*Simon Kuznets Kharkiv National University of Economics*

# Syllabus of the educational discipline
## « Methods and models for forecasting processes in foreign economic activity»

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|---|---|
| **Specialty** | *All* |
| **Educational program** | *All* |
| **Level of education** | *Second (master's)* |
| **Discipline status** | *Selective* |
| **Teaching language** | *English* |
| **Course / semester** | *1 course, 2 semester* |
| **Number of credits ECTS** | *5* |
| **Distribution by types of trainings and hours of study** | *Lectures – 20 hours.* *Laboratory studies – 20 hours.* *Independent training – 110 hours.* |
| **Form of final assessment** | *Pass* |
| **Department** | *Statistics and economic forecasting, 61166, Kharkiv, 9a Nauki Ave., S. Kuznets KhNUE, phone +38(057)702-18-32, department website: https://statistics.hneu.edu.ua/* |
| **Teacher (-s)** | *Rayevnyeva Olena, D.Sc. (Economics), Professor (lectures)* *Brovko Olha, PhD (Economics), Associate professor (laboratory studies)* |
| **Teacher's contacts** | *olena.raev@gmail.com* *ol.iv.brovko@gmail.com* |
| **Days of the classes** | *According to the class schedule for the 2nd semester of 2021-2022 academic year* |
| **Consultations** | *According to the consultation schedule for the 2nd semester of 2021-2022 academic year* |

**The purpose** *acquisition by future specialists in the field of international activities of competencies for the construction and use of econometric models for the assessment, analysis and forecasting of complex socio-economic systems that operate in a high level of uncertainty and risk of both national and global market economy*

### Prerequisites for learning

*List of previously listened disciplines: higher mathematics, statistics, computer science, economic theory, microeconomics, macroeconomics.*

*Knowledge, skills, abilities that a student must have to start studying the discipline: basics of computer science, statistics, higher mathematics, economic theory and be able to apply mathematical tools and skills to work in Microsoft Office applications (Word, Excel, PowerPoint) and Statistica.*

### Content of the educational discipline

**Content module 1. General methodological aspects -economic forecasting of systems**

**Topic 1.** Introduce to economic forecasting

**Topic 2.** Time series as a means of determining the trend of economic processes development

**Content module 2.** Forecasting methods of the economic systems

**Topic 3.** Forecasting of foreign economic processes based on the use of econometric models.

**Topic 4.** Modeling and forecasting of multidimensional processes

**Topic 5.** Application of specific models for forecasting the course of foreign economic processes.

**Topic 6.** Adaptive forecasting methods.

### Material and technical support (software) of the discipline

*Microsoft Office (Word, Excel, PowerPoint, Access) and Statistica.*

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| **Course page on the Moodle platform (personal training system)** | *https://pns.hneu.edu.ua/course/view.php?id=6817* |

### Recommended literature

*Main: 1. Антохонова И.В. Методы прогнозирования социально-экономических процессов: Учебное пособие. – Улан-Удэ: Изд-во ВСГТУ, 2004. – 212с. 2. Вітлинський В.В. Моделювання економіки: навч. посібн. / В. В. Віт-линський. – К.: КНЕУ, 2003. – 408 с. 3. Єріна А. М. Статистичне моделювання та прогнозування: навч. посібн. /*

*А. М. Єріна.– К.: КНЕУ, 2001. 4. Клебанова Т. С., Дубовина Н.А., Раевнева Е. В. Эконометрия: Учебно-методическое пособие для самостоятельного изучения дисциплины – Х.: Изд. Дом «ИНЖЭК», 2003. – 132 с. 5. Статистичне прогнозування та моделювання. Навч. посібник під ред. д.е.н., проф. Раєвнєвої О.В. 6. Клебанова Т.С., Забродский В.А, Полякова О.Ю., Петренко В.Л. Моделирование экономики. Учебное пособие. – Харьков : Изд. ХГЭУ, 2001. – 140 с. 7. Христиановский В.В., Щербина В.П. Экономико-математические методы и модели: теория и практика: Учебное пособие. – Донецк, 2010. – ДонНУ. – 335 с. 8. Офіційний сайт Державної служби статистики України [Електронний ресурс]. – Режим доступу : www.ukrstat.gov.ua. 9. Офіційний сайт Світового банку [Електронний ресурс]. – Режим доступу : http://www.worldbank.org/*

## Assessment system of learning outcomes

*Assessment of the formed competencies of students is carried out according to the accumulative 100-point system, control measures include: the current control, carried out during the semester during lectures, laboratory classes, and estimated by the sum of the points scored (the maximum amount is 100 points; the minimum amount that allows the student to get a pass is 60 points); the final / semester control, conducted in the form of a pass, according to the schedule of the educational process. Pass implies the protection of an individual research work (IRW). The IRW covers the program of discipline and involves determining the level of knowledge and the degree of mastery of competences by students.*

*More detailed information on assessment is given in the technological card of eth discipline. https://pns.hneu.edu.ua/course/view.php?id=6817*

## Accumulation of rating points in the discipline

| Types of training | Max points |
|---|---|
| Attending lectures | 20 |
| Protection of laboratory works | 30 |
| Test tasks | 12 |
| Creative task (essay) | 8 |
| Control work | 10 |
| Pass (Individual research work) | 20 |
| **Max points** | **100** |

## Transference of Simon Kuznets KHNUE Characteristics of Students' Progress into the System of the ECTS Scale

| Total score on a 100-point scale | ECTS assessment scale | Assessment on the national scale | |
|---|---|---|---|
| | | for exam, differentiated test, course project (work), practice, training | for pass |
| 90 – 100 | A | excellent | pass |
| 82 – 89 | B | good | pass |
| 74 – 81 | C | good | pass |
| 64 – 73 | D | satisfactory | pass |
| 60 – 63 | E | satisfactory | pass |
| 35 – 59 | FX | unsatisfactory | not pass |
| 1 – 34 | F | unsatisfactory | not pass |

## Discipline policies

*The policy of the discipline is built considering the current legislation of Ukraine and regulations of the University. The teaching of the discipline is based on the principles of academic integrity, which is defined in the Code of Academic Integrity of the Simon Kuznets Kharkiv National University of Economics https://www.hneu.edu.ua/akademichna-dobrochesnist/*

***More detailed information about competencies, learning outcomes, teaching methods, assessment forms, independent training is given in the Syllabus (working plan) of the educational discipline -*** *https://pns.hneu.edu.ua/course/view.php?id=6817*

Syllabus approved at the meeting of the Department of Statistics and economic forecasting.
Protocol № 5 from 10.11.2020