

REPUBLIC OF UZBEKISTAN
MINISTRY OF HIGHER EDUCATION, SCIENCE AND INNOVATIONS
FERGANA STATE TECHNICAL UNIVERSITY

Construction Planning, Management, and Economics
MODULE HANDBOOK

Field of knowledge: 700000 - Engineering and construction industries

Field of Education: 730 000 - Architecture and construction

Educational program: 60730300 - Civil Engineering

Module title	<i>Construction Planning, Management, and Economics</i>
Code (if available)	<i>CPMET86</i>
Semester(s) of module teaching	<i>8</i>
Responsible for the module	<i>Abdullayev Ibroxim Numanovich, Department of Construction Engineering, Candidate of Technical Sciences, Professor Yunusaliyev Elmurad Maxammatyakubovich, Department of Construction Engineering, Doctor of Science (DSc), docent. Abduraxmanov Ulug'bek Arabdjonovich, Department of Construction Engineering, PhD, Senior Lecturer.</i>
Language of instruction	<i>Uzbek</i>
Connection to the curriculum	<i>Elective</i>
Teaching methods	<i>lectures, practical training, independent study.</i>
Study load (including classroom and independent study hours)	<i>Total hours: 180 hours Auditorium hours: 72 hours Lecture – 22 hours, practical training – 50 hours, independent study – 108 hours</i>
Credit units	<i>6</i>
Required and recommended prior knowledge for studying the module	<i>Physics, Advanced Mathematics, Strength of Materials, Construction Mechanics and Seismic Resistance of Structures, Occupational Safety and Health, Construction Machinery, Construction Process Technology, Building and Structure Construction Technology, etc</i>
Module objectives/intended learning outcomes	Module Objective: <i>The objective of the module is to equip students with knowledge, skills, and competencies aligned with their field of specialization in the organization and economics of construction. This includes mastering the fundamental laws and regulations, the sequence of primary construction processes, their theoretical foundations, and advanced methods for labor organization selection. The module covers topics from the geological and hydrogeological conditions of construction sites where buildings and structures are erected, to the restoration and utilization processes, ensuring compliance with all requirements. Students are trained to independently select and apply the necessary economic calculations and estimate documentation. To achieve this objective, the course aims to develop students' theoretical knowledge, practical skills, economic approaches to construction management, and scientific worldview.</i> <i>Requirements for Students' Knowledge, Skills, and Competencies in the Subject:</i> The student must be able to: <i>- Define the composition of work operations, justify the selection of methods for their execution and the necessary technical means (including computer technology), develop technological maps during organization, and determine the labor intensity of construction economics along with the required quantities of labor, machinery, mechanisms, materials, semi-finished products, and equipment.</i> <i>- Accept completed works, measure the volume of work</i>

	performed, control their quality, prepare schedule plans for specific types of construction and installation works, and implement variant methods of organizing construction according to individual and complex work types. - Possess sufficient qualifications to prepare the construction and installation work project (CIWP), the construction organization project (COP), and manage the economics of construction management.
Content	Module 1. Issues of Capital Construction. Fundamental principles of modern construction. Key conditions for the preparation and organization of construction works. Management of construction activities. Information as the basis of management. Operational management of production. Urban economy planning, management, and organization. The essence, structure, and main directions of the capital fund. Fixed and circulating assets. Module 2. Formation of Pricing and Estimation Works. Cost price of construction and installation works. Main directions for reducing cost price. Free enterprise system. Economic system. The consumer in the economy. The importance of advertising. Demand, supply, and market price. Module 3. Financing Entrepreneurship in Construction. Balance sheet of joint-stock companies. Types of competition and their analysis. Production and marketing. Accounting. Classification of economic resources. Cost price of construction and installation works. Free enterprise system.
Forms of assessment	Oral presentations, written assignments, practical tasks, and final exams..
Requirements for study and assessment	To successfully complete the module, a student must attend classes and achieve the required minimum scores in ongoing, midterm, and final assessments..
Bibliography	1.M.M. Mirahmedov, X.I. Yusupov. <i>Organization and Planning of Construction</i>. Tashkent, 2022. 2.E.M. Yunusaliyev. <i>Urban Construction and Economy: Organization, Planning, Management, and Economics</i>. Fergana, 2020. 3.E.M. Yunusaliyev. <i>Organization and Planning of Construction</i>. Fergana, 2023. 4.I.N. Abdullayev. <i>Technology of Construction Processes</i>. Fergana, 2023. 5.P.P. Oleynik. <i>Organization of Construction Production in the Engineering Preparation of Construction Sites. Methodological Guide</i>, 2018. 6.N.A. Ponyavina, D.I. Emelyanov. <i>Technology and Organization of Construction Production</i>. 2021.

	7.O. Husanxojayev, I. Akhmedov, Sh. Baymatov. <i>Organization and Planning of Hydraulic Engineering Construction. Textbook. Tashkent, TAQI, 2018.</i> 8.M.Y. Siddiqov. <i>Organization and Planning of Construction. Textbook. Tashkent, Mehr-Nuri Publishing, 2024.</i> 9.B.I. Mutalova. <i>Organization, Planning, Management, and Economics of Urban Development. Textbook. Tashkent, 2019.</i> 10.O.Sh. Mamanazarov. <i>Management in Construction, Part 1. Textbook. Tashkent, 2019.</i> 11.O.Sh. Mamanazarov. <i>Management in Construction, Part 2. Textbook. Tashkent, 2019.</i>
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