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**ADMISSION EXAMINATION PROGRAMME  
for Applicants to the Doctoral Programme  
Group of Educational Programmes D070 – Economics  
Educational Programme: 8D04103 – Development Economics Policy**

This admission examination programme for applicants to the doctoral programme in Economics consists of three thematic blocks designed to assess the applicants' level of theoretical knowledge, professional competencies, analytical thinking, and research capabilities.

**BLOCK 1. THEORETICAL FOUNDATIONS OF ECONOMIC SCIENCE AND RESEARCH METHODOLOGY**

This block is aimed at assessing fundamental knowledge in contemporary economic theory, econometrics, and research methodology, which are essential for successful completion of doctoral studies and independent scientific research.

**Sections of the Block:**

**Section 1. Econometrics and Quantitative Research Methods**

**Section 2. Microeconomic Theory**

**Section 3. Macroeconomic Theory**

**Section 4. Economic Growth and Development Theory**

**Section 5. Institutional and Behavioral Economics**

**BLOCK 2. APPLIED ECONOMICS AND ECONOMIC POLICY**

This block is designed to assess the ability to apply economic theory to the analysis of real-world economic processes, mechanisms of government regulation, and contemporary challenges of socio-economic development.

**Sections of the Block:**

**Section 1. Monetary and Fiscal Policy**

**Section 2. International Economics and External Economic Policy**

**Section 3. Government Regulation and Economic Policy**

**Section 4. Development Economics, Labour Market, and Human Capital**

**Section 5. Innovation, Digitalization, and Structural Modernization of the Economy**

**BLOCK 3. SYSTEMIC RESEARCH ANALYSIS OF CONTEMPORARY ECONOMIC PROCESSES**

This block is aimed at assessing research-oriented thinking, the ability to critically evaluate contemporary economic concepts, analyze alternative approaches to solving socio-economic problems, and formulate scientifically grounded conclusions.

**Sections of the Block:**

**Section 1. Institutions, Government, and Economic Development**

**Section 2. Development Economics and Structural Transformation**

**Section 3. Digital Economy and Technological Transformation**

**Section 4. Sustainable Development, Climate Economics, and ESG Transformation**

## **Section 5. Global Challenges, Economic Security, and the Future of the Economy**

### **ESSAY**

To assess research potential, academic thinking, and the ability to conduct evidence-based analysis, applicants are required to write an essay on one of the proposed topics related to contemporary economic science, economic policy, and socio-economic development.

## **BLOCK 1. THEORETICAL FOUNDATIONS OF ECONOMICS AND RESEARCH METHODOLOGY**

### **Section 1. Econometrics and Quantitative Research Methods**

1. Classical Linear Regression Model and Properties of Ordinary Least Squares (OLS) Estimators.
2. The Gauss–Markov Theorem and the Efficiency of Estimators.
3. Endogeneity in Economic Research.
4. Instrumental Variables and the Identification of Causal Relationships.
5. Two-Stage Least Squares (2SLS) Estimation.
6. Panel Data and Their Applications.
7. Fixed Effects and Random Effects Models.
8. The Hausman Test and Model Selection in Econometrics.
9. Heteroskedasticity and Methods of Correction.
10. Autocorrelation and Its Impact on Estimation Results.
11. Binary Choice Models: Logit and Probit.
12. Models with Limited Dependent Variables.
13. Sample Selection Bias and Its Consequences.
14. The Heckman Selection Procedure.
15. Identification of Causal Effects in Applied Econometrics.

### **Section 2. Microeconomic Theory**

16. Rational Choice and the Behaviour of Economic Agents.
17. Behavioural Economics and the Limits of Rationality.
18. The Welfare Economics Theorems.
19. Pareto Efficiency and Competitive Equilibrium.
20. Externalities and Market Failures.
21. The Coase Theorem.
22. Public Goods and the Free-Rider Problem.
23. Information Asymmetry in Markets.
24. Adverse Selection and Moral Hazard.
25. Monopoly and Social Welfare.
26. Price Discrimination and Its Economic Consequences.
27. Game Theory and Strategic Behaviour.
28. Nash Equilibrium.
29. The Prisoner's Dilemma and Collective Choice.
30. Public Choice Theory.

### **Section 3. Macroeconomic Theory**

31. The Aggregate Demand and Aggregate Supply Model.
32. Inflation Expectations and Monetary Policy.
33. Adaptive and Rational Expectations.
34. Rational Expectations Theory.
35. The Phillips Curve in the Short Run and the Long Run.
36. The Lucas Critique.
37. Real Business Cycle Theory.
38. New Keynesian Macroeconomics.

39. Public Debt and Intertemporal Budget Constraints.

40. Budget Deficits and Economic Growth.

#### **Section 4. Economic Growth and Development Theory**

41. Exogenous and Endogenous Growth Models.

42. The Solow Growth Model and the Convergence Hypothesis.

43. Human Capital as a Determinant of Economic Growth.

44. Technological Progress and Long-Term Economic Development.

45. Endogenous Growth Theory.

46. Institutions and Economic Development.

47. Natural Resources and Economic Growth.

48. Structural Transformation of the Economy.

#### **Section 5. Institutional and Behavioral Economics**

49. Institutions as a Determinant of Economic Development.

50. Behavioral Economics and Contemporary Directions of Economic Theory.

### **BLOCK 2. APPLIED ECONOMICS AND ECONOMIC POLICY**

#### **Section 1. Monetary and Fiscal Policy**

1. Inflation Targeting: Principles and Mechanisms of Implementation.

2. Central Bank Monetary Policy and Its Instruments.

3. Interest Rates as a Tool of Macroeconomic Regulation.

4. Inflation Expectations and Their Impact on Economic Processes.

5. The Monetary Policy Transmission Mechanism.

6. Central Bank Independence and the Effectiveness of Monetary Policy.

7. Budget Deficits and Sources of Financing.

8. Public Debt and Its Impact on Economic Development.

9. Fiscal Policy during Economic Downturns.

10. Coordination of Monetary and Fiscal Policies.

#### **Section 2. International Economics and External Economic Policy**

11. Exchange Rates and Their Role in an Open Economy.

12. Currency Devaluation and Its Economic Consequences.

13. The Balance of Payments and Macroeconomic Equilibrium.

14. International Trade and Economic Growth.

15. Theories of International Trade and Their Contemporary Developments.

16. Global Value Chains.

17. International Economic Integration.

18. Foreign Direct Investment and Economic Development.

19. International Competitiveness of the National Economy.

20. International Sanctions and Their Economic Consequences.

#### **Section 3. Government Regulation and Economic Policy**

21. Government Regulation of the Economy: Objectives and Instruments.

22. Market Failures and the Need for Government Intervention.

23. Government Failures and the Limitations of Economic Policy.

24. Competition Policy and Antitrust Regulation.

25. Government Support for Economic Sectors.

26. Tax Policy and the Promotion of Economic Activity.

27. Government Regulation of the Financial Sector.

28. Industrial Policy and Structural Modernization of the Economy.

29. Public Investment and Economic Development.

30. National Economic Security.

#### **Section 4. Development Economics, Labour Market, and Human Capital**

31. Human Capital as a Driver of Economic Growth.

32. Education and Labour Productivity.

33. Economic Growth and Poverty Reduction.
34. Income Inequality and Economic Development.
35. Labour Markets and Contemporary Employment Trends.
36. Structural Unemployment and Policy Mechanisms for Its Regulation.
37. Automation and Labour Market Transformation.
38. International Migration and Economic Development.
39. Demographic Processes and Economic Growth.
40. Employment Policy and Labour Market Development.

#### **Section 5. Innovation, Digitalization, and Structural Modernization of the Economy**

41. Innovation as a Driver of Economic Development.
42. Digital Transformation of the Economy.
43. Digitalization and Productivity of the Factors of Production.
44. Infrastructure Development and Economic Growth.
45. Small and Medium-Sized Enterprises in the Modern Economy.
46. Digital Platforms and the Transformation of the Competitive Environment.
47. Economic Diversification as a Prerequisite for Sustainable Development.
48. Government Innovation Policy.
49. Structural Reforms and the Enhancement of Economic Competitiveness.
50. The Knowledge Economy and New Sources of Economic Growth.

### **BLOCK 3. SYSTEMIC RESEARCH ANALYSIS OF CONTEMPORARY ECONOMIC PROCESSES**

#### **Section 1. Institutions, Government, and Economic Development**

1. Institutions and Long-Term Economic Development.
2. Theories of Institutional Economic Development.
3. Public Governance and Economic Growth.
4. The Rule of Law and the Development of a Market Economy.
5. Corruption and Economic Development.
6. Political Institutions and Economic Efficiency.
7. Institutional Reforms in Transition Economies.
8. Institutional Quality and Investment Attractiveness.
9. Institutional Constraints on Economic Development.
10. Institutional Modernization of Kazakhstan's Economy.

#### **Section 2. Development Economics and Structural Transformation**

11. The Resource Curse Theory.
12. Dutch Disease and Its Economic Consequences.
13. Economic Diversification in Resource-Dependent Economies.
14. The Middle-Income Trap and Strategies for Overcoming It.
15. Structural Transformation of the Economy.
16. Industrial Policy and Economic Modernization.
17. Development Economics and Contemporary Challenges.
18. Competitiveness of Developing Economies.
19. Strategies for Sustainable Economic Growth.
20. Kazakhstan's Development Economic Policy.

#### **Section 3. Digital Economy and Technological Transformation**

21. The Digital Economy and Contemporary Development Models.
22. Artificial Intelligence and Economic Growth.
23. Automation and the Future of Labour Markets.
24. Big Data in Economic Research.
25. Platform Economy.
26. Digital Markets and Competition.

27. Technological Innovation and Productivity.
28. Digital Transformation of Public Administration.
29. Institutional Foundations of the Digital Economy.
30. Digital Transformation of Kazakhstan's Economy.

#### **Section 4. Sustainable Development, Climate Economics, and ESG Transformation**

31. The Concept of Sustainable Development.
32. Climate Change and Economic Growth.
33. Low-Carbon Economy.
34. Green Economy and Sustainable Development.
35. Decarbonization of the Global Economy.
36. ESG Principles and Investment Activities.
37. Energy Transition and Economic Development.
38. Environmental Policy of the State.
39. Environmental Sustainability and Economic Security.
40. Economic Mechanisms for Achieving Sustainable Development Goals.

#### **Section 5. Global Challenges, Economic Security, and the Future of the Economy**

41. Geoeconomic and Geopolitical Factors of Economic Development.
42. Global Economic Crises and Their Transmission Mechanisms.
43. Globalization and National Economic Development.
44. Economic Resilience to External Shocks.
45. Transformation of the Global Financial System.
46. International Sanctions and Structural Economic Change.
47. Human Capital in the Context of Global Competition.
48. Economic Prospects of the Central Asian Countries.
49. Technological Transformation of the Global Economy.
50. Strategic Directions for the Long-Term Development of Kazakhstan's Economy.

#### **ESSAY TOPICS**

1. How Does Digital Transformation Influence Kazakhstan's Economic Development?
2. What Measures Are Required to Diversify Kazakhstan's Economy?
3. The Role of Human Capital in Ensuring Sustainable Economic Growth.
4. Economic Security of the State in the Context of Global Instability.
5. Green Economy: Challenges and Prospects for Kazakhstan.
6. The Impact of Globalization on National Economic Policy.
7. How Can Government Policy Promote Innovation-Driven Economic Development?
8. Socio-Economic Inequality: Challenges and Mechanisms for Its Reduction.
9. The Impact of Artificial Intelligence and Automation on Labour Markets.
10. Economic Research as a Driver of Kazakhstan's Development.

#### **RECOMMENDED LITERATURE**

1. Вымятина, Ю. В. Макроэкономика в 2 ч. Часть 1: учебник и практикум для бакалавриата и магистратуры / Ю. В. Вымятина, К. Ю. Борисов, М. А. Пахнин. — Москва: Издательство Юрайт, 2019. — 294 с.
2. Чеканский, А. Н. Микроэкономика. Промежуточный уровень: учебник / А. Н. Чеканский, Н. М. Фролова. — Москва: ИНФРА-М, 2016. — 685 с.
3. Боулз С. Моральная экономика. Почему хорошие стимулы не заменят хороших граждан. - М.: Издательство Института Гайдара, 2017. — 336 с.
4. Стиглиц Дж. Люди, власть и прибыль. Прогрессивный капитализм в эпоху массового недовольства. — М.: Альпина Паблишер, 2020. — 430 с.
5. Евсенко, О.С. Инвестиции в вопросах и ответах: учебное пособие / О. С. Евсенко. - Москва: Проспект, 2005. — 251 с.

6. Волков И. И. Макроэкономический анализ взаимодействия денежно кредитной и бюджетной политики государства. – М.: Креативная экономика, 2017. – 254 с.
7. Розанова, Н. М. Макроэкономика. Продвинутый курс в 2 ч. Часть 2: учебник для магистратуры / Н. М. Розанова. — 2-е изд., перераб. и доп. — Москва: Издательство Юрайт, 2019. — 382 с.
8. Садыков Т.У. Информационная экономика. – Изд. 2-е, перераб. и доп. - Алматы: New book. – 2018. – 181 с.
9. Лашкарева О.В. Экономическая теория: Учебное пособие. – Алматы: Эверо, 2015. – 260 с.
10. Текеева А.Х. Микроэкономика. Часть III: Рынки факторов производства в условиях совершенной и несовершенной конкуренции. Общее равновесие и экономическая эффективность. Внешние эффекты и общественные блага. Учебно-методическое пособие для преподавателей и студентов. – М.: Экономический факультет МГУ имени М. В. Ломоносова, 2020. — 240 с.
11. Тарасевич, Л. С. Микроэкономика: учебник / Л.С. Тарасевич, П. И. Гребенников, А. И. Леусский. – Москва: Юрайт, 2015. - 542 с.
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62. United Nations Development Programme (UNDP). Human Development Report. New York: UNDP. Последние выпуски.
63. OECD. Economic Outlook. Paris: OECD Publishing. Последние выпуски.
64. Asian Development Bank. Asian Development Outlook. Manila: Asian Development Bank. Последние выпуски.
65. Материалы и аналитические отчеты Национального Банка Республики Казахстан.
66. Материалы Бюро национальной статистики Агентства по стратегическому планированию и реформам Республики Казахстан.
67. Стратегия достижения углеродной нейтральности Республики Казахстан до 2060 года.
68. Концепция развития Республики Казахстан до 2029 года.