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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**

COURSE SYLLABUS

Artificial intelligence in economics

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

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

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

International Economic Relations
(name (profile/specialization))

1. COURSE GOALS

The purpose of mastering the discipline " Artificial intelligence in economics" is the role, capabilities, and limitations of artificial intelligence technologies in international trade and global supply chains, including: an overview of key AI concepts accessible to non-technical professionals (machine learning, natural language processing, computer vision, generative AI); AI applications in trade facilitation, customs operations, trade finance, logistics, and compliance; AI-driven analytics for market research, demand forecasting, and trade policy evaluation; ethical, regulatory, and geopolitical dimensions of AI adoption in cross-border commerce; practical experience evaluating and using AI-powered tools and platforms relevant to international trade professionals.

2. LEARNING OUTCOMES

Studying the discipline " Artificial intelligence in economics" is aimed at the formation of the following competencies (part of 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 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GC-12 / YK-12 | Able to: search for the necessary sources of information and data, perceive, analyze, memorize and transmit information using digital means, as well as using algorithms when working with data received from various sources in order to effectively use the information received to solve problems; evaluate information, its reliability, build logical conclusions based on incoming information and data | GC-12 / YK-12.1 Know how to search for the necessary sources of information and data, perceives, analyzes, memorizes and transmits information using digital means, as well as using algorithms when working with data received from various sources in order to effectively use the information received to solve problems / GC-12 / YK-12.2 Able to evaluate information, its reliability, builds logical conclusions based on incoming information and data |
| GPC-6 / OPIK-6 | <i>Able to understand the principles of operation of modern information technologies and use them to solve problems of professional activity</i> | GPC-6 / OPIK-6.1 Knows methods of searching, collecting, storing, and processing information; modern software tools, including artificial intelligence systems, used to solve professional tasks 6.2 Knows how to select and use modern information and communication technologies and software to solve professional tasks / GPC-6 / OPIK-6.3 Has the skills to work with data using information technologies; the skills to apply modern information, communication, and intellectual technologies and software to solve professional tasks |

| | | |
|-------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PC-1 / ПК-1 | Able to collect and analyze the initial data necessary for the calculation of economic and socio-economic indicators | PC-1 / ПК- 1.1 Seeks information to address specific challenges encountered in the professional activities PC-1 / ПК- 1.2 Analyzes and processes information to solve professional tasks PC-1 / ПК- 1.3 Summarizes, substantiates and prepares information reviews and analytical reports for solving professional tasks |
|-------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The discipline " Artificial intelligence in economics " refers to the disciplines of the basic component of the block B1.O.01.14

Within the framework of the EP HE, students also master other disciplines and / or practices that contribute to the achievement of the planned results of mastering the discipline "World Economy".

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* |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| GC-12 / YK-12 | Able to: search for the necessary sources of information and data, perceive, analyze, memorize and transmit information using digital means, as well as using algorithms when working with data received from various sources in order to effectively use the information received to solve problems; evaluate information, its reliability, build logical conclusions based on incoming information and data | <i>Technological Training;</i> <i>Digital Literacy;</i> <i>Python and SQL for Economists;</i> <i>International Statistical Databases;</i> <i>Interdisciplinary Coursework;</i> <i>Business process modeling**;</i> <i>Geographic Information Systems: Visualization of Spatial Data**;</i> <i>Business on the Internet**;</i> <i>Basics of International Trade**;</i> <i>Electronic Commerce in International Businesses**;</i> <i>Big Data**;</i> <i>Econometrics;</i> <i>Free Economic Zones and Offshores**;</i> <i>Advanced Excel;</i> | |
| GPC-6 / OIK-6 | <i>Able to understand the principles of operation of modern information technologies and use them to solve problems of</i> | <i>Technological Training;</i> <i>International Statistical Databases;</i> <i>International trade in high-tech products and tech</i> | |

| | | | |
|-----------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| | <i>professional activity</i> | <i>nology transfer;</i> | |
| PC-1 / IIK-1 | Able to collect and analyze the initial data necessary for the calculation of economic and socio-economic indicators | <i>Electronic Commerce in International Business**;</i> <i>Enterprise economy;</i> <i>Advanced Excel;</i> <i>Technological Training;</i> <i>International settlements and currency transactions;</i> <i>International Financial Reporting Standards**;</i> <i>Economic Geography;</i> <i>Demographic Processes and Politics**;</i> <i>Gas Wars in the 21st Century**;</i> <i>Business on the Internet**;</i> <i>Basics of International Trade**;</i> <i>Islamic Finance**;</i> <i>Geopolitical and Economic Interests of Russia in the World**;</i> | |

4. COURSE WORKLOAD AND LEARNING ACTIVITIES

The total labor intensity of the discipline "World Economy" is 6 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 | Semester(s) | | | |
|--------------------------------------------------|----------------------------------------|-------------|---|---|---|
| | | 3 | 4 | 5 | 6 |
| <i>Contact academic hours</i> | 36 | 36 | | | |
| including: | | | | | |
| Lectures | 18 | 18 | | | |
| Laboratory works | | | | | |
| Practical/Seminar Classes | 18 | 18 | | | |
| <i>Self-study (ies), academic hours</i> | 85 | 85 | | | |
| <i>Evaluation and assessment academic hours</i> | 27 | 27 | | | |
| Overall labor intensity of the discipline | <i>academic hours</i> 72 | 72 | | | |

| | | | | | | |
|--|---------|---|---|--|--|--|
| | credits | 2 | 2 | | | |
|--|---------|---|---|--|--|--|

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) |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Section 1. Foundations of AI for Trade Professionals | <p><i>What Is Artificial Intelligence: Key Concepts</i> Machine Learning and Data: A Non-Technical Overview Generative AI and Large Language Models Workshop: Exploring AI Tools for Trade Research Workshop: Understanding Data Through Visualization Workshop: AI Readiness Assessment for a Trade Organization</p> |
| Section 2. AI Applications in International Trade | <p>AI in Customs and Trade Facilitation AI in Trade Finance and Compliance AI in Logistics, Supply Chains, and Demand Forecasting Workshop: AI-Powered Market Analysis Workshop: Document Processing with AI Workshop: Evaluating AI Solutions — Vendor Assessment</p> |
| Topic 3. Regulation, Ethics, and the Future of AI in Trade | <p>Regulation of AI: Global Landscape Ethics, Bias, and Trust in AI for Trade The Future of AI in International Trade Workshop: Navigating AI Regulation — Case Analysis Workshop: Building an AI Strategy for a Trade Organization</p> |

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Logistics of discipline

| № | Name of discipline (module), practices in accordance with the curriculum | Name of special * placements and placements for independent work | Equipment of special placements and placements for independent work | List of licensed software. Details of the confirming document |
|----------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 1. | World Economy | 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 | 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 |

| | | | | |
|--|--|------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------|
| | | location of the Department of International Economic Relations Classroom 114 | | 4. Microsoft Excel 2010 license 5190227 5. Mentor 6. Garant System 7. Consultant plus |
|--|--|------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------|

RESOURCES RECOMMENDED FOR COURSE STUDY

Main reading(sources)

Nosova, S. S. Artificial Intelligence and Economics: textbook / S. S. Nosova, A. N. Norkina. — Moscow: KnoRus, 2026. — 399 p. — ISBN 978-5-406-15408-3. — URL: <https://book.ru/book/959467>

Voronov, M. V. Artificial Intelligence Systems: textbook and practical guide for universities / M. V. Voronov, V. I. Pimenov, I. A. Nebaev. — 2nd ed., revised. — Moscow: Yurait Publishing, 2024. — 268 p. — (Higher Education). — ISBN 978-5-534-17032-0. — Electronic text // Yurait Educational Platform [website]. — URL: <https://urait.ru/bcode/544161>

Additional (optional) reading (sources)

Savinov, Yu. A., & Taranovskaya, E. V. (2024). Artificial Intelligence in International Trade. *Russian Foreign Economic Bulletin*, (4), 58–71. <https://doi.org/10.24412.2072-8042-2020-00037>

Barsky, A. B. Artificial Intelligence and Intelligent Management Systems: monograph / A. B. Barsky. — Moscow: RUSAINS, 2024. — 186 p.

Kosarenko, N. N. Artificial Intelligence System: Concept, Theory, Law, and Development Prospects: monograph / N. N. Kosarenko. — Moscow: RUSAINS, 2024. — 176 p.

Kuznetsov, A. V. Artificial Intelligence and Information Security of Society: monograph / A. V. Kuznetsov, S. I. Samygin, M. V. Radionov. — Moscow: RUSAINS, 2024. — 118 p.

Resources of the information and telecommunication network "Internet":

- 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

- EBS "Lan" <http://e.lanbook.com/>

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 "World Economy" are presented in the Appendix to this Course Syllabus of the discipline.

* - EP is formed on the basis of the requirements of the relevant local regulatory act of RUDN University.

AGREED:

Developer:
Doctor of Economics, Professor of International
economic relations

I.V.Andronova

Head of the Higher Education Program(me)
Doctor of Economics, Professor of International
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