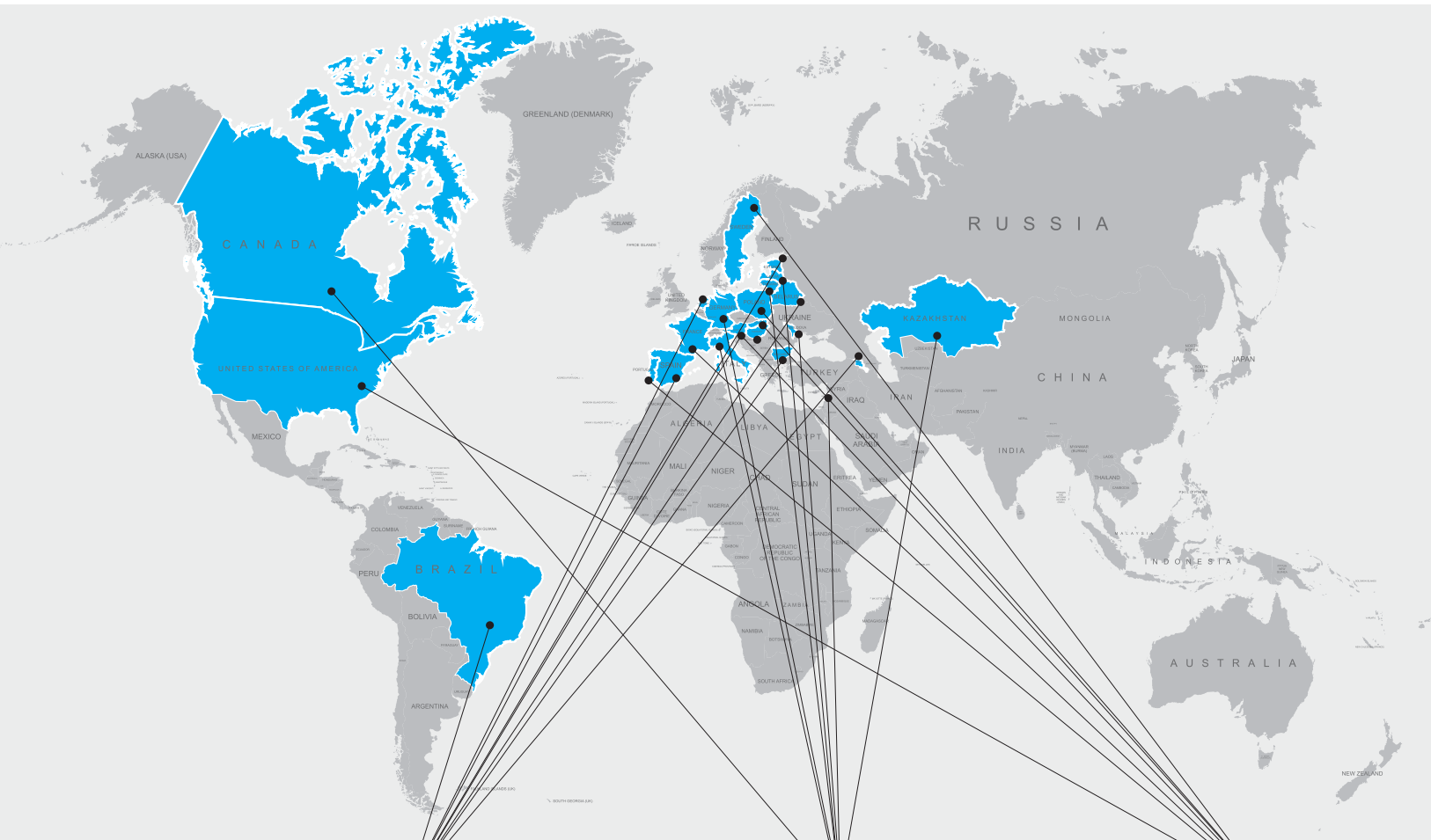
### ***LVIV POLYTECHNIC UNIVERSITY PARTICIPATES ACTIVELY IN THE WORK OF A NUMBER OF INTERNATIONAL UNIVERSITY ASSOCIATIONS OF REGIONAL AND GLOBAL TYPES:***

- Magna Charta Universitatum;
- European University Association (EUA);
- Alliance of Universities for Democracy (AUDEM);
- Association of Carpathian Region Universities (ACRU);
- Board of European Students of Technology (BEST);
- Association des Etats Generaux des Etudiants de l'Europe (AEGEE).

The participation in these authoritative organizations helps the University establish new contacts, find partners for preparing and implementing international projects, develop academic and research mobility, improve the level of international activity infoware.

# INTERNATIONAL COOPERATION AGREEMENTS

The main mechanism for the implementation of international cooperation is scientific research, educational and cultural collaboration based on 100 package agreements on cooperation in the field of science and education with over 75 leading universities and research institutions and companies in Europe, America and Asia.



<b>AUSTRIA</b>	<b>1</b>	<b>ITALY</b>	<b>3</b>	<b>POLAND</b>	<b>67</b>
<b>BELARUS</b>	<b>1</b>	<b>KAZAKHSTAN</b>	<b>2</b>	<b>PORTUGAL</b>	<b>2</b>
<b>BULGARIA</b>	<b>3</b>	<b>CANADA</b>	<b>2</b>	<b>SLOVAKIA</b>	<b>5</b>
<b>BRAZIL</b>	<b>1</b>	<b>LATVIA</b>	<b>1</b>	<b>USA</b>	<b>1</b>
<b>ARMENIA</b>	<b>1</b>	<b>LITHUANIA</b>	<b>1</b>	<b>HUNGARY</b>	<b>1</b>
<b>NETHERLANDS</b>	<b>1</b>	<b>LEBANON</b>	<b>1</b>	<b>FRANCE</b>	<b>4</b>
<b>ESTONIA</b>	<b>1</b>	<b>MOLDOVA</b>	<b>2</b>	<b>SWEDEN</b>	<b>1</b>
<b>SPAIN</b>	<b>2</b>	<b>GERMANY</b>	<b>16</b>		

## INTERNATIONAL EDUCATIONAL AND SCIENTIFIC COOPERATION

### ***LVIV POLYTECHNIC UNIVERSITY IS ACTIVELY DEVELOPING INTERNATIONAL SCIENTIFIC RESEARCH COOPERATION:***

participates in international projects, grants, economic agreements; collaborates with foreign higher educational institutions within the framework of the cooperation agreements concluded; takes part in International grants competitions (individuals and collectives) etc.

### ***ANNUAL ACHIEVEMENTS OF THE LVIV POLYTECHNIC UNIVERSITY STAFF:***

- 10–15 individual grants for scientific internship and research abroad (particularly the Fulbright Programme, the Austrian and German Academic Exchange Services, the International Visegrad Fund);
- 100 grant applications;
- 150 scientists doing research abroad, having their traineeship placements, participating in International scientific conferences and forums.

The University has established two National Contact Points (NCPs) to provide guidance, practical information and assistance on all aspects of participation in the EU Framework Programme for Research&Innovation: “Marie Skłodowska-Curie actions to equip researchers with the necessary skills and international experience for a successful career” and “Data Communication Technologies”.

The tasks of the national contact points are provision of consulting services on the contests, HORIZON 2020 EU programmes and other European programmes, requirements to participation and project proposals.

Among the priorities of the University international activities there is participation of scholars and professors in preparation of international educational projects ( first of all, in such programmes as Tempus, Erasmus Mundus, Erasmus+ etc.

In 2016, 24 valid agreements were signed under the Key Action 1 (mobility of learners and staff) of the Erasmus + Programme. Besides, Lviv Polytechnic University is an active participant in a variety of programmes for institutional and individual grants, e.g. Erasmus+ (Key Action 2), British Council, Jean Monet, DAAD, Fulbright, Carnegie Fellowship etc.

Last year there were submitted 28 Erasmus+ (Tempus) project proposals that was three times as many as in 2015. Owing to the 11 Key Action 1 Erasmus+ grants received, Lviv Polytechnic University has entered into close cooperation with such universities as Katholieke Universiteit Leuven, Technische Hochschule Mittelhessen, Akademia Leona Kozmieskiego, Politechnika Bialostocka, Politechnika Gdanska, Politechnika Rzeszowska im. Ignacego Lukaszewicza, Politechnika Slaska, Politechnika Wroclawska, Universitatea Babeş-Bolyai din Cluj-Napoca, BTH Techniska Hogskola, Universit di Maine (Le Mans). In the 2016-2017 academic year, 17 new grants were received under this Programme.

The important trend of the University internationalization is expanding the spectrum of dual degree (two diplomas) programmes and increasing the number of participants among Ukrainian and European Union students.

**AGREEMENT THAT IMPLY STUDIES LEADING TO OBTAINING DOUBLE DIPLOMAS:**

1. Spoleczna Akademia Nauk, Lodz (Lodz Social Academy of Science)
2. Politechnika Slaska (Silesian University of Technology).
3. Politechnika Wroclawska (Wroclaw University of Technology).
4. Politechnika Lubelska (Lublin University of Technology).
5. Akademia Gorniczo-Hutnicza im. Stanislaw Staszica (AGH University of Science and Technology, Krakow).
6. Technische Hochschule Mittelhessen (Mittelhessen University of Applied Sciences)
7. Tallinn University of Technology.
8. Faculty of Agriculture at Latvia University of Agriculture in Jelgava.
9. Technische Universitat Ilmenau (Technical University Ilmenau) (Germany).
10. Slovensko polnohospodarska univerzita v Nitre (Slovak University of Agriculture in Nitra (Slovakia).
11. Hochschule Neubrandenburg (Neubrandenburg University of Applied Sciences) (Germany).
12. Universit di Maine (Le Mans) (the University of Maine) ( France).
13. Wyzsza Szkola Inzynieryjno-Ekonomiczna (Rzeszow, Polska) (School of Engineering and Economics (Rzeszow, Poland)).

Over 130 students were engaged in the dual degree (two diplomas) programmes every year.



# 11 • Information Support

## AREAS OF DEVELOPMENT

Information support of educational and research activities of the University is carried out through implementation of information systems and services that are designed to quickly provide all necessary information about Lviv Polytechnic to teachers, scientists, students, graduates and other interested parties.

**GENERAL INFORMATION ABOUT THE ACTIVITIES OF THE UNIVERSITY CAN BE FOUND IN THE FOLLOWING SOURCES:**

- official website (<http://lp.edu.ua>);
- websites of academic institutes, departments and other units;
- websites of individual projects, particularly “Enrollment to Lviv Polytechnic” (<http://vstup.lp.edu.ua>) provides the most detailed information on the admission campaign;
- specialized video services YouTube and Google Hangouts On-Air;
- internal portal of the University.

**TO SUPPORT THE EDUCATIONAL PROCESS AND SCIENTIFIC ACTIVITIES, THE UNIVERSITY CONTINUALLY UPDATES ITS COMPUTER HARDWARE AND LICENSED SOFTWARE, SUCH AS:**

- in computer classes and laboratories advanced computers operating on Windows and Linux are installed;
- lecture rooms are equipped with projectors, in particular, in 40 classrooms interactive projectors are installed;
- Microsoft Dream Spark subscription provides access to more than 150 units of Microsoft system and application software (including, Windows 7, 8 and 10);
- online services Microsoft Office365 provide access to Microsoft office products;
- on demand, the computers are installed with application software according to academic subscriptions or with free internet software.

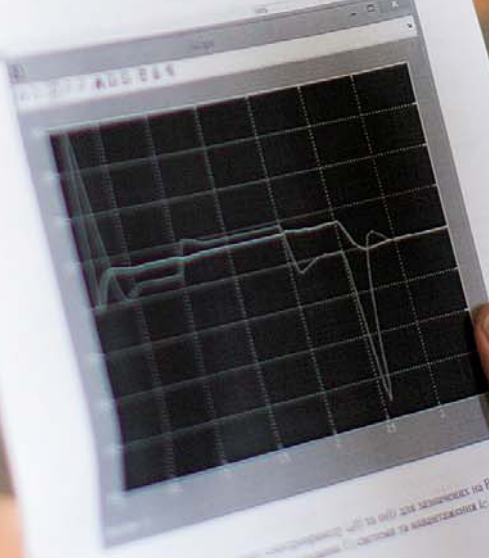
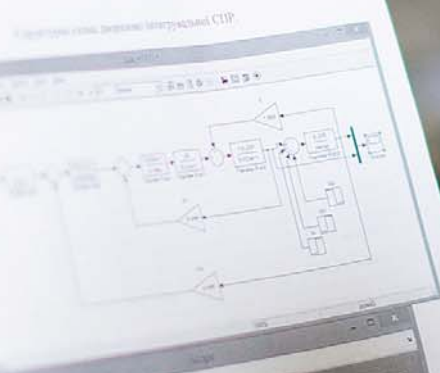
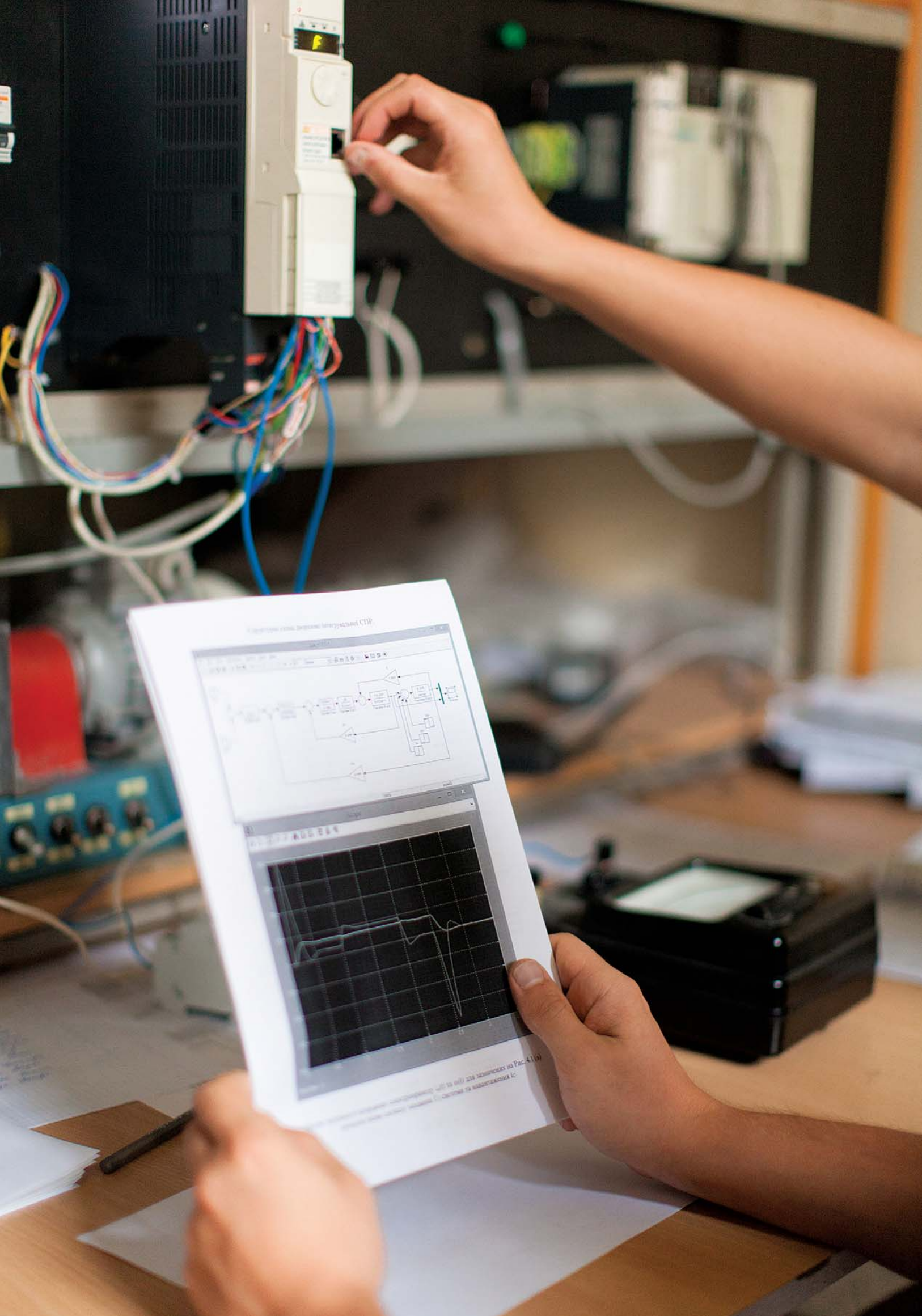
**TO COMMUNICATE AND INTERACT, ALL TEACHERS, STUDENTS AND GRADUATE STUDENTS OF LVIV POLYTECHNIC USE:**

- virtual learning environment (<http://vns.lpnu.ua>);
- latest services of corporate e-mail, team work, videoconferencing and video streams through subscriptions to Google Apps for Education and Microsoft Office365.

**FOR EFFICIENT PROCESSING OF TEACHING AND RESOURCE INFORMATION, THE FOLLOWING SERVICES ARE AVAILABLE AT THE UNIVERSITY:**

- web system “Electronic Academic Records” in which teachers record the student academic performance;
- web service “Student Cabinet” (<http://student.lpnu.ua>), through which students get information on development of their individual curriculum and academic performance;
- web system of arranging scientific reports of the university departments “Science LP”.





Получение сигнала с датчика температуры  
Получение сигнала с датчика температуры

**TO IMPROVE THE QUALITY OF SCIENTIFIC PAPERS AND STUDENT GRADUATION WORKS, THE UNIVERSITY TAKES MEASURES TO PREVENT PLAGIARISM, INCLUDING:**

- electronic repository of student graduation works and electronic research archive, which together form the electronic storage of academic documents, are elaborated;
- through service Unplag (<http://unplag.com>) the students graduation works are checked for the academic plagiarism based on electronic storage of academic papers while scientific articles and theses are checked on the basis of open Internet web-resources.

**IN LVIV POLYTECHNIC THE CONDITIONS OF EDUCATIONAL AND SCIENTIFIC ACTIVITIES ARE CONSTANTLY IMPROVED, NAMELY:**

- the university adheres to the strategy of providing an individual computerized workspace to every teacher and scholar;
- the university uses telecommunications network that provides Internet access in all academic buildings and halls of residence;
- in all university academic buildings a Wi-Fi network is set up, which provides teachers and students with access to the Internet via mobile devices.

**LVIV POLYTECHNIC PAYS GREAT ATTENTION TO THE ELIMINATION OF BUREAUCRACY IN EDUCATIONAL ACTIVITIES:**

- there is a system of electronic registration of correspondence, orders and other documents;
- part of documents fully or partially is automatically generated through appropriate information systems (including student academic performance data, scientific reports of university departments);
- part of internal data reporting is transferred to filling out electronic document forms through Google Forms service;
- electronic queue is formed for submitting research reports, prepared by graduate students, via a web service “Student Cabinet” (<http://student.lpnu.ua>).





***FOR ENHANCING SCIENTIFIC AND EDUCATIONAL INFORMATION RESOURCES AVAILABILITY, SCIENTIFIC AND TECHNICAL LIBRARY OF THE UNIVERSITY IS BEING UPGRADED:***

- electronic and hybrid specialized reading halls with automated workspaces with the access to online full-text scientific information resources are available for library users;
- electronic scientific archive contains about 30 0000 documents;
- electronic catalogue databases account for about 500 000 of bibliographic records;
- “Works of Lviv Polytechnic Scientists” database contains over 30 000 publications.

***TEACHERS AND STUDENTS HAVE ACCESS TO A LARGE NUMBER OF ELECTRONIC INFORMATION RESOURCES, INCLUDING:***

- author-level metrics and abstract database Web of Science;
- periodicals database East View;
- database BioOne full-texts in biological, ecological and environmental sciences;
- resources of electronic library system “Lan”;
- weekly electronic journal The New England Journal of Medicine;
- collections of authoritative global economic content IMF eLibrary;
- economic portal Business Monitor International;
- electronic database JSTOR.

# 12 • Marketing Activities

## AREAS OF DEVELOPMENT

The main objectives of marketing activity are to maintain external and internal corporate communication, promote and improve the image of Lviv Polytechnic in the market of educational and research services in Ukraine and abroad, as well as disseminate scientific and technological products of the university.

The academic institutes, Scientific and Technical Library, student self-government, the Council of Young Scientists make significant contribution to the process of popularizing the university by organizing numerous scientific and entertainment events.

### ***SCIENTIFIC PICNICS AND SCIENTIFIC “FESTYNY”***

Scientific picnics and scientific "festyny" are science and intellect festivals following European university traditions. The main purpose of the events is to establish an international scientific and technical cooperation, popularization of science among young people, involving children and students to science, thereby encouraging them to choose a scientific career in the future.

In special tents every academic institute presents its scientific and technical developments and information about the fields and specialties of training, demonstrates inventions and interesting experiments. A variety of events are organized within the University campus, such as: exhibitions, 3D-drawings on asphalt, quests, master classes, intellectual competitions and quizzes, sporting contests, performances of extreme sports enthusiasts, People's House "Prosvita" amateur groups performances, charitable auctions of artworks and other events.

### ***ENGINEERING CAREER FAIR***

That is an exhibition of leading companies that invite students and young professionals who want to explore career opportunities. The companies offer jobs and internships, and students communicate personally with their representatives, have an opportunity to prepare





and submit their resumes directly to the employer.

In addition to the companies' exhibitions, many other interesting events take place, such as meetings with famous people, who reveal the secrets of their success and tell the students how to achieve it.

Moreover, during the Engineering Career Fair a lot of trainings and seminars are held, aimed at teaching and informing students about their career opportunities.

More detailed information is available at: <http://ejf.best-lviv.org.ua/>

### ***COMPUTER ART FESTIVAL DE:CODED***

That is the festival of information technology and computer arts, co-organized by the university. De:coded combines the following events: team championship on algorithmic programming, hackathon to develop software products, roborace, exhibition of new media arts, demoparty and cybersport tournament of Dota 2 team video gamers.

More detailed information is available at: <http://decoded.org.ua/>

#### ***INTERNATIONAL BOOK PUBLISHERS' FORUM IN LVIV***

Lviv Polytechnic is a co-organizer of the main book event and one of the most famous cultural events in Ukraine.

Traditionally in the hall of the main academic building the jury announces the winners of the contest "Best Book of the Forum". In various academic buildings of Lviv Polytechnic there are held presentations involving the authors of books. For students there are also organized meetings and discussions with writers, where everyone interested is given an opportunity to get acquainted with new books and discuss them.

More detailed information is available at: <http://bookforum.ua/>

#### ***NIGHT AT THE LIBRARY***

For the first time within the walls of Scientific and Technical Library of Lviv Polytechnic the event "Night at the library. Feel yourself at home" took place.

All those interested could take a photo in the library, become "a librarian for an hour", read excerpts from favourite works on a comfortable sofa 'bambetli' and post photos on social networks, attend art and music events, and meet famous writers and musicians.

Art event and exhibition "Curtains of Daryna Alioshkina" gathered fans of Vytynanky (an art form of papercutting). Everyone could contemplate the beautiful works of the author, which appeared on the background of evening windows. The event was complemented by a book-illustrative exhibition on the history of Vytynanky from the library archives.

In the lobby of the library, the participants of Tango Club "Bandoneon" talked about the poetry of Argentine dance, its historiography, demonstrated graceful tango performance, and even organized a master class on tango dancing.

The guests could enjoy a variety of events, such as the meeting with the founder of the travel club, watching the comic series 'Project: Library', "Night Guest Lyubko Deresh", awarding the winners of the actions "Photo in the Library", "Flashmob on Bambetli" and "Librarian for an Hour".

At the stage of completion there are a number of projects that have emerged on the students' initiative, among them Student Cafe and Student Radio.

#### ***STUDENT CAFE***

The primary objective of a healthy nutrition Student Cafe is to improve the range of choice and to diversify it with healthy snacks. Additionally, modernization of the interior space, designed in accordance with modern trends of similar European institutions, is also planned. The authors of the Student Cafe project are striving to create a favourable atmosphere for students and teachers. Guests of the Cafe will not only enjoy healthy and delicious food but also will feel comfortable and spend time usefully due to modern and convenient design.

#### ***STUDENT RADIO***

There was created the concept of student radio and meetings with representatives of university departments and student volunteers were held in order to establish and develop student internet radio.



# 13 • The Campus

**TWELVE HALLS OF RESIDENCE ARE COMBINED INTO A LARGE HOUSING COMPLEX WHERE MORE THAN 8 THOUSAND STUDENTS AND POST-GRADUATES LIVE, STUDY AND REST.**

There is well-developed infrastructure: three playgrounds, a football field, gyms, student clinic and student club. The university is making significant efforts to improve the material and technical base, repair works are regularly performed and the living rooms are redecorated.

Every year more and more students are willing to get accommodation in the university hostels. They are accommodated for a period of one academic year in August. The following categories of students have accommodation privileges: orphans, the disabled (I–III groups), people affected by the Chernobyl accident (I–II categories), internally displaced persons and the children of the participants in Anti-Terroristic Operation (ATO).

Student self-government bodies are very active within the university campus: annually students of every hostel elect their Students Hostel Council; and Students Operational Unit monitors whether everyone follows the rules.

Student Chaplaincy Center supported by the university plays an essential role in student development. In particular, the chapels are founded in the hostels 8, 9 and 15; there is also the church for students named after St.Olexiy, the patron of students. Student Chaplaincy Centre conducts recollects for students of Lviv Polytechnic, annually sanctifies rooms in hostels, carries out other activities aimed at spiritual development of our students.







Tram Depot



•№ 3•  
27, Karpyntsya Str.



•№ 9•  
2, Lukasha Str.



•№ 1•  
14, Boi-Zhelens'koho Str.



•№ 7•  
1, Lukasha Str.



•№ 5•  
5, Lukasha Str.



•№ 11•  
5, Lukasha Str.



•№ 15•  
42, Lazarenka Str.



•№ 14•  
40, Lazarenka Str.



•№ 8•  
23, Sakharova Str.



•№ 10•  
1, Vidkryta Str.

Hetman Petro Sahaidachny National Army Academy



•№ 12•  
38, Lazarenka Str.



•№ 4•  
25, Sakharova Str.

Student's Park

Bohdan Khmelnytskyi Central Recreation Park

Map labels: Kyivska Str., Ivana Kotlyarevskoho Str., Ivana Bohuna Str., DMYTRA VITOVSKOHO STR., Heroiv Maidanu Str., Hinky Str., Akademika Andriya Sakharova Str., Akademika Lazarenka Str., Lukasha Str., Vidkryta Str., Bohads'kykh Str., Pokhyla Str., Karpyntsya Str., Boi-Zhelens'koho Str., Generala Zasyadka Str., Kulykivska Str., Boikivska Str., Sakharova Str., Lazarenka Str., Horbachevskoho Str., Pol'ny Str., Ol'hy Str.





## PEOPLE'S HOUSE “PROSVITA”

*People's House “Prosvita” holds themed events, theater festivals, solemn academies dedicated to prominent figures of Ukraine and significant dates of our country, various ceremonial events, festivals, concerts, parties, disco etc.*

Such events as solemn ceremony “Student Consecration”, awarding diplomas to Masters and Specialists, Scientific Festival “Festyny” of Lviv Polytechnic, laying flowers at the monument of shot scientists in 1944, solemn events dedicated to the holidays such as Ukrainian poets birthdays – Taras Shevchenko, Lesya Ukrainka, Ivan Franko; national heroes of Ukraine – Stepan Bandera, Roman Shukhevych, Mykhailo Hrushevsky; outstanding scientists of Ukraine – Yuri Drohobych, Julian Zakhariyevych, Julian Medvedsky; Ukrainian religious figure – Andrey Sheptytsky, well-known composer, the author of the anthem of Ukraine – Mykhailo Verbytsky; evening in memory of writer and public figure Iryna Kalynets are very well organized.

Amateur groups participated in charity concert for the restoration of the sculpture “Oshchadnist”, held at Solomiya Krushelnytska National Theatre of Opera and Ballet. People's House "Prosvita" held a charity concert in support of ATO soldiers, raised funds were given to our defenders.

People's House “Prosvita” includes numerous creative groups, namely: Students Folk Choir “Gaudeamus”, Folk Bandura Ensemble “Zaspiv”, Folk Dance Ensemble “Virnist”, Vocal Chamber Ensemble “Akolada”, Folk Brass Band, Male Choir "Orpheus", Folk Theater Studio “Hochu”, People's Symphony Orchestra, National Chamber Orchestra “Polyfoniya”. All of them attract much attention, especially Pop Song Ensemble “Suzirya”, Dance Ensemble “Graciya” and Show-Ballet "Avers" who are participants and winners of national and international competitions and festivals.

In 2015 Pop Song Ensemble “Suzirya” won the International Song Festival of Creative Youth "Dolja" that was held in Kyiv. Having won a grant of Leonid Kuchma Charity Fund, the ensemble was sent to Latvia to the Fifth International Festival of Ukrainian Creative Youth "Baltic Stars".

In 2014 and 2016 the People's Male Choir “Orpheus” of Lviv Polytechnic National University took part in the International Festival of Orthodox Music "Blessed Virgin – It Is Truly Meet"; the choir was the winner and was awarded with diplomas and video of the festival.

In 2016 Folk Dance Ensemble “Virnist” was awarded a distinction by Lviv Trade Union Association and Regional Center of Folk Arts and Cultural and Educational Work for their significant contribution to the national cultural revival in the category "Popularization of folk art and amateur art in Ukraine and abroad".

People's House “Prosvita” always promotes Ukrainian folk rites of passage and customs. Every year amateur groups participate in the Christmas festival “Great Kolyada” and the festival of sacred choral music “Easter bells”.

For the second time People's House "Prosvita" is a co-organizer of music festival “Academy” – Young to Youth. Amateur groups of Lviv Polytechnic successfully performed on the stage of Lviv Philharmonic together with the students of Mykola Lysenko Lviv National Music Academy.

Their creative activity has enabled them to gain recognition not only in Lviv and Ukraine, but also abroad. They demonstrated their performances in Poland, Estonia, Lithuania, Armenia, Georgia, Belarus, Slovakia, Austria, Germany, Italy, Holland, Switzerland, Great Britain, Greece, Bulgaria, twice in the USA.







## SCIENTIFIC AND TECHNICAL LIBRARY

Scientific and Technical Library is one of the largest and oldest libraries of higher education institutions of Ukraine, a university department, which serves as bibliographic, scientific, cultural and educational center. In the area of partnership and cooperation library maintains partnerships with leading libraries of Ukraine and the world.

The library fund accounts about 1.9 million copies of the documents, which are the initial documents of the prewar period. Most of them are unique, rare and valuable issues of the XVI–XIX centuries that are of scientific importance. According to the single registry, the library contains about 20 thousand users. Research work, scientific publishing as well as social and cultural activities are the priorities for the library.

The Library organizes International scientific and practical conference “Current problems of libraries in the information society” and the International seminar “Libraries of three Polytechnics: Lviv – Krakow – Lodz.”





# EDUCATIONAL STUDENT WEEKLY “AUDYTORIA” IS ALWAYS IN TREND

Student educational weekly “Audytoria” always works with students and for students. For 70 years of the publication it has experienced different social and political systems, changed its name three times but it was always interesting for students, overwhelming with their energy for its continuous development and progress.

The community of Lviv Polytechnic from the pages of our newspaper learns a lot of interesting things about our achievements and developments, the most relevant upcoming events in the city and in the country. Weekly “Audytoria” can be read in any part of Ukraine (as newspaper is included into the catalogue of Ukraine periodicals, subscription index – 35004), because of the wide range of information loaded, every reader will find interesting and useful information regardless the scope of employment.

Constantly improving, the newspaper has maintained the best traditions of student press and simultaneously creates new ones to be in trend with the youth demands. Organization of educational process, training sessions and routine, the scientific research achievements, new technologies, problems and the diversity of student life, including entertainment, sport and creativity, have always been and are the main topics of newspaper articles.

Editorial office of weekly “Audytoria” is always glad to cooperate with young contributors, opening journalistic and literary talents among students.



# 14 • Sports and Recreation

The promotion of healthy lifestyle among students, organization of sports activities and competitions is of crucial importance. There are two sports buildings with nine well-equipped gyms and a swimming pool, shooting range, gyms in the halls of residence, sports zone in recreation camps. Qualified coaches help students to stay fit, encourage them to join sports clubs (there are 36 kinds of sports practiced here)

Every year the university students and staff actively participate in international, national, regional and local competitions, representing Lviv Polytechnic National University. Each year the university organizes sports events to demonstrate achievements of the year, accompanied by performances of athletes from different sports.

At the XI Ukrainian Universiade, all-university joint team, having performed in 16 out of 19 sports, took the first place among the universities with the student body more than 10,000. The best results were achieved by football, handball, ping-pong players.

In the Universiade of Lviv Region the University teams participated in 39 sports events. In 11 of them they won prizes, ceding in overall standings only to a specialized higher school.

Lviv Polytechnic also successfully conducts its own Universiade among the University research institutes in 17 kinds of sports. 1,570 students participated in competitions in 2016. The Universiade among the teaching staff of the university was also organized.

During the years of its activity the University Sports Club prepared 15 International Masters of Sport, 362 Masters of Sports, and 1548 Candidate Masters of Sports.

Lviv Polytechnic provides a variety of opportunities for rest and recreation to its students and staff. There are three training and recreation camps "Polytechnic-2" (Slavske, Carpathians), "Polytechnic-3" (Morske, Mykolaiv region), "Polytechnic-4" (Zozuli, Zolochiv District) and sports and recreation base in the village of Rozluch, Turka district. Every recreation complex has all necessary conditions to practise many sports, organize parties, discos, excursions and other recreation activities.





# LVIV POLYTECHNIC NATIONAL UNIVERSITY

---

Видавництво Національного університету  
«Львівська політехніка».  
Реєстраційне свідоцтво серії ДК № 4459 від 27.12.2012 р.  
Вул. Ф. Колесси, 4, Львів, 79000  
тел.: + 380 258 21 46, факс: + 380 32 258 21 36  
<http://vlp.com.ua>, e-mail: [vmr@vlp.com.ua](mailto:vmr@vlp.com.ua)

Підписано до друку 26.05.2017.  
Формат 60x84 1/8.  
Папір крейдований. Друк офсетний.  
Умовн. друк. арк. 7,9. Обл.-вид.арк. 5,4.  
Наклад 300 прим. Зам. № 170797.