

# National technical University “Kharkiv polytechnic institute”

Faculty “Integrated Technologies and Chemical Engineering”



## 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



Waste and recycling  
companies,  
sewage treatment plants



Engineer of environmental activities  
at different enterprises

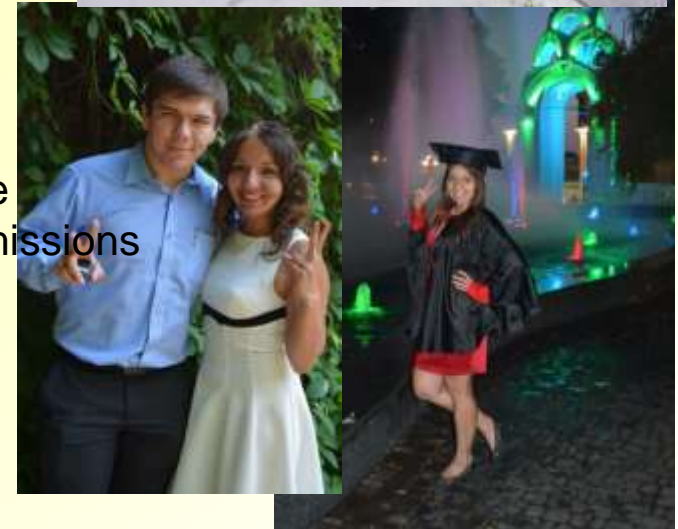
# 3.1 General academic disciplines for the students for “Ecology”

## 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:

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