TECHNICAL OPERATION OF BUILDINGS
(course title)

COURSE SYLLABUS ABSTRACT
of higher education institution
speciality
6-05-0732-02 Real estate expertise and management
(speciality code and name)

	STUDY MODE
	full-time
Year	4
Semester	7
Lectures, hours	34
Practical classes (seminars), hours	16
Pass/fail, semester	7
Contact hours	50
Independent study, hours	58
Total course duration in hours / credit units	108/3

1. Course outline: 1. Introduction. 2. Building deterioration. Types of deterioration. 3. Building service life. Structural reliability. 4. Survey of the technical condition of building structures. 5. Assessment of the technical condition of structures based on preliminary survey data. 6. Methodology for assessing the technical condition and operational characteristics of foundations, basements, and basements. 7. Methodology for assessing the technical condition of structural elements of buildings. 8. Methodology for assessing the technical condition of engineering systems 9. Types of repairs. The system of scheduled preventive maintenance. (PPR) planning of capital and current repairs. 10. Features of seasonal operation of buildings. 11. Causes of premature wear and tear of buildings. And methods of dealing with them.

2. Learning outcomes:

Upon completion of the course, students will be expected to:

– **know:** methods for determining the physical and moral deterioration of buildings; limit values of deviations of specific service lives from average values; features of the system of scheduled preventive maintenance, main features of reconstruction, modernization and overhaul; basic concepts of reliability of operated buildings and structures; types of corrosion of building structures and methods of combating corrosion; technical maintenance of above-ground and underground structures of buildings; basic regulatory documents on the technical operation of buildings; technical preparation of buildings for the spring-summer and autumn-winter seasonal periods;

– **be able to**: correctly assess the physical and moral deterioration of buildings; calculate the average service life of buildings and its structures, deterioration and sudden failures; develop long-term, current and major repairs of buildings and structures; choose optimal design and construction solutions for the reconstruction and modernization of buildings; analyze the reliability of building systems;

– **to possess a skill**: using methods for determining the physical and moral deterioration of buildings, structures and their structures; use of normative, technical and methodological literature.

3. Competencies: Apply the basic laws of real estate management, use knowledge about the structure of technical regulations, and understand the procedures for their development and implementation.

4. Requirements and forms of current and interim certification of students is carried out to determine the compliance of the results of their educational activities with the requirements of educational standards, curriculum, and documentation of educational programs of higher education. The form of current certification of students is a pass. Current certification is carried out in oral and written form. The form of intermediate certification is the defense of individual assignments, which are carried out orally.