

Документ подписан при помощи программы  
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**Federal State Autonomous Educational Institution of Higher Education**

**PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA**

**NAMED AFTER PATRICE LUMUMBA**

**RUDN University**

**Academy of Engineering**

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(educational division (faculty/institute/academy) as programme developer)

**Department of Transport Equipment and Technology**

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(department realizing the PhD program)

## **COURSE SYLLABUS**

**Logistic Transport Systems**

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(course title)

Scientific specialty:

**2.9.9. Logistic transport systems**

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(scientific specialty code and title)

The course instruction is implemented within the PhD programmes:

**Logistic transport systems**

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(PhD program title)

## 1. DISCIPLINE (MODULE) GOAL

The objective of mastering the discipline "Logistics Transport Systems" is to prepare for passing the candidate's exam in a special discipline, to form a systematic approach to the organization of transportation and operation of vehicles and transport equipment in various transport systems, to develop skills in making managerial decisions and their assessment in the field of management of transport organizational structures.

## 2. REQUIREMENTS TO PHD-STUDENTS ON FINISHING THE COURSE

As a result of mastering the discipline, the PhD student must

### To know:

- areas of research carried out within the framework of the scientific specialty 2.9.9. *Logistic transport systems*;
- basics of organization, planning and management of technical and commercial operation of logistics transport systems;
- Fundamentals of Transport Economics;

### Be able to:

- find ways to improve the efficiency of transport and logistics services for consumers;
- find and solve problems in the field of technology, organization, planning and management of technical and commercial operation of transport systems;
- apply economic knowledge in the field of transport activities;

### Own:

- methods of optimization of logistics transport chains and links;
- methods of solving problems in the field of technology, organization, planning and management of technical and commercial operation of transport systems;
- economic knowledge in the field of transport activities.

## 3. WORKLOAD OF THE DISCIPLINE AND TYPES OF ACTIVITIES

The overall workload of the discipline "Logistics Transport Systems" is 4 credits (144 academic hours).

Types of activities	Total ac. hrs.	Semesters
		3
<i>Classroom activities (total), including:</i>	60	60
including:		
Lectures (LC)	30	30
Practical lessons/Seminars (PC)	30	30
<i>Independent work (IW)</i>	48	48
<i>Intermediate certification (test with assessment/exam)</i>	36	36
Overall workload	ac. hrs.	144
	credits	4

## 4. CONTENT OF THE DISCIPLINE

Name of the discipline section	Contents of the section (topics)	Type of Academic Work
Section 1. Transport Logistics	Topic 1.1. Transportation process. General concepts and terminology. Freight and passenger flows.	LC, PC, IW
	Topic 1.2. Features of the Transport Sphere of Material Production.	LC, PC, IW
	Topic 1.3. Types and Classification of Transport and Transport Logistics.	LC, PC, IW
Section 2. Logistics Transport Systems (LTS)	Topic 2.1. The role of transport in the country's economy. Structural and functional characteristics of transport. Definition of LTS.	LC, PC, IW
	Topic 2.2. The place of the Russian LTS in the global transport system.	LC, PC, IW
	Topic 2.3. LTS Performance Indicators.	LC, PC, IW
Section 3. Freight Transport Technology	Topic 3.1. Features of the transport sphere of material production. Participants in the transport process and their functions.	LC, PC, IW
	Topic 3.2. Typical schemes of the transport process. Basic concepts of the transportation process. Transportation Process Meters.	LC, PC, IW
	Topic 3.3. Development of a scheme for mechanization of loading and unloading operations.	LC, PC, IW
Section 4. Transportation	Topic 4.1. Cargo Processing Facilities in the Goods Distribution System.	LC, PC, IW
	Topic 4.2. LTS of cargo handling. Transportation hubs.	LC, PC, IW

hubs	Topic 4.3. Direct and multimodal transport (direct and mixed traffic). Features of mixed communication. Transshipment of goods at the transport hub.	LC, PC, IW
Section 5. Passenger LTS	Topic 5.1. Features of passenger transportation. Passenger Traffic and Mobility of the Population. Distribution of passenger transport between modes of transport.	LC, PC, IW
	Topic 5.2. Features of transport services for settlements. Spheres of rational use of urban and suburban transport. Integrated Urban Transport Schemes.	LC, PC, IW
	Topic 5.3. Calculation of population mobility in the organization of urban transportation. Calculation of Population Mobility in the Organization of Regional Transportation.	LC, PC, IW
Section 6. LTS Study	Topic 6.1. LTS Models.	LC, PC, IW
	Topic 6.2. Methods of analysis and synthesis of LTS.	LC, PC, IW
	Topic 6.3. Methods of LTS optimization.	LC, PC, IW

## 5. EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Room Type	Room Equipment	Specialized educational / laboratory equipment, software and materials for mastering the discipline
Class for Seminars	Room for seminar-type classes, equipped with a set of specialized furniture, board (screen) and technical / multimedia gadgets	Not necessary
Self-Work Class	Room for self-working (can be used for lecture and seminars activities), equipped with a set of specialized furniture, board (screen) and technical / multimedia gadgets and computers with an access to EIPES	Not necessary

## 6. METHODOLOGICAL SUPPORT AND LEARNING MATERIALS

### Main readings:

- 1) Полагин Ю.И. Логистика-планирование и управление материальными потоками / М.: Политехника. 2020. 220 с. <http://www.iprbookshop.ru>.
- 2) Шведов В.Е, Иванова Н.В. Транспортная логистика. Механизация и автоматизация погрузочно-разгрузочных работ: учебное пособие / Интермедия. 2018. 240 с. <http://www.iprbookshop.ru>.
- 3) Николашин В.М. Основы логистики / М.: Маршрут, 2007.
- 4) Аникин Б.А., Родкина Т.А. Логистика и управление цепями поставок. Теория и практика. Основные и обеспечивающие функциональные подсистемы логистики: учебник / М.: Проспект. 2011.
- 5) Новиков И.А, Шевцова А.Г. Транспортная логистика: учебное пособие / Белгородский государственный технологический университет. 2017. 98 с. <http://www.iprbookshop.ru>.
- 6) Николашин В.М. Логистические технологии / М.: Сандика Плюс. 2006.

### Additional readings:

- 7) Варфоломеева Т.Н. Структуры данных и основные алгоритмы их обработки / М.: ФЛИНТА, 2017 <https://referatodrom.ru/books/sistema-upravleniya-organizacziej/page/2/>.
- 8) Маслихова Е.А., Данилова С.Р. Транспортная логистика: учебное пособие / Тюмень. 2019. 80 с. <http://www.iprbookshop.ru>.
- 9) Родионова В.Н., Туровец О.Г. Организация производства и управление предприятием: Учебное пособие / М.: ИЦ РИОР, 2012.
- 10) Карлик А.Е., Шухгальтера М.Л. Экономика предприятия / М.: Инфра-М. 2009.

### Internet sources:

ELS RUDN University and third party EBS, to which university students have access based signed contracts:

- RUDN Electronic Library System, <http://lib.rudn.ru/MegaPro/Web>;
- ELS University Library Online, <http://www.biblioclub.ru>;
- EBS Urayt <http://www.biblio-online.ru>;
- ELS Student Consultant, <http://www.studentlibrary.ru>;
- EBS Lan <http://e.lanbook.com>;
- EBS Trinity Bridge <http://www.trmost.ru>.

### Databases and search engines:

- Electronic fund of legal and normative-technical documentation, <http://docs.cntd.ru>;
- Yandex search system <https://www.yandex.ru>;

- Google search system <https://www.google.com>;
- Reference database Scopus <http://www.elsevierscience.ru/products/scopus>.

*Educational and methodological materials for students' self-work studying the discipline:*

A course of lectures on the discipline "Logistics Transport Systems".

## **7. ASSESSMENT TOOLKIT AND GRADING SYSTEM FOR MIDTERM ATTESTATION OF STUDENTS IN THE DISCIPLINE (MODULE)**

Assessment toolkit and a grading system to evaluate the level of competences (competences in part) formation as the course results are specified on the TUIS platform.

### **DEVELOPERS:**

**Associate Professor of the  
Department of Transport  
Equipment and Technology**

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Position, BD

**S.V. Khlopkov**

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Name and surname

**THE HEAD OF THE  
EDUCATIONAL PROGRAMME:  
Professor, Head of Department  
of Transport Equipment and  
Technology**

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Position, BD

**A.R. Asoyan**

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Name and surname