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**FEDERAL STATE AUTONOMOUS EDUCATIONAL INSTITUTION OF HIGHER  
EDUCATION PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA NAMED AFTER  
PATRICE LUMUMBA  
(RUDN University)  
Faculty of Economics**

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## **COURSE SYLLABUS**

### **INTERNATIONAL TRADE IN HIGH-TECH PRODUCTS AND TECHNOLOGY TRANSFER**

**Recommended by the Didactic Council for the Education Field of  
38.03.01 Economics**

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(code and name of the direction of training/specialty)

**The course instruction is implemented within the professional education programme  
of higher education**

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**International Economic Relations**

(name (profile/specialization))

## 1. COURSE GOALS

The goal of studying the discipline "International trade in high-tech products and technology transfer" is to obtain basic scientific and practical knowledge in the field of international trade in high-tech products and features of technology transfer.

## 2. LEARNING OUTCOMES

The development of the discipline "International trade in high-tech products and technology transfer" is aimed at the formation of the following competencies (part of the competencies) among students:

*Table 2.1. List of competencies formed in students when studying the discipline (results of mastering the discipline)*

Competence code	Competence	Competence indicators
SPC-5	Able to understand the principles of operation of modern information technologies and use them to solve problems of professional activity	SPC-5.1. Know how to use modern information technologies and software, incl. domestic production, to solve the problems of the digital economy
		SPC-5.2. Recognize and take into account the sources of threats, compliance with information security requirements
		SPC-5.3. Able to choose modern information technologies and software in solving problems of professional activity
PC-3	Able to participate in the implementation of an individual and (or) collective project in the field of international economic relations	PC-3.1. Implement standard algorithms for projects and campaigns in the field of international economic relations
		PC-3.2. Know how to prepare basic documents to support the project in the field of international economic relations
		PC-3.3. Able to use the results of research to plan the foreign economic policy of the Russian Federation
PC-4	Able to analyze and make forecasts of the conjuncture of world markets for goods and services	PC-4.1. Able to professionally and competently analyze the situation on the world markets
		PC-4.2. Know how to use research results for forecast

## 3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The discipline "International trade in high-tech products and technology transfer" refers to the mandatory part of block B1 of the EP HE.

Within the framework of the EPHE program, students also study other subjects and/or engage in practical activities that contribute to the achievement of the planned learning outcomes for the "International Trade in High-Tech Products and Technology Transfer" course.

*Table 3.1. List of Higher Education Programme components / disciplines that contribute to expected learning/training outcomes*

Code	Competence	Previous disciplines/modules, practices*	Subsequent disciplines/modules, practices*
SPC-5	Able to understand the principles of operation of modern information technologies and use them to solve problems of professional activity	Econometrics, International statistical databases	Undergraduate practice, Final state examination procedures
PC-3	Able to participate in the implementation of an individual and (or) collective project in the field of international economic relations	World economy, International Economic Relations	Theory and practice of international business, Foreign economic relations between Russia and Latin American and Caribbean countries, Foreign economic relations between Russia and Asian and African countries, Russia and BRICS in the global economy
PC-4	Able to analyze and make forecasts of the conjuncture of world markets for goods and services	Foreign Trade Policy	World commodity markets, International financial markets, Final state examination procedures

#### 4. SCOPE OF DISCIPLINE AND TYPES OF EDUCATIONAL WORK

The total laboriousness of the discipline "International trade in high-tech products and technology transfer" is 5 credits.

Table 4.1. Types of educational work by periods of mastering the EP HE for **full-time** education

Type of educational work		TOTAL, academic hours	Sam. 5
<i>Contact academic hours</i>		68	68
including:		34	34
Lectures		0	0
Lab work		34	34
Seminars (workshops/tutorials)		85	85
<i>Self-study (ies), academic hours</i>		27	27
<b>Overall laboriousness of the discipline</b>	<i>academic hours</i>	<b>180</b>	<b>180</b>
	Credits	<b>5</b>	<b>5</b>

#### 5. COURSE MODULES AND CONTENTS

Table 5.1. The content of the discipline (module) by types of educational work

Course Modules and Contents	Modules and Topics (Units/Themes)
	Topic 1.1. The concept and essence of high-tech products

<b>Course Modules and Contents</b>	<b>Modules and Topics (Units/Themes)</b>
Section 1. The essence and concept of high-tech products	Topic 1.2. Criteria for classifying goods, works, services as innovative and high-tech products
	Topic 1.3. Classification of high-tech products
Section 2. International exchange of technology and information	Topic 2.1. The concept and role of technology and information in the global economy.
	Topic 2.2. Channels and forms of technology exchange
	Topic 2.3. Outsourcing, types of outsourcing
Section 3. Global Technology Market	Topic 3.1. Market of patents and licenses
	Topic 3.2. Market of high-tech products
	Topic 3.3. Market of scientific and technical specialists
Section 4. International trade in high-tech and information technology products	Topic 4.1. Commodity structure of world it exports and imports
	Topic 4.2. Geographical structure of world IT exports and imports
	Topic 4.3. Technology regulation at the national and multilateral levels
Section 5. The concept and criteria of high-tech companies	Topic 5.1. The essence of the concept of high-tech companies
	Topic 5.2. Criteria and indicators of high-tech companies.
Section 6. Russia in the international trade of high-tech products	Topic 6.1. High-tech potential of the Russian Federation. Development challenges.
	Topic 6.2. Russia's place in the global market of high-tech and information technology products

## **6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS**

*Table 6.1. Logistics of discipline*

<b>№</b>	<b>Name of discipline (module), practices in accordance with the curriculum</b>	<b>Name of special * placements and placements for independent work</b>	<b>Equipment of special placements and placements for independent work</b>	<b>List of licensed software. Details of the confirming document</b>
1.	International Economic Relations and Foreign Economic Activity	Moscow, Miklouho-Maclay, 6, Classroom for lectures and seminars, current control and interim assessment of students Classroom 105 Classroom for group and individual consultations- the location of the Department of International Economic Relations Classroom 114	Multimedia projector Casio XJ-M250 – 1 PC screen 1 PC. ASUS F6A notebook C2D-T5450 13" 2048MB/250Gb/Vista Home Basic+box, Office Prof Plus 2007 Rus Sch. K3447-1/IV dated 17.12.08	1. MS Windows 10 64 bit, license 86626883 2. Microsoft Windows 8.1 license 8512275 3. Microsoft Office 2016 license 86626883 4. Microsoft Excel 2010 license 5190227 5. Mentor 6. Garant System 7. Consultant plus

## 1. RESOURCES RECOMMENDED FOR COURSE STUDY

### Main reading(sources)

1. Belova I.N. International Trade. /educational-methodical complex: - M., RUDN University, 2012. URL:<http://lib.rudn.ru/MegaPro/Web/SearchResult/ToPage/18>
2. International trade / textbook edited by R.I. Khasbulatov, M. Yurayt, 2017
3. Arora A., Gambardella A. The market for technology //Handbook of the Economics of Innovation. – 2010. – T. 1. – C. 641-678.

### Additional (optional) reading (sources)

1. OECD Science, Technology and Industry Outlook 2014. – Paris: OECD Publishing, 2014. – 480 pp.
2. Zakharova N.V., Labudin A.V. The World Market of High Technologies: Features and Prospects for Development
3. Wahab S. A., Rose R. C., Osman S. I. W. Defining the concepts of technology and technology transfer: A literature analysis //International business research. – 2012. – T. 5. – №. 1. – C. 61-71.
4. Corsi A. et al. Technology transfer for sustainable development: Social impacts depicted and some other answers to a few questions //Journal of Cleaner Production. – 2020. – T. 245. – C. 118522.

### *Resources of the information and telecommunication network "Internet":*

1. RUDN University EBS and third-party EBS, to which university students have access on the basis of concluded contracts:
  - ELECTRONIC LIBRARY SYSTEM RUDN University – EBS RUDN University <http://lib.rudn.ru/MegaPro/Web>
  - EBS University Library Online <http://www.biblioclub.ru>
  - EBS Jurait <http://www.biblio-online.ru>
  - EBS Student Consultant [www.studentlibrary.ru](http://www.studentlibrary.ru)
  - EBS "Lan" <http://e.lanbook.com/>
  - EBS Troitsky Bridge
2. Databases and search engines:
  - electronic fund of legal and normative-technical documentation [of the http://docs.cntd.ru/](http://docs.cntd.ru/)
  - Yandex search engine [https:// www.yandex.ru/](https://www.yandex.ru/)
  - Google <https://www.google.ru/> search engine
  - Abstract database SCOPUS [http:// www.elsevierscience.ru/products/scopus/](http://www.elsevierscience.ru/products/scopus/)
  - Technology Innovation Agency Annual Report, 2021 [Electronic resource] / Technology Innovation Agency website. – 2021. – Access mode: <https://www.tia.org.za/files/2021/06/TIA-Annual-Report-2021.pdf>
  - The 10 Most Innovative Companies in the World [Electronic resource]. – Access mode: <https://www.inc.com/graham-winfrey/10-most-innovative-companies-in-the-world.html>
  - The 2021 Global Innovation 1000 study [Electronic resource]. – Access mode: <https://www.strategyand.pwc.com/innovation1000>
  - The Global Innovation Index. – [Electronic resource]. – Access mode: <https://www.globalinnovationindex.org/content/page/data-analysis>
  - WIPO – [Electronic resource]. – Access mode: <https://www.wipo.int/portal/en/index.html>

*Educational and methodical materials for independent work of students when mastering the discipline / module\*:*

All educational and methodological materials for the independent work of students are placed in accordance with the current procedure on the page of the discipline in TUIS <https://esystem.rudn.ru/course/view.php?id=18846>

1. A course of lectures on the discipline "International trade in high-tech products and technology transfer".
2. Video on youtube <https://www.youtube.com/watch?v=7Jg8R8Vx5ac>
3. Video "Silicon Valley" [https://www.youtube.com/watch?v=pUX\\_UPZFt4w](https://www.youtube.com/watch?v=pUX_UPZFt4w)

## **8. ASSESSMENT TOOLKIT AND GRADING SYSTEM\* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL UPON COURSE COMPLETION**

Evaluation materials and a grading system\* for assessing the level of formation of competencies (part of competencies) based on the results of mastering the discipline "International Economic Relations and Foreign Economic Activity" are presented in the Appendix to this Course Syllabus of the discipline.

### **AGREED**

Developer:

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Head of the Higher Education Program(me)

Doctor of Economics, Professor of International economic relations \_\_\_\_\_I.V. Andronova