

## Postgraduate track Program: Economics and Econometrics

### 1. Olympiad winner's skill set

The winner of the Open Doors International Student Olympiad in Economics and Econometrics must demonstrate in-depth knowledge in the following areas:

- micro- and macroeconomic tools and models;
- principles of the functioning of the world economy and financial systems.

You should also have a solid command of the following skills:

- using modern mathematical tools to solve economic problems, analyze data, make predictions and interpret the results;
- conducting financial analysis;
- evaluating the effectiveness of companies and regional policies;
- evaluating economic processes by means of econometrics.

### 2. List of degree programs covered by subject area

#### 2.1. List of master's programs

01.04.05 Statistics

09.04.03 Applied informatics

27.04.07 Knowledge-intensive industries and innovation economics

38.04.01 Economics

38.04.05 Business Informatics

38.04.06 Trade

38.04.08 Banking and Finance

38.04.09 State audit

#### 2.2. List of doctoral programs

5.2.1 Economic theory

5.2.2 Mathematical, statistical and instrumental methods in economics

5.2.3 Regional and sectoral economics

5.2.4 Finance

5.2.5 World economy

### 3. Content

#### Economic theory

##### Microeconomics

1. **Consumer choice theory and demand:** Preferences, utility, demand. Quantitative theory. Order theory. Consumer's optimum. Individual and market demand. Income effect and substitution effect. Interaction of supply and demand. Elasticity of supply and demand, its measurement.

2. **Theory of production and cost:** Production function. Expansion of production. Short- and long-term production cost analysis. Production optimum.

3. **Markets of goods:** Perfect competition. Monopoly and monopoly power. Oligopoly. Monopolistic competition. Market equilibrium. Government regulation (taxes, subsidies, fixed prices, etc.).

### Macroeconomics

4. **Macroeconomic indicators and methods of their evaluation:** Gross national income, gross domestic product, national income and others. The concept of the system of national accounts. Inflation: causes, types, methods of measurement. Unemployment: types, methods of assessment.

5. **Macroeconomic equilibrium modeling.** Aggregate Demand-Aggregate Supply model (AD-AS model). Modeling in aggregated markets: the equilibrium model for the money market (LM model), for the goods market (IS model), and for the labor market. The IS-LM model. Multiplier effects on the goods market and the money market (extended multiplier of autonomous expenditures, money multiplier taking into account the behavior of different economic entities).

6. **Instruments of state economic policy.** Monetary and fiscal policy: efficiency in the short and long run. Balanced budget multipliers. Public debt. Open economy. Balance of payments and its structure. Exchange rate and purchasing power parity. Open economy equilibrium model (IS-LM-BP model). The Mundell-Fleming model. Macroeconomic stabilization policy taking into account different degrees of capital mobility.

7. **Macroeconomic dynamics.** The economic cycle: causes, types and phases. The industrial cycle model. The multiplier-accelerator model. The inflationary spiral, inflationary expectations. Theory of technological paradigms (long waves). Model of economic growth. The Solow model.

### Regional and sectoral economy

#### Regional economy

1. **Economic space and spatial processes.** Heterogeneity of the economic space. Basic concepts of spatial economics. Sustainable development.

2. **Models of production placement and organization of economic space.** The Thünen model. The Launhardt model. Weber's theory of location. Hotelling's model. Christaller's central place theory. Lösch's theory of spatial organization. Alonso's model of a city.

3. **Factors of regional development.** The importance of natural conditions and resources for regional development. Models of growth that do not include technical changes. Human capital and regional development. The concept and theory of human capital. Investments in human capital. Social capital. Creativity and urban development.

4. **Territorial competitiveness.** Innovations and clusters. Growth poles theory. Diffusion of innovations. Innovations and regional development. Porter's cluster theory.

#### Enterprise economics

5. **Resources of an enterprise.** Fixed assets of the enterprise: types, types of depreciation, accounting and evaluation, depreciation, depreciation methods, reproduction methods, evaluation indicators. Working capital of the enterprise: the concept, composition, structure, circulation.

Material resources and indicators of their use, rationing of working capital. The personnel of the enterprise: main characteristics, classification according to various criteria. Payroll management.

6. **Costs.** The concept of costs. Classification of current costs: by economic elements, by cost items, by the method of cost attribution. The concept of the cost of production. Cost structure by calculation items.

7. **The results of economic activity.** Performance indicators. Types of profit, directions of profit use. Net profit calculation formula. CVP analysis: assumptions for its use, break-even point, profitability threshold, financial strength margin, margin of safety. The pricing policy of a company. Pricing methods and objectives. Pricing factors.

## Global Economy

1. **Basics of the world economy.** The concept, idea, and structural characteristics of the world economy. Theories of the world economy. Features of modern concepts of the world economy. Main stages of world economic formation and development. Features of the current stage. Mechanisms of the world economy. Actors of the world economy.

2. **The resources of the world economy.** The concept and content of the world economy resources. Natural resources. The problem of economic growth and resource consumption. Distribution of resources between countries. Research, educational, and information resources. Human capital and human resources in the world economy. Financial resources. Capital and technological resources. Distribution of resources by country.

3. **The exchange of resources in the global economy.** International trade. State regulation of international trade. International movement of capital, technology and information. International migration of human resources.

4. **International coordination of economic policy.** International economic treaties. International economic integration. International regional integration. The transnationalization of the world economy. The activities of international economic organizations.

5. **International business in the main sectors of the global economy.** Agro-industrial complex. Fuel and energy complex. Chemical complex. Metallurgical complex. Machine-building complex. World transport.

6. **The economy of foreign countries and regions.** The national economy in the system of world economic relations. International competitiveness of national economies. The correlation of national and international mechanisms for regulating economic processes.

7. **The globalization of the world economy and the global problems of our time.** The idea and content of globalization as a category. The driving forces and contradictions of globalization. Global problems of the world economy and ways to solve them. The connection of global problems with the ongoing processes in the global economy. The model of sustainable development, scenarios of sustainable development.

## Finance

1. **Basics of the theory of finance.** The evolution of the essence of finance. The concept and functions of finance. The structure and content of the financial system. Financial resources and their composition. The financial mechanism. Financial management. Financial policy.

2. **Budget and budgetary system.** The nature, functions and features of the budgetary system. Budgetary structure of the state. Content and principles of developing the budgetary

system of a state. Budget classification. Budget balance. Inter-budgetary relations. The budget process. The content and forms of public debt. Management of the net borrowing of a nation.

3. **Taxes and tax system.** Tax theories. Taxes: the concept, functions, and classification. Principles of taxation. The tax system: structure and content. Peculiarities of tax payments of the Russian Federation. Procedures for the fulfillment of tax obligations by taxpayers. Tax management at the macro-, meso-, and micro-levels. Tax policy.

4. **Financial markets and institutions.** Financial intermediation and financial intermediaries. Financial markets and their types. Financial markets regulation. Financial calculations. The peculiarities of the formation of the financial markets in the modern conditions.

5. **Finances of business entities.** The essence and functions of enterprise finance. The structure of the financial management system of enterprises. Financial resources of the enterprise. Sources of financing of an enterprise. Income and expenses, profit of enterprises. Money turnover and settlement system at an enterprise. Finance of commercial and non-profit enterprises. Banking and finance activities. Insurance activities.

6. **Household finances.** The essence and functions of household finances. Household finance planning. Household budget. Government regulation of household finances. Sources of income and directions of spending of the population.

7. **International finance.** The content and principles of the organization of international finance. Global public financial organizations and their functions. Globalization of the world financial markets. Peculiarities of the functioning of national financial systems. Currency restrictions and controls.

### **Mathematical, statistical and instrumental methods in economics**

1. **The nature of econometrics and economic data.** Characteristics of economic data. Types of variables. Stages of econometric research. The concept of qualitative variables. Qualitative independent variables and their use in modeling. Coefficients for qualitative independent variables. The concept of simple regression.

2. **The basic concepts of statistical and regression analysis.** Main statistical indicators: mathematical expectation, variance, covariance. Variance and correlation analysis. Testing the significance of the model (F-criterion), testing the significance of the coefficients in the model (t-criterion).  $R^2$ . Confidence intervals.

3. **Multiple regression model.** The properties of the estimators. CLR model. The concept of an estimator in econometrics. The concept of the method of least squares. The main provisions of the CLR model (Gauss-Markov theorem) and the consequences of violations of the provisions.

4. **Violation of the provisions of the CLR model.** Causes and consequences of violation of the first provision of the CLR model: incorrect choice of regressors, nonlinearity, variability of model parameters. The causes and consequences of multicollinearity and non-zero expectation of model residuals. The concept of homo/heteroscedasticity of residues. Homo/heteroscedasticity tests. The concept of autocorrelation of residues. The concept of endogeneity. Examples of endogeneity. The concept of outliers in a model.

5. **Optimization methods.** The essence of optimization methods and tasks. The main classes of optimization problems in economics. Numerical optimization methods. Network planning. Multi-criteria optimization.

6. **Input-output analysis models.** Basic concepts of input and output analysis. Leontiev's intersectoral balance. DEA analysis.

7. **Theory of sets.** The concept of a set. Set operations. Properties of operations. Fuzzy sets. The algebra of fuzzy sets. Geometric interpretation. Fuzzy logic.

## 4. Recommended references

### 4.1. Reading list

#### Economic theory

Sources in English	Topic
<ol style="list-style-type: none"> <li>Principles of Microeconomics 3e, Steven A. Greenlaw, University of Mary Washington, David Shapiro, Pennsylvania State University, Daniel Macdonald, California State University, San Bernadino. 2022 Rice University. URL: <a href="#">Preface - Principles of Microeconomics 3e   OpenStax</a> (free access)</li> <li>Principles of Microeconomics by I. Irvine and D. Curtis. Lyryx Learning Inc. 2021. URL: <a href="#">Principles of Microeconomics - Lyryx</a> (free access)</li> <li>Microeconomics, 9th Edition, by Robert Pindyck and Daniel Rubinfeld. Pearson Education. 2018. URL:<a href="http://lms.aambc.edu.et:8080/xmlui/bitstream/handle/123456789/182/Microeconomics%20(%20PDFDrive%20).pdf?sequence=1">http://lms.aambc.edu.et:8080/xmlui/bitstream/handle/123456789/182/Microeconomics%20(%20PDFDrive%20).pdf?sequence=1</a> (free access)</li> <li>Cowell F. A. Microeconomics: principles and analysis. – Oxford University Press, 2018. URL:<a href="#">Cowell F.A. Microeconomics (LSE, 2004)(O)(668s)_GC_.pdf</a> (globalcollege.edu.et) (free access)</li> </ol>	The theory of consumer choice and demand
<ol style="list-style-type: none"> <li>Principles of Microeconomics 3e, Steven A. Greenlaw, University of Mary Washington, David Shapiro, Pennsylvania State University, Daniel Macdonald, California State University, San Bernadino. 2022 Rice University. URL: <a href="#">Preface - Principles of Microeconomics 3e   OpenStax</a> (free access)</li> <li>Principles of Microeconomics by I. Irvine and D. Curtis. Lyryx Learning Inc. 2021. URL: <a href="#">Principles of Microeconomics - Lyryx</a> (free access)</li> <li>Microeconomics, 9th Edition, by Robert Pindyck and Daniel Rubinfeld. Pearson Education. 2018. URL:<a href="http://lms.aambc.edu.et:8080/xmlui/bitstream/handle/123456789/182/Microeconomics%20(%20PDFDrive%20).pdf?sequence=1">http://lms.aambc.edu.et:8080/xmlui/bitstream/handle/123456789/182/Microeconomics%20(%20PDFDrive%20).pdf?sequence=1</a> (free access)</li> <li>Cowell F. A. Microeconomics: principles and analysis. – Oxford University Press, 2018. URL:<a href="#">Cowell F.A. Microeconomics (LSE, 2004)(O)(668s)_GC_.pdf</a> (globalcollege.edu.et) (free access)</li> </ol>	Theory of production and cost
<ol style="list-style-type: none"> <li>Principles of Microeconomics 3e, Steven A. Greenlaw, University of Mary Washington, David Shapiro, Pennsylvania State University,</li> </ol>	Markets of goods

<p>Daniel Macdonald, California State University, San Bernadino. 2022 Rice University. URL: <a href="#">Preface - Principles of Microeconomics 3e   OpenStax</a> (free access)</p> <p>2. Principles of Microeconomics by I. Irvine and D. Curtis. Lyryx Learning Inc. 2021. URL: <a href="#">Principles of Microeconomics - Lyryx</a> (free access)</p> <p>3. Microeconomics, 9th Edition, by Robert Pindyck and Daniel Rubinfeld. Pearson Education. 2018. URL:<a href="http://lms.aambc.edu.et:8080/xmlui/bitstream/handle/123456789/182/Microeconomics%20(%20PDFDrive%20).pdf?sequence=1">http://lms.aambc.edu.et:8080/xmlui/bitstream/handle/123456789/182/Microeconomics%20(%20PDFDrive%20).pdf?sequence=1</a> (free access)</p> <p>4. Cowell F. A. Microeconomics: principles and analysis. – Oxford University Press, 2018. URL:<a href="#">Cowell F.A. Microeconomics (LSE, 2004)(O)(668s) GC .pdf (globalcollege.edu.et)</a> (free access)</p>	
<p>1. Blanchard O. Macroeconomics. 6th ed. Pearson. 2016. 622 p. URL: <a href="https://vowi.fsinf.at/images/3/3b/Macroeconomics_%286th_Edition%29_-_Blanchard%2C_Olivier.pdf">https://vowi.fsinf.at/images/3/3b/Macroeconomics_%286th_Edition%29_-_Blanchard%2C_Olivier.pdf</a> (free access)</p> <p>2. Mankiw G. Macroeconomics. Harvard University. 2019. 719 p. URL: <a href="https://www.sea-stat.com/wp-content/uploads/2020/08/N.-Gregory-Mankiw-Macroeconomics-Macmillan-Higher-Education-2019-1.pdf">https://www.sea-stat.com/wp-content/uploads/2020/08/N.-Gregory-Mankiw-Macroeconomics-Macmillan-Higher-Education-2019-1.pdf</a>(free access)</p> <p>3. McConnell, Campbell R. Economics: principles, problems, and policies / Campbell R. McConnell, Stanley L. Brue, Sean M. Flynn. 18th ed. p. cm. The McGraw-Hill series in economics, 2009. 917 p. URL: <a href="https://faculty.ksu.edu.sa/sites/default/files/eb_mcconnell_econ.18e.pdf">https://faculty.ksu.edu.sa/sites/default/files/eb_mcconnell_econ.18e.pdf</a> (free access)</p>	Macroeconomic indicators and methods of their evaluation
<p>1. Blanchard O. Macroeconomics. 6th ed. Pearson. 2016. 622 p. URL: <a href="https://vowi.fsinf.at/images/3/3b/Macroeconomics_%286th_Edition%29_-_Blanchard%2C_Olivier.pdf">https://vowi.fsinf.at/images/3/3b/Macroeconomics_%286th_Edition%29_-_Blanchard%2C_Olivier.pdf</a> (free access)</p> <p>2. Mankiw G. Macroeconomics. Harvard University. 2019. 719 p. URL: <a href="https://www.sea-stat.com/wp-content/uploads/2020/08/N.-Gregory-Mankiw-Macroeconomics-Macmillan-Higher-Education-2019-1.pdf">https://www.sea-stat.com/wp-content/uploads/2020/08/N.-Gregory-Mankiw-Macroeconomics-Macmillan-Higher-Education-2019-1.pdf</a>(free access)</p> <p>3. McConnell, Campbell R. Economics: principles, problems, and policies / Campbell R. McConnell, Stanley L. Brue, Sean M. Flynn. 18th ed. p. cm. The McGraw-Hill series in economics, 2009. 917 p. URL: <a href="https://faculty.ksu.edu.sa/sites/default/files/eb_mcconnell_econ.18e.pdf">https://faculty.ksu.edu.sa/sites/default/files/eb_mcconnell_econ.18e.pdf</a> (free access)</p>	Macroeconomic equilibrium modeling
<p>1. Blanchard O. Macroeconomics. 6th ed. Pearson. 2016. 622 p. URL: <a href="https://vowi.fsinf.at/images/3/3b/Macroeconomics_%286th_Edition%29_-_Blanchard%2C_Olivier.pdf">https://vowi.fsinf.at/images/3/3b/Macroeconomics_%286th_Edition%29_-_Blanchard%2C_Olivier.pdf</a> (free access)</p> <p>2. Mankiw G. Macroeconomics. Harvard University. 2019. 719 p.</p>	Instruments of state economic policy

<p>URL: <a href="https://www.sea-stat.com/wp-content/uploads/2020/08/N.-Gregory-Mankiw-Macroeconomics-Macmillan-Higher-Education-2019-1.pdf">https://www.sea-stat.com/wp-content/uploads/2020/08/N.-Gregory-Mankiw-Macroeconomics-Macmillan-Higher-Education-2019-1.pdf</a>(free access)</p> <p>3. McConnell, Campbell R. Economics: principles, problems, and policies / Campbell R. McConnell, Stanley L. Brue, Sean M. Flynn. 18th ed. p. cm. The McGraw-Hill series in economics, 2009. 917 p. URL: <a href="https://faculty.ksu.edu.sa/sites/default/files/eb_mccconnell_econ.18e.pdf">https://faculty.ksu.edu.sa/sites/default/files/eb_mccconnell_econ.18e.pdf</a> (free access)</p>	
<p>1. Blanchard O. Macroeconomics. 6th ed. Pearson. 2016. 622 p. URL: <a href="https://vowi.fsinf.at/images/3/3b/Macroeconomics_%286th_Edition%29_-_Blanchard%2C_Olivier.pdf">https://vowi.fsinf.at/images/3/3b/Macroeconomics_%286th_Edition%29_-_Blanchard%2C_Olivier.pdf</a> (free access)</p> <p>2. Mankiw G. Macroeconomics. Harvard University. 2019. 719 p. URL: <a href="https://www.sea-stat.com/wp-content/uploads/2020/08/N.-Gregory-Mankiw-Macroeconomics-Macmillan-Higher-Education-2019-1.pdf">https://www.sea-stat.com/wp-content/uploads/2020/08/N.-Gregory-Mankiw-Macroeconomics-Macmillan-Higher-Education-2019-1.pdf</a>(free access)</p> <p>3. McConnell, Campbell R. Economics: principles, problems, and policies / Campbell R. McConnell, Stanley L. Brue, Sean M. Flynn. 18th ed. p. cm. The McGraw-Hill series in economics, 2009. 917 p. URL: <a href="https://faculty.ksu.edu.sa/sites/default/files/eb_mccconnell_econ.18e.pdf">https://faculty.ksu.edu.sa/sites/default/files/eb_mccconnell_econ.18e.pdf</a> (free access)</p>	Macroeconomic dynamics

Sources in Russian	Topic
<p>1. Гальперин В.М. Микроэкономика: учебник для вузов в 3-х томах / В.М. Гальперин, С.М. Игнатьев, В.И. Моргунов. М.: Омега-Л, 2010. URL: <a href="http://microeconomica.economicus.ru">http://microeconomica.economicus.ru</a> (free access)</p> <p>2. Тарасевич Л.С. Микроэкономика: учебник для вузов по экон. специальностям / Л. С. Тарасевич, П. И. Гребенников, А. И. Леусский; Санкт-Петербургский государственный университет экономики и финансов. М.: Юрайт, 2011. URL: <a href="https://economicus.ru/site/grebennikov/E_Micro/index.html">https://economicus.ru/site/grebennikov/E_Micro/index.html</a> (free access)</p> <p>3. Иванова Е.А., Богданова Т.А. Экономическая теория. Микроэкономика. Ч. 1, 2, 2013. СПбПУ. URL: <a href="http://elibrary.spbstu.ru/dl/2/2923.pdf">http://elibrary.spbstu.ru/dl/2/2923.pdf</a></p>	The theory of consumer choice and demand
<p>1. Гальперин В.М. Микроэкономика: учебник для вузов в 3-х томах / В.М. Гальперин, С.М. Игнатьев, В.И. Моргунов. М.: Омега-Л, 2010. URL: <a href="http://microeconomica.economicus.ru">http://microeconomica.economicus.ru</a> (free access)</p> <p>2. Тарасевич Л.С. Микроэкономика: учебник для вузов по экон. специальностям / Л. С. Тарасевич, П. И. Гребенников, А. И. Леусский; Санкт-Петербургский государственный университет</p>	Theory of production and cost

<p>экономики и финансов. М.: Юрайт, 2011. URL: <a href="https://economicus.ru/site/grebenikov/E_Micro/index.html">https://economicus.ru/site/grebenikov/E_Micro/index.html</a> (free access)</p> <p>3. Иванова Е.А., Богданова Т.А. Экономическая теория. Микроэкономика. Ч. 1, 2, 2013. СПбПУ. URL: <a href="http://elib.spbstu.ru/dl/2/2923.pdf">http://elib.spbstu.ru/dl/2/2923.pdf</a></p>	
<p>1. Гальперин В.М. Микроэкономика: учебник для вузов в 3-х томах / В.М. Гальперин, С.М. Игнатъев, В.И. Моргунов. М.: Омега-Л, 2010. URL: <a href="http://microeconomica.economicus.ru">http://microeconomica.economicus.ru</a> (free access)</p> <p>2. Тарасевич Л.С. Микроэкономика: учебник для вузов по экон. специальностям / Л. С. Тарасевич, П. И. Гребенников, А. И. Леусский; Санкт-Петербургский государственный университет экономики и финансов. М.: Юрайт, 2011. URL: <a href="https://economicus.ru/site/grebenikov/E_Micro/index.html">https://economicus.ru/site/grebenikov/E_Micro/index.html</a> (free access)</p> <p>3. Иванова Е.А., Богданова Т.А. Экономическая теория. Микроэкономика. Ч. 1, 2, 2013. СПбПУ. URL: <a href="http://elib.spbstu.ru/dl/2/2923.pdf">http://elib.spbstu.ru/dl/2/2923.pdf</a></p>	Markets of goods
<p>1. Бланшар О. Макроэкономика. М.: Изд. дом НИУ ВШЭ, 2015. 672 с. URL:// <a href="https://vse-uchebniki.ru/makroekonomika/olive-blanshar-makroekonomika/">https://vse-uchebniki.ru/makroekonomika/olive-blanshar-makroekonomika/</a>(free access)</p> <p>2. Макроэкономика. Теория и практика: учебник для бакалавров / Л. С. Тарасевич, П. И. Гребенников, А. И. Леусский. 10-е изд., перераб. и доп. М.: Издательство Юрайт, 2014. 686 с. Серия: Бакалавр. Углубленный курс. URL: <a href="https://urss.ru/PDF/add_ru/184402-1.pdf">https://urss.ru/PDF/add_ru/184402-1.pdf</a> free access)</p> <p>3. Дорнбуш Р., Фишер С. Макроэкономика. М.: ИНФРА-М. 784 с. URL:// <a href="https://vse-uchebniki.ru/makroekonomika/dornbush-r-makroekonomika/">https://vse-uchebniki.ru/makroekonomika/dornbush-r-makroekonomika/</a>(free access)</p>	Macroeconomic indicators and methods of their evaluation
<p>1. Бланшар О. Макроэкономика. М.: Изд. дом НИУ ВШЭ, 2015. 672 с. URL:// <a href="https://vse-uchebniki.ru/makroekonomika/olive-blanshar-makroekonomika/">https://vse-uchebniki.ru/makroekonomika/olive-blanshar-makroekonomika/</a>(free access)</p> <p>2. Макроэкономика. Теория и практика: учебник для бакалавров / Л. С. Тарасевич, П. И. Гребенников, А. И. Леусский. 10-е изд., перераб. и доп. М.: Издательство Юрайт, 2014. 686 с. Серия: Бакалавр. Углубленный курс. URL: <a href="https://urss.ru/PDF/add_ru/184402-1.pdf">https://urss.ru/PDF/add_ru/184402-1.pdf</a> free access)</p> <p>3. Дорнбуш Р., Фишер С. Макроэкономика. М.: ИНФРА-М. 784 с. URL:// <a href="https://vse-uchebniki.ru/makroekonomika/dornbush-r-makroekonomika/">https://vse-uchebniki.ru/makroekonomika/dornbush-r-makroekonomika/</a>(free access)</p>	Macroeconomic equilibrium modeling
<p>1. Бланшар О. Макроэкономика. М.: Изд. дом НИУ ВШЭ, 2015. 672 с. URL:// <a href="https://vse-uchebniki.ru/makroekonomika/olive-blanshar-makroekonomika/">https://vse-uchebniki.ru/makroekonomika/olive-blanshar-makroekonomika/</a>(free access)</p>	Instruments of state economic policy



<p>2. Макроэкономика. Теория и практика: учебник для бакалавров / Л. С. Тарасевич, П. И. Гребенников, А. И. Леусский. 10-е изд., перераб. и доп. М.: Издательство Юрайт, 2014. 686 с. Серия: Бакалавр. Углубленный курс. URL: <a href="https://urss.ru/PDF/add_ru/184402-1.pdf">https://urss.ru/PDF/add_ru/184402-1.pdf</a> free access)</p> <p>3. Дорнбуш Р., Фишер С. Макроэкономика. М.: ИНФРА-М. 784 с. URL:// <a href="https://vse-uchebniki.ru/makroekonomika/dornbush-r-makroekonomika/">https://vse-uchebniki.ru/makroekonomika/dornbush-r-makroekonomika/</a>(free access)</p>	
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<p>политехнический университет Петра Великого", 2018. 344 с. URL: <a href="https://www.elibrary.ru/item.asp?id=37071895">https://www.elibrary.ru/item.asp?id=37071895</a> (free access)</p> <p>3. Финансы: учебник и практикум для вузов / Н. И. Берзон [и др.]; под общей редакцией Н. И. Берзона. 4-е изд., перераб. и доп. М.: Издательство Юрайт, 2024. 541 с. URL: <a href="https://urait.ru/book/finansy-535559">https://urait.ru/book/finansy-535559</a> (fee-paying course)</p>	
<p>1. Ковалев В.В. Финансы: учебник. М.: Проспект, 2007. 610 с. URL: <a href="http://ijevanlib.ysu.am/wp-content/uploads/2018/01/002-%D0%A4%D0%B8%D0%BD%D0%B0%D0%BD%D1%81%D1%8B_%D0%BF%D0%BE%D0%B4-%D1%80%D0%B5%D0%B4-%D0%9A%D0%BE%D0%B2%D0%B0%D0%BB%D0%B5%D0%B2%D0%B0-%D0%92.%D0%92_%D0%A3%D1%87%D0%B5%D0%B1%D0%BD%D0%B8%D0%BA_2007-2-%D0%B5-%D0%B8%D0%B7%D0%B4-640%D1%81.pdf">http://ijevanlib.ysu.am/wp-content/uploads/2018/01/002-%D0%A4%D0%B8%D0%BD%D0%B0%D0%BD%D1%81%D1%8B_%D0%BF%D0%BE%D0%B4-%D1%80%D0%B5%D0%B4-%D0%9A%D0%BE%D0%B2%D0%B0%D0%BB%D0%B5%D0%B2%D0%B0-%D0%92.%D0%92_%D0%A3%D1%87%D0%B5%D0%B1%D0%BD%D0%B8%D0%BA_2007-2-%D0%B5-%D0%B8%D0%B7%D0%B4-640%D1%81.pdf</a> (free access)</p> <p>2. Финансы и кредит / Н. Л. Гончарова, И. Н. Люкевич, Д. Г. Родионов [и др.]/ Санкт-Петербург: Федеральное государственное автономное образовательное учреждение высшего образования "Санкт-Петербургский политехнический университет Петра Великого", 2018. 344 с. URL: <a href="https://www.elibrary.ru/item.asp?id=37071895">https://www.elibrary.ru/item.asp?id=37071895</a> (free access)</p> <p>3. Финансы: учебник и практикум для вузов / Н. И. Берзон [и др.]; под общей редакцией Н. И. Берзона. 4-е изд., перераб. и доп. М.: Издательство Юрайт, 2024. 541 с. URL: <a href="https://urait.ru/book/finansy-535559">https://urait.ru/book/finansy-535559</a> (fee-paying course)</p>	Financial markets and institutions
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### Mathematical, statistical and instrumental methods in economics

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<ol style="list-style-type: none"> <li>Verbeek, Marno. A guide to modern econometrics. 2nd ed. Erasmus University Rotterdam. 449 p. URL:// <a href="https://thenigerianprofessionalaccountant.wordpress.com/wp-content/uploads/2013/04/modern-econometrics.pdf">https://thenigerianprofessionalaccountant.wordpress.com/wp-content/uploads/2013/04/modern-econometrics.pdf</a> (free access)</li> <li>Wooldridge Jeffrey M. Introductory Econometrics: A Modern Approach, 4-th Edition. Michigan State University. 2009. 896 p. URL:// <a href="#">Introductory econometrics : a modern approach : Wooldridge, Jeffrey M., 1960- : Free Download, Borrow, and Streaming : Internet Archive</a> (limited access)</li> </ol>	The basic concepts of statistical and regression analysis
<ol style="list-style-type: none"> <li>Verbeek, Marno. A guide to modern econometrics. 2nd ed. Erasmus University Rotterdam. 449 p. URL:// <a href="https://thenigerianprofessionalaccountant.wordpress.com/wp-content/uploads/2013/04/modern-econometrics.pdf">https://thenigerianprofessionalaccountant.wordpress.com/wp-content/uploads/2013/04/modern-econometrics.pdf</a> (free access)</li> <li>Wooldridge Jeffrey M. Introductory Econometrics: A Modern Approach, 4-th Edition. Michigan State University. 2009. 896 p. URL:// <a href="#">Introductory econometrics : a modern approach : Wooldridge, Jeffrey M., 1960- : Free Download, Borrow, and Streaming : Internet Archive</a> (limited access)</li> </ol>	Multiple regression model
<ol style="list-style-type: none"> <li>Verbeek, Marno. A guide to modern econometrics. 2nd ed. Erasmus University Rotterdam. 449 p. URL:// <a href="https://thenigerianprofessionalaccountant.wordpress.com/wp-content/uploads/2013/04/modern-econometrics.pdf">https://thenigerianprofessionalaccountant.wordpress.com/wp-content/uploads/2013/04/modern-econometrics.pdf</a> (free access)</li> <li>Wooldridge Jeffrey M. Introductory Econometrics: A Modern Approach, 4-th Edition. Michigan State University. 2009. 896 p. URL:// <a href="#">Introductory econometrics : a modern approach : Wooldridge, Jeffrey M., 1960- : Free Download, Borrow, and Streaming : Internet Archive</a> (limited access)</li> </ol>	Violation of the provisions of the CLR model
<ol style="list-style-type: none"> <li>MATHEMATICAL METHODS FOR ECONOMICS-I School of</li> </ol>	Optimization

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<p>1. MATHEMATICS FOR ECONOMISTS Lovely Professional University, 2014 URL:<a href="https://ncjindalps.com/pdf/MATHEMATICS/MATHEMATICS%20FOR%20ECONOMISTS%20-%20LPU.pdf">https://ncjindalps.com/pdf/MATHEMATICS/MATHEMATICS%20FOR%20ECONOMISTS%20-%20LPU.pdf</a></p> <p>2. Michael Hoy, John Livernois, Chris McKenna, Ray Rees and Thanasis Stengos Mathematics for Economics, Fourth Edition. The MIT Press, 2022. URL:<a href="https://kandankilmu.org/wp-content/uploads/2017/06/mathematics-michael-hoy-1.pdf">https://kandankilmu.org/wp-content/uploads/2017/06/mathematics-michael-hoy-1.pdf</a></p>	Input-output analysis models
<p>1. MATHEMATICAL METHODS FOR ECONOMICS-I School of Social Sciences Indira Gandhi National Open University, 2019 URL:<a href="https://egyankosh.ac.in/bitstream/123456789/67556/2/BLOCK%201.pdf">https://egyankosh.ac.in/bitstream/123456789/67556/2/BLOCK%201.pdf</a></p> <p>2. Michael Hoy, John Livernois, Chris McKenna, Ray Rees and Thanasis Stengos Mathematics for Economics, Fourth Edition. The MIT Press, 2022. URL:<a href="https://kandankilmu.org/wp-content/uploads/2017/06/mathematics-michael-hoy-1.pdf">https://kandankilmu.org/wp-content/uploads/2017/06/mathematics-michael-hoy-1.pdf</a></p>	Theory of sets

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<p>1. Кеннеди П. Путеводитель по эконометрике. М.: Издательский дом «Дело» РАНХиГС, 2016. 528 с. (Академический учебник). URL:<a href="https://new.znaniium.com/catalog/product/1043270">https://new.znaniium.com/catalog/product/1043270</a> (limited access)</p> <p>2. Кеннеди П. Путеводитель по эконометрике. М.: Издательский дом «Дело» РАНХиГС, 2016. 512 с. (Академический учебник). URL:<a href="https://new.znaniium.com/catalog/product/1043268">https://new.znaniium.com/catalog/product/1043268</a> (limited access)</p>	The basic concepts of statistical and regression analysis



access)	
<p>1. Кеннеди П. Путеводитель по эконометрике. М.: Издательский дом «Дело» РАНХиГС, 2016. 528 с. (Академический учебник). URL: <a href="https://new.znaniium.com/catalog/product/1043270">https://new.znaniium.com/catalog/product/1043270</a> (limited access)</p> <p>2. Кеннеди П. Путеводитель по эконометрике. М.: Издательский дом «Дело» РАНХиГС, 2016. 512 с. (Академический учебник). URL: <a href="https://new.znaniium.com/catalog/product/1043268">https://new.znaniium.com/catalog/product/1043268</a> (limited access)</p>	Multiple regression model
<p>1. Кеннеди П. Путеводитель по эконометрике. М.: Издательский дом «Дело» РАНХиГС, 2016. 528 с. (Академический учебник). URL: <a href="https://new.znaniium.com/catalog/product/1043270">https://new.znaniium.com/catalog/product/1043270</a> (limited access)</p> <p>2. Кеннеди П. Путеводитель по эконометрике. М.: Издательский дом «Дело» РАНХиГС, 2016. 512 с. (Академический учебник). URL: <a href="https://new.znaniium.com/catalog/product/1043268">https://new.znaniium.com/catalog/product/1043268</a> (limited access)</p>	Violation of the provisions of the CLR model
<p>1. Замков О.О., Толстопятенко А.В., Черемных Ю.Н. Математические методы в экономике: Учебник. 3-е изд. М.: МГУ им. М.В. Ломоносова, Издательство «Дело и Сервис», 2001. 369 с. URL: <a href="#">Математические методы в экономике - Черемных Ю.Н., Замков О.О., Толстопятенко А.В. - 2001 (djvu.online)</a> (free access)</p>	Optimization methods
<p>1. Замков О.О., Толстопятенко А.В., Черемных Ю.Н. Математические методы в экономике: Учебник. 3-е изд. М.: МГУ им. М.В. Ломоносова, Издательство «Дело и Сервис», 2001. 369 с. URL: <a href="#">Математические методы в экономике - Черемных Ю.Н., Замков О.О., Толстопятенко А.В. - 2001 (djvu.online)</a> (free access)</p>	Input-output analysis models
<p>1. Замков О.О., Толстопятенко А.В., Черемных Ю.Н. Математические методы в экономике: Учебник. 3-е изд. М.: МГУ им. М.В. Ломоносова, Издательство «Дело и Сервис», 2001. 369 с. URL: <a href="#">Математические методы в экономике - Черемных Ю.Н., Замков О.О., Толстопятенко А.В. - 2001 (djvu.online)</a> (free access)</p>	Theory of sets

#### 4.2. Recommended online courses

##### Economic theory

Online courses in English	Link	Summary

Microeconomics: The Power of Markets	<a href="https://www.coursera.org/learn/microeconomics-part1#syllabus">https://www.coursera.org/learn/microeconomics-part1#syllabus</a>	<p>This course is an introduction to the microeconomic theory of markets.</p> <p>Module 1. The understanding of the constraint and the concept of opportunity cost.</p> <p>Module 2. Specialization and trade. The concept of comparative advantage. Benefits of specialization and efficient use of resources. The production capability boundary.</p> <p>Module 3. Supply and demand. Model of Supply &amp; Demand. Market equilibrium and the equilibrium price.</p> <p>Module 4. The concept of elasticity of demand. The relationship between price change and revenue or sales. Cross-price elasticity, income elasticity, and elasticity of supply.</p> <p>Module 5. Government regulation of the market. Minimum and maximum prices, taxes, and subsidies.</p>
Firm Level Economics: Consumer and Producer Behavior	<a href="https://www.coursera.org/learn/firm-level-economics#syllabus">https://www.coursera.org/learn/firm-level-economics#syllabus</a>	<p>In this course you will learn:</p> <ul style="list-style-type: none"> <li>- Behavioral patterns of consumers and producers.</li> <li>- Definition and effects of equilibrium and explain the effects of taxes and price controls on market equilibrium.</li> <li>- How the elasticity of demand works.</li> <li>- Ways of describing cost theory and how firms optimize their operations under price constraints and external factors' pressure.</li> </ul> <p>Module 1. Scarcity, Distribution and Markets.  Module 2. Government Intervention in Markets.  Module 3. Firms, Production and Costs.  Module 4. Firm Behavior  Profit maximization as a goal of the firm.</p>
Macroeconomics – The Basics	<a href="https://www.edx.org/course/macroeconomics-literacy?index=product&amp;queryID=47d9260cb1bf9ebd0fb92c8bea7f86334&amp;position=4">https://www.edx.org/course/macroeconomics-literacy?index=product&amp;queryID=47d9260cb1bf9ebd0fb92c8bea7f86334&amp;position=4</a>	<p>Students who successfully complete this course will be able to understand and use basic economic concepts, interpret basic macroeconomic statistics, explain how monetary and fiscal policy can be used to stabilise the economy, and understand macroeconomic problems.</p>

Fundamentals of Macroeconomics	<a href="https://www.edx.org/course/fundamentals-of-macroeconomics?index=product&amp;queryID=47d9260cb1bfebd0fb92c8bea7f86334&amp;position=2">https://www.edx.org/course/fundamentals-of-macroeconomics?index=product&amp;queryID=47d9260cb1bfebd0fb92c8bea7f86334&amp;position=2</a>	<p>This course will give you a comprehensive view of everything economists know about markets: their strengths, their failures, and how this view can help you understand the most important economic problems.</p> <p>What you'll learn:</p> <ul style="list-style-type: none"> <li>- GDP, its meaning, measurement and components;</li> <li>- The main labour market indicators and the nature of unemployment;</li> <li>- Savings, investment and the financial system</li> <li>- The monetary and banking system</li> <li>- Central banks, monetary policy and inflation</li> <li>- International trade, capital flows and exchange rates</li> <li>- Business cycle fluctuations</li> <li>- Fiscal and monetary policy</li> </ul>
<b>Online courses in Russian</b>	<b>Link</b>	<b>Summary</b>
Микроэкономика: промежуточный уровень (Microeconomics: intermediate level)	<a href="https://openedu.ru/course/hse/MICREC/?session=2022">https://openedu.ru/course/hse/MICREC/?session=2022</a>	<p>The aim of the course is to introduce students to the basic principles of microeconomic analysis. The course examines how the problem of individual choice is solved, how the market mechanism works, the efficient allocation of available resources, and whether the market leads to an efficient distribution of benefits.</p> <p>Content:</p> <ol style="list-style-type: none"> <li>1. Theory of consumer behavior</li> <li>2. Peer-to-peer economy</li> <li>3. Choice in the face of uncertainty</li> <li>4. Theory of producer behavior</li> <li>5. Economy and production</li> </ol>
Микроэкономика: промежуточный уровень (часть 2) (Microeconomics: intermediate level (part 2))	<a href="https://openedu.ru/course/hse/MICREC_2/?session=2022">https://openedu.ru/course/hse/MICREC_2/?session=2022</a>	<p>The purpose of the course is to introduce students to the basic principles of microeconomic analysis. The course examines how the market mechanism works, how to effectively allocate available resources, what consequences government intervention in the functioning of the market mechanism has.</p> <p>Content:</p> <ol style="list-style-type: none"> <li>1. Perfect competition (partial equilibrium in a competitive market)</li> <li>2. Monopoly</li> <li>3. Price discrimination</li> <li>4. Oligopoly</li> </ol>

		<p>5. An economy with a public good</p> <p>6. An economy with externalities</p> <p>7. Asymmetric information</p>
<p>Макроэкономика (Macroeconomics)</p>	<p><a href="https://openedu.ru/course/hse/MACREC/?session=2023">https://openedu.ru/course/hse/MACREC/?session=2023</a></p>	<p>The purpose of the course is to familiarize students with the basic concepts of macroeconomics, as well as models and principles that are used in analyzing the current state of the economy of a particular country.</p> <p>Content:</p> <ul style="list-style-type: none"> <li>- Introduction to macroeconomics, the history of macroeconomic thought;</li> <li>- The system of national accounts: GDP, unemployment, inflation;</li> <li>- Labor market balance and capital market balance;</li> <li>- General equilibrium</li> <li>- Economic growth</li> <li>- International macroeconomics: trade, capital flows, exchange rates</li> <li>- Financial markets</li> <li>- Money market and inflation</li> <li>- Deviations from equilibrium and the economic cycle</li> <li>- Stabilization policy: monetary and budgetary</li> </ul> <p>Macroeconomic policy in developing countries and currency crises</p>
<p>Механизмы макроэкономической динамики (Macroeconomic dynamics mechanisms)</p>	<p><a href="https://openedu.ru/course/spbstu/MACROECON/?session=fall_2024">https://openedu.ru/course/spbstu/MACROECON/?session=fall_2024</a></p>	<p>The course examines the main theories of the functioning of open economic systems; modern methods and techniques of macroeconomic research and calculations in the field of macroeconomic dynamics; the role of the state and the market in the adaptation of open economic systems to the equilibrium state; theoretical and practical aspects of the distribution of national income as one of the factors of growth of prosperity.</p> <p>Content:</p> <ol style="list-style-type: none"> <li>1. The genesis and methodology of macroeconomic theory</li> <li>2. Modeling macroeconomic equilibrium in an open economy</li> <li>3. Modeling macroeconomic dynamics</li> <li>4. Macroeconomic policy in an open economy</li> </ol>

### Regional and sectoral economy

Online courses in English	Link	Summary
Economic Geography of the Industrial World: A Free Course from UC Berkeley	<a href="https://www.openculture.com/economic-geography-of-the-industrial-world-a-free-course-from-uc-berkeley">https://www.openculture.com/economic-geography-of-the-industrial-world-a-free-course-from-uc-berkeley</a>	Taught by Professor Richard A. Walker at UC Berkeley, this course, Economic Geography of the Industrial World, covers the following topics: Industrialization, urbanization, and economic growth in the global North. Locational patterns in manufacturing, retailing trade, and finance.
Financial analysis	<a href="https://stepik.org/course/65136/promo?search=4725001218">https://stepik.org/course/65136/promo?search=4725001218</a>	The purpose of the discipline "Financial analysis" is the development of students of theoretical and methodological foundations of analysis, which is the most important function of management of organizations engaged in economic activity in various sectors of the economy, the acquisition of skills in the use of methods of financial analysis and their application to justify options for operational and strategic management decisions in various areas of production, economic, financial, investment and innovation, ensuring the growth of the market value of the business.
Corporate Finance	<a href="https://elearning.hse.ru/moocs/corporate-finance-ba">https://elearning.hse.ru/moocs/corporate-finance-ba</a>	You will gain insight into both theoretical and practical aspects of Corporate Finance, including the financing and capital structure of the organization, its life-cycle stage, and payout policy decisions. You will learn about the dilemmas of executives and shareholders and such recent trends as knowledge firms and zero debt capital structure. Simultaneously you will solve tasks designed specifically so you could perform a step-by-step analysis of a company's performance.
Online courses in Russian	Link	Summary

Российская экономика: отрасли и регионы (часть 2) (Russian economy: sectors and regions (part 2))	<a href="https://openedu.ru/course/hse/RUSSEC_1_1/?session=2022">https://openedu.ru/course/hse/RUSSEC_1_1/?session=2022</a>	The online course is aimed at developing of understanding transformation processes of the Russian economy, and how they are interconnected. As a result, students will know the quantitative and ranking relationships for Russia and other countries of the world according to indicators of economic activity. Course program: <ul style="list-style-type: none"> <li>• structure of the Russian economy,</li> <li>• Russian regions, regional and housing policy.</li> </ul>
Экономика предприятия Часть 1 (Business economics)	<a href="https://openedu.ru/course/spbstu/ECOMAN1/">https://openedu.ru/course/spbstu/ECOMAN1/</a>	The online course introduces the theory and practice of the functioning of a company as one of the important elements of the industry in the conditions of the modern market. The general structure of the online course includes the following sections: <ul style="list-style-type: none"> <li>• introduction to the economy of an enterprise, legal and structural framework for company operations;</li> <li>• resources of an enterprise;</li> <li>• income, profit and profitability of activities;</li> </ul> fundamentals of enterprise management.
Экономика предприятия и организаций (Business and enterprise economy)	<a href="https://stepik.org/course/125027/promo">https://stepik.org/course/125027/promo</a>	The online course contains materials describing the functioning of a company, methods and techniques for analyzing and forecasting its activities. The structure of the online course: - Fixed assets of an organization - Current assets and working capital - Labor resources of a company - Costs of an enterprise - Profit and profitability of production Financial position of an organization.

### World economy

Online courses in English	Link	Summary
States and Markets in the Global Economy	<a href="https://www.edx.org/learn/economics/arizona-">https://www.edx.org/learn/economics/arizona-</a>	In this business and management course, you will learn management techniques for

	<a href="https://www.edx.org/course/state-university-states-and-markets-in-the-global-economy?index=product&amp;queryID=9d4c28a6ae862613c1358dc4859778a1&amp;position=1&amp;results_level=first-level-results&amp;term=Global+economy&amp;objectID=course-fd75b745-3d53-46c9-bd48-285cf079fc2a&amp;campaign=States+and+Markets+in+the+Global+Economy&amp;source=edX&amp;product_category=course&amp;placement_url=https%3A%2F%2Fwww.edx.org%2Fsearch">state-university-states-and-markets-in-the-global-economy?index=product&amp;queryID=9d4c28a6ae862613c1358dc4859778a1&amp;position=1&amp;results_level=first-level-results&amp;term=Global+economy&amp;objectID=course-fd75b745-3d53-46c9-bd48-285cf079fc2a&amp;campaign=States+and+Markets+in+the+Global+Economy&amp;source=edX&amp;product_category=course&amp;placement_url=https%3A%2F%2Fwww.edx.org%2Fsearch</a>	<p>operating in an international economy with tremendous opportunities and risks.</p> <p>This course develops analytical tools for understanding the rapidly changing and dynamic global economy. With these tools, you will be better prepared to anticipate the risks and take advantage of the opportunities you will encounter in the global business environment.</p>
Macroeconomics for a Sustainable Planet	<a href="https://www.edx.org/learn/macro-economics/sdg-academy-macro-economics-for-a-sustainable-planet?index=product&amp;queryID=c4114f0781426b1c98e8c35c81d6d1f7&amp;position=2&amp;results_level=first-level-results&amp;term=Global+economy&amp;objectID=course-8e6cfbbd-b68b-483a-9108-5d4658278dd5&amp;campaign=Macroeconomics+for+a+Sustainable+Planet&amp;source=edX&amp;product_category=course&amp;placement_url=https%3A%2F%2Fwww.edx.org%2Fsearch">https://www.edx.org/learn/macro-economics/sdg-academy-macro-economics-for-a-sustainable-planet?index=product&amp;queryID=c4114f0781426b1c98e8c35c81d6d1f7&amp;position=2&amp;results_level=first-level-results&amp;term=Global+economy&amp;objectID=course-8e6cfbbd-b68b-483a-9108-5d4658278dd5&amp;campaign=Macroeconomics+for+a+Sustainable+Planet&amp;source=edX&amp;product_category=course&amp;placement_url=https%3A%2F%2Fwww.edx.org%2Fsearch</a>	<p>This course about:</p> <ol style="list-style-type: none"> <li>1. GDP and well-being: How do we measure progress? Are those measures enough?</li> <li>2. The changing labor market: digitization, unemployment trends, and the minimum wage</li> <li>3. Sustainable investment principles</li> <li>4. Theories of business investment and how these relate to consumption and saving</li> <li>5. New economic principles which internalize social capital and environmental impact.</li> </ol>
Russia, China and the U.S. in the Asia-Pacific Region	<a href="https://stepik.org/course/50042/promo?search=4745199282">https://stepik.org/course/50042/promo?search=4745199282</a>	<p>This course is designed to provide students with a conceptual and historical perspective on the interaction between China, Russia,</p>

		and the United States in the Asia-Pacific region (APR). We will focus on conceptual/theoretical issues in political science; we will discuss the roots of great power foreign policy, the building of international institutions in the new century, issues of economic development, political identity and the evolution of political culture, and the future of leadership in the modern world.
<b>Online courses in Russian</b>	<b>Link</b>	<b>Summary</b>
Мировая экономика: основы (World economy: basics)	<a href="https://stepik.org/course/122403/promo?search=4733281565">https://stepik.org/course/122403/promo?search=4733281565</a>	The online course introduces the basics of world economy and international economic relations. Topics of the online course include: foundations of the world economy; concepts and theories of the world economy; dynamics and proportions, efficiency and development of the world economy; current trends in world economic development; global problems.
Мировая экономика: субъекты и ресурсы (World economy: actors and resources)	<a href="https://stepik.org/course/122447/promo?search=4446370627">https://stepik.org/course/122447/promo?search=4446370627</a>	The online course touches on theories, typologies and main actors of the world economy, its resources, main trends and problems, as well as the principles of international movement of economic goods and resources. Topics of the online course: main actors of the world economy; resources of the world economy: human capital, financial and physical capital, natural resources.
Содействие международному развитию: теория и практика (International Development Assistance: Theory and Practice)	<a href="https://stepik.org/course/5842/promo?search=4446370656">https://stepik.org/course/5842/promo?search=4446370656</a>	The course touches on many of the most pressing issues in the field of International Development Assistance, approached from an interdisciplinary analysis. The topics of the online course are: development and development assistance; architecture for promoting international development; management in international development assistance.

### Finance

<b>Online courses in English</b>	<b>Link</b>	<b>Summary</b>
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Introduction to the Topic of Finance Essentials	<a href="https://openedu.ru/course/spbu/FININTR O/?session=self_paced_2022">https://openedu.ru/course/spbu/FININTR O/?session=self_paced_2022</a>	<p>The content of the courses covers basic finance concepts paying special attention to their application to a wide variety of real business world situations. The program briefly presents contemporary financial theories and their applications to demonstrate the advanced implementation of corporate finance including financial forecasting, finance and investments, financing and corporate finance strategies and processes.</p> <p>Course program:</p> <ol style="list-style-type: none"> <li>1. Corporate Financial System</li> <li>2. What Makes Up Strategic Business Value?</li> <li>3. Sources and Purposes of Management Information</li> <li>4. Financial Analysis</li> <li>5. Investments</li> </ol>
Public Economics	<a href="https://openedu.ru/course/hse/PUBECON OM/?session=2023">https://openedu.ru/course/hse/PUBECON OM/?session=2023</a>	<p>The central theme of the course is the role of government as a mechanism of resource allocation which complements and augments markets. Otherwise the course's main themes are economics of taxation, regulation, politics of public economics, incentives in government, and government vis-à-vis (civil) society.</p> <p>Course program:</p> <ol style="list-style-type: none"> <li>1. Government in a Market Economy</li> <li>2. Design of Government: A Tax Theory Primer</li> <li>3. Scope of Government</li> <li>4. Politics of Public Economics</li> <li>5. Framework of the Government</li> <li>6. Government and Society</li> </ol>
Financial Investment and Risk Management	<a href="https://openedu.ru/course/spbstu/FINIRMAN/?session=spring_2024">https://openedu.ru/course/spbstu/FINIRMAN/?session=spring_2024</a>	<p>The course consists of six modules, completing them will enable a student to:</p> <ul style="list-style-type: none"> <li>– critically analyze, interpret information from financial markets, carry out economic calculations;</li> <li>– develop your own investment strategy;</li> <li>– calculate the value of the investment portfolio, taking into account transaction and agency costs;</li> <li>– use data analysis tools to perform scenario analysis of changes in the value of an</li> </ul>

		<p>investment portfolio based on changes in investor preferences;</p> <ul style="list-style-type: none"> <li>– optimize your portfolio with limited resources;</li> <li>– identify and assess the risks of investment investments;</li> <li>– develop risk management measures within the framework of the selected strategies and evaluate their effectiveness taking into account the costs of implementation.</li> </ul>
<b>Online courses in Russian</b>	<b>Link</b>	<b>Summary</b>
Практикум по теории финансов (Workshop on finance theory)	<a href="https://stepik.org/course/196256/promo?search=4733228251">https://stepik.org/course/196256/promo?search=4733228251</a>	This workshop is dedicated to the topic of Time Value of Money and the in-depth development of the ability to calculate present value, which is the first necessary step when immersing oneself in the world of finance. (financial modeling, company valuation, etc.). The topics of the online course: time value of money, accounting for inflation in calculations, perpetuities and annuities.
Основы корпоративных финансов (Basics of corporate finance)	<a href="https://openedu.ru/course/hse/CorFin/?session=2022">https://openedu.ru/course/hse/CorFin/?session=2022</a>	The online course covers a wide range of topics, from basic cash flow theory to advanced theories of capital structure and corporate governance practices. The course examines the processes of evaluating investment projects, the specifics of using discounting and calculating the cost of capital; theories of shareholder payments; and the specifics of corporate restructuring, mergers, and acquisitions.
Финансовые рынки и институты (Financial markets and institutions)	<a href="https://openedu.ru/course/hse/FINMI/?session=2022">https://openedu.ru/course/hse/FINMI/?session=2022</a>	The online course examines the functioning of financial markets, the activities of financial institutions, and the financial instruments that individuals will encounter in their daily lives. In addition, the course covers the basic principles of investing available funds and the fundamentals of financial calculations. Topics covered in the online course include: general concepts of the financial market; securitization; risk and return; financial institutions; collective investment funds; insurance; debt capital market; stock market; hybrid securities; corporate entry into foreign capital markets; personal financial management.

Международные финансы (International finance)	<a href="https://stepik.org/course/116610/promo?search=4733228247">https://stepik.org/course/116610/promo?search=4733228247</a>	This course will introduce students to the basic concepts and prerequisites for the formation of international finance, as well as to the topics on the state, corporate and personal level of finance. The topics of the online course: concepts and prerequisites for the formation of international finance; transformation of the public finance system; corporate level of international finance; personal finance; international financial markets and intermediaries.
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### Mathematical, statistical and instrumental methods in economics

Online courses in English	Link	Summary
Econometrics For Non-Econometricians: First Steps	<a href="https://stepik.org/course/131521">https://stepik.org/course/131521</a>	This course is for learners who want to begin the journey in econometrics and understand how to start using econometrics tools in analytical research. Powerful tools of econometric analysis are very useful not only in social and economic sciences but also in business analytics, marketing, and quantitative analysis of experiments in chemistry, medicine, psychology, and other sciences.
Introductory Econometrics a Practical Approach	<a href="https://stepik.org/course/128816">https://stepik.org/course/128816</a>	Econometrics is a universal tool for data analysis. Our course will help you gain confidence in analyzing data using econometric methods. We will focus on real business cases to provide industry insights and explore econometric fundamentals that will help structure your analysis to generate recommendations. When you know econometrics, you can transform your ideas and data into models, make predictions, and inform decisions in a wide range of areas of economics, business, and finance.
Mathematical Economics	<a href="https://onlinecourses.swayam2.ac.in/cec21hs19/preview">https://onlinecourses.swayam2.ac.in/cec21hs19/preview</a>	This course has been designed to make the study of Economics using Mathematics simple and easy to understand. Apart from Economics, this course will be beneficial to solve problems in Engineering, Architecture, Medicine, Finance, Management, Policy-making and Analytics. Course layout: <ul style="list-style-type: none"> <li>• Number Systems, Set Theory and Functions</li> </ul>

		<ul style="list-style-type: none"> <li>• Economic Models</li> <li>• Matrix Algebra</li> <li>• Input-Output Analysis</li> <li>• Differentiation</li> <li>• Linear Programming</li> <li>• Integration and its Applications</li> <li>• Difference Equations</li> </ul>
<b>Online courses in Russian</b>	<b>Link</b>	<b>Summary</b>
Эконометрика: продвинутый уровень (Econometrics: advanced)	<a href="https://openedu.ru/courses/spbstu/EMETRIC_S">https://openedu.ru/courses/spbstu/EMETRIC_S</a>	The course is aimed at studying modern approaches and methods of econometric research. The student will learn to collect and analyze economic data when performing research; select tools; conduct thorough testing of the statistical adequacy of the resulting models; and also interpret the economic substance of the research results obtained.
Математические методы в экономике (Mathematical methods in economics)	<a href="https://openedu.ru/courses/spbstu/BUSMAT">https://openedu.ru/courses/spbstu/BUSMAT</a>	Students will learn the basic principles and stages of economic and mathematical modeling; basic concepts of optimization theory, methods of solving linear, multicriteria and integer optimization problems; methods of analyzing the obtained solutions; ability to transform verbal statements of economic problems into formalized economic and mathematical models; apply mathematical methods for solving optimization problems; visually present and analyze the obtained results, use them in the process of making management decisions.
Математические методы и модели в экономике. Часть 1 и 2. (Mathematical methods and models in economics. Part 1 and 2.)	<a href="https://openedu.ru/courses/mephi/ECMAMO">https://openedu.ru/courses/mephi/ECMAMO</a> <a href="https://openedu.ru/courses/mephi/ECMAMO_2">https://openedu.ru/courses/mephi/ECMAMO_2</a>	The course is devoted to the study of basic mathematical methods of mathematical modeling and models in economics: modeling of economic dependencies, optimization problems, resource allocation, including under conditions of uncertainty and risk, and game theory.