MINISTRY OF HIGHER EDUCATION, SCIENCE AND INNOVATION OF THE REPUBLIC OF UZBEKISTAN

KARSHI STATE TECHNICAL UNIVERSITY

"APPROVED"

Rector of Karshi State Technical University

_____Sh.K.Nematov

"__" _____2025

ECONOMETRIC-2

MODULE GUIDE

For a master's degree

Field of knowledge:	400000 –	Business, management and law
Field of education:	410000 –	Business and management
Field of study:	70410108 –	Regional economy

Module links

Module title:	Econometric-2
Code (if applicable)	ECMET-21-105
Courses (if applicable)	1
Module teaching semesters	1
Language	Uzbek
Curriculum relevance	Elective
Type of teaching, contact hours	Selective
Workload	Total workload: 150 hours, Auditory hours: 60 hours; Lecture: 30 hours, Practical lessons: 30 hours, Self-study: 90 hours
Credit points:	5
Recommended previous subjects	Economic Theory, Microeconomics, Macroeconomics

Module objectives / expected learning outcomes	The course aims to teach students the basics of econometric modeling of complex economic systems, such as the national economy and its sectors in the context of market relations, and to develop their skills in practical application. The objectives allow students to learn the following: • study the properties of regression models with variable composition and stochastic variables, stationary and non-• stationary series, and systems of simultaneous equations; • various principles of the system of economic indicators, their structure and dependence; master econometric modeling of economic indicators; • gain an idea of endogenous and exogenous variables, a system of econometric equations;; • identify methods for testing econometric models for stability; gain an understanding of production functions, economic growth models, and production cost functions in economic analysis; • gain an idea of the scope of testing statistical hypotheses, as well as the main econometric models and methods for their evaluation. 1. Theoretical knowledge and concepts. Students will understand the basic concepts, categories, economic sectors (transport, energy, communications, utilities, etc.) of econometrics 2, as well as their economic laws and principles. 2. Analytical skills. Students will conduct analysis based on economic indicators and statistical figures related to econometrics. Analyze model efficiency, costs, profitability and demand levels in econometrics. Draw reasonable conclusions about economic processes. 3. Use of research and analysis tools. Students will develop skills in working with economic analysis methods, graphs and tables. Learn to apply economic models and theories in practical situations. 4. Communication and expression skills. Students will have the ability to clearly and logically express economic thoughts and ideas related to econometrics in a scientific and methodological language, to express them consistently in written and oral form, and to justify their thoughts on the basis of economic analysis. 5. Application and application in practice. Econometrics studies ways to analyze and forecast using various economic mathematical models, draw conclusions from the results of applied research and experiments, and evaluate the impact of developing proposals to improve forecasting efficiency.
Content	One of the important disciplines of economics, it develops skills in analyzing economic data and using econometric methods to analyze real statistical data, which ensures the smooth and efficient operation of economic processes. This discipline is a fundamental discipline that allows students to analyze the material, technical, and institutional foundations of the economic system.

Study and exam requirements	**a) To obtain 90-100 points, the student's level of knowledge must meet the following requirements:** - fully explain the essence and content of the subject; - maintain scientificity and logic in presenting the topics in the subject, avoiding scientific errors and confusion; - have a clear idea of the theoretical or practical significance of the subject materials in the subject; - demonstrate the ability to think independently within the scope of the subject; - can answer the questions asked clearly and concisely; - has carefully prepared the outline; - has completed independent assignments completely and clearly; - has fully mastered the laws and other regulatory and legal documents related to the discipline; - has published a scientific article on one of the topics related to the discipline; - can interpret historical processes; **b) To obtain 70-89.9 points, the student's level of knowledge must meet the following requirements:** - understands the essence and content of the subject, does not allow scientific and logical confusion in explaining the topics in the subject; - understands the practical significance of the content of the subject; - performs the assigned tasks and assignments within the framework of the curriculum; - can correctly answer the questions asked in the subject; - has carefully formulated a subject outline; - has fully completed independent assignments in the subject; - has mastered laws and other regulatory documents related to the subject. **c) To obtain 60-69.9 points, the student's level of knowledge must meet the following:** - has a general understanding of the subject; - has some intricacies in covering and presenting the topics in the subject in a narrow scope; - if the presentation is not smooth; - if complex and confusing answers are given to questions on the subject; - if the text on the subject is not well-formed. **d) In the following cases with a score of 0-59.9, the student's level of knowledge may be assessed as unsatisfactory:** - if there is no preparation for the subject exercises; - if there is no idea about the subject exercises; - if it is noticeable that the texts on the subject have been copied from others; - if serious errors and confusions are made in the text on the subject; - if the questions asked about the subject are not answered;

	- if the subject does not know the subject.
Exam format	Oral, written, test
Assessment Tools / Methods	Complete subject assignments and successfully pass current, midterm, and final tests.
List of References	1.1.Greene, W. H. (2012). Econometric Analysis, 7th Edition (Int. Edition), Essex: Pearson 2.2.X.S.Mukhitdinov, O.Q.Khatamov, A.N.Rakhimov. Fundamentals of Econometrics. Textbook. Karshi: "Intellect" Publishing House. 2021 – p 287 3.3.Elhorst J.P.,Spatial econometrics: From cross-sectional data to spatial panels. Heidelberg, New York, Dordrecht, London : Springer, 2014. 4.4.N.Djuraev, B.E.Eshmatov. Probability theory and mathematical statistics. Textbook.-T.: "Voris-nashriyot". 2020 – p 318 5.Gujarati D.N. Basic Econometrics. McGraw-Hill, 5th edition. 2009 – p 922
Editors	1. **A.S.Eshev** – Professor of the Department of "Business and Management" of Karshi State Technical University, acting as
Place and Date of Approval	Developed and approved by Karshi State Technical University (Report No. 1, 26.08.2025)