

Mariupol is one of the most dynamic and developed cities of Ukraine. It has large industrial and economic potential, modern infrastructure, well educated persons of Ukrainian intelligentsia, engineering, scientifically pedagogical workers. There is the Priazovskiy state technical university in Mariupol. It is one of the institutions of high education with seventy eight years history of existence. The role of regional coordinator in the industry of educative and scientific activity in a large industrial region is taken by PSTU.

The rector of university is Voloshin Vycheslav, doctor of engineering sciences, professor, manager of department of labour and environmental protection, actual member of the International academy of ecology sciences, safety of man and nature. He has successfully managed the University already during five years.

Basing on the interests of the region, the University carries out preparation of specialists by the 17th directions, 35th specialities and 10th specializations. In obedience to a government order and contractual obligations the forms of studies are part-time, full-time and distance. By educational qualification levels the forms of study are bachelor, specialist and master degrees for such industries of national economy as metallurgy, engineer, electronics, energy, computer systems, automation and management, industrial transport, international transportations, industrial and civil building, informatics, applied mathematics, economy, education, technical education, art and other spheres of science and manufacturing.

There is the system of continuous preparation of specialists at the University: pre-university preparation (preparatory separation, courses, educational complex «Priazov'e»), university and postgraduate education (the second high education, upgrading courses). Executable educational codes are orientated on profiling of scientific and basic disciplines, features of economical and ecological education.

Necessary terms and conditions are created at the University for conducting educational process on a proper level for optimization of maintenance of studies, for improvement of the training load planning, well timed introduction of changes into education programs, effective material and technical and scientific-methods supporting academic activity.

Presently over fifteen thousand students are studied at the University. About four thousand students are full-time students, about six thousand students are part-time students, and over five thousand students are students of technical schools, lyceum and college of PSTU.

There are 10 faculties and 42 departments at the University. Five hundred fifty one scientifically pedagogical workers among them 41 doctors of sciences, professors, and 218 candidates of sciences, associate professors are employed by the University.

Scientific potential of the University is based on almost ten acknowledged scientific schools in the industry of electrical supplies, metallurgy, engineering, welding, physics of solid, three research institutes, regional department of the Academy of Sciences of High School of Ukraine. Presently about 80 doctors of sciences and professors, academicians and members-correspondents of different academies of sciences including, international work at the University. In the asset of research workers of PSTU are over 2300 inventions and international warranties. Annually 75 train aids, monographs, articles, and about 800 with the students' participation are issued at the University. Teachers and research workers of the University support long-term creative relationships with colleagues from the countries of Western Europe, USA, Japan, countries of Near East. Mutual international exchanges of the students are annually adjusted with the organizations, including studies, passing of educational practice, etc. The university takes an active part in the international scientific and educational programs, particularly in TEMPUS, DAAD, URANIUM, etc.

The department of labour and environment protection was created in 1971 on the base of the proper laboratory. From 1995 year a department was led by the rector, doctor of engineering sciences, professor, V.S. Voloshin. Two doctors of engineering sciences, six candidates of engineering sciences and two candidates of medical sciences successfully work and carry on scientific activity in the department.

The following basic disciplines are thought in the department: Rational Nature Usage and Efficient use of recourses based of labour protection, labour protection in industry, safety of vital functions, basis of ecology, guard of environment, valeology.

The department includes six educational laboratories, particularly laboratories of safety of vital functions, labour and environment, electric safety, bases of ecology, valeology protection, etc.

Scientific activity of the department covers such directions as:

- ecology of megapolis and industrial regions;
- diagnostics of the technical systems;
- theory and methodology of study of waste formation in the industrial systems and minimization of industrial waste;
- technology and equipment is for safe maintenance of metallurgical aggregates;
- development and creation of quasi-textile filters is for cleaning of air and liquid environments from contamination;
- creation of bio-positive technologies of marine water treatment;
- creation of new materials is for protecting from the electromagnetic and acoustic fields.

The following organizations cooperate with the department: the Azovskaya ecological research station and research institute of ecology of the Azov Sea of High Education School of the Science Academy of Ukraine. Inter-departmental science



and research laboratory of filters of Nemtsova. The department is the producer of the unique self-refreshing quasi-textile filters for cleaning air and liquids from a dust and other contaminations.

The employees of the department have relationships with colleagues from many institutions of high education of CIS and Western Europe countries, particularly with Lomonosov Moscow StateUuniversity, Athenian national technical university (Greece), Technical universities of Wueppertal and Wuezburg (Germany), Metallurgical institute of Tabbin (Egypt), Masachusetskiy

technical university (USA), with the enterprises of mariupol and local authorities of mariupol. The department has issued the Program of Ecological Development in Mariupol from the year of 2007 till 2017.

The special attention is given to the international project «Network development of courses on training in area of a transport management (VETLOG)», which within the framework of the international program TEMPUS scientists-transport workers of our university execute in a chapter with the leader of project by director of institute of mechanics and transport PGTU by professor V.K.Gubenko.

A new project will allow getting very important results, which will underlie, both students and workers of industrial enterprises preparation in the area of environmental management taking into account European experience and methods of distance training in the institutes of high education in Ukraine. The group of probationers is formed - future professors of training with knowledge of the European languages, interests of industrial enterprises. The unique Training laboratory of VETLOCi PSTU will support and will give the best opportunities at the highest methodical and technical level with the requirements of the European standards to organize teaching of students and workers of enterprises and firms. It is possible to use this laboratory for implementing goals and aims of the project UMRU.

Creation of such training center in Priazov'e will allow substantially promote efficiency of work of our industrial enterprises. Before it was possible to get such type of education only in European centers.

General aims:

- Improvement of co-operation of universities and companies in the field of grant of services of education and teaching skills, to having an important practical (production) value and which answer the necessities of labour market;

- Transmission and adaptation of European experience in area of e-learning (e-learning) to the terms of the Ukrainian universities.

Concrete aims of project:

Networking the Ukrainian and European universities and companies for joint development of environmental management.

- Joint development of environmental management courses for the improved vocational training and preparation of the Ukrainian specialists and administrative employees from the sphere of industry, including teaching of professional trainers-teachers.
- Test and introduction of educational courses of environmental management.
- Preparation of teachers and employees of universities for implementation of duties of the vocational training the methods of the in-plant of specialists and administrative workers training.
- Preparation of updating programs and courses in environmental management for the specialists employed by regional enterprises (the experience of such process already exists). Introduction of the Environmental Management Course into Master Program.
- Upgrading qualification of the teachers and technical staff who lecture Environmental Management at the University. Training new staff.
- Brining the University to the proper level for receiving the Certificate by EMAS and ISO 14001 Standards.
- Developing new study courses of environmental protection by university specialists.
- Solving university social and economical problems with the use of the Environmental Management system.

- Taking experience of the internal auditing in order to use this information for writing Doctoral dissertations and graduation works.
- Increasing competitive ability of regional enterprises' production

Working group of PGTU

Ф.И.О	Должность	Контактный телефон	e-mail
Voloshin V.S.	Rector of PSTU, Professor	0038 0629 33 21 08	rektor@pstu.edu
Gubenko V.K.	Contact person; trainee	0038 0629 33 34 16	gubenko@pstu.edu
Taranenko A.M.	Manager, trainee	0038 0629 44 65 72	altaran@yandex.ru
Danilova T.G.	Docent	0038 0629 31 65 85	danilova@pstu.edu