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

STATISTICS

MODULE GUIDE

Field of knowledge:	400000 –	Business, management and law
Field of education:	410000 –	Business and management
Field of study:	60410100 –	Economics

Module links

Module title:	Statistics
Code (if applicable)	STAT1306
Courses (if applicable)	2
Module teaching semesters	3
Language	Uzbek
Curriculum relevance	compulsory
Type of Instruction, Contact Hours	Lecture, laboratory
Workload	Total workload: 180 hours. Auditory hours: 76 hours; Lecture: 30 soat, laboratory: 46 hours; Self-study: 104 hours
Credit points:	6
Recommended previous subjects	Economic theory, introduction to econometrics, history of economic doctrines, academic skills and professional competence

Module objectives / expected learning outcomes	It consists of comprehensively teaching students theoretical, methodological, and practical issues of statistics in a market economy, the ability to apply correlation and regression analysis to reveal cause-and-effect relationships between market phenomena, solving data obtained as a result of statistical observation using computer programs, drawing conclusions and proposals based on the results obtained, and forming knowledge, skills, and abilities corresponding to the profile of the field when making management decisions. Goals allow students to learn: • to have an understanding of solving statistical problems, statistical classification, and the interpretation of its specific features; • to know how to organize statistical observations on issues, to compile statistical tables and graphs in an understandable manner, to know about types of grouping, to compile basic SNA calculations and determine their indicators, and to be able to use them; • know absolute and relative indicators, study average values and variation indicators, calculate the volume of national wealth and its index, and know and be able to use methods for distributing national income; • possess skills in analyzing indicators reflecting the level of a country's participation in the international division of labor. Expected results from teaching the module. 1. Theoretical knowledge and concepts. Students will study the main categories of theoretical statistics, the theoretical foundations of statistical science, and the essence of methods of statistical observation, aggregation, grouping, generalization, and comparison. Understand the basic calculations of the system of national accounts, their structure, and their role in describing economic processes. They will also gain knowledge about the classification and content of statistical indicators, indicators reflecting the international division of labor, and the theoretical foundations of population living standards statistics. 2. Analytical skills. Students acquire skills in solving statistical problems, calculating absolute and relative indicators, determining average values and variation indicators, interpreting dynamic series and their types, and calculating the volume, composition, and indices of national wealth. They will also learn to use correlation, regression, and other statistical analysis methods to determine the interconnections between socio-economic processes. 3. Use of research and analytical tools. Students will be able to organize the statistical observation process, correctly form statistical tables and graphs, and apply types of grouping and their role in describing economic processes in practice. Along with the ability to calculate economic indices such as the GDP deflator, price indices, and aggregate indices, they develop practical skills and abilities in statistical analysis of

	state budget execution, the application of national income distribution methods, and the formation and application of SNA indicators. 4. Communication and expression skills. Students acquire the skills to clearly, logically, and convincingly state and interpret statistical ideas and conclusions in scientific and methodological language, as well as to express them in written and oral form. They develop the ability to present the results of statistical analysis with substantiated evidence and correctly justify economic opinions based on statistical tables, graphs, and formulas. 5. Application and application in practice. Students acquire the competence to evaluate statistical indicators in a market economy, determine the dynamics of economic processes, and analyze statistical indicators indicating the level of a country's participation in the international division of labor. At the same time, skills are formed for analyzing the system of monetary circulation statistics indicators, assessing socio-economic indicators reflecting the population's standard of living, and analyzing the execution of the state budget, as well as the structure of income and expenditures, using statistical methods.
Content	Statistics is one of the fundamental fundamental sciences of economics, studying the scientific foundations for measuring, analyzing, and evaluating economic processes, social phenomena, and their development trends. This science is a fundamental field that allows for the formation of a database that ensures the stable and consistent functioning of the country's economic system and the use of reliable statistical information in the process of economic decision-making. The subject of statistics directs students toward an in-depth study of the material, institutional, and social structure of the economy, the identification of interconnections between economic phenomena, and the scientific analysis of the dynamics of economic processes.
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 does not know the subject.
Exam formats	Oral, written, test
Assessment Tools / Methods	Complete subject assignments and successfully pass current, midterm, and final tests.
List of References	1. Shodiev Kh. and Khabibullaev I. Statistics: textbook. - T.: "Economics and Finance", 2019. - 454 p. 2. Soatov N.M., Nabiev Kh., Ayubjonov A.Kh. Applied Statistics: Textbook. – T.: Economics. 2020. - 298 p. 3. Soatov N. Statistics. Textbook. - T.: Abu Ali Ibn Sina, 2003. - C. 743. 1. 1. Shadiev Kh.A., Khabibullaev I., Rashitova N.Kh., Khodzhakulov Kh.Dj., Karabaev A.R., Abdullaev S., Khodjaeva M.N., Ismailov G.I. "Practicum on Statistics". - T.: "Economics and Finance". 2015. p. 336. 2. James T. McClave, Terry Sincic. Statistics. - 12th ed.

	2013. - 814 p.
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