

SUSTAINABLE DEVELOPMENT PLAN OF THE ERASMUS+ PAGOSTE PROJECT RESULTS AT NATIONAL TRANSPORT UNIVERSITY





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ACRONYMS

PAGOSTE - Erasmus+ project "New mechanisms of governance based on partnership and standardisation of vocational teacher training in Ukraine"

HEI - Higher Education Institution

IPTE of NAES of Ukraine - Institute of Vocational Education of the National Academy of Pedagogical Sciences of Ukraine

CMU - Cabinet of Ministers of Ukraine

MES of Ukraine - Ministry of Education and Science of Ukraine

NTU - National Transport University

VET - Vocational Education and Training

SDP - Sustainable Development Plan

UIPA - Ukrainian Engineering and Pedagogical Academy

1. INTRODUCTION

Sustainable Development Plan (SDP) is aimed at ensuring the long-term viability and impact of the PAGOSTE project on the functioning and development of the system for training specialists in vocational education institutions at the National Transport University (NTU).

The SDP involves the development and implementation of a set of measures that will contribute to the development and sustainability of the project's results at NTU based on the principles defined in the Concept1, and are directed towards continuous improvement and updating of educational programs, enhancing the qualifications of the academic personnel, improving the quality of practical training, developing the foreign language competencies of education seekers, expanding practice bases, ensuring interinstitutional collaboration to support the sustainability of project results (participation in the activities of the online platform "Partner Space 015," using the developed professional standards and partnership assessment tools, collaborating with the Association for the Development of Vocational and Continuous Education, the Ministry of Education and Science in the field of higher and vocational (vocational-technical) education, joint publications), and effectively applying the project's results and the best European experience gained in collaboration with stakeholders.





2. OBJECTIVES OF SDP

- 1. Continuous updating and improvement of educational and professional programs at the bachelor's and master's levels in the field of specialization 015 "Vocational Education (Transport)".
- 2. Continuous updating and improvement of the list of educational components of bachelor's and master's level educational and professional programs in the field of specialization 015 "Vocational Education (Transport)".
- 3. Systematic enhancement of vocational competencies of pedagogical personnel at NTU.
- 4. Continuous updating and improvement of the content of practical training for bachelor's and master's degree seekers in the field of specialization 015 "Vocational Education (Transport)".
- 5. Enhancement of foreign language training for future teachers of vocational education using the equipment provided within the framework of the project in the Department of Foreign Philology and Translation.
- 6. Systematic work of the Committee for Quality Assurance and Development of Teacher Training in Professional Education and Training, with the expansion of the composition of representatives from vocational (vocational-technical) and higher education institutions, research organizations, public organizations, and businesses.
- 7. Promotion of the specialization 015 "Vocational Education (Transport)" during career guidance events.
- 8. Dissemination of project achievements on the online platform "Partner Space 015" and on the NTU website.
- 9. Efforts to engage partner institutions of vocational (vocational-technical) and professional education and learners in the online platform "Partner Space 015".
- 10. Appliance of educational and methodological materials prepared within the PAGOSTE project for working education seekers using the equipment in the laboratory of the Department of Technical Vehicle Operation and Auto Service.
- 11. Integration of training materials developed within the PAGOSTE project into the professional development of teaching personnel in vocational (vocational-technical) and professional advanced education institutions.
- 12. Conducting professional development courses for teaching personnel in vocational (vocational-technical) and professional advanced education institutions.
- 13. Collaboration with higher education institutions that are partners in the PAGOSTE project to exchange experience in the management of future teachers' vocational education based on partnership.
- 14. Exploration of new opportunities for applying the project's achievements and acquired experience.





- 15. Continuous dissemination and promotion of the results and achievements of the PAGOSTE project through the publication of information on internet resources, local media, scientific articles, and educational manuals, as well as during career guidance events.
- 16. Seeking new ways to collaborate with educational institutions in vocational (vocational-technical) and professional advanced education in the region to further implement the project's results and enhance the quality of teacher training in professional education and training.

3. VALIDITY OF SDP

Five years

4. TARGET AUDIENCES AND DEPARTMENTS THAT WILL BE INVOLVED IN THE SDP IMPLEMENTATION

- Education seekers (bachelors, masters, postgraduates)
- Scientific and pedagogical personnel of the National Transport University
- University administration
- Engineers, employees, and support personnel of the university
- Teaching personnel of vocational and professional advanced education institutions
- Other stakeholders

5. PROJECT RESULTS FOR WHICH SUSTAINABILITY MEASURES ARE BEING DEVELOPED

5.1. NATIONAL LEVEL PROJECT RESULTS

5.1.1 TOOLS FOR ANALYSING THE NEEDS OF TARGET GROUPS

In the course of the consortium's work on the first work package "Analysis of Vocational Teacher Training Management", tools (questionnaires) were developed to study the needs and expectations of the main target groups regarding cooperation and partnership in vocational education. The leader of the first work package and responsible for its implementation, including the development of analysis tools, is the Institute of Vocational Education and Training (IVET) of the National Academy of Pedagogical Sciences of Ukraine. The target groups are: university teachers and students, teachers and students of vocational education institutions.

The results of the survey conducted by the NTU working group among its target groups were taken into account when developing the institutional document - the Concept of Development of the System of Vocational Education and Training at National Transport University on the Basis of Partnership.





In the future, these tools will be used to improve the system of training teachers of vocational education and training at National Transport University on the basis of partnership.

5.1.2 STUDYING THE EU EXPERIENCE IN THE FIELD OF VOCATIONAL EDUCATION MANAGEMENT AND THE STATE OF COMPETENCES OF VOCATIONAL EDUCATION TEACHERS IN UKRAINE

The information gained from studying the experience of European partner universities became the basis for modernizing and updating the curricula of bachelor's and master's degrees in the speciality 015 "Vocational Education", in particular in terms of practical training, the ratio of professional (technical) and pedagogical training disciplines, as well as for building a mechanism of partnerships between NTU and stakeholders in the training of future vocational teachers.

5.1.3 WEB PLATFORM "PARTNER SPACE 015"

Within the framework of the project, the consortium developed the web platform "Partner Space 015", which will serve as a central information exchange centre for vocational schools. The leader of the web platform development is the IET of the NAES of Ukraine. The Platform contains the following information:

- 1. Profiles of higher education and vocational education institutions with detailed information about their mission, goals, programmes, means and achievements.
- 2. Feedback from students, personnel and other stakeholders. This feedback will be used to assessthe quality and effectiveness of educational programmes and practice websites.
- 3. A database of VET, professional pre-university and higher education institutions and facilities, which is a valuable resource for students, teachers, government officials and other stakeholders, providing quick access to key information about these institutions.
- 4. Profiles of teachers of higher education, vocational pre-university and VET institutions. This information will facilitate cooperation, knowledge sharing and networking between personnel, creating opportunities for professional development.
- 5. Information on grant programmes available for VET institutions, vocational pre- and higher education, teachers and students. This information will help stakeholders to identify funding opportunities, promote innovation and improve the quality of education of future VET teachers.

The information submitted by NTU to the platform will be updated regularly.

5.1.4 UPDATING THE VOCATIONAL EDUCATION STANDARD "VOCATIONAL TEACHER"

Within the framework of the IPT project, the National Academy of Education and Science of Ukraine updated and approved amendments to the Vocational Education Standard "Vocational Teacher".





Target groups: teachers of vocational education institutions, teachers of higher education institutions.

The document is disseminated in various ways, including roundtables, seminars, conferences, digital platforms and the official website of the National Qualifications Agency. These dissemination activities facilitate knowledge sharing, gather feedback and encourage stakeholders. Stakeholder engagement is intended to ensure the relevance and effectiveness of the professional standard.

The professional standard is binding as an official regulation.

The risks associated with the shortage of VET teachers in the labour market and, as a result, with the application of the amended professional standard are addressed through the creation of a support plan.

This plan highlights cooperation with industry partners, internship programmes and professional and pedagogical mentoring. The implementation of these steps is a priority to overcome the shortage of teaching personnel in vocational education and training institutions.

5.1.5 ASSOCIATION FOR THE DEVELOPMENT OF PROFESSIONAL AND CONTINUING EDUCATION

An important outcome of the project is the establishment of the Association for Vocational and Continuing Education (AVCE), which plays an important role in knowledge transfer and cooperation in the vocational education sector. The Ukrainian Engineering and Pedagogical Academy, Kharkiv (UIPA), is the leader of the Association.

Target groups: teachers of higher education institutions, teachers of vocational higher education institutions, teachers of VET institutions, heads of higher, vocational higher and vocational education institutions.

The ARPD serves as a network for university personnel to connect, share best practices, engage in research collaboration, and represent the interests of teacher education in policy dialogue. The benefits of joining ARPTE include:

Knowledge transfer: ARVET will facilitate the exchange of knowledge, experience and innovative practices between VET, higher education and higher education personnel through conferences, webinars and workshops, thus providing ARVET members with opportunities to improve their professional skills through, among other things, self-education and to keep abreast of the latest developments in VET.

Professional development: The Association provides opportunities for professional development, including, in particular, training seminars. This initiative contributes to the improvement of the qualifications and professional competence of the University's teachers, enabling them to provide high quality educational services and support their own professional growth.

Research cooperation: The ARPTE promotes research cooperation between Ukrainian higher education institutions and foreign institutions, facilitating interdisciplinary research and joint research projects. In this way, the association contributes to the acquisition of new knowledge by stakeholders and the development of professional teacher education.





Representing the interests of VET teachers and in-service training: ARPTE members can formulate their needs and expectations from the policies implemented by the MES of Ukraine and be involved in discussions of MES initiatives in the field of vocational education.

Key performance indicators (KPIs) of the involvement of teachers and administrators of higher, vocational pre-university and vocational education institutions in the ARVET include the number of activities proposed, the frequency of meetings. These indicators will be monitored to assess the impact and participation of the ARPVE in facilitating knowledge transfer, promoting research cooperation, improving policy dialogue and strengthening the vocational education ecosystem.

5.2. INSTITUTIONAL LEVEL PROJECT RESULTS

5.2.1 THE CONCEPT OF DEVELOPING A SYSTEM FOR TRAINING TEACHERS OF VOCATIONAL EDUCATION AND TRAINING AT NATIONAL TRANSPORT UNIVERSITY ON THE BASIS OF PARTNERSHIP

Implementation of institutional changes in the training of future vocational teachers at NTU required the development of an appropriate institutional document. This document was the Concept for the Development of the System of Vocational Education and Training Teachers' Training at National Transport University on the Basis of Partnership. The Concept was approved by the decision of the Academic Council of the Faculty of Economics and Law of National Transport University (Minutes No. 1 of 30 August 2021).

The concept of development of the system of training teachers of vocational education and training at the National Transport University on the basis of partnership was developed in the framework of the Erasmus + project: KA2 CBHE "New management mechanisms based on partnership and standardization of training of teachers of vocational education in Ukraine" - 1-DE-EPPKA2-CBHE-SP) considering the regulations of:

- 1) The laws of Ukraine: "On education"; "On higher education"; "On public-private partnership", "On vocational (vocational technical) education"; "On vocationaldevelopment of the employees";
- 2) normative legal acts of Ukraine: Order of the Ministry of Education and Science of Ukraine "On approval of the Regulations on the dual form of vocational (vocational-technical) education" № 1551 of 12.12.2019; Order of the Ministry of Education and Science of Ukraine On approval of the concept of development of pedagogical education. Order of the Ministry of Education and Science of Ukraine № 776 dated July 16, 2018; Order of the Ministry of Education and Science of Ukraine "On approval of the standard of higher education in the specialty 015" Vocational education (by specialization) for the first (bachelor's) level of higher education "№1460 from 21.11.2019; Order of the Ministry of Education and Science of Ukraine "On approval of the standard of higher education in the specialty 015" Professional education (by specialization) for the second (master's) level of higher education "№1435 from 11.18.2019; Order of the Cabinet of Ministers of Ukraine "On approval of the Concept of implementation of state policy in the field of vocational (vocational-technical)





education" Modern vocational (vocational-technical) education "for the period up to 2027" № 419-r of June 12, 2019

3) internal status of NTU: Development Strategy of the National Transport University for 2019-2025; Internationalization Strategy of the National Transport University; Regulations on the implementation of projects of EU international cooperation programs and grant management at the National Transport University; Regulations on the organization of the educational process at the National Transport University; Regulations on the system of internal quality assurance of higher education (new edition); Regulations on stakeholders of educational programs of the National Transport University; Regulations on postgraduate education at NTU; Regulations on professional development of specialists; Temporary provision on the procedure for recognition of learning outcomes acquired by students of the National Transport University in non-formal / informal education; Regulations on the practice of NTU students.

The purpose of the Concept: to create conditions for improving the quality and relevance of training of teachers of vocational education and training at NTU on the basis of partnership development.

Target groups: academic personnel of NTU involved in the training of future vocational teachers; deans of faculties of departments involved in the training of future vocational teachers; guarantors of educational programmes at the bachelor's and master's levels; stakeholders.

A mechanism for developing the system of training teachers of vocational education and training at NTU on the basis of partnership has been developed.

The Concept defines the target groups, forms and directions of partnership, organisational, material and technical, and personnel support of the mechanism for developing the system of training of VET teachers at NTU on the basis of partnership, ensuring communication with stakeholders, and the expected impact of cooperation with stakeholders on the quality of training future VET teachers at NTU.

5.2.2 COMMITTEE TO SUPPORT THE QUALITY ASSURANCE AND DEVELOPMENT OF VOCATIONAL EDUCATION AND TRAINING TEACHERS

To implement the mechanism for the development of the system of vocational teacher education and training, an institutional structure was created at NTU on the basis of partnership - the Committee for Supporting Quality Assurance and Development of Vocational Teacher Education and Training.

The Committee is an advisory body and does not have the status of a legal entity. The Committee's activities are carried out on a voluntary basis.

In its activities, the Committee is guided by the Constitution of Ukraine, international treaties ratified by the Verkhovna Rada of Ukraine, the Laws of Ukraine "On Education", "On Higher Education", other regulatory legal acts of Ukraine, the University Charter, and internal regulations governing the activities of NTU. The Committee's activities are transparent and all stakeholders are informed.

The main tasks of the Committee are:





Promoting the improvement of educational programmes and curricula for bachelors and masters in the speciality 015 "Vocational Education (Transport)" with the involvement of representatives of vocational education institutions in accordance with the identified needs;

Providing proposals for improving the programme competences, content, forms and methods of training of higher education students in the educational programme "Vocational Education (Transport)";

Joint development and examination of educational programmes of the first (bachelor's) and second (master's) levels;

Coordination of the activities of the departments to improve the content of theoretical, practical, research training (for masters) of future teachers of vocational education and training;

Establishing partnerships with vocational education institutions, industrial structures for the organisation of practice, internships for future teachers of vocational education and training;

Joint organisation of educational, industrial and pedagogical practice of higher education students majoring in 015 "Vocational Education (Transport)";

Involvement of higher education students in research and teaching activities at the bases of the Committee members.

6. RESPONSIBLE PARTIES FOR IMPLEMENTING THE SDP AND HUMAN RESOURCES

- Committee for Quality Assurance and Professional Education Development Support (systematic review of proposals for updating educational and professional programs at the bachelor's and master's levels, content and organization of internships, engagement of stakeholders in collaborative discussions on current issues related to enhancing the quality of future vocational education instructors at NTU, development of new forms of partnership interactions with stakeholders).
- Departments responsible for the specialty 015 «Vocational Education» (tracking labour market needs, regular updates of topics in graduation qualification papers, refreshing the content of educational components, organizing industrial internships with elements of dual education, arranging pedagogical training at professional and vocational education institutions, collaboration with institutions of professional and vocational education, monitoring the professional development of academic personnel, career guidance efforts).
- Guarantors of educational and professional programs for the specialty 015 «Vocational Education (Transport)» at the bachelor's and master's levels (monitoring labour market demands, making proposals for updating the list of competencies and educational components, studying the experience of collaborative interactions with stakeholders in other educational institutions)

Heads of departments responsible for the educational process in the educational program 015 "Vocational Education (Transport)" at the bachelor's and master's levels (selection of highly qualified academic personnel to ensure the teaching of program disciplines, participation in





the work of the Committee for Quality Assurance and Professional Education Development Support).

7. THE MAIN STRATEGIC DIRECTIONS FOR SDP IMPLEMENTATION

- 1. The Work of the Committee for Quality Assurance and Development of teacher education in professional education and training as an institutional structure of NTU.
- 2. Collaboration with internal stakeholders.
- 3. Collaboration with external stakeholders.
- 4. Systematic review and update of educational and professional programs for bachelor's and master's levels in the field of 015 "Vocational Education (Transport)".
- 5. Professional orientation among school graduates and institutions of professional (vocational-technical) and specialized postgraduate education.
- 6. Regional impact through collaboration with educational institutions and interested organisations.
- 7. Promotion and dissemination of project achievements.
- 8. Exploring new approaches to implementing and applying project achievements and results.

8. GENERAL INFORMATION ABOUT FINANCIAL RESOURCES/EXPENSES AND FUNDING STRATEGY/STRATEGY SEEKING ADDITIONAL FUNDS

- 1. Search for opportunities to provide paid educational services after the project is completed.
- 2. Interaction within the project consortium.
- 3. Self-financing of activities through the university's resources.
- 4. Involvement of public organisations and volunteers to disseminate information about the project's results.
- 5. Provision of paid educational services for the professional development of teaching personnel.
- 6. Participation in consortia and associations to save resources and attract external resources.





ANNEX 1. MAIN COMPONENTS OF THE SUSTAINABLE DEVELOPMENT PLAN (SDP)/ LIST OF KEY ACTIONS

Nº	Name of Activity	Expected result	Department/ personnel involved	Validity (beginning – ending)	Additional resources (finances, equipment, etc.)	Indicators and metrics of importance	Risks
				INSTITUTION LEVEL			
1	Collaboration between NTU and vocational (vocational-technical) and specialized advanced education institutions for the purpose of enhancing the qualifications of vocational education instructors and training within the framework of existing and new partnership	Professional development courses for educational personnel	Center for professional development, retraining, and improvement of managers and specialists at NTU	January, 2022 to December, 2028 (referring to the period of receiving orders for professional development services)	Auditoriums, modern technical laboratories, a pedagogical mastery laboratory, a multimedia language lab, equipment, NTU (or the customer's facilities and equipment for off- site events), teaching personnel, and	 Modules for the professional development of vocational education instructors offered by the university; Agreements made for professional development with vocational (vocational-technical) education institutions and individuals; The number of conducted sessions (credits per year) 	Threat of military actions intensification in Kyiv and Kyiv region Destruction of NTU's material and technical facilities due to enemy military attack
2	agreements Collaboration between NTU and vocational (vocational-technical) and professional advanced education institutions regarding student internships	Completing industrial and pedagogical internships in vocational (vocational-technical) and professional advanced education institutions	The Department of Philosophy and Pedagogy and other departments at NTU that are graduating for the specialty 015 «Vocational Education»	January, 2022 to December, 2028 (according to the academic schedule)	payment from NTU Premises, equipment of partner institutions of vocational (vocational- technical) or professional advanced education, teaching personnel, and payment from NTU	The number of students undergoing internships in vocational (vocational-technical) or professional advanced education institutions	Threat of intensification of military actions in Kyiv and the Kyiv region; Implementation of antiepidemic measures due to the emergence of new strains of the coronavirus



	Т .	I					
3	Updating and	"Educational and	 Department of 	January, 2022 to	Auditoriums,	Number of updated	Threat of military
	improving the	professional programs	Philosophy and	December, 2028	modern technical	competencies and learning	actions intensification in
	educational and	of the specialty 015	Pedagogy at NTU,	(annually)	laboratories,	outcomes;	Kyiv and Kyiv region
	professional programs	«Vocational Education	 Committee for the 		pedagogical	Number of updated and	Destruction of NTU's
	of the specialty 015	(Transport)» at the	support of quality		mastery laboratory,	improved educational	material and technical
	«Vocational Education	bachelor's and master's	assurance and		multimedia	components;	facilities due to enemy
	(Transport)» and the	levels, which take into	development of the		language lab, NTU	Number of updated modules	military attack
	educational	account the modern	training of vocational		equipment,	in educational components;	
	components of	requirements of	education and		teaching personnel,	Percentage of curriculum	
	bachelor's and master's	Professional Education	training educators,		and payment from	content update	
	levels	Standards;	 Departments 		NTU		
		Accreditation of	responsible for the				
		educational and	educational process				
		professional programs	of preparing future				
		of the specialty 015	vocational education				
		«Vocational Education	instructors				
		(Transport)» at the					
		bachelor's and master's					
		levels					
4	Conducting educational	Professional	Center for	January, 2022 to	Auditoriums,	• Modules for the professional	Threat of military
	seminars and training	development of	professional	December, 2028	modern technical	development of vocational	actions intensification in
	sessions, roundtable	university's academic	development,	(according to the	laboratories,	education instructors offered	Kyiv and Kyiv region
	discussions for	and teaching	retraining, and	professional	pedagogical	by the university;	Destruction of NTU's
	university academic and	personnel	improvement of	development	mastery laboratory,	 Agreements made for 	material and technical
	teaching personnel		managers and	schedule during	multimedia	professional development with	facilities due to enemy
			specialists at NTU	the periods:	language lab, NTU	vocational (vocational-	military attack
				March-May;	equipment,	technical) education	
				October-	teaching personnel,	institutions and individuals;	
				November)	and payment from	• The number of conducted	
				,	NTU	sessions (credits per year)	





			<u> </u>				
5.	Research of the	Satisfaction of	 Department of 	January, 2022 to	Auditoriums,	 Percentage of satisfied 	Threat of military
	effectiveness of	education seekers,	Philosophy and	December, 2028	modern technical	individuals among surveyed	actions intensification
	updated educational	graduates, employers,	Pedagogy at NTU,	(annual surveys of	laboratories,	education seekers, graduates,	in Kyiv
	components and	and individuals who	 Committee for 	education seekers,	pedagogical	employers, and those who	and Kyiv region
	educational and	have undergone	Supporting Quality	graduates,	mastery laboratory,	have undergone professional	
	professional programs	professional	Assurance and	employers)	multimedia	development.	
	of the specialty 015	development	Development of the	(October-	language lab, NTU	Percentage of updated	
	«Vocational Education		Training of Vocational	November)	equipment,	topics in qualification works	
	(Transport)» and the		Education and		teaching personnel,	Accreditation of educational	
	educational		Training Educators,		and payment from	and professional programs of	
	components at the		 Center for 		NTU	the specialty 015 «Vocational	
	bachelor's and master's		Professional			Education (Transport)» at the	
	levels		Development,			bachelor's and master's levels	
			Retraining, and				
			Improvement of				
			Managers and				
			Specialists at NTU				
6.	Involving academic and	"Presentations and	Departments that	January, 2022 to	Auditoriums,	- Number of presentations at	Threat of military
	teaching personnel as	publications of	facilitate the	December, 2028	modern technical	conferences (including the	actions intensification in
	well as education	academic and	educational process	(in accordance	laboratories,	annual scientific conference of	Kyiv and Kyiv region
	seekers in participating	teaching personnel as	for the training of	with the	pedagogical	the teaching personnel, graduate	Destruction of NTU's
	in NTU's scientific	well as education	future vocational	completion of an	mastery laboratory,	students, students, and	material and technical
	events	seekers in the field of	education teachers	individual annual	multimedia	university personnel from	facilities due to enemy
		specialty 015		plan for the	language lab, NTU	separate structural units);	military attack
		«Vocational		teacher)	equipment,	- Number of presentations at	
		Education			teaching personnel,	national conferences;	
		(Transport)»			and payment from	- Number of presentations at	
					NTU	international conferences;	
						- Number of scientific	
						publications in specialized	
						publications based on the	
						experience gained at NTU	



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	Τ			REGIONAL LEVEL	T .		
1	The cooperation	Professional	Center for	January 2022 to	Auditoriums,	• The number of agreements	Threat of military
	between NTU and	development courses	professional	December 2028	modern technical	concluded between NTU and	actions intensification in
	professional (vocational-	for educational	development,	(in accordance	laboratories, a	regional professional	Kyiv and Kyiv region
	technical) and advanced	personnel	retraining, and	with the receipt of	pedagogical mastery	(vocational-technical)	Destruction of NTU's
	vocational education		improvement of	orders for	laboratory, a	education institutions.	material and technical
	institutions for the		managers and	professional	multimedia language	 The number of individuals 	facilities due to enemy
	purpose of enhancing		specialists at NTU	development	lab, equipment, NTU	from the region's professional	military attack
	the qualifications of			services)	(or the customer's	(vocational-technical)	
	professional education				facilities and	education institutions who	
	instructors and training				equipment for off-	have undergone professional	
	within the framework of				site events), teaching	development at NTU or at the	
	existing and new				personnel, and	invitation of NTU	
	partnership agreements				payment from NTU		
2	Collaboration between	Completing	The Department of	January 2022 to	Auditoriums, modern	The number of regional	Threat of military
	NTU and professional	internships in	Philosophy and	December 2028	technical	professional (vocational-	actions intensification
	(vocational-technical)	professional	Pedagogy, as well as	(in accordance	laboratories, a	technical) and specialized	in Kyiv and Kyiv
	and specialized	(vocational-technical)	other departments at	with the academic	pedagogical mastery	advanced education	region
	advanced education	or specialized	NTU that are the	schedule)	laboratory, a	institutions with which NTU	Implementation of
	institutions regarding	advanced education	graduating		multimedia language	has entered into agreements	anti- epidemic
	student internships	institutions.	departments for the		lab, equipment, NTU	for student internships.	measures due to the
	·		specialty 015		(or the customer's	• The number of NTU students	emergence of new
			"Vocational		facilities and	who have completed their	strains of the
			Education"		equipment for off-	educational internships in	coronavirus.
					site events), teaching	regional professional	Destruction of NTU's
					personnel, and	(vocational-technical) or	material and technical
					payment from NTU	specialized advanced	facilities due to enemy
					. ,	education institutions	military attack
3.	Conducting educational	Professional	Center for	January 2022 to	Auditoriums,	The number of sessions	Threat of military
	seminars and training	development courses	professional	December 2028	modern technical	(credits per year) for	actions intensification in
	sessions for	for educational	development,	(in accordance	laboratories, a	professionals from regional	Kyiv and Kyiv region
	professionals from	personnel	retraining, and	with the receipt of	pedagogical mastery	professional (vocational-	Destruction of NTU's
	regional professional		improvement of	orders for	laboratory, a	technical) and/or specialized	material and technical





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	(vocational-technical)		managers and	professional	multimedia language	advanced education	facilities due to enemy
	and specialized		specialists at NTU	development	lab, equipment, NTU	institutions.	military attack
	advanced education			services)	(or the customer's	The number of individuals	
	institutions				facilities and	from regional professional	
					equipment for off-	(vocational-technical) and/or	
					site events), teaching	specialized advanced	
					personnel, and	education institutions who	
					payment from NTU	have undergone training	
4.	Scientific work and	Publications in	The departments	January 2022 to	Auditoriums,	The number of publications	Threat of military
	collaboration	collaboration with	responsible for	December 2028	modern technical	from stakeholders.	actions intensification in
		stakeholders	facilitating the		laboratories, a	The number of authors of	Kyiv and Kyiv region
			educational process		pedagogical mastery	these publications	Destruction of NTU's
			in the preparation of		laboratory, a		material and technical
			future teachers in		multimedia		facilities due to enemy
			professional		language lab,		military attack
			education		equipment, teaching		
					personnel, and		
					payment from NTU		
5.	Graduate employment	Personnel provision	Department of	January 2022 to	Website of NTU,	The number of job fairs	Threat of military
		for regional	Philosophy and	December 2028	social media, online	attended by education	actions intensification
		professional	Pedagogy, as well as		platform	seekers.	in Kyiv and Kyiv
		(vocational-technical)	other NTU	Measures	"Partnership Space	The number of university	region.
		and/or specialized	departments that	conducted by	015," information	graduates (by year) who were	Reduction in the
		advanced education	serve as graduating	local government	from employment	employed in regional	number of
		institutions.	departments for the	administrations to	services, and job	professional (vocational-	professional
		Dissemination and	specialty 015	provide	vacancies	technical) education	(vocational-
		updating of	"Vocational	information about	announcements	institutions	technical) education
		information on the	Education"	employment	from institutions		institutions.
		online platform	Department of Higher	opportunities (job			Insufficient rating of
		"Partnership Space	Education Quality	fairs)			professional (vocational-
		015"	Assurance (Providing				technical) and
			advisory assistance to				specialized advanced
			higher education				education institutions
			graduates regarding				



specialty 015 "Vocational Education (Transport)." Availability of information about admission rules and the list of educational-professional professional (vocational-technical) and/or specialized advanced education institutions outside the region Pedagogy, as well as other NTU departments that sorve as graduating departments for the specialty 015 "Vocational Education" on the NTU website NATIONAL LEVEL 1. Graduate employment (Providing personnel for professional (vocational-technical) and/or specialized advanced education institutions outside the region Pedagogy, as well as other NTU departments for the specialty 015 "Vocational Education" on the NTU website NATIONAL LEVEL 1. Graduate employment (Providing personnel for professional (vocational-technical) and/or specialized advanced education institutions outside the region Pedagogy, as well as other NTU departments that sorve as graduating departments to the special volume to special volume to the professional (vocational-technical) education institutions outside the region NTU September- December) Reduction in NTU's and kyiv region Destruction of NTU's material and technical facilities due to enemy military attack NATIONAL LEVEL 1. Graduate employment (Quality Assurance (Providing personnel for professional (vocational-technical) and/or specialized advanced education institutions outside the region Providing personnel for professional (vocational-technical) education institutions outside the region Providing personnel for professional (vocational-technical) education institutions outside the region Providing personnel for professional (vocational-technical) education institutions in professional (vocational-technical) education institutions in the number of professional (vocational-technical) education institutions outside the region Providing personnel for professional vocational technical professional vocational-technical) education institutions institutions institutions in the professional vocational technical professional vocational-technic								
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2. Promoting the profession of vocational education seekers in the specialty 015 Vocational Education" 3. Promotion of professional (vocational-technical) and specialized advanced education institutions Growth in demand specialty 015 and special			T	I				T
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Vocational Education (Transport) Vocational Education (Transport) Gepartments for the specialty 015 "Professional Education" Professional Education" Professional Education" Poctober-December - February-April Professional (vocational-technical)			seekers in the	departments that	annual schedule		for professional (vocational-	number of
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Professional Education"			Vocational Education	departments for the	Open Days at		institutions.	(vocational-technical)
3. Promotion of professional (vocational-technical) and specialized advanced education institutions Growth in demand Specialty One Control of institutions Growth in demand Specialty O15 Following the professional control of the internet dedicated to professional the internet dedicated to professional checknical on the internet dedicated to professional education institutions on the internet dedicated to professional education institution institutions on the internet dedicated to professional education institutions on the dissemination of project results and professional (vocational-technical) and professional education institutions on			(Transport)	specialty 015	NTU:		Participation of NTU in	education institutions.
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- February-April - Fubrality sequents, personnel, and equipment, personnel, and professional (vocational-technical) education institutions. - Insufficient rating of professional (vocational-technical) education institutions. - Insufficient rating of professional (vocational-technical) education institutions. - February-April - Fe				Education"	- October-		The number of publications on	employment in
3. Promotion of professional (vocational-technical) and specialized advanced education advanced education advanced education Growth in demand					December		the internet dedicated to	professional (vocational-
3. Promotion of professional (vocational-technical) and specialized advanced education and specialized advanced education institutions Growth in demand speciality 015 A promotion of professional (vocational-technical) and specialized advanced education institutions and speciality 015 A promotion of professional (increase in the number of applicants to professional professional (institution of professional professional professional (institution of professional professional professional professional (institution of professional professio					- February-April		professional education issues,	technical) education
3. Promotion of professional (vocational-technical) and specialized advanced education advanced education institutions Growth in demand growth of professional (specialized advanced education for professional entity in the professional (specialized advanced education for professional entity in the professional (specialized advanced education institutions and specialized advanced education institutions and professional (vocational-technical) employee and professional (vocational-technical) e							NTU's experience, and the	institutions
3. Promotion of professional (vocational-technical) and specialized advanced education institutions Growth in demand growth and specialized and specialized advanced education for professional (specialized advanced education for professional for profess							dissemination of project	
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and specialized advanced education and specialized advanced education issued advanced education issued advanced education institutions and specialized advanced education institutions advanced education institutions and specialized annual schedule of compensation institutions and semination of project professional (vocational-technical) education issues with education seekers, the dissemination of project professional (vocational-technical) education institutions. Insufficient rating of professional institutions and seminaris institutions.		professional	number of applicants	Philosophy and	January 2022 to	equipment,	and presentations on	number of professional
advanced education and specialized advanced education serve as graduating institutions Growth in demand specialty 015 advanced education advanced education serve as graduating departments for the specialty 015 annual schedule of compensation of conducting Open Days at NTU: with education seekers, the dissemination of project professional (vocational technical) education roundtables, and seminars.		(vocational-technical)	to professional	Pedagogy, as well as	December 2028	personnel, and	professional (vocational-	(vocational-technical)
advanced education serve as graduating institutions departments for the Growth in demand specialty 015 of conducting Open Days at Open Days at Specialty 015 of conducting Open Days at Open Days at Specialty 015 of conducting Open Days at Open Da		and specialized	(vocational-technical)	other NTU	Following the	employee	technical) education issues	education institutions.
institutions departments for the Growth in demand specialty 015 Open Days at NTU: results at conferences, roundtables, and seminars. institutions		advanced education	and specialized	departments that	annual schedule	compensation	with education seekers, the	Insufficient rating of
Growth in demand specialty 015 NTU: roundtables, and seminars. institutions			advanced education	serve as graduating	of conducting		dissemination of project	professional (vocational-
			institutions	departments for the	Open Days at		results at conferences,	technical) education
			Growth in demand	specialty 015	NTU:		roundtables, and seminars.	institutions
for instructors in "Professional - October- Dissemination of information			for instructors in	"Professional	- October-		Dissemination of information	
professional Education" December on the NTU website.			professional	Education"	December		on the NTU website.	
(vocational-technical) - February-April Dissemination of information			(vocational-technical)		- February-April		Dissemination of information	



		and specialized advanced education institutions				on the PAGOSTE NTU project website. Dissemination of information about project results on the internet	
4.	The functioning of the "Partnership Space 015" platform	Creating a professional communicative educational environment for professional (vocational-technical) and specialized advanced education institutions, educational staff, education seekers, and employers	Committee for Quality Assurance and Development of Professional Education and Training Instructor Preparation. The Department of Philosophy and Pedagogy, as well as other NTU departments that serve as graduating departments for the specialty 015 "Vocational Education"	January 2022 to December 2028 (No more than 1 publication per month)	NTU's facilities and equipment, personnel, and employee compensation	The number of unique users. Traffic volume. The number of publications posted by NTU employees on the platform	Reduction in the number of professional (vocational-technical) education institutions. Insufficient rating of professional (vocational-technical) education institutions
6.	Collaboration with professional public organizations	Engaging external stakeholders in collaboration with NTU to ensure the preparation of future instructors in professional education	Administrative personnel The Department of Philosophy and Pedagogy, as well as other NTU departments that serve as graduating departments for the specialty 015 "Vocational Education"	January 2022 to December 2028 (with in the framework of the Committee for Quality Assurance and Development of professional education and Training teacher preparation	Administrative personnel, teaching personnel, and compensation from NTU	The number of agreements with civil organizations The number of events conducted with the participation of representatives from civil professional organizations	Threat of military actions intensification in Kyivand Kyiv region



			FINA	ANCIAL STABILITY SUF	PPORT		
1	Self-financing of	Formation of the	The Department of	January 2022 -	NTU's facilities and	The number of Open Days.	Threat of military
	activities through the	student population	Philosophy and	December 2028	equipment,	The number of career	actions intensification in
	expansion of the	for the specialty 015	Pedagogy, as well as	1. Open House	personnel, and	guidance events.	Kyivand Kyiv region
	student population	"Vocational Education	other NTU	Days (according to	employee	The number of participants in	Destruction of NTU's
	studying under contract	(Transport)" using	departments that	the approved	compensation	the Annual Scientific	material and
	terms	funds from individuals	serve as graduating	schedule:		Conferences of the university's	technicalfacilities due
		and legal entities	departments for the	October-		faculty, graduate students,	to enemymilitary attack
			specialty 015	December;		students, and employees of	
			"Vocational	February-April)		separate structural units.	
			Education	2. Career		The number of publications	
				guidance events		dedicated to the achieved	
				of NTU		results of NTU's project	
				departments			
				graduating			
				students with a			
				major in 015			
				"Professional			
				Education."			
				3. Annual scientific			
				conferences for			
				the university's			
				faculty, graduate			
				students,			
				students, and			
				employees of			
l				separate			
				university			
				structural units.			
				4. Publications in			
				NTU's scientific			
				journals			





2	Self-financing through	Formation of the	Center for	January 2022 -	Premises and	The number of reviews of	Threat of military
	the provision of	student contingent	professional	December 2028	equipment at NTU	NTU's achievements resulting	actions intensification in
	professional	for the specialty 015	development,	(in accordance	(or the customer's	from participation in the	Kyiv and Kyiv region
	development services	"Vocational Education	retraining, and	with the receipt of	premises in the case	PAGOSTE project	Destruction of NTU's
		(Transport)"	improvement of	orders for	of off-site events),		material and technical
			managers and	professional	as well as the		facilities due to enemy
			specialists at NTU	development	teaching staff and		military attack
				services)	their compensation		
				Promotion of	provided by NTU		
				project results			



ANNEX 2. TABLE OF RISKS AND METHODS OF MITIGATION

Name, description	Indicators	Target group	Tools	Frequency of updates, dissemination	Risks (level)	Methods to eliminate/mitigate impact
Methodological recommendations for the introduction of partnership-based management mechanisms and standardisation in the training of VET teachers in Ukraine	Number of disseminations of information on the implementation of the Guidelines	Teachers and administration of VET institutions, research and teaching staff and administration of NTU, teachers and administration, teachers of Ukrainian higher education institutions	NTU website, NTU PAGOSTE project website, social media, conferences, seminars, webinars, roundtables, etc.	At a minimum of two events per year	Impossibility of holding events in person due to logistical disruptions and threats to the lives and health of participants due to the war (high)	Holding events in an online format
Web platform "Partner Space 015"	1) Number of users (teachers, students, university administration; students, teachers, administration of vocational schools in the region) 2) Number of publications per year, not less than 12	Teachers and management of VET institutions, students, research and teaching staff and administration of NTU	Website, social media, conferences, seminars, webinars, round tables, etc.	1) Not specified 2) Within 5 years	1) Low level of motivation of target audience representatives to join the platform (medium)	1) Conducting information campaigns aimed at popularising the platform 2) Use of platform tools to organise student internships and graduate employment
Association for the Development of Professional and Continuing Education	Number of disseminations of information about the Association's activities	Teachers and management of VET institutions, students, researchers and	Dissemination of information through the website, social networks,	Not specified	Impossibility of holding events in person due to logistical disruptions and threats to the lives and health of participants	Participation in online events Conducting information campaigns aimed at popularising the





		administration of NTU	conferences, seminars, webinars, round tables, etc.		due to the war (high) 2) Low level of motivation of the target audience (medium)	Association for the Development of Professional and Continuing Education
Professional standard of the profession 3340 "Vocational teacher"	1) Development and updating of the EPP 2) Number of disseminations of information	Teachers and management of VET institutions, students, research and teaching staff and administration of NTU	It is obligatory. Information campaign on its application	1) Not specified 2) At least once a year	1) Delay in the development and updating of the EPP (low) 2) Impossibility to hold events in person due to logistical disruptions and threats to the life and health of participants due to the war (high)	1). Use of a system of disciplinary influence on the developers of the APP; 2) Holding events in an online format
Committee to support quality assurance and development of vocational teacher education and training.	1) Number of meetings with the involvement of stakeholders 2) Percentage of improvement in semester grades of students majoring in 015 "Vocational Education (Transport)"	Teachers and management of VET institutions, students, research and teaching staff, and NTU administration	It is obligatory. Improvement of the educational process	1) At least 2 per year 2) Every semester	1) Difficulties for stakeholders to participate in the Committee meetings in person (medium) 2) Insurmountable difficulties in studying due to the threat of military operations in the region (medium)	Holding meetings with stakeholders in a mixed or remote format Conducting classes in a mixed or remote format
Tools for determining the current state of partnership at the University and assessing the strategic competences required for establishing partnerships	· · ·	Teachers and management of VET institutions, students, research and teaching staff and NTU administration	Conducting a survey directly during classes with students, using distance learning technologies, posting questionnaires on the website, social networks	1) At least once a year for at least 5 years	Low number (in per cent) of survey participants (medium)	Holding information sessions on the importance of the survey results for improving the educational process and further cooperation with stakeholders





ANNEX 3. STRUCTURING AND DEFINING PBG STRATEGIES

Name of the leadin institu on	the leading institutions	Responsible persons in the leading institutio (name, position	Name of the cooperating institutions	Location of the cooperating institution (concrete address)	Responsible persons in the cooperating institutions (name, position)	Date of signing the agreem ent	Durati on of the cooper ation	Names of the persons who have concluded the contract	Comments to the agreement	Fields of cooperations (concrete description – f.e.: internship for students in the field of mechanics)	Advantages of the cooperation for the partners involved (keyword-like, clear listing)
Nationa Transpo Univers	rt Omelianovyc	Mykola DMYTRYCHENKO Acting Rector	Educational- scientific center of vocational- technical education National academy of pedagogical sciences of Ukraine	98-A Stolychne shose, Kyiv 03045, Ukraine	Dmytro HOMENIUK , Director	04 April 2023	unlimit ed	2. Dmytro HOMENIUK, Director	expert work. 2. Provision of scientific and methodical support of the educational process. 3. Implementation of work results in practice. 4. Increasing the professional development of teachers. 5.		KW: Pedagogical practice, improvement of the educational process, professional development, publications Expanding the bases of pedagogical practice, involvement in the improvement of the educational process of training future teachers of professional education, professional development, the possibility of publications in specialized publications of the NTU



KW: Pedagogical practice, improvement of the educational process, professional development, implementation of the results of
improvement of the educational process, professional development, implementation of
the educational process, professional development, implementation of
process, professional development, implementation of
professional development, implementation of
development, implementation of
implementation of
implementation of
scientific research
Expanding the
bases of
pedagogical
practice,
improving the
educational
process of training
future teachers of
professional
education,
improving
qualifications, the
possibility of
implementing the
results of scientific
research in the
field of
professional
education





National Transpo rt Universi ty	1 Mykhaila Omelianovyc ha-Pavlenka Street, Kyiv 01010, Ukraine	Mykola DMYTRYCHENKO Acting Rector	State Educational Institution "Kyiv Centre for Vocational Education"	24 Chistyako vska Street, Kyiv 03062, Ukraine	Mariia DZYZYL, Acting Director	31 March 2023	unlimit	S	expert work. 2.	vocational training. 3. Conducting joint	educational process, professional development, implementation of the results of scientific research Expanding the bases of pedagogical practice, improving the educational process of training future teachers of professional education, improving qualifications, the possibility of implementing the results of scientific research in the field of professional
National Transpo rt Universi ty	1 Mykhaila Omelianovyc ha-Pavlenka Street, Kyiv 01010, Ukraine	Mykola DMYTRYCHENKC Acting Rector	Institute of Vocational Education of the National Academy of Educational Sciences of Ukraine	98-A Vito- Lytovskyi lane, Kyiv 03045, Ukraine	Valentyna RADKEVYC H, Director	03 April 2023	5 year		1. Ensuring the organization of internal academic mobility of students studying at the second and third levels of higher education; 2. Ensuring the organization of internal academic mobility of pedagogical,	of participants in the educational process in institutions of higher education.	education KW: Academic mobility of students, academic mobility of pedagogical, research- pedagogical and other workers The possibility of academic mobility of students studying at the second and third

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											of the El	uropean Union_
										research-		levels of higher
										pedagogical,		education;
										scientific and		Ensuring the
										other employees		organization of
										of higher		internal academic
										education		mobility of
										institutions.		pedagogical,
												research-
												pedagogical,
												scientific and other
												employees of
												higher education
												institutions.
	lational	1 Mykhaila	Mykola	The Institute	98-A Vito-	Valentyna	03 April	unlimit		1. Ensuring	1. Involvement in	KW: measures for
T	ranspo	Omelianovyc	DMYTRYCHENKO	of	Lytovskyi	RADKEVYC	2023	ed	DMYTRYCHENKO		improving the	institutions in the
	t	ha-Pavlenka	Acting Rector	Vocational	lane, Kyiv	H, Director				development.	educational	field of professional
	Jniversi	Street, Kyiv		Education of	03045,				2. Valentyna	Increasing	process 2. Joint	education,
t	У	01010,		the National	Ukraine					competitiveness.	scientific and	implementation of
		Ukraine		Academy of					Director	2.	scientific-practical	the results of
				Educational						Implementation	events for	scientific research,
				Sciences of						of innovative	representatives of	improvement of
				Ukraine						educational	the field of	the educational
										activities at the	professional	process,
										levels: all-	(vocational-	publications The
										Ukrainian,	technical)	possibility of
										regional,	education. 3.	implementing the
										subordinate	Implementation of	results of scientific
										institution of the	the results of	research in the field
										National	scientific research	of professional
										Academy of		education,
										Sciences of		improving the
										Ukraine. 3.		educational
										Scientific and		process of training
										methodological		future teachers of
										support of the		professional
										educational		education,
										process. 4.		conducting joint
										Implementation		scientific and
										of research		scientific-practical
										results in		events
										practice.	<u> </u>	

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National Transpo rt Universi ty	1 Mykhaila Omelianovyc ha-Pavlenka Street, Kyiv 01010, Ukraine	Mykola DMYTRYCHENKO Acting Rector	Kyiv Professional Lyceum of Transport	1-B Mashynis tivska Street, Kyiv 02092, Ukraine	Maksym CHUMAK, Director	05 April 2023	unlimit ed	DMYTRYCHENKO Acting Rector 2. Maksym CHUMAK, Director	expert work. 2. Provision of scientific and methodical support of the educational process. 3. Implementation of work results in practice. 4. Increasing the professional	1. Pedagogical practice 2. Improvement of the qualifications of teachers of VET institutions 3. Dissemination of information about institutions with the aim of forming the contingent of NTU and the teaching staff of the Kyiv Vocational Lyceum of Transport	educational process, professional development, implementation of the results of scientific research Expanding the bases of pedagogical
National Transpo rt Universi ty	1 Mykhaila Omelianovyc ha-Pavlenka Street, Kyiv 01010, Ukraine	Mykola DMYTRYCHENKO Acting Rector	Kyiv Vocational College with enhanced military and physical training	56 Taras Shevchen ko avenue, Kyiv 01032, Ukraine	Vasyl PETROVYCH , Director	-	unlimit ed	DMYTRYCHENKO Acting Rector 2. Vasyl PETROVYCH, Director	sustainable development. Increasing competitiveness. 2.	1. Pedagogical practice 2. Improving the qualifications of teachers of VET institutions 3. Dissemination of information about institutions with the aim of forming a contingent of NTU and the teaching staff of the Kyiv	KW: Pedagogical





National	1 Mykhaila	Mykola	National	64	Viktor	15 June	5 year			with enhanced military and physical training	pedagogical practice, improving the educational process of training future teachers of professional education, improving qualifications, the possibility of implementing the results of scientific research in the field of professional education KW: Academic
Transpo rt Universi ty	Omelianovyc ha-Pavlenka Street, Kyiv 01010,	DMYTRYCHENKO Acting Rector	University "Zaporizhzhi a Polytechnic"	Zhukovsk y Street, Zaporozh ye 69063,	GRESHTA, Rector	2023	3 yeur	DMYTRYCHENKO Acting Rector 2. Viktor GRESHTA, Rector	favorable conditions for the most effective use of available	qualifications of teachers. 2. Internal academic mobility of students at	mobility of students, academic mobility of pedagogical,
	Ukraine			Ukraine					potential. 2. Joint participation in research and	training. 3. Internal academic mobility of	
									works, experimental studies,		development Internal academic mobility of students, Internal
									educational programs, to	,	
									present the results of joint research and development	conferences. 6. Mutual recognition and crediting of	personnel; Improving the qualifications of
									publications. 3. Organization of	student learning outcomes. 7. Joint modernization of educational	teachers.





scientific and programs practical seminars, conferences, 4, loint publishing activities, exchange of own publications, 5. Promotion of professional development of pedagogical and scientific workers, 6. Creation of joint creative working groups to solve complex issues, 7. Contribute to the training of scientific personnel, 8. To develop mechanisms for increasing the academic mediality of students of sudentific personnel, 8. To develop mechanisms for increasing the academic mobility of students of sudentific personnel services of sudentification and crediting of students learning results.							
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students' learning					crediting of		
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			 	 	 results.		





National	1 Mykhaila	Mykola	Odesa	34	Serhii	15	5 year	1. Mykola	1. Creation of	1. Joint participation	KW: Joint scientific
	Omelianovyc	DMYTRYCHENKO	National	Mechniko	RUDENKO,	Februar	3 year	DMYTRYCHENKO		in research and	events, academic
Transpo rt	ha-Pavlenka		Maritime		Rector	y 2022		· ·		development works,	
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Universi	Street, Kyiv		University	Odesa						experimental studies,	
ty	01010,			65029,				RUDENKO, Recto		modernization of	mobility of
	Ukraine			Ukraine					intellectual	educational	teaching, scientific-
									potential. 2. Joint		pedagogical and
										generalization and	other workers, joint
									research and	publication of the	events for VET
									development	results of joint	institutions. Joint
									works,		scientific, scientific
									experimental		and practical
									studies,		seminars and
									modernization of		conferences;
									educational	Academic mobility of	Academic mobility
									programs, to	students. 4.	of students;
									summarize and	Conducting joint	Conducting joint
									present the	educational events	educational events
									results of joint	for institutions of	for institutions of
									research and	professional	professional
									development in	vocational and	vocational and
									scientific	technical) education	technical)
									publications. 3.	in the field of	education in the
									Organization of	transport	field of transport
									joint scientific,	'	'
									scientific and		
									practical seminars		
									and conferences;		
									to carry out joint		
									publishing		
									activities, to		
									exchange		
									publications. 4.		
									Create joint		
									creative working		
									groups: to solve		
									groups. to solve complex scientific		
									and research		
									tasks; develop		





methodological complexes, textbooks and manuals for use during the implementation of educational programs. S. To promote the training of scientific personnel through master's, postgraduate and doctoral studies. 6. To carry out academic mobility of students of various levels to expand opportunities for the development of individual educational trajectories and the implementation of the principles of students centeredness. 7. Introduce the practice of					
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Introduce the practice of					centeredness. 7.
practice of					
					mutual crediting





Transpo Omellanovoc Di MYTRYCHEN (A) Cating Universi Street, Kylv U1010), Ukraine Rector Ulvaine Rector Di Rector Ulvaine Rector	National	1 Mykhaila	Mykola	DRAGOMA	9	Viktor	10 April	5 year	1. Mykola	1 Cooperation in	1) eychange of	KW: Joint scientific
Int Universi Street, Kyw University Street, Kyw S								3 year				
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ty 0.000, Ukraine University 0.1601, Ukraine Uni						•			0			
Ukraine Wraine Wrain			Rector			Rector						
effective use of available intellectual and material resources, increasing and strengthening their authority and presige. 20 crapanization of joint scientific, educational, methodological and prosecution of professional and research progressional active integration of of the education of joint scientific, educational, methodological and professional active integration of of the educational and scientific space.	ty	,		UNIVERSITY	,					•		
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intellectual and material into the education of the resources, system; joint management of internship and strengthening their authority and prestige. 2. The basis of conferences, cooperation will be the scientific events, including by creating of joint scientific, educational, elamon projects aimed at material and research in the scientific events and projects aimed at raining for students and projects aimed at sachieving the goal, strengthening comprehensive scientific, education of of the education of of the education and scientific space. In the basis of conferences, scooperation will be pedagogical workers; involvement in the mprovement of the educational and research in the scientific events, including by creating educational process of training future teachers of training future teachers of projects aimed at raining for students achieving the goal, strengthening comprehensive scientific, educational AVET institutions and the educational and scientific space. In the basis of conferences, seminars and other scientific events for scientific events for other events of scientific events for other events of scientific events for other events of scientific events of other events of scientific events of other events of scientific events of scientifi												
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The basis of cooperation will be the scientific events, improvement of the implementation of joint scientific events, including by creating educational process of teachers of										and prestige. 2.	organization of joint	pedagogical
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mutual training, training and professional development of scientific and												
training and professional development of scientific and										scientific space.		
professional development of scientific and												
development of scientific and												
scientific and											professional	
											development of	
nedagogical workers											scientific and	
											pedagogical workers.	





National	1 Mykhaila	Mykola	Autocentre	19	Valerii	12 April	31	1. Mykola	The parties will	1. Development of	KW: Joint scientific
Transpo	Omelianovyc	DMYTRYCHENK	Europa LLC	Volodymy	KONONENK	2023	Decem	DMYTRYCHENKO		projects of	events, academic
rt	ha-Pavlenka	O, Acting Rector	Luiopa LLC	r Brozhko	O, Director	2023	ber		the	educational	mobility of
Universi	Street, Kyiv	O, Acting Nector		Street,	O, Director		2027	Valerii	development	programs, curricula	students,
	01010,			Kyiv			2027	KONONENKO,	and	and programs of	academic mobility
ty	,			03069,				,			
	Ukraine			,				Director	implementation	disciplines for the	of teaching, scientific-
				Ukraine					of advanced	training of	
									technologies,	specialists. 2.	pedagogical and
									methods and	Implementation of	other workers,
									means of	joint scientific and	joint events for
									operation,	research and	VET institutions.
									maintenance	development	Expansion of
									and repair of	works. 3. Internship	bases of
									motor vehicles,	and advanced	production
									their systems	training of students,	practice of
									and	postgraduates and	students;
									components.	employees. 4.	Internship and
										Payment for the	advanced training
										performance of	of students,
										individual works	postgraduates and
										under an additional	employees;
										agreement;	Possibilities of
										sponsorship	implementing
										assistance in	elements of dual
										scientific and	education
										pedagogical	Caacation
										activities may be	
										provided. 5.	
										Possibilities of	
										organizing elements	
										of dual education	
National	1 Mykhaila	Mykola	State	2	Maiia	2E April	31	1. Mykola	1. Creation of		KW: Joint scientific
		,		3 Kaupaska		25 April 2023		,		1. Improving the	
Transpo	Omelianovyc	DMYTRYCHENK	enterprise	Kaunaska	SHYNDOR,	2023	Decem	DMYTRYCHENKO	1 ' ' '	qualifications of	events, academic
rt	ha-Pavlenka	O, Acting Rector	"Dorcentr"	Street,	Acting		ber	Acting Rector	conditions and	specialists with	mobility of
Universi	Street, Kyiv			Kyiv	Director		2027	2. Maiia	mechanisms for	higher education	students,
ty	01010,			02155,				SHYNDOR, Acting		and scientific and	academic mobility
	Ukraine			Ukraine				Director	cooperation. 2.	pedagogical	of teaching,
									Strengthening	workers with the	scientific-
									the scientific	participation of	pedagogical and
									and methodical	leading specialists;	other workers,

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		,						T			uropean Union
									influence on	2. Organization and	joint events for
									economic	conduct of joint	VET institutions.
									processes	research,	Improving the
									through joint	promotion of	qualifications of
									efforts,	scientific	specialists with
									promoting the	developments; 3.	higher education
									deepening of	Development of	and scientific and
									regional	joint scientific and	pedagogical
									cooperation. 3.	educational target	workers with the
									Establishing a	programs and	participation of
									mutually	projects; 4.	leading specialists;
									beneficial	Undertaking	Conducting joint
									partnership	industrial practice	events for
									between	by students	institutions of
									scientific and	_ ′	professional
									educational		vocational and
									institutions and		technical)
									business		education in the
									structures,		field of transport
									establishing		and road
									their interaction		construction
									on the basis of		
									innovative		
									economy. 4.		
									Organization of		
									system		
									cooperation. 5.		
									Development of		
									mechanisms for		
									commercializati		
									on of research		
									results		
National	1 Mykhaila	Mykola	State	57	Artem	-	31	1. Mykola	1. Creation of	1. Improving the	KW: Joint scientific
Transpo	Omelianovyc	, DMYTRYCHENK	Enterprise	Beresteys	BEZUHLYI,		Decem	DMYTRYCHENKO		qualifications of	events, industrial
rt	ha-Pavlenka	O, Acting Rector	"M.P.	ky	Director		ber	Acting Rector	conditions and	specialists with	practice of
Universi	Street, Kyiv		Shulgin	Avenue,			2027		mechanisms for	higher education	students, joint
ty	01010,		State Road	Kyiv					systemic	and scientific and	events for VET
'	Ukraine		Research	03113,				,	cooperation. 2.	pedagogical	institutions.Impro
			Institute"	Ukraine					Establishing a	workers with the	ving the
									mutually	participation of	qualifications of
1									benefici a l.	leading specialists;	specialists with

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									partnership between scientific and educational institutions and business structures and their interaction on the basis of innovative economy. 3. Approaching education and science to the standards of the modern labor market and the requirements of employers. 4. Development of mechanisms for commercializati on of research results, organization of systemic cooperation.	2. Organization and conduct of joint research, promotion of scientific developments; 3. Development of joint scientific and educational target programs and projects; 4. Completion of training practice	higher education and scientific and pedagogical workers with the participation of leading specialists; Internship. Conducting joint events for institutions of professional (vocational and technical) education in the field of transport and road construction
National Transpo rt Universi ty	1 Mykhaila Omelianovyc ha-Pavlenka Street, Kyiv 01010, Ukraine	Mykola DMYTRYCHEN KO, Acting Rector	Separate structural unit "Bar Professional College of Transport and Constructio n of the National Transport University"	7 Heroiv Maidanu Street, Bar, Vinnytsia region, 23000, Ukraine	Yosyp KIBITLEVSKY I, Director	-	-	DMYTRYCHENKO Acting Rector 2. Yosyp KIBITLEVSKYI, Director	expert work. 2. Provision of scientific and methodical support of the educational process. 3.	1. Pedagogical practice 2. Improving the qualifications of teachers of VET institutions 3. Dissemination of information about institutions with the aim of forming the contingent of NTU and the teaching staff of the Kyiv	KW: Production practice of students, pedagogical practice of students, professional development, involvement in the educational process, joint events for VET institutions, the





		T		T					1.157		ropean Union
									4. Increasing the		possibility of
										J	publications in
										the National	specialized
										Transport University.	
										4. Consultative	NTU. Pedagogical
											and production
										content and changes	
										in educational	involvement in the
											improvement of the
											educational process
									!	teachers of	of training future
									higher education		teachers of
											professional
											education,
										scientific, scientific	professional
										and practical	development, the
										seminars,	possibility of
										conferences.	publications in
											specialized
											publications of the
											National Technical
											University, joint
											educational events
											for VET institutions.
National	1 Mykhaila	Mykola	Separate	177	Rostyslav	-	-			1. Pedagogical	KW: Production
Transpo	Omelianovyc	DMYTRYCHEN	structural	Soborna	NAHORNYI,			DMYTRYCHENKO		practice 2. Improving	
rt	ha-Pavlenka	KO, Acting	unit	Street,	Director						students,
Universi	Street, Kyiv	Rector	"Nadvirna	Nadvirna,						teachers of VET	pedagogical
ty	01010,		Professional	Ivano-				,		institutions 3.	practice of
	Ukraine		College of	Frankivsk						Dissemination of	students,
			National	region,						information about	professional
			Transport	78400,						institutions with the	development,
			University"	Ukraine						aim of forming the	involvement in the
										contingent of NTU	educational
									of work results in		process, joint
										staff of the Kyiv	events for VET
										Transport and	institutions, the
										Economic College of	possibility of
										the National	publications in
										Transport University.	
									Ensuring a high	4. Consultative	publications of

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profession technical education primary profession profession technical education primary profession technical education primary profession prof	in educational practice, n, programs for the training of future improvement of the educational professional professional education. 5. practice, involvement in the improvement of the educational process of training future teachers of
technical education primary profession	in educational practice, n, programs for the involvement in the training of future improvement of the educational process of training future education. 5.
education primary profession	n, programs for the training of future improvement of the anal and teachers of professional professional education. 5. involvement in the improvement of the educational process of training future teachers of
primary profession	training of future improvement of the educational process of professional education. 5.
profession	training of future improvement of the educational process of professional education. 5.
profession	teachers of educational process of training future education. 5.
	ducation professional of training future education. 5. teachers of
	education. 5. teachers of
	Organization of joint professional
	scientific, scientific education,
	and practical professional
	seminars, development, the
	conferences. possibility of
	publications in
	specialized
	publications of the
	National Technical
	University, joint
	events for VET
	institutions.
National 1 Mykhaila Mykola Separate 2 Velyka Oleksandr 1. Mykola 1. Conduc	
Transpo Omelianovyc DMYTRYCHEN structural Berdychiv NIKOLENKO DMYTRYCHENKO research	
rt ha-Pavlenka KO, Acting unit ska , Director Acting Rector expert wo	, ,
Universi Street, Kyiv Rector "Zhytomyr Street, 2. Oleksandr Provision	
ty 01010, Automobile Zhytomyr NIKOLENKO, scientific	
Ukraine and Road , 10014, Director methodic	l l
Specialist Ukraine support of	
Collegeof education	l l
National process. 3	, , , , , , , , , , , , , , , , , , , ,
Transport Implement	
	esults in and the teaching process, joint
practice.	
Increasing	
profession	
developm	, , , , , , , , , , , , , , , , , , ,
teachers.	l l
Ensuring :	, , , , , , , , , , , , , , , , , , ,
	uality of support regarding NTU.Pedagogical
technical	
profession	nal and content and changes and production





									education,	programs for the	involvement in the
									primary	training of future	improvement of the
									professional and		educational process
									higher education		of training future
									J	education. 5.	teachers of
										Organization of joint	
										scientific, scientific	education,
										and practical	advanced training,
										seminars,	the possibility of
										conferences.	publications in
											specialized
											publications of the
											National Technical
											University, joint
											scientific, scientific
											and practical
											seminars,
											conferences
National	1 Mykhaila	Mykola	Separate	20	Nataliia	-	-		1. Conducting	 Pedagogical 	KW: Production
Transpo	Omelianovyc	DMYTRYCHEN	structural	Vasylkivsk	SHULHA,			DMYTRYCHENKO		practice	practice of
rt	ha-Pavlenka	KO, Acting	unit "Kyiv	a Street,	Director					2. Improving the	students,
Universi	Street, Kyiv	Rector	Transport	Kyiv,						qualifications of	pedagogical
ty	01010,		and	03040,				,		teachers of VET	practice of
	Ukraine		Economic	Ukraine						institutions	students,
			College ofof							3. Dissemination of	professional
			National							information about	development,
			Transport						ļ	institutions with the	involvement in the
			University"							aim of forming the	educational · · ·
										contingent of NTU	process, joint
										and the teaching	events for VET
										staff of the Kyiv	institutions, the
									!	Transport and	possibility of
										Economic College of	publications in
										the National Transport University	specialized
	I		I	ı					ı	II ranchort I Iniversity	nublications of
										Transport Offiversity	NTU.





				professional and technical education, primary professional and higher education	support regarding content and changes in educational programs for the training of future teachers of professional education. 5. Organization of joint scientific, scientific and practical seminars,	involvement in the improvement of the educational process of training future teachers of professional education, advanced training, the possibility of publications in specialized
					scientific and practical seminars,	the possibility of publications in
						specialized publications of the National Technical
						University, joint scientific
						and practical seminars, conferences.