Fan name	Graduation Project (ECTS 6)
Subject/module code	B1L1706
Science teachable semesters	7 semester
Attached teacher	L. Abdusamatova , assistant .
Education language	Uzbek
Science type	Mandatory
Study hours (including independent learning)	**Total hours - 180.** **Auditory training hours - 72.** Lecture session hours - 24 Practical study hours - 48 **Independent education -108 hours**
ECTS	6
Aims and objectives of science / learning outcomes	of **the discipline** is to gain extensive experience in the implementation of a graduation project, to know the features of the formation of architectural planning solutions that arise under the influence of natural climatic conditions and internal complex functional-technological processes. It is required to form knowledge, skills and qualifications about the stages, factors, methods, types of architectural design, to design and implement it in practice related to construction in general and architecture in particular, to conduct productive creative activities, and to have the necessary professional and personal skills; **The task of the discipline** is to teach students the characteristics of mastering the architectural design process, as well as to acquire a solid understanding of the fundamentals of architecture, the ability to use appropriate technical tools, and the ability to form, model, analyze, design, and use architectural systems. **Learning outcomes:** 1. Be able to evaluate the work done in this area; 2. Be able to identify the most effective modern methods and literature related to the design of residential and public buildings; 3. Be able to identify the most effective modern methods and literature related to the design of residential and public buildings; 4. Be able to analyze data related to the design of residential and public buildings 5 . In practice taken information analysis can to take and main mechanisms understanding
Course content (topics)	**I. Practical for training instructions and recommendations.** The teacher's preparation for a practical session begins with studying the initial documents (curriculum, thematic plan, etc.) and ends with the development of a lesson plan. The teacher should have an idea of the goals and objectives of the practical session, as well as the amount of work that each student must complete. Methodological guidelines are the teacher's main methodological document in preparing and conducting practical classes. The goal of practical training is to understand theory and acquire skills. Its conscious application in educational and professional activities consists in developing the ability to confidently formulate one's own point of view. **Recommended report topics** : **1.** 1. Purpose, objectives, structure and procedure for completing the graduation project; normative and methodological requirements 2. Choosing a topic and justifying its relevance; formulating a task (technical assignment) 3. Pre-project research: literature analysis, analogues and study of foreign

	and local experience 4. Project site analysis: urban context, relief, climate, infrastructure and transport links 5. Creating a functional program, developing a room layout and area table 6. Formation of the architectural concept and idea; sketch stage 7. Development of volumetric and spatial composition, master plan and landscape solution 8. Plan, section and facade solutions; harmonization of structural and engineering systems 9. Implementation of national architectural traditions, principles of sustainable (green) architecture and energy efficiency in the project 10. Modern digital tools: BIM, 3D modeling, visualization and parametric design 11. Substantiation of the project's technical and economic indicators, fire safety and accessibility requirements for citizens with reduced mobility 12. Graphic materials (tablets), layout and explanatory note preparation; defense preparation and presentation skills **Practical training topics:** 1. Assigning an assignment on the topic of the pre-graduation project. Conducting a scientific-analytical dialogue, familiarizing with literature and methodological works. 2. Indicate the nature, technology, territorial location, and architectural and structural requirements of the object on the topic. Basic principles of modern residential architecture. 3. Study the object by going to the building analog on the topic. Study local and foreign experiences on the building analog. Work on the sketch. 4. Work on a sketch idea on the topic. Sketch Variant. Design elements, standards, objects methodological analysis of projects. 5. Taking into account functional processes in the sketch idea. Methodological analysis of the sketch. Functional zoning in an individual dwelling 6.Formulation of the concept of the idea. Preparation for the final conclusion. Formation of a solution for building costs. 7. Complete the drawing of all the components of the project in the cloister. Color the facade and perspective view of the building in the cloister. 8. Analysis and discussion of the final conclusion. The project to scale. 9. Complete the development of the project idea. The project to compose on a scale. 10. Prefabrication and modular architecture. Structural analysis. Working out the building's cross-section at scale. 11. Complete and complete the development of a project model to scale. Draw all the project drawings to scale and correctly dimension them. 12. Work on the overall design of the project in color graphics. Overall design The solution is to create parking spaces, recreational areas, and landscaping. 13. Analysis of the project solution - technical and economic indicators Formation. Graphical representation of the project. 14. Perform graphic modeling. Project work requirements to complete within the framework. 15. Project submission. Project discussion. **IV. Independent study and independent work.** Independent learning competence serves to support students'

	independent self-development and increase the effectiveness of professional activities. Students perform independent work on their mobile devices under the guidance of a teacher in a traditional or electronic form. **Recommended topics for independent study:** The student submits a formal explanatory letter on the topic of his/her chosen pre-graduation project.
Student assessment	Assessment of student knowledge is based on the mastery of teaching materials (tests, assignments, written and oral work results) during the semester and final examination. During the graduation project course, students are evaluated on a 100-point system. Of these, 50 points are allocated to the current and intermediate results (60% of the 50 points are current control, independent study and 40% intermediate control), and 50 points are allocated to the final control result. Students whose total score of current and intermediate points is less than 30 points are not admitted to the final control exam. A student who scores 30 or more points in the final control is considered to have mastered the subject.
Exam requirements	The student must have fully mastered the theoretical and practical concepts of the subject, be able to correctly reflect the results of the analysis. The student must have completed the tasks assigned in the independent work, current and intermediate forms of assessment. At the same time, he must have received the necessary points from the current, intermediate, independent education and final tests in the relevant subject within the specified time. A student who has not submitted current control, intermediate control, and independent learning assignments, as well as who has scored less than 30 points for these assignments and control type, will not be included in the final control type. Also, a student who misses 25 percent or more of the classroom hours allocated to a subject without an excuse will be expelled from that subject, will not be allowed to take the final exam, and will be considered to have not acquired the appropriate credits in that subject. A student who fails a final exam or scores between "0-29.9" on this type of exam is considered an academic delinquent.
Recommendation literature	**Main literature:** 1. SAQodirova, MTAbdujabborova. “Design of residential and public buildings” textbook. - Tashkent.: Nizamiy State Technical University, 2019. – 300 pages. 2. AOXasanov, “Architectural Design” textbook. - Tashkent.: “Architectural Innovation Center”, 2019. – 140 pages. 3. “Architecture of Civil Buildings” Usrov Jamoliddin Tulkinovich Textbook. Publishing house of the JizPI Typography Jizzakh-2026, page 255 4. SHNQ 1.04.02-22, approved by the order of the Minister of Construction and Housing and Communal Services of the Republic of Uzbekistan dated July 9, 2024 No. 01/2-26 5. Minister of Construction and Housing and Communal Services of the Republic of Uzbekistan 6. SHNQ 2.08.01-24, approved by order No. 01/2-57 of August 14, 2024 **Additional literature** 7. Inogomov BI Design of modern buildings and structures. Textbook. - Tashkent.: "Architecture Innovation Center", 2010. - 187 pages 8. SAQodirova. Design of public buildings. Textbook. – Tashkent.: “Architecture Innovation Center”, 2015. – 140 pages 9.MT Abdujabborova. Design of residential buildings. Textbook. – Tashkent.: “Architecture Innovation Center”, 2015. – 154 pages

	10. Inogomov BI Design of modern buildings and structures. Textbook. - Tashkent.: "Architecture Innovation Center", 2010. - 187 pages **Information sources** 11. https://api.ziyonet.uz/uploads/books/634149/5b34935e78e94.pdf 12.www.forum.vm.ru, www.autodesk.com – websites 13.ttps://fayllar.org/pdfview/4-chizma-geometriya-haqida-umumiy-malmomot- auto-cad-dasturi-v2.html 14. https://www.ucl.ac.uk/bartlett/architecture/study/design-units-design-studios-and-research-clusters/architecture-bsc-design-units