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

INFORMATION AND COMMUNICATION TECHNOLOGIES AND SYSTEMS IN THE ECONOMY

MODULE GUIDE

Field of knowledge:	4000000- Business, Management, and Law
Field of education:	410000- Business and management
Field of study:	60410100 - Economics

Module links

Module title:	Information and communication technologies and systems in the economy
Code (if applicable)	IAKTT1105
Courses (if applicable)	1
Module teaching semesters	1
Language	Uzbek
Curriculum relevance	Compulsory
Type of Instruction, Contact Hours	Lecture, practical class, laboratory
Workload	Total workload: 150 hours. Auditory hours: 60 hours; Lecture: 30 hours, practical lessons: 16 hours, laboratory: 14 hours; Self-study: 90 hours
Credit points:	5
Recommended previous subjects	Mathematics for Economists, Introduction to Specialization, Foreign language

Module objectives / expected learning outcomes	It consists of teaching students the theoretical foundations of information and communication technologies in economics, technical and software systems in integrated complexes, operating technologies of on-line application software, information systems in economic activity, and forming skills for their practical application. Goals allow students to learn: • introduction of information and communication technologies and systems (ICTS) in the economy. • provide general information on the technical and software support of modern integrated online systems in the economic sphere. • application of information technologies in solving economic problems. • analysis and decision-making, practical application of ICT. It consists of obtaining in-depth knowledge of the main sections of IATT. Expected results from teaching the module. 1. Theoretical knowledge and concepts. Students should form an understanding of the main problems of information and communication technologies and systems in the economy and their essence in mastering a profession, the logical place and role of information and communication technologies in the economy, as well as trends in their development. 2. Analytical skills. Students should have skills in the specific features and capabilities of information and communication technologies in the economy, as well as in the basics of information technology production, calculation of technological processes, and application in various spheres of human activity. 3. Use of research and analysis tools. Students develop skills in analyzing information and communication technologies and systems in economics, working based on graphs and tables. Learn to apply economic models and theories in practical situations. 4. Communication and expression skills. Students will acquire the skills of clearly and logically expressing economic thoughts and ideas related to information and communication technologies and systems in economics in scientific and methodological language, consistently expressing them in written and oral form, substantiating ideas based on economic analysis. 5. Practical application and application. During the study of information and communication technologies in economics, students acquire such knowledge and skills as solving problematic problems using economic programs, using Internet technologies, system and service programs.
Content	Being one of the important basic sciences of economics, it studies the economic foundations of infrastructure sectors and services that ensure the uninterrupted and efficient functioning 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 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. 1.N.G.Ergashev, Z.E.Chorshanbiyev, Kh.Kh.Nekboyev. Information and Communication Technologies and Systems in the Economy. Textbook for students in the field of economics

	(by industry and sphere). - Karshi. - 2023. - 164 p. 2. N.G.Ergashev, J.Khamraev. Information and Communication Technologies and Systems in the Economy. Study guide; Karshi:- Intellect, 2023, -172 p. 3. Zaripova, O.O. Zaripov. Information and Communication Technologies and Systems in the Economy. Textbook for students in the field of economics (by industry and sphere). Karshi 2023, 235 pages. 4. N.G.Ergashev, B.J.Kholikulov. Information Technology and JMM. Textbook; Karshi:- Intellect, 2023, -196 p. 5. Qahramonova X. Information Technologies in Technical Systems. Study guide; Karshi:- Intellect, 2021, -236 p.
Editors	1. F. Norkobilova - Head of the Department of 'Business and Management' of Karshi State Technical University, Doctor of Philosophy in Economics, Associate Professor. 2. M.Ravshanova - Associate Professor of the Department of NMT 'Economics' at University of Economics and Pedagogy.
Place and Date of Approval	Developed and approved by Karshi State Technical University (Report № 1, 26.08.2025)