

# Bachelor's Educational Program Architecture

## Admission Prerequisites to the Program

The right to study in an English bachelor's educational program "Design" has a holder of a state certificate confirming complete general education or a document equivalent to it, who is enrolled in accordance with the procedure established by the legislation of Georgia.

In addition, in order to be eligible to study for the English-language Bachelor's educational program "Architecture", the applicant must:

1. Successfully pass an interview with the GTU special commission. During the interview, applicants are required to present a motivation letter and verbally justify their choice for studying the program, as well as present their work in the form of a portfolio. "The portfolio must adhere to the requirements outlined in the creative tour regulations. <https://gtu.ge/ids/apply/bachelor.php> ).
  2. Enrollment in the program without passing the unified national exams is possible according to the rules established by the legislation of Georgia. <https://gtu.ge/en/apply/bachelor.php> . In this case, the applicant must present a certificate of at least B1 level confirming knowledge of the English language.
- Applicants with secondary or higher education in English are not required to present a certificate.

## Program Objectives

To prepare a competitive, practical work-oriented architect with competencies that are in compliance with international and local requirements, and who will have: High sense of civic consciousness, creative activity, and spatial thinking; the knowledge of basics of architecture, its essence, regularities of development, key principles and methods of design, modern technologies, architectural and construction norms, rules, and legislative demands;

To develop student decision-making skills, ability to share best practices in the field of architecture, skills of professional communication in English, critical analyzes of problems related to the field and drawing the proper conclusions; Who will have general and sectoral competencies that ensure competitiveness in the architectural services market;

## Learning Outcomes / Competencies (general and professional)

After completing the educational program, the graduate:

- Possesses the basics of architecture history, theory and related academic fields: art, technology, social and humanitarian sciences and understands their impact on the quality of architectural design;
- Explains socio-cultural, urban, architectural values, responsibilities for environmental protection and architectural heritage, public requirements, customer and user interests, legal regulations and norms of professional ethics of architects, and the role and importance of the architectural profession;
- Describes the procedures and processes necessary for the implementation of architectural projects/concepts, as well as some of the latest methods and aspects of design theory;
- Differentiates and identifies structures, materials, construction processes, technologies, and other engineering issues related to building systems;
- Quantitatively analyzes and critically evaluates complex, incomplete, and contradictory pre-project data, clearly conveys the results of their analysis, and convincingly defends the decisions made based on them;

- Formulates complex tasks related to the creation of the project concept and the design of buildings, ways to solve them, and makes appropriate decisions;
  - Creates architectural project - using various research methods, imaginative and creative approaches, spatial thinking, and analysis of collected information, taking into consideration humanitarian, social, demographic, cultural, architectural-urban, climatic preconditions, aesthetic, functional, technological, safety, ergonomics, technical regulations, environmental and current legal requirements;
  - Considers and reflects in the project, as in a complete summary document, constructions, technologies, technical, aesthetic, and operational properties of materials, as well as transport, communication, technical and security systems;
  - Uses electronic, graphic, modeling, verbal, written, multimedia, and other methods, a full range of educational and information resources obtained from various sources, and, the results of its analysis;
  - Demonstrates effective communication with people involved in the process of architectural activities, in compliance with the requirements of professional ethics and the principles of responsibility, expressed by verbal, written, graphic and technological means;
- Determines individual learning needs and plans his / her own professional development priorities.

### Methods of Achieving Learning Outcomes (Teaching - Learning)

- Lecture  Seminar (working in groups)  Practical class  Laboratory  Practice  
 Course work/project  Consultation  Independent work

Based on the specifics of course, the appropriate methods and appropriate activities listed below are employed, reflected in the relevant academic courses (syllabi): Discussion/debates, Cooperative teaching, Collaborative work, Problem-based learning (PBL), Heuristic, Case study, Brainstorming, Role-playing games and simulations, Demonstration, Inductive, Deductive, Analytical, Synthetic, Verbal or oral, Written, Explanatory, Activity-oriented teaching, Designing and presenting a project.

### Student's knowledge assessment System

Grading system is based on a 100-point scale.

Positive grades:

- (A) - Excellent - grades between 91-100 points;
- (B) - Very good - grades between 81-90 points
- (C) - Good - grades between 71-80 points
- (D) - Satisfactory - grades between 61-70 points
- (E) - Pass - the rating of 51-60 points

Negative grades:

- (FX) - Did not pass - grades between 41-50 points, which means that the student is required to work more to pass and is given the right, after independent work, to take one extra exam;
- (F) - Failed - 40 points and less, which means that the work carried out by the student did not bring any results and he/she has to learn the subject from the beginning.

Assessment of the student's level of achievement includes mid-term and final assessments in each component of the program. The midterm assessment consists of current activities and a mid-semester exam.

Forms, methods, criteria, and scale descriptions for assessment of students' knowledge are given in the attached Syllabi.

The detailed information is given in the Instructions for managing the educational process at the

## Courses in the Program

| Nº | Learning Course                                                | ECTS Credits |
|----|----------------------------------------------------------------|--------------|
| 1  | Elements of Linear Algebra and Analytic Geometry               | 5            |
| 2  | Basics of Architectural Composition                            | 5            |
| 3  | Freehand Drawing                                               | 5            |
| 4  | Graphics for Architectural Design                              | 5            |
| 5  | CAD Studio                                                     | 5            |
| 6  | Professional Language and verbal communications - Level I      | 5            |
| 7  | Pre- modern Architecture                                       | 5            |
| 8  | Surveying in Architecture                                      | 5            |
| 9  | Advanced Drawing                                               | 5            |
| 10 | 3D Visualization                                               | 5            |
| 11 | Professional Language and verbal communications - Level II     | 5            |
| 12 | Design Studio for Beginners                                    | 5            |
| 13 | Modernism in Fine Arts and Architecture                        | 5            |
| 14 | Structures 1                                                   | 5            |
| 15 | Architectural Material Science                                 | 5            |
| 16 | Portfolio for Architects                                       | 5            |
| 17 | Security and The City                                          | 5            |
| 18 | Design Studio and Project Presentation                         | 5            |
| 19 | Architecture Today                                             | 5            |
| 20 | Introduction to Ergonomics                                     | 4            |
| 21 | Georgian History and Culture                                   | 5            |
| 22 | Structures 2                                                   | 5            |
| 23 | Green Design and Nature- Based Solutions for Urban Environment | 5            |
| 24 | Environmental Protection and Ecology 2                         | 5            |
| 25 | Creative Design Studio                                         | 6            |
| 26 | Principles of Social Sciences                                  | 4            |
| 27 | Design and Social Anthropology                                 | 4            |
| 28 | Philosophy and Architecture                                    | 4            |
| 29 | Architectural Physics and Building Technologies                | 5            |
| 30 | Landscape Architecture                                         | 5            |
| 31 | Sustainable Design Studio                                      | 6            |
| 32 | Urban Planning and Design                                      | 5            |
| 33 | Architect and Society                                          | 3            |
| 34 | Occupational Health & Safety                                   | 4            |
| 35 | Sustainable Architecture                                       | 5            |
| 36 | Urban Design Studio                                            | 5            |
| 37 | Contextual Design Studio                                       | 8            |

| Nº | Learning Course                                                  | ECTS Credits |
|----|------------------------------------------------------------------|--------------|
| 38 | Engineering equipment of buildings                               | <b>5</b>     |
| 39 | Architectural Work Placement (Practice)                          | <b>5</b>     |
| 40 | Sustainable Interior Design Studio                               | <b>5</b>     |
| 41 | Innovative Design Studio                                         | <b>10</b>    |
| 42 | Architectural Theory and Criticism                               | <b>5</b>     |
| 43 | Ethics and Legislative Basics of Architectural and Urban Design. | <b>5</b>     |
| 44 | Architectural Project Management                                 | <b>5</b>     |
| 45 | Bachelor's Architectural Project                                 | <b>10</b>    |
| 46 | Free component                                                   | <b>20</b>    |