RECONSTRUCTION OF BUILDINGS AND STRUCTURES
(course title)
COURSE SYLLABUS ABSTRACT

Speciality 6-05-0732-02 – Real Estate Appraisal management _

	STUDY MODE
	full-time
Year	4
Semester	7
Lectures, hours	16
Practicalclasses (seminars), hours	16
Credit, semester	7
Contact hours	32
Independent study, hours	76
Total course duration in hours / credit units	108/3

1. Course outline

Includes the study of the theory and practice of reconstruction of buildings and structures, taking into account modern methods, techniques and practical experience in assessing the technical condition, technologies for strengthening structures (foundations, walls, ceilings) and the reconstruction of objects.

2. As a result of mastering the academic discipline, the student should know: scientific and theoretical principles and methods of reconstruction of objects, methods of surveying and assessing the technical condition of structures, technologies for strengthening load-bearing elements (foundations, walls, ceilings), technologies for reconstruction (increasing the number of storeys, adding new volumes, redeveloping premises, changing the functional purpose), features of work performance in the conditions of an operating enterprise or dense urban development, methods of modernization of engineering systems, rules for the development of design documentation for the reconstruction of buildings, building codes regulating the requirements for reconstruction; be able to: identify defects, conduct an engineering survey, assess physical and moral deterioration, develop design and estimate documentation for strengthening, reconstruction or modernization, design the strengthening of the foundation, supporting structures, the construction of superstructures/extensions, redevelopment, draw up calendar plans and process maps for the reconstruction of facilities, apply current building codes during reconstruction; have the following skills: determining the types and volumes of work on the reconstruction of facilities, surveying the technical condition of facilities, assessing depreciation, designing the strengthening of load-bearing structures (foundations, walls, floors); developing reconstruction technologies taking into account functional repurposing, selecting modern materials for the repair and strengthening of structures; methodology for analyzing the latest achievements of construction science and practice in the reconstruction of buildings and structures.

3. Developed Competencies

Apply modern technologies for repair and restoration of building structures for the reconstruction of buildings.

4. Ongoing student assessment is conducted to determine whether their academic performance meets the requirements of educational standards and the curriculum documentation of higher education programs. Interim student assessment is conducted through credit assessment. Interim assessment is conducted in oral and written form. The forms of current certification are: survey, defense of an i

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