



# Dniprodzerzhynsk State Technical University





## Dniprodzerzhynsk State Technical University

Dniprodzerzhynsk State Technical University is the leading state educational institution of the IV level of accreditation. DSTU has been training highly qualified staff for various spheres of Ukrainian national economy for more than 90 years.

The University comprises 6 faculties, 32 departments (25 of them are graduation departments), economic and technological colleges, research department, regional educational research and production complex “Prometey”, the postgraduate study works on 15 specialties and a specialized academic council (09.091.01) on thesis defense on getting a scientific degree of candidate of technical sciences on specialties: 05.16.02 “Metallurgy of ferrous and nonferrous metals and special alloys” and 05.14.06 “Technical thermal physics and industrial heat power engineering”.

The teaching staff of the University consisted of 289 people. In 2012 there were 38 Doctors of Science, Professors and 185 Candidates of Sciences, Associate Professors, 2 Honored Figures in science and engineering, 1 Honored Worker of higher school of UkrSSR, 2 Honoured Workers of education of Ukraine, 1 State Prize Laureate, 1 Honored Rationalizer of Ukraine. There are 2 325 students on full-time form of education and 2039 students study by correspondence. In total there are 4364 students at the University.



The University has six scientific schools:

- “The Theory and Practice of Steelmaking Processes” (scientific supervisor A. Ogurtsov);
- “Progressive Schemes of Complex Profiles Calibration”(scientific supervisor S. Yershov);
- “Optimization of Electromechanical Energy Conversion Processes” (scientific supervisor O. Sadovoy);
- “Theory and Practice of Sinter-Converter Manufacture in Conditions of Raw Material Base of Ukraine” (scientific supervisor A. Chernyatevych);
- “Physical and Chemical Bases of Heterogeneous Systems” (scientific supervisor M. Voloshin);
- “Environmental Safety” (scientific supervisor O. Zbirovsky).



## Metallurgical Faculty

Departments	Areas of training	Specialties	Specialist, Master
Foundry	Foundry Engineering	Foundry of Ferrous and Non-Ferrous Metals and Alloys	S / M
Ferrous Metallurgical	Metallurgy	Ferrous Metallurgy	S / M
Plastic Metal Working		Plastic Metal Working	S / M
Welding Technology and Equipment	Welding	Welding Technology and Equipment	S / M
Condensed Matter Physics	Physics	Condensed Matter Physics	S / M

Dean of the Faculty:  
Associate Professor,  
Doctor of Technical Sciences  
**Valery Peremitko**





## Mechanical Faculty

Departments	Areas of Training	Specialities	Specialist, Master
Machine-Building Technology	Engineering Mechanics	Machine-building Technology	S / M
	Machine-Building	Instrumental Production	S / M
Metal-Cutting Machines and Systems		S / M	
Metallurgical Equipment		S / M	
Metallurgical Equipment		Metallurgical Equipment	S / M
Processing and Food Technology		Processing and Food Technology	S / M
Automobiles and Automobile Economy	Automobile Transport	Automobiles and Automobile Economy	S / M
Theoretical and Applied Mechanics	Provides training to the students of all specialities		

Dean of the Faculty:  
Associate Professor,  
Candidate of Technical Sciences  
**Volodymyr Solod**



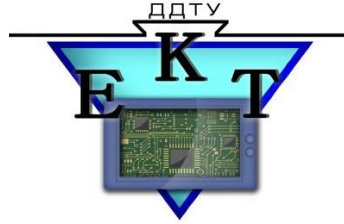


## Faculty of Energetics

Departments	Area of training	Specialties	Specialist, Master
Heat-Power Engineering	Heat-Power Engineering	Heat-Power Engineering	S / M
Electrical Engineering and Machinery	Electrical Machinery	Electromechanical Systems of Automation and Electric Drive	S / M
		Electrical and Transport Systems	S / M
	Electrical Engineering and Electrotechnics	Energy Management	S
Physical Education	Provides training to the students of all faculties		
Physics			

Dean of Faculty:  
Associate Professor,  
Candidate of Technical Sciences  
**Olena Glushenko**





## Faculty of Electronics and Computer Engineering

Departments	Areas of training	Specialities	Specialist, Master
Radio Communication, Broadcasting and Television Equipment	Radio Engineering	Radio Communication, Broadcasting and Television Equipment	S / M
Electronics	Electronic Devices and Systems	Electronic Systems	S / M
	Micro- and Nano-Electronics	Physical and Biomedical Electronics	S / M
Applied Mathematics	Applied Mathematics	Applied Mathematics	S / M
Systems Software	Software Engineering	Systems Software	S / M
Higher Mathematics	Provides training to the students of all faculties		

Dean of the faculty:  
Professor,  
Doctor of Technical Sciences  
**Olexander Sianov**





## Chemical Engineering Faculty

Departments	Areas of Training	Specialities	Specialist, Master
Chemical Technology of Mineral Substances	Chemical Engineering	Chemical Technology of Mineral Substances	S / M
Ecology and Environment Protection	Ecology, Environment Protection and Sustainable Use of Natural Resources	Ecology and Environment Protection	S / M
Industrial Biotechnology and General Chemistry	Biotechnology	Industrial Biotechnology	S / M
Labor Protection and Safety Department	Provides training to the students of all specialities		

Dean of the Faculty:  
Candidate of Technical Sciences,  
Associate Professor  
**Valery Mahovsky**





## The Faculty of Management, Economics, Sociology and Philology

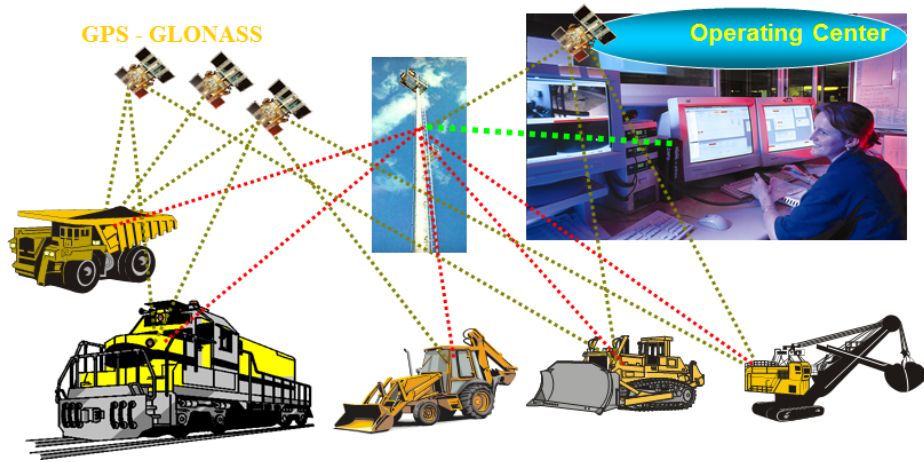
Departments	Areas of training	Specialities	Specialist, Master
Business Management and Administration	Management	Business Management and Administration (by economic types of activities)	S / M
Finance and Credit	Finance and Credit	Finance and Credit (by special programs)	S / M
Accounting and Audit	Accounting and Audit	Accounting and Audit	S
Translation	Philology	Translation	S
Sociology	Sociology	Sociology (by types of activity)	S / M
Economics and Industry engineering	Provides training to the students of all the faculties		
Foreign Languages			
Informatics and Computer Technology			
Philosophy and Law			

Dean of the Faculty:  
Associate Professor,  
Candidate of Economics  
**Nataliya Caravan**



# The System of Operational Management Processes of Recultivation of Lands that are Violated by Mining Operations

## Process Management Remediation Using Satellite Navigation



Scheme of the operational management of mining and transport equipment for reclamation in quarries.

## Economic Efficiency of Introduction of System of Operative Management of the Processes of Land Reclamation in the Quarries

- Savings in fuel and service life of 3-5%
- Reducing downtime and time of the flight on 5-10%
- The expected economic effect of the VMMC is more than 0,85 mln UAH/year