

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



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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