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Development of Embedded System Courses with implementation of  
Innovative Virtual approaches for integration of Research,  
Education and Production in UA, GE, AM



# Presentation of P04 – Zaporizhzhya National Technical University (ZNTU) Zaporizhzhya, Ukraine

28-30 January 2014

Anzhelika Parkhomenko



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# Zaporizhzhya region



20 districts, 14 cities,  
23 urban village, 918 villages

1 780 379 peoples

27.18 thousand km <sup>2</sup>

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## Education at Zaporizhzhya region



- Zaporizhzhya National Technical University
- Zaporizhzhya National University
- Zaporizhzhya State Engineering Academy
- Zaporizhzhya State Medical University
- Classic Private University
- Zaporizhzhya Institute of Economics and Information Technology
- Interregional Academy of Personnel Management





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## ZNTU today



- 113 years since the establishment
- 18,000 students of all forms of learning
- 12,000 full-time students
- 9 buildings
- 6 institutes, 11 faculties
- 59 departments
- 5 colleges





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## ZNTU today

Zaporizhzhya Humanities College

Zaporizhzhya Radioelectronics College

Tokmak Mechanical College

Berdyansk Machine Building College

Zaporizhzhya Electrotechnical College







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## ZNTU today

- More than 1,500 faculty and staff
- 452 degrees



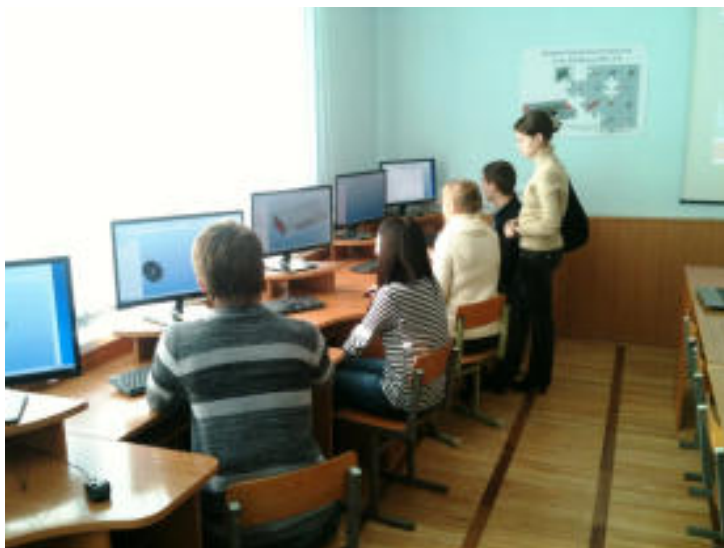


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## ZNTU today

- Bachelors in 36 study areas
- Masters and Specialties in 53 study areas





# ZNTU Institutions and Faculties

## 1. Institute of Machine Construction

- 1.1 Machine Construction
- 1.2 Transportation and Logistics

## 3. Institute of Economics and Humanities

- 3.1 Economics and Management
- 3.2 Humanities Faculty

## 2. Institute of Physics and Techniques

- 2.1 Physics and Engineering
- 2.2 Electrical Engineering

## 4. Institute of Continuing Education

- 4.1 Preparatory Faculty







# ZNTU Institutions and Faculties

## 5. Institute of Information Science and Radioelectronics

5.1 Radioelectronics and telecommunications

5.2 Computer Science and Technologies

## 6. Law and Management Institute

6.1 International Tourism and Human Resources

6.2 Humanity and Law

6.3 Physical Culture and Sport Management





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## Earmarked ZNTU departments involved to the project:

- Information Technologies of Electronic Devices Design
- Microelectronics and Semiconductor Devices
- Electrical Machines
- Software Tools
- Computer Systems and Networks





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## ZNTU today



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# ZNTU E-learning resources





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# ZNTU key research areas:

Material Science and Heat Treatment School

Foundry School

Welding Processes and Material Science School

Material Science in Machine Construction

Metal-cutting Processes in Machine Construction School

Advanced Technologies in the Aviation Engine Construction School

Radiotechnology and Cybernetics

Technical Cybernetics







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# ZNTU achievements and awards



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# ZNTU International cooperation



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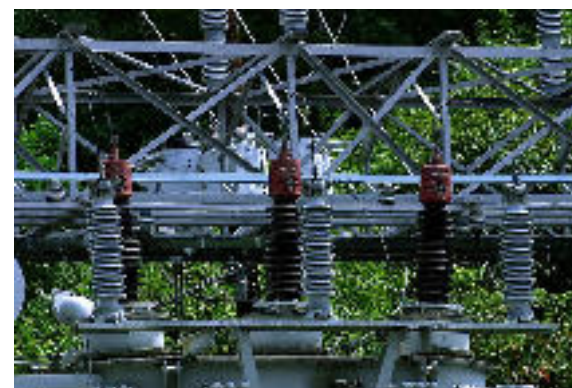
## Industry of the Region

Metallurgy: iron and steel industry, non-ferrous metals, special metals

Engineer: air engine, automotive industry

Electricity Sector: mining stations, company, system power supply

Enterprises of Electronics





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# Enterprises of electronics



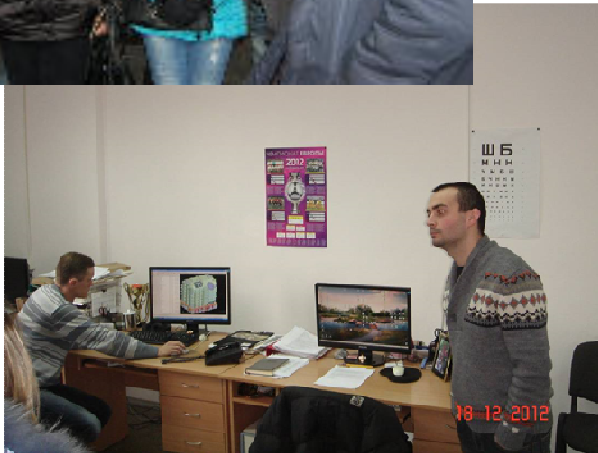




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# Connections ZNTU with Labor Market







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# Connections ZNTU with Labor Market





## Local Project Team

**Galina Tabunshchik** - coordinator of the project from ZNTU, Ph.D., assistant professor of Software tools department.

**Alexander Andriyenko** - Assistant of rector for International Cooperation

**Anatoly Pritula** – Professor of Software Tools Department

**Anzhelika Parkhomenko** - Ph.D., assistant professor of Software tools department

**Larisa Duiko** - leading specialist of International relations department





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