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ERASMUS+

KA 2 - Cooperation for innovation and the exchanges of good practices
Capacity Building in Higher Education
Joint Project



Master in SMARt transport and LOGistics for cities

Erasmus+ project of 585832-EPP-1-2017-1-IT-EPPKA2-CBHE-JP



PhD Program

National Transport University

prof. Oksana Hulchak

29 July 2021





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New approaches to the educational program of the third level of training of applicants have been standardized since 2016
(Resolution of the Cabinet of Ministers of March 23, 2016. № 261)

Postgraduate activity in Ukraine is regulated by the Provision on the training of research and academic staff
(approved by the Cabinet of Ministers of Ukraine, resolution №309, 1 March 1999)

The Doctoral Studies Department at the National Transport University has worked successfully since 1947.



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The National Transport University has:

4 specialized scientific councils for the defense of a thesis
on 10 specialties

Three of them are empowered for the defense of both PhD
and Doctoral theses

One council is responsible for admitting thesis defense to
get a scientific degree of PhD



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Postgraduate and Doctorate training is carried out:

1) at the expense of:

State Budget of Ukraine – the state order for work in the public sector of the economy;

Entity and physical persons – on the terms of a contract – for work in public and private sectors of the economy;

2) foreigners and non-resident persons on the grounds of:

International agreements;

National programs;

Contracts signed by the higher education and academic institutions with the entity and physical persons.



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Requirements for PhD entrance

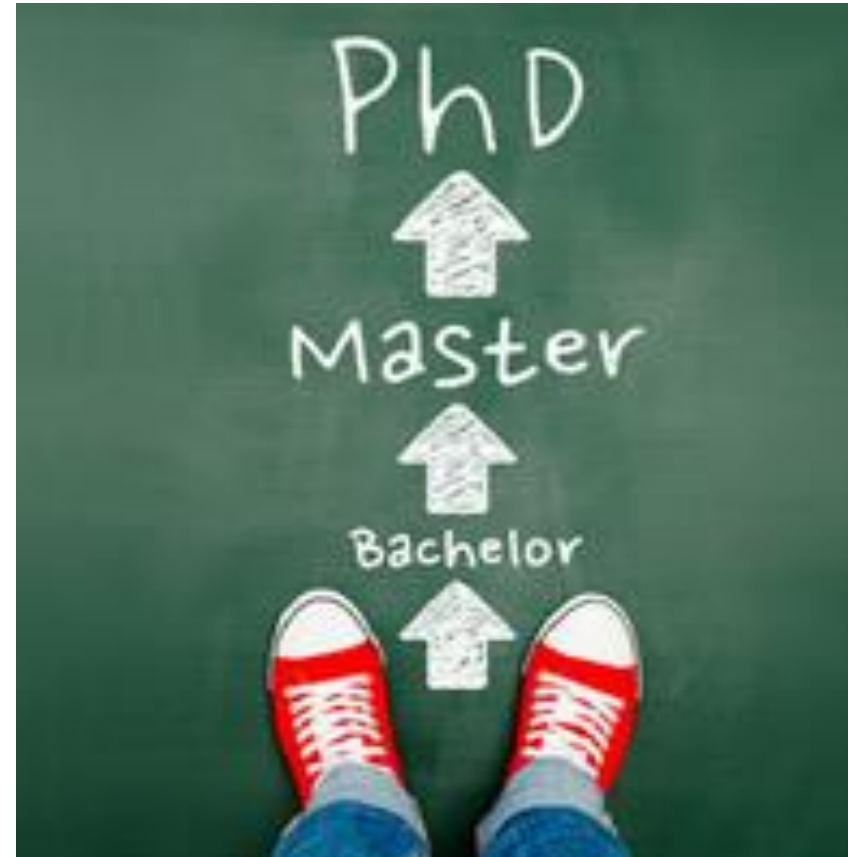
The Applicants must have:

- Higher education
- Specialist's or Master's degrees

They can study without
discontinuing work.

Scholarship

The postgraduate scholarship is 90%
of teacher's salary





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According to the LAW OF UKRAINE On Higher Education

The normative term PhD program - 4 years

The sum of credits - 30-60 ECTS

Educational activities are carried out on the basis of licenses
in the field of education and science





PhD program was created on the basis of specialties

05.22.01 - Transport
Systems

05.13.22 - Project and
Program Management

According to the specified specialties for obtaining scientific degrees of the candidate and 3 doctoral and 25 candidate dissertations were defended by doctors of sciences.

Transport Technologies in Road
Transport



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Educational program Transport Technologies in Road Transport (#48168)

Specialty #275 Transport technologies (in road transport)

Forms of education	Training period
Part-time (evening tuition)	4 years
Correspondence	4 years
Full-time	4 years



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Information about NTU PhD applicants

Specialty #275 Transport technologies (in road transport)

Year of study	The recruitment academic year	PhD applicants in the relevant year of study		
		Full-time	Part-time (evening tuition)	Correspondence
1 course	2020 - 2021	3	3	0
2 course	2019 - 2020	5	0	1
3 course	2018 - 2019	3	3	2
4 course	2017 - 2018	2	5	0

Total 27 PhD students.



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Structural and logical scheme for the training of PhD in the specialty 275 Transport technologies (in road transport)

1st study year		2nd study year		3rd study year		4th study year	
1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	7th semester	8th semester
Studying process. Compulsory disciplines							
		Studying process. Selective disciplines					
		Teaching practice		Teaching practice		Teaching practice	
Own scientific research							
							Defense of the thesis



Compulsory disciplines

- Foreign language of scientific communication
- Methodological foundations of scientific research of transport problems
- Scientific and methodological foundations of the conceptual development of transport technologies and systems
- Fundamentals of Psychology and Pedagogy of Higher Education
- Formation of a systemic scientific worldview
- Models and methods of optimization of international freight traffic in transport systems
- Information support for road users
- Production paradigm of transport and systems analysis of the renovation of road transport technology
- Modeling processes in intelligent transport systems
- System analysis of multimodal transportation processes
- City Transport Logistics

Selective disciplines

- Scientific and methodological foundations for building international transport and logistics clusters
- Transport systems management
- Scientific and methodological foundations of the system analysis of transport forwarding activities
- Infrastructure support of transport and technological processes in integrated production systems
- Innovative Traffic Management Methods
- Methodology of a systems approach in the organization of transport and technological processes in road transport
- Statistical Data Mining Techniques
- Interaction of modes of transport and logistics management of transportation
- System methodology of technical and technological development of vehicles and processes of reproduction of transport services
- Analysis of innovative automotive projects



The content of the educational and scientific program (ESP)

Compulsory Components

Components of language competence formation

Components acquisition of in-depth knowledge of the specialty

Components of mastering general scientific (philosophical) competencies

Components of acquiring universal skills of a researcher

Practical training in the form pedagogical practice and selective components of ESP



Assistance from the University during training

- NTU organizationally and materially helps for conducting and testing the results research of PhD students through their participation in conferences and state budget research works of NTU.
- The university annually holds a scientific conference of faculty, where PhD students must present their research.
- In addition, the university, which agrees to cooperate with other higher education institutions promotes the creation of research papers of PhD students to participate in scientific conferences organized by these educational institutions.
- Graduation departments have computer classes and laboratories in which PhD students must conduct their research.
- PhD students have the opportunity to publish the results of research in the professional publication "Bulletin of NTU. Technical sciences".
- Twice a year at graduate departments deserve reports of PhD students on the status of their research.



Ways of implementation Theoretical fundamentals of Ph.D. Program in SmaLog

Development of an educational and scientific program for the
training of PhD students



Development of a curriculum for PhD students



Settlement of the procedure for redistribution licenses number
PhD students with the management of NTU



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SPECIAL THANKS

NTU passed the accreditation procedure for the PhD program in July 2021. The final result is not yet known, but we hope for a positive assessment.

Special THANKS to the project partners:

- **prof. Antonio Comi,**
- **prof. Aleksander Sladkowski and his team**
- **prof. Andrii Galkin**

for joining the meeting with the expert committee and supporting our university!