

Syllabus
Educational Component of the Elective
Transport development strategies

Discipline	Transport development strategies
Higher Education Level	The second one (Master degree)
Moodle course page	https://dl2022.khadi.kharkov.ua/course/view.php?id=2056
Educational Component Volume	3 credits (90 hours)
Final Control	Test
Consultations	According to the schedule
Department	Transport technologies dpt.
Language of teaching	English
Course Leader (Manager)	Doctor of Technical Sc., Professor Volodymyr Vdovychenko
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Educational Component Summary:

The goal is the formation of future specialists in the field of transport and transport infrastructure theoretical, practical, and methodical provisions regarding the definition of the conceptual basis for the creation and implementation of a strategy for ensuring the stable and efficient functioning of transport, creating conditions for the socio-economic development of the country, increasing the competitiveness of the national economy and the standard of living of the population.

Subject: a pedagogically adapted system of concepts about the principles and methods of strategic planning of transport activities.

The main tasks of the academic discipline are:

Analysis and substantiation of the theoretical and methodological foundations of developing a transport development strategy.

Systematization and parameterization of transport condition diagnostics indicators.

Mastering the principles of forming goals and priorities of strategic transport development.

Analysis of functional strategies of transport development.

Evaluation of the effectiveness of implementing the transport strategy.

Prerequisites for studying the educational component: EC of the second level (Master degree)

Competencies acquired by the applicants:

Ability to adapt and act in a new situation, the ability to create and protect intellectual property.

Ability to think abstractly, generate new ideas, analyze and synthesize.

Ability to conduct research at the appropriate level.

ability to identify, pose and solve problems.

Ability to evaluate and ensure the quality of performed works.

Ability to formulate, analyze and synthesize solutions to scientific problems in the organization of transportation and management of road transport at an abstract level by decomposing them into components that can be investigated separately in their more and less important aspects.

Ability to use existing computer programs and technologies in the organization of transportation and management of road transport, to implement them and to develop new ones.

Ability to perceive acquired knowledge in the field of transport development and integrate it with existing knowledge.

Training results according to the educational program are to:

Expansion, addition, or modification of existing scientific theories with own ideas and improvements based on the synthesis of acquired knowledge and practical experience.

Ability to apply the scientific results of specialized disciplines for the development of optimal conditions for the functioning of the transport process, with the help of

Improvement of technological rules and procedures, measurement methods in order to obtain the results of scientific research.

Ability to improve and develop one's intellectual and general cultural level, to independently learn new research methods, to changes in the scientific and scientific-production profile in one's professional activity.

Ability to independently acquire and use new knowledge and skills in practical activities, in particular in new areas of knowledge not directly related to the field of activity.

Formation of new competitive ideas in the field of theory and practice of transport organization and management in road transport, developing methods for solving non-standard tasks, searching for new methods for solving traditional tasks.

Ability to collect and analyze scientific and technical information, modern best practices in the field of research.

Conduct development and research of theoretical and experimental models of objects of professional activity.

Carry out development and research on the influence of transport features in the formation of transport planning of large and significant cities.

Formulate new hypotheses and scientific problems in the field of transport organization and road transport management, choose appropriate directions and appropriate methods for their solution.

Thematic plan

Theme, №	Theme (L, LW, PW, SEW)	Hours	
		full-time training	part-time training
1	L – The essence of the strategic development of transport	2	1
	R (LW, SEW) – Analysis of the factors of the formation of strategies for the functioning of the transport entity	2	-
	SEW – National strategy of transport development of Ukraine 2030	8	10
2	L – Basics of strategic management.	2	1
	R (LW, SEW) – Analysis of the dynamics of the development of the transport entity	2	-
	SEW – Characteristics of strategic management functions	8	10
3	L – Strategic analysis of the state of transport	2	2
	R (LW, SEW) – Analysis of the conflicts of strategies of the functioning of transport entities	6	-
	SEW – System of indicators for evaluating the development of the motor vehicle enterprise	6	10
4	L – Elements of strategic management	2	-
	R (LW, SEW) – Forecasting the development of the transport potential of the region	4	2
	SEW – Characteristics of basic transport development strategies	6	-
5	L – Strategy of the enterprise	2	-
	R (LW, SEW) – Choosing a rational management strategy for transport enterprises in terms of resource conservation	2	2
	SEW – Risks during the implementation of organizational changes	6	10
6	L – Goals and priorities of the transport development strategy	2	2
	R (LW, SEW) – Modeling of the strategy of sustainable development of the transport enterprise	2	-
	SEW – Characteristics of the impact of changes on the development of the motor vehicle enterprise	-	10
7	L – Functional strategies of transport development	2	-
	R (LW, SEW) -	-	-

	SEW – Selection of methods of management of the motor vehicle enterprise in accordance with the selected development strategy	8	10
8	L – Transport strategy implementation mechanisms	2	-
	R (LW, SEW) – Evaluation of the effectiveness of the development of the transport infrastructure of the region	2	-
	SEW – Matrix for choosing transport development strategies	8	-
In total	L	16	6
	R (LW, SEW)	16	4
	SEW	58	80

Teaching methods:

- 1) verbal: 1.1 traditional: lectures, explanations, stories, etc.;
- 2) visual: illustration method, demonstration method
- 3) practical: 3.1 traditional: practical classes, seminars;

Evaluation system and requirements:

The final evaluation of the discipline is determined by adding the total sum of points on practical and theoretical preparation.

Ongoing achievement

- survey (0-20 points);
- level of knowledge on defending practical (laboratory) works (0-20 points);
- timely execution and defending practical (laboratory) works (0-10 points);
- attendance (0-10 points).

Table 1 – Assessment of the level of practical training

Component of the final evaluation	Points			
	16-20	11-15	6-10	0-5
Survey	The answer to the question is complete, concrete, contains definitions of terms, classification	The answer contains not a complete definition of terms, classification	The answer contains the definition of the basic terms with the help of the teacher	The wrong answer is given, the undiscovered essence of the question
Level of knowledge on defending practical (laboratory) works	The student gives the answer to the method of decision, correctly presented calculations and complete conclusions	The student gives the answer to the method of decision, in calculations there are minor errors or inaccuracies, conclusions are not presented completely	The student passes the general sense on the method of decision, in calculations there are significant errors or inaccuracies, conclusions are not presented completely	The student cannot convey the general sense of work, in calculations there are significant errors or inaccuracies, no conclusions are given
Component of the final evaluation	Points			
	9-10	6-8	2-5	0-1
Timeliness of execution and defending practical (laboratory) works	The student defends the work the same week, when it began	The student defends the work during the next week, after its beginning	The student defends the work during the month when it started	The student defends the work before the final control
Attendance	The student attended more than 90% of the classes	The student attended from 75% to 90% of the classes	The student attended from 50% to 75% of the classes	The student attended less than 50% of the classes

Assessment of theoretical training level (0-40 points):

- polling or conducting of the current control in the form of the test or control tasks (0-30 points);
- attendance (0-10 points).

Table 2 – Assessment of the level of theoretical training

Component of the final evaluation	Points			
	24-30	16-23	8-15	0-7
Survey	The answer to the question is complete, concrete, contains definitions of terms, classification	The answer contains definitions of terms, classification	The answer includes the definition of the basic terms	The given answers are incorrect , the question essence is undiscovered
Component of the final evaluation	Points			
	9-10	6-8	2-5	0-1
Attendance	The student attended more than 90% of the classes	The student attended from 75% to 90% of the classes	The student attended from 50% to 75% of the classes	The student attended less than 50% of the classes

The result of the study is estimated (choose required):

- on a double scale (passed/failed) according to table 2;
- on a 100-point scale (for differentiated test) according to table 3.

Table 3 – Conversion of the score into the national evaluation system

According to 100- point scale	According to the national scale
between 60 scores and 100 scores	Passed
Less than 60 scores	Failed

Table 4 – Applicants' evaluation score scale according to the final control of the academic discipline

Evaluation score in points	Evaluation score according to national scale		ECTS grades	
			Grade	Criteria
90-100	Excellent	passed	A	The theoretical content of the course is mastered completely, without gaps, the necessary practical skills to work over the mastered material are developed, all the training tasks provided by the program are accomplished, the quality of their performance is estimated by the number of points close to the maximum
80-89	Very good	passed	B	The theoretical content of the course is mastered completely, without gaps, the necessary practical skills to work over the mastered material are basically developed, all the training tasks provided by the program are accomplished, the quality of performance of most of them is estimated by the number of points close to the maximum.
75-79	Good		C	The theoretical content of the course is mastered completely, without gaps, some practical skills to work with the mastered material are not developed sufficiently, all the training tasks provided by the program are accomplished, the quality of performance of none of them is estimated by the minimum number of points, some tasks can have mistakes
67-74	Satisfactory		D	The theoretical content of the course is partially mastered, but the gaps are not significant, the necessary practical skills to work over the mastered material are basically developed, most of the training tasks provided by the program are accomplished, some of the completed tasks may contain mistakes

Evaluation score in points	Evaluation score according to national scale		ECTS grades	
	exam	test	Grade	Criteria
60–66			E	The theoretical content of the course is partially mastered, some practical skills to work over the mastered material are not developed, many training tasks according to the program are not completed, or the quality of performance of some of them is estimated by the number of points close to the minimum.
35–59	Unsatisfactory	Failed	FX	The theoretical content of the course is partially mastered, practical skills to work over the mastered material are not developed, most of the tasks provided by the programs are not completed, or the quality of their performance is estimated by the number of points close to the minimum; additional self-education work according to the course can improve the quality of the performance of educational tasks (in case of the second study)
0–34	Failed		F	The theoretical content of the course is not mastered, the necessary practical skills to work over the mastered material are not developed, all the completed educational tasks contain serious errors, additional self-education work according to the course doesn't have any significant quality improvement in educational tasks performance (due to mandatory second study)

Course policy:

- the course involves working in the team where the environment is friendly, creative, open to constructive criticism;
- the discipline requires mandatory attendance of lectures and practical classes, as well as self-education work;
- self-education work involves studying certain discipline themes, which are submitted in accordance with the program for self-education work, or have been considered briefly;
- all the tasks provided by the program must be completed within the prescribed time-frame;
- if the higher education applicant is absent for valid reasons, he/she passes the completed tasks during the self-education work and consultations provided by the teacher;
- while studying the course, higher education applicants should follow the rules of academic integrity set out in such documents: «Rules of academic integrity of participants of the KhNAHU Education process» (https://www.khadi.kharkov.ua/fileadmin/P_Standart/pologeniya/stvnz_67_01_dobroch_1.pdf), «Academic integrity. The text check of academic, scientific and qualification works for the plagiarism» (https://www.khadi.kharkov.ua/fileadmin/P_Standart/pologeniya/stvnz_85_1_01.pdf), «Moral and ethical code of participants of the KhNAHU educational process» (https://www.khadi.kharkov.ua/fileadmin/P_Standart/pologeniya/stvnz_67_01_MEK_1.pdf).
- in case of detecting the plagiarism, the applicant receives 0 points for the task and must retake the tasks provided in the syllabus;
- cheating during control works and examinations is prohibited (including mobile devices). Mobile devices are only allowed to be used during online testing.

Reference

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Extra-reference

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