REPUBLIC OF UZBEKISTAN

MINISTRY OF HIGHER EDUCATION, SCIENCE AND INNOVATIONS

FERGANA STATE TECHNICAL UNIVERSITY

BUSINESS ANALYSIS

MODULE HANDBOOK

Field of knowledge:	700000 - Engineering, manufacturing and construction
Field of education:	730000 - Architecture and construction
Education program (Major):	60730300 - Civil engineering

Fergana 2025

Module title	Business analysis
Code (if available)	BAT46
Semester(s) of module teaching	*4*
Responsible for the module	*Mexmonaliyev Ulugbek Erkinjon ugli, Senior lecturer, department of finance and accounting, Doctor of philosophy (PhD) in economics.*
Language of instruction	*Uzbek*
Connection to the curriculum	*Elective*
Teaching methods	*Lectures, practical sessions and independent study*
Study load (including classroom and independent study hours)	*Total hours: 180 hours* *Auditorium hours: 72 hours* *Lectures: 36 hours* *Practical classes: 36 hours* *Independent study: 108 hours*
Credit units	*6*
Required and recommended prior knowledge for studying the module	*Economic knowledge, business analysis, efficient use of financial and labor resources, effectiveness of commercial and financial activities, and management efficiency*
Module objectives/intended learning outcomes	**Module Objective:** The objective of this module is to teach students how to implement changes within an organization in the field of civil engineering by analyzing business-related issues in the construction of buildings and structures. This includes addressing identified business problems through the implementation of appropriate decisions, identifying broader opportunities for problem-solving, developing new business plans or modifying existing business processes and rules, optimizing organizational structures, and formulating new strategic plans. Furthermore, students will learn to modernize or improve business processes through the analysis of goals, processes, and resources. **Course Tasks** – The course covers the development of students' knowledge, skills, and competencies to analyze the strategic goals of business entities by breaking down reports and data into components (using software tools designed for automated data analysis). It enables students to evaluate the interrelated factors influencing business efficiency as an independent system; to identify opportunities for reducing the cost of specific business projects, attracting additional investments, completing projects on time, and increasing profitability. The course also focuses on assessing the utilization of material, financial, and labor resources, evaluating the efficiency of production, commercial, and financial activities of business entities, analyzing their economic and financial potential and management effectiveness, and making well-founded managerial decisions aimed at increasing the present and future value of assets by identifying strengths and weaknesses in operations. The following knowledge, skills, and competencies are required of students for this course. Upon completion of the course, the **student should be able to**: **Knowledge**: Understand how to analyze the strategic objectives of business entities by breaking down reports and data into components using software tools designed for automated data analysis, and assess the interrelated factors influencing business performance as an independent system.

	Skills: Identify opportunities to reduce the cost of specific business projects, attract additional investments, ensure timely project completion, and increase profitability. **Competencies**: Objectively evaluate the utilization of material, financial, and labor resources; assess the efficiency of production, commercial, and financial activities of business entities; analyze their economic and financial potential, as well as the effectiveness of their management. To achieve the above objectives, students should be able to apply previously acquired subject knowledge to engineering-related tasks based on the following topics: Understand the fundamental concepts, methods, and advantages of business analysis. Study the basics of business analysis as a field of analytical activity. Identify and compare the structural elements of economic analysis and business analysis. Provide information-analytical support for managing the financial results of an economic entity. Understand the theoretical aspects of accounting and analytical support for income and expense management. Analyze the distinctive features of business analysis in the economic activities of an enterprise. Understand management activities within business operations. Determine product quality and assess its competitiveness. Apply business analysis as a tool for ensuring the sustainable development of an enterprise. Understand the methods of business analysis and their role in preventing economic risks. Gain knowledge of bankruptcy and crisis management mechanisms in business activities.
Content	**Module 1: Business analysis as a new branch of analytical work** – Origins and development stages of business analysis – The role of a business analyst in modern enterprises – Job responsibilities, skills, and knowledge of a business analyst – Business models as objects of analysis – Structure, subject, object, and method of business analysis **Module 2: The essence of business analysis** – Concepts and core principles of business analysis – Characteristics of the business analyst profession **Module 3: Organizing inspections for business entity analysis** – Approaches to analyzing business entities – Methods of collecting data on business processes – Stages of conducting business inspections **Module 4: Fundamentals of systemic analysis of business activities** – Management through a systemic approach – Concepts and principles of system analysis – Methodologies for system analysis – Structural analysis of a business entity **Module 5: Methods of business analysis** – Overview of BABOK (Business Analysis Body of Knowledge) – Description of business analysis techniques – Infographics, analysis, and role of the business analyst

	Module 6: Strategic aspects of business analysis – Stages of forming strategic analysis – Business analysis in strategic market management – Types of strategies and their relevance across business life stages – Methodologies for external and internal strategic analysis – Analytical justification of success factors **Module 7: Strategy for sustainable business development and its information support** – Need for strategy development in sustainable development – Definitions, terms, and the theoretical basis of sustainability – Main components of sustainable development strategies – Information provision for sustainable development – International reporting standards and analytical indicators **Module 8: Methods for strategic analysis of the external environment** – Segmentation analysis, PEST analysis – Industry analysis, competitive analysis – Benchmarking, PIMS analysis – Techniques to assess the probability of environmental factors **Module 9: Methods for strategic analysis of the internal environment** – Tools for internal system analysis – Business life cycle analysis, GAP analysis – Portfolio analysis, value chain analysis – Organizational culture and 7S analysis – LOTS analysis **Module 10: Prospects for using operational analysis models in business analysis** – Purpose and principles of operational analysis – Indicators and methods used – Cost allocation (fixed/variable) in financial reports – Using CVP analysis for managerial decisions **Module 11: Mechanisms of applying business analysis in controlling** – Goals and tasks of business controlling – Types and tools of controlling – Controlling models in business entities – Use of modern analytical tools (Business Intelligence) – Developing an efficiency dashboard for proactive management **Module 12: Analytical procedures in business auditing within innovation development** – Procedures for evaluating process efficiency – Controlling business processes in competitive model development – Role of operational auditing in efficiency and competitiveness – Use of audit results in controlling – Building analytical-information systems for active businesses **Module 13: Business process modeling** – Goals and tasks of modeling – Key principles of IDEF0 methodology – Editing and inserting functional blocks

	– Cost analysis – Case study: “Bank Audit” using IDEF0 notation **Module 14: Bankruptcy analysis in business activities** – Understanding bankruptcy in business – Causes and phases of crisis – Crisis prevention and management Exit strategies from crisis situations
Forms of assessment	Oral assessments, written assignments, practical tasks, and final examinations
Requirements for study and assessment	To successfully complete the module, the student must attend classes and obtain the minimum required scores in current, midterm, and final assessments.
Bibliography	**Main Literature** 1. Rahimov M.Y. et al. Economic Analysis. Textbook. Tashkent: “Iqtisod-Moliya”, 2022. 517 pages. 2. Abdullayev A. Economic Analysis and Audit. Textbook. Tashkent: “Cholpon Publishing and Printing Creative House”, 2018. 256 pages. 3. Shoalimov A.Kh., Tojiboyeva Sh.A. Theory of Economic Analysis. Tashkent: "Innovative Development Publishing House", 2021. 274 pages. 4. Rakhimov M.Y., Mavlonov N.N., Kalandarova N.N. Economic Analysis. Study Guide. Tashkent: “Nihol-Print”, 2022. 517 pages. 5. Koryagin N.D. Business Analysis. Moscow: MGTU GA, 2017. 105 pages. 6. Barilenko V.I., Berdnikov V.V., Bulyga R.P. Fundamentals of Business Analysis. Edited by V.I. Barilenko. Moscow: KNORUS, 2020. **Supplementary Literature** 1. Andreyevsky I.L., Aminov Kh.I. Business Analytics. Study Guide. Saint Petersburg: Saint Petersburg State University of Economics, 2019. 73 pages. 2. A Guide to the Business Analysis Body of Knowledge® (BABOK® Guide). International Institute of Business Analysis. Toronto, Ontario, Canada. © 2005–2015. 3. Pardayev M.K., Abdukarimov I.T., Pulatov M.E., Usmanova D.K. Financial Analysis of Enterprises: A Study Guide Based on the Experience of Russia and Uzbekistan. Tashkent: “Innovative Development Publishing House”, 2020. 768 pages. 4. Sagdullayeva Z.A., Choriyev I.N., Mahmudov A., Yuldasheva U.A. Economic Analysis. Textbook. Tashkent: “Iqtisod-Moliya”, 2018. 404 pages. 5. Sagdullayeva Z.A., Yuldasheva U.A., Alimov B.B. Financial Analysis. Textbook. Tashkent: “Iqtisod-Moliya”, 2019. 444 pages. **Information Sources:** 1. www.gov.uz – Official Portal of the Government of the Republic of Uzbekistan 2. www.lex.uz – National Database of Legislative Acts of the Republic of Uzbekistan 3. www.imf.uz 4. Economy and Finance of the Republic of Uzbekistan 5. www.soliq.uz – Official Website of the State Tax Committee of the Republic of Uzbekistan

	6. www.stat.uz – Official Website of the State Committee on Statistics of the Republic of Uzbekistan
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