National technical University
“Kharkiv polytechnic institute”
Educational-scientific institute of
Mechanical Engineering and Transport

DEPARTMENT of
“Chemical Engineering and
Industrial Ecology”
1. Why you should choose our department?

- Modern teaching methods
- Distance learning system
- English-speaking tutors
- Modern computer class
- Beautiful hostel
- Great sports complex
- Popular specialties in different areas
2. About specialty “Equipment for food, processing and chemical industry”

Employment perspectives:

- Mechanical engineer
- Design engineer
- Research engineer
- Production mechanic

- Fruits and vegetable processing factories
- Beer and cheese factories
- Food production enterprises
- Chemical enterprises
- Oil refinery factories
- Building materials enterprises
2.1 General academic disciplines for the students for “Equipment for food, processing and chemical industry”

**at bachelor’s level**
- Application Study of Materials
- Equipment Assembly and Maintenance
- Machines and Apparatuses of Chemical and Food Enterprises
- Chemical and Food Industry Waste Utilization and Recuperation Engineering Systems Theory
- Management Engineering and Marketing
- Manufacturing Automation

**at master’s level**
- Refrigerating Engineering and Technology Products Retention
- Special Equipment of Agricultural Processing Enterprises
- Biochemical and Microbiological Bases of Food and Fermentative Technology
- Fundamentals of Industrial Construction and Sanitary Equipment
- Equipment of Chemical Industry Standardization and Certification
- Technological Complex of Enterprises of Construction Materials, Products and Constructions
3. About specialty “Ecology”

Employment perspectives:
- Researcher
- Ecologist
- Engineer on technogenic and ecological safety
- Organizer of nature management

Governmental departments of environmental protection

Engineer of environmental activities at different enterprises

Waste and recycling companies, sewage treatment plants
3.1 General academic disciplines for the students for “Ecology”

**at bachelor’s level**

- Meteorology and Climatology
- Geology with Basics of Geomorphology
- Ecology of Urban systems
- Natural Resources and Environmental Protection
- Geographic information system Technology
- Reserve Management and Studies, Biodiversity Saving
- Environmental Safety and Environmental Review
- Energy Saving Processes and Technologies while Ecological Safety Production Design
- Environmental State Modeling and Forecasting
- Biological elimination of industrial and natural sewage
- Biological purification and deodorization of air-gas emissions

**at master’s level**

- Environmentally sustainable cities Development
- Management Engineering and Marketing
- Environmental Management
- Ecological Bases of State Sustainable Development
- Biotechnical Environmental Safety
- Bases of Low-waste Technology Designing
- Technogenic and Ecological Safety Governance
4. International cooperation with different universities

As part CENEAST project at the department in conjunction with universities in the UK, Italy, Lithuania, Estonia carried out work to improve training programs for master's environmental strategy.

Students of specialty “Industrial ecology” have semester mobility in the Pomeranian Academy (Slupsk, Poland). In Academy they study:
- Methods for environmental monitoring, bioindication elements
- Economics and Management in Environmental Protection
- Biodiversity
- Threats of civilization and sustainable development
- Hydrology and Water Resources Management
- Environmental Technology
Our contacts:
Kharkov, Ukraine, Kyrpychova str. 2
National Technical University
“Kharkov polytechnic institute”
Technical building
Contact number (+38057) 707-68-57

e-mail: kafedrahtpe@i.ua
http://web.kpi.kharkov.ua/htpe

www.facebook.com/kafhtpe/