

# Department of automated control systems

From Electronic Encyclopedia of Lviv Polytechnic

**Department of automated control systems** - a teaching and research unit of the Institute of Computer Science and Information Technologies of Lviv Polytechnic, which was established to train engineers in specialty "Automated control systems".

## Content

- 1 Summary
- 2 Department history
- 3 teaching staff
- 4 Science
  - 4.1 **RL automated control systems (RL-62)**
- 5 Collaboration

## general information

Preparation of bachelors is carried out in the direction 0804 "Computer Science", and masters - 0804.01 specialty "Information control systems and technologies."

The department has collaboration with several foreign universities - University of Toronto (Canada), University of Applied Sciences Zwickau and Nuremberg (Germany), University of Twente (Netherlands), Vienna University of Technology (Austria), Polytechnic University of Rzeszów and Wrocław (Poland). Together studies and drafts indicate the proper place high chair in the world of academics.

For over 30 years the department trained about 3000 engineers and master-system, among them - more than 150 specialists to Germany, Poland, Bulgaria, Czech Republic, Cuba, Vietnam, Syria, Bangladesh and Sri Lanka.

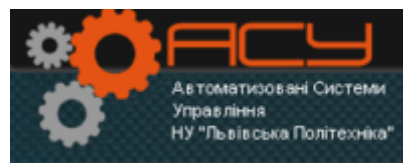
## History Department

ACS Department was established in 1974 based on a group of teachers of the department "Information and measuring equipment" and is located on the 8th floor of the newly commissioned 5th academic building. Set - 100 students annually. The first department staff list included only 5 persons: Head of Department, Associate Professor, k. T. N. Ogorodnyk IM, Senior lecturer, Ph.D. Marunchak DE and assistants Obelovska K.M., Struk MI, Tkachenko RA

New impetus for the development of the department was elected in 1976 as a head of department associate professor Lukaschuk LA - then dean of automation. The teaching staff has increased three times, was the postgraduate program concluded hospdohovory first established a research laboratory RL-62, a branch of the department at SKTB Systems Engineering PA "Electron", formed the scientific direction of the department - the methods and means of computer technology and management systems.

From 1982 to 1992 chair Associate Fabry LP Continued formation of the department are protected first PhD thesis, strengthened mutually beneficial relationships with leading companies and academic institutions in Lviv, has expanded hospohovirna theme. Developed new areas of research - Methods and means for processing voice

## Department of automated control systems



<b>Abbreviation</b>	ASU
<b>Date of foundation</b>	1974
<b>Founders</b>	Lviv Polytechnic Institute
<b>Membership</b>	Institute of Computer Science and Information Technology
<b>Predecessor</b>	Department "Automated control systems"
<b>Head of Department</b>	Professor, <b>Tsmots Ivan G.</b>
<b>Location (address)</b>	st. Art. Bandera 28a, 79013, Lviv; 5 building, room. 801
<b>On page lp.edu.ua</b>	<a href="http://lp.edu.ua/asu">http://lp.edu.ua/asu</a>
<b>Own site</b>	<a href="http://asu.lp.edu.ua/">http://asu.lp.edu.ua/</a>

signals and automation of banks and databases. Started training with specialization "Automated research and comprehensive testing."

From 1992 to 2011 was head of the department of graduate 1977, Professor Dr. Rashkevych Y. During the years 1992-1994 conducted organizational and procedural measures related to the transition to multi-level (Bachelor, Specialist and Master) system training. The department three times in 1993, 1998 and 2003 was the highest state accreditation - the fourth level, started training foreign specialists and graduate students on a contract basis, significantly improved financial and methodological framework for the educational process. As part of the Bachelor "Computer Science", a new specialty "Technology of automated processing of text and graphics." Expanded range of research - the theory of optimal combinatorial structures, neural networks and adaptive systems, specialized means of digital signal processing by five doctoral and more than 10 master's theses. The Department established a specialized academic council K 35.052.14 with the right to review and conduct defense of thesis for candidate degree in the field 05.13.03 "Systems and management processes" and 01.05.04 "System analysis and theory of optimal solutions" . In 1998 he started training bachelors in a new direction "Light industry" of specialty "Publishing and printing business." In 2011, this specialty evolved into a separate department ITVS (information technology in publishing).

A study upgrading laboratories with modern technology department created an extensive network of computer zahalnokafederalna Broadband Internet, regularly updated methodological support, improved technology training. In 2000, the department successfully completed projects under the TEMPUS / TACIS, which was created under the Department National Center for teachers in the use of modern information technologies in educational process, developed and implemented a modern system of organization and management of the educational process.

From 2011 to 2014, GG Department supervised PhD, Professor Medykovskyy Nikolai .

Since 2015 - PhD, Professor Tsmots Ivan Grigorovich .

Today the department has a stable and highly qualified scientific and pedagogical staff, which are 5 doctors and 23 candidates annually published more than 70 scientific papers, performed research work in order SCST, Ministry of Education and by economic contracts, established international scientific and technical cooperation, postgraduate studies and doctoral studies.

## **Teaching staff**

## **Research activities**

Research Interests teachers and employees of the Department Automated Control Systems (ACS) since its inception (1974) are mathematical problems, information, software and hardware automated control systems. Subsequently, these interests were formed into a separate scientific direction - "Methods and means of computer technology and management systems."

The main scientific direction of the department is to develop mathematical methods, models, information, software and hardware automated data processing systems and management. The department established scientific schools, which are fundamental and applied research, prepare qualified specialists have established international links:

- Information control systems and technologies for power
- Research neekvidystantnyh structures combinatorial optimization methods
- Digital Signal Processing in real time

During the period of 2009-2011 staff of the Department were:

- published 3 scientific monographs and 3 textbooks;
- published 369 scientific publications, including in professional journals - 198;

- made 152 reports at 35 international conferences and 16 state reports at 7 conferences;
- 1 doctor and 4 master's theses;
- written 1 state budgetary theme ICPC 2,201,040;
- received 2 security documents;
- exhibited the development of scientific schools 1 1 international and public exhibitions.

Forms of research work of students at the department of management information: scientific seminars, conferences, study groups, research laboratory. Students regularly reported at scientific conferences. Standing scientific seminars "Information Control Systems and Technologies" (supervisor - Professor Medykovskyy MO ) and "Digital Signal Processing in real time" (supervisor - Dr. prof. Tsmots IG ). The department operates RL, which is working on the development of new information technologies involving students.

The department scientific groups are the following areas:

- Neural networks (apparatus for prediction), head professor, Ph.D. Tsymbal Yu
- Simulation Systems, leader Assoc. Kuzmin AV
- Problems modeling of transport networks, leader Assoc., Ph.D. Dronyuk IM

The department conducted scientific work with students by attaching them to the teachers of the department for scientific interest. The result of the research work is published scientific papers and joint definition of scientific tasks for the next realization as graduation projects and master's qualification work. The best scientific refinement students recommended for publication and presentations at scientific conferences. The department held scientific seminars with students on scientific problems of the chair.

The Department developed guidelines for graduate design professionals to master and perform qualification works in the specialty "Information control systems and technologies." These guidance accented note that the data are of Research character.

## **RL automated control systems (RL-62)**

## **Collaboration**

Retrieved from [http://wiki.lp.edu.ua/wiki/index.php?](http://wiki.lp.edu.ua/wiki/index.php?title=Кафедра_автоматизованих_систем_управління&oldid=32248)

[title=Кафедра\\_автоматизованих\\_систем\\_управління&oldid=32248](http://wiki.lp.edu.ua/wiki/index.php?title=Кафедра_автоматизованих_систем_управління&oldid=32248)

The categories : National University "Lviv Polytechnic"

| Institute of Computer Science and Information Technology

- 
- Last change to this page: 15:08, 12 July 2016.
  - This page has been accessed 8760 times.
  - [2 watching users]