Course title	**Regulatory Documentation System in the Construction Industry (4 ECTS)**
Topic/module code	QSM1104
Semester(s) in which the course is taught	Semester 1/1
Assigned instructor	Aliyev Mahsrab Rahmonqulovich, Associate Professor
Language of instruction	Uzbek
Course type	Compulsory
Study workload (including independent study)	**Total workload – 120 hours.** **Contact hours – 36 hours.** Lecture hours – 18 Laboratory hours – - Practical class hours – 18 **Independent study – 84 hours**
ECTS credits	4
Course objectives, tasks and learning outcomes	**The aim of this course** is to provide students with the theoretical foundations of architectural knowledge, teach them to design residential, public and industrial buildings in accordance with current construction standards and regulations, and develop the skills needed to apply these requirements in practice. **The objective of the course** is to develop students' theoretical knowledge and practical skills in the field of the regulatory documentation system used in construction, a methodological approach to applying regulatory documents in the building design process, and a scientific outlook. **Learning outcomes:** 1. Analyse the content of regulatory legal documents in the construction sector, construction norms and regulations, national standards and technical regulations, and apply them in professional practice. 2. Apply the requirements of current regulatory documents during the design, construction and operation of buildings and structures, and assess compliance with these requirements. 3. Analyse the conformity of construction projects and technical documentation with current regulatory documents and make engineering decisions based on regulatory requirements. 4. Effectively use national standards, construction norms and technical regulations to ensure construction quality, reliability and safety. 5. Work with regulatory documents in the construction sector and use them to solve practical problems. 6. Verify and analyse the compliance of construction projects and working documentation with the requirements of regulatory documents. 7. Assess compliance with regulatory requirements at construction sites and prepare technical conclusions and recommendations regarding identified deficiencies. 8. Acquire the skills to search for, analyse and apply the necessary regulatory documents in professional activities using electronic regulatory databases and information systems.
Course content (topics)	**I. Main theoretical section (Lectures)** **Topic 1:** Reforms in the architecture and construction sectors of the Republic of Uzbekistan and the system of regulatory documents. **Topic 2:** Scope of design documentation for capital construction of enterprises, buildings and structures; procedures for its preparation, development, coordination and approval. **Topic 3:** Author's supervision and technical supervision in construction. Fire safety regulations for buildings and structures and measures to ensure fire safety. **Topic 4:** Seismic-resistance requirements in the design of buildings and structures. Climatic and engineering-geological data for design.

	Topic 5: Building thermal engineering in construction. Provision of natural and artificial lighting. **Topic 6:** Noise protection in the design of buildings and structures. **Topic 7:** Basic principles for the design of residential buildings. **Topic 8:** Basic principles for the design of public buildings. **Topic 9:** Basic principles for the design of industrial enterprises. **II. Guidelines and recommendations for organising laboratory classes.** Laboratory classes are not included in the curriculum **III. Guidelines and recommendations for practical classes.** The teacher's preparation for practical classes begins with studying the initial documents (the curriculum, thematic plan and other materials) and concludes with the preparation of a lesson plan. The teacher should have a clear understanding of the aims and objectives of the practical class and the amount of work to be completed by each student. Methodological guidelines are the teacher's principal methodological document for preparing and conducting practical classes. The purpose of practical classes is to understand theoretical concepts and acquire skills. They are intended to develop the ability to apply such knowledge consciously in academic and professional activities and to formulate and substantiate one's own point of view. **Recommended practical topics:** 1. Activities carried out and future plans in the fields of architecture and construction in the Republic of Uzbekistan. 2. Main objectives of the technical standardisation system in the construction sector. 3. Purpose and objectives, basic concepts and essence of the system of regulatory documents in the construction sector. 4. International experience in establishing a system of regulatory documents for the construction sector. 5. Requirements of ShNQ 1.01.01-09, "System of Regulatory Documents in Construction. General Provisions". 6. Requirements and regulatory documents for determining the physical and mechanical properties of concrete. 7. Construction and climatic zoning. Outdoor air parameters. 8. Seismic requirements for buildings (structures) during their design and construction. 9. Fire safety requirements for buildings (structures) during their design and construction. **IV. Independent study and individual work.** Independent learning competencies help students develop themselves independently and improve the effectiveness of their professional activities. Students complete independent assignments on their mobile devices under the guidance of the instructor, either in the traditional format or electronically. **Recommended topics for independent study:** 1. Content of the course "Regulatory Documentation System in the Construction Industry". Development of construction and architecture. 2. Main objectives of the system of regulatory documents in the construction sector. 3. Physical quantities used in construction. 4. Scope of design documentation for capital construction of enterprises, buildings and structures; its preparation, development, coordination and approval.

	5. Author's supervision and technical supervision in construction. Fire safety of buildings and structures. 6. Selection of climatic and engineering-geological data for design. 7. Analysis of the spatial and planning solutions of residential buildings. 8. Construction in seismic zones.
Student assessment	Student knowledge is assessed during the semester and in the final assessment based on the level of mastery of the learning materials, as demonstrated through tests, assignments, and written and oral work. Throughout the course "Regulatory Documentation System in the Construction Industry", students are assessed on a 100-point scale. A total of 50 points is allocated to current and midterm assessment (60% of these 50 points for ongoing assessment and independent study, and 40% for midterm assessment), while the remaining 50 points are allocated to the final assessment. Students who score fewer than 30 points in total in the current and midterm assessments are not admitted to the final examination. A student who scores 30 points or more in the final assessment is considered to have passed the course.
Examination requirements	Students must fully master the theoretical and practical concepts related to the subject and be able to present the results of their analysis accurately. Students must complete the independent work and assignments set as part of the current and midterm assessment. They must also obtain the required scores in current assessment, midterm assessment, independent study and final assessment within the specified period. A student who fails to submit current assessment, midterm assessment or independent study assignments, or who scores fewer than 30 points for these assignments and assessment components, will not be admitted to the final assessment. Furthermore, a student who, without a valid reason, misses 25% or more of the contact hours allocated to the course will be excluded from the course, will not be admitted to the final examination and will be considered not to have earned the relevant credits for the course. A student who fails the final examination or scores between 0 and 29.9 points in this examination is considered to have an academic debt.
Recommended literature	1.Mirzayev Sh.R., Vaxitov M.M. Me'morchilik II–qism. "Fuqarolik binolari". Darslik. Toshkent, 2010-y. 255 bet. 2.Janizaqov A.E. "Arxitekturaviy konstruksiya". Darslik. Jizzax-2023 3.Aliyev M.R. Bino va inshootlar zilzilabardoshligi. O'quv qo'llanma. Jizzax: "So'g'diyona nashriyot matbaa uyi", 2023 - 108 b. 4.ShNQ 1.01.01-09. Qurilish sohasidagi normativ hujjatlar tizimi. 5.SHNQ 2.01.02-04 Bino va inshootlarning yong'in xavfsizligi 6.QMQ 2.01.03-19 Seysmik hududlarda qurilish. 7.ShNQ 2.01.01-22. Loyihalash uchun iqlimiy va fizikaviy geologik malumotlar 8.ShNQ 2.01.04-18 Qurilishda issiqlik texnikasi 9.ShNQ 2.01.05-24 Tabiiy va suniy yoritish 10.ShNQ 2.08.01-24 Turar joy ob'yektlarini loyihalash 11.SHNQ 2.08.02-23 Jamoat binolari va inshootlari. 12.ShNQ 2.09.02-23 Korxonalarning ishlab chiqarish hamda ma'muriy-maishiy bino va inshootlari. Loyihalash talablari 13.www.mc.uz 14.https://gov.uz/oz/mc/sections/shaharsozlik-normalari-qurilish-va-texnik-reglamentlar 15.www.ZiyoNet.uz