



МІНІСТЕРСТВО
ОСВІТИ І НАУКИ
УКРАЇНИ

Odesa Polytechnic National University

Fostering Collaboration and Innovation: The Role of Odesa Polytechnic National University in International Partnerships in Horizon Europe, Erasmus+ and Beyond

22 April 2025

Speaker
Oleh Shabluii

Full official name: **Odesa Polytechnic National University**

Shot official name: **Odesa Polytechnic**

Acronym: **(OP)**

Founded in: **1918**





Ex Professo - With knowledge
of the matter

Our
motto

WE ARE HERE

*65044, Ukraine, Odessa, Shevchenko av., 1
Odessa Polytechnic National University*



OUR PHILOSOPHY

our essence



MISSION

Training on the basis of the academic culture of integrity and national identity of highly qualified specialists capable of lifelong learning, and the formation of the intellectual capital of society.



VISION

To be a modern university that combines educational, scientific and innovative activities in an environment of high institutional culture and is able to generate scientific knowledge and innovative technologies, the achievements of which are based on age-old traditions of knowledge and are recognized in Ukraine and the world.



GOAL

Ensuring the sustainable development of the university integrated into the global educational and scientific space.

THIS UNIVERSITY *incorporates*



15

Educational-scientific
institutes and
faculties



64

Departments



3

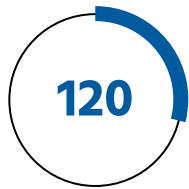
Colleges



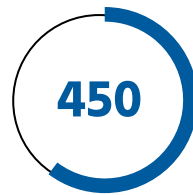
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Higher vocational
school

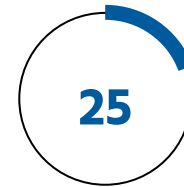
SCIENTIFIC-PEDAGOGICAL *potential*



Professors, Doctors
of Science



Associate
Professors, PhDs



Honored Scientists
of Ukraine

Educational and scientific *institutes*

- (IH) Institute of Humanities
- (IE) Institute of Energy
- (IEEE) Institute of Electrical Engineering and Electromechanics
- (IEM) Institute of Economics and Management
- (IISRT) Institute of Information Security, Radio Electronics and Telecommunications
- (ICS) Institute of Computer Systems
- (IMdE) Institute of Medical Engineering
- (IPSA) Institute of Public Service and Administration
- (ICTP) Institute of Chemical Technology and Pharmacy
- (IDTDT) Institute of Digital Technologies, Design and Transport
- (IAIR) Institute of Artificial Intelligence and Robotics
- (IDCE) Institute of Distance and Correspondence Education
- (USI) Ukrainian-Spanish Institute
- (UGI) Ukrainian-German Institute
- (UPI) Ukrainian-Polish Institute
- (EIFCT) Educational Institution of Foreign Citizens Training



Higher education levels

of training programs



First (Bachelor's) level:

36 specialties, 76 educational programs
(specializations);



Second (Master's) level:

29 specialties, 62 educational programs
(specialization);



Third (Educational and Scientific) level (Doctor of
Philosophy degree):

22 specialties;



Scientific level (Doctor of Sciences degree):

15 specialties.



Scientific Directions of the University

Information and Communication Technologies

Agro-Industrial Complex and Biotechnology

Nuclear Power and Radiation Safety

Economy

Energy and Energy Efficiency

Engineering

Scientific Support of Security and Defense

New Materials and Nanotechnology

Healthcare

Instrumentation

Environmental Management and Sustainability

Construction Technologies and Vehicles

Governance and Administration

Infrastructure

Scientific & technical library

5 reading halls, book fund of 1 million 200 thousand titles, electronic library, free Wi-Fi zones

Students leisure & culture Palace

1000 seats, pop, dance and theater performance studios

Sports complex

7 specialized gyms, swimming pool, shooting gallery, stadium, tennis courts, sports yards

Sports and recreation campus

Camp in the ecologically green zone of Carolino-Bugaz

Sanatorium-preventorium



Consequences of Russian aggression



After
14/06/2023
Russian
missile
attack



October
2023



INTERNATIONAL PROGRAMS

in which this University has taken part



Erasmus+



DAAD

Deutscher Akademischer Austausch Dienst
German Academic Exchange Service



European Commission

TEMPUS



SOUTH EAST EUROPE

Transnational Cooperation Programme

FNSNF

SWISS NATIONAL SCIENCE FOUNDATION



TWINNING

SUPPORTING UKRAINIAN UNIVERSITIES



European Commission

ERASMUS MUNDUS



Education and Culture DG

Lifelong Learning Programme



Romania-Ukraine-Republic of Moldova

CROSS BORDER COOPERATION

Horizon Europe and Beyond

Strategic Research for Environmental Safety and Climate Resilience

Integrated Forecasting of Environmental and Human Health
Risks from Radioactive and Anthropogenic Pollution:
Advanced Models for Radiation-Ecological Impact
Assessment of Nuclear Energy Systems

A cross-sectoral approach to forecasting environmental safety and public health, leveraging AI-driven modeling and diagnostics to assess the short- and long-term impacts of nuclear power plant accidents and persistent anthropogenic pollution.



Horizon Europe and Beyond

*Strategic Research for
Environmental Safety and Climate Resilience*

Smart Monitoring of Urban Air Quality: Stochastic-Hydrodynamic and Atomic Diagnostics for Industrial Pollution Control and Sustainable “Green City” Transitions

Development of a real-time, AI-integrated monitoring system for industrial air pollution using advanced fluid dynamics and atomic-level diagnostics to support data-driven urban planning and clean technology deployment.



Erasmus+ and Beyond

Structuring Innovation, Responsibility, and Future Tech in Higher Education

Innovation, Research, and Entrepreneurship Ecosystem for Future Technologies (IREE-FT)

As a Structural Measures (SM) project, IREE-FT establishes a university-wide ecosystem for research, innovation, and entrepreneurship in AI, quantum computing, and data science. The project supports higher education reform by integrating interdisciplinary R&D clusters, startup incubators, and AI-powered training into academic governance and industry collaboration. IREE-FT will drive technology commercialization, foster startup creation, and enhance AI-driven research, aligning with EU digital transformation priorities.

Erasmus+ and Beyond

Structuring Innovation, Responsibility, and Future Tech in Higher Education

Advocacy for Transdisciplinary AI Responsibility and Innovation (ATARI)

ATARI integrates AI, Law, and Environmental Science into an interdisciplinary education and research framework for responsible AI governance. The project develops AI-powered regulatory models, climate risk assessments, and legal-tech applications to ensure ethical AI deployment. Through structured curricula, digital learning, and public engagement initiatives, ATARI strengthens AI advocacy, sustainable governance, and legal compliance across industries and policymaking sectors.

THANK *you!*

Does anyone have any questions?

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Get in touch

