საქართველოს ტექნიკური უნივერსიტეტი
GEORGIAN TECHNICAL UNIVERSITY

Doctoral Educational Program

Title of the Program

Architecture

Faculty

Faculty of Architecture, Urban Planning and Design

Program Supervisor/ Supervisors

Professor Medeia Melkadze

Qualification to be Awarded, and the Number of Credits in the Program

Doctor in Architecture
Doctorate - level title will be awarded to a student in case of completion of both 45 credits of study component of the educational program and the research component
The duration of the program is extended up to 3 years of study.

Teaching Language

Georgian

Admission Prerequisites to the Program

Diploma of Master of Architecture or equivalent academic degree. The following will be taken into account: existence of scientific publications, participation in scientific conferences, other documents or materials related to learning/research activities (certificates, diplomas, patents, etc.) Interview with the Faculty Temporary Commission. Applicants for enrollment in the program must submit: a research project - outlining both the purpose and the direction of the applicant's research. Applicant must also present a relevant International Certificate of English language proficiency at B2 level, or must pass an exam at Examination Center of Georgian Technical University.

Applicants with a higher education in English will not be required to submit a certificate or take an exam. In case the applicant receives a positive grade in English, he/she will be interviewed by the Faculty Temporary Commission. Rules for admission to the doctoral program and the conditions for the enrollment are available on the University website.
Enrollment in the program through mobility is possible within the deadlines set by the Ministry of Education and Science of Georgia, following mandatory procedures and rules established by the University. Enrollment in the program, or enrollment by a transfer from the approved higher

education institution of a foreign , is carried out in accordance with the rules defined by the legislation of Georgia.

Program Description

The educational program is compiled through the European Credit Transfer System ECTS; 1 credit corresponds to 25 academic hours and includes both contact and independent working hours. Distribution of credits for the study component provided by the program is given in the curriculum.

The duration of the program is extended up to 3 years of study (6 semesters).

The objectives of the study component are to prepare the doctoral student in both field and methodology for the implementation of the objectives of the doctoral educational program. The study component assists the doctoral student in the successful preparation of the dissertation and in future pedagogical and scientific activities. The study component of the doctoral program consists of 45 credits.

Before the beginning of the semester, the Rector of the University will issue an order on the progress of the study process, which will be available on the website.

The study component is implemented in I-II semesters and its component, distributed over the semesters, is given in the program curriculum.

The stages of the research component provided by the program are: research project / prospectus I and II, colloquium - 1, colloquium - 2, colloquium - 3, pre-defense and completion of the dissertation.

Adherence to the sequence of execution of stages of the research component is mandatory and the performance of each stage is a prerequisite for the next one.

The research component is evaluated on one-time bases on the last stage of the dissertation defense and is followed by the final evaluation.

 Detailed information is given on the GTU website.

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Program Objective

The goal of the doctoral program "Architecture" is:

- to prepare a specialist who will be able to: conduct both scientific-analytical research and work at a high professional level in the field of architecture;
- to enable the graduate student to study-analyze scientific problems in depth, to draw reasoned conclusions and to discuss them correctly and objectively;
- to develop the ability of pedagogical activity in the relevant direction, by which he / she will be able: to conduct lessons using different teaching-learning methods, supervise scientific works of Bachelor's, Master's and Doctoral students to further lead educational programs.

Learning Outcomes/Competences (general and professional)

1. Re-understands the knowledge based on the latest achievements in the field of architecture and realizes the updated scope of knowledge through partial re-assessment, which **allows** the use of innovative methods in the process of activity.

2. In compliance with the principles of academic conscientiousness, he/she independently **plans** and **implements:**

   - Research in the field of architecture using innovative, analytical methods and scientific communication techniques;
   - Development of new technologies and energy saving projects in architecture;
   - Publication of research results conducted in different areas of architecture in international peer-reviewed scientific journals;

3. Based on analytical and logical thinking he/she:
   - sets goals and ways to achieve them and promotes criteria formation;
   - critically analyzes, synthesizes and evaluates complex and contradictory ideas, as well as the latest approaches;
   - makes right and effective decision to solve the problem independently;
   - develops new research methods and approaches, which are focused on creating new knowledge and are reflected in International peer-reviewed publications;
   - interprets data obtained on the basis of the latest architectural studies, forms reasonable conclusions based on critical analysis and develops practical recommendations.

4. **Prepares** written information on the problems in the field of architecture, creates the ways to solve them and **formulates** them verbally in the form of complex issues;

5. **Informs** general public about the results of his / her scientific research and **conducts** both local and international architectural forums and conferences;

6. **Explores** ways to establish professional values and **develops** innovative methods to implement them in practice.

7. **Adheres** to the accepted norms of professional values and ethics in the field of architecture.

Methods of Achieving Learning Outcomes (Teaching - Learning)

☒ Lecture ☒ Seminar (working in groups) ☐ Practical class ☐ Laboratory ☒ Scientific-Thematic Seminar ☒ Independent Work ☒ Consultation ☒ Research component ☒ Consultation Design of Doctoral Thesis ☒ Doctoral Thesis

Based on the specifics of a learning course, the appropriate activities listed below are employed, reflected in the relevant learning courses (syllabi):
1. Discussion / debate
2. Collaborative work
3. Problem based learning
4. Case study
5. Brain storming
6. Demonstrate
7. Induction
8. Deduction
9. Analysis
10. Synthesis
11. Verbal or orally transmitted
12. Written work
13. Explanation
14. Action-oriented training
15. Project planning and Presentation

Student knowledge assessment system

Grading system is based on a 100-point scale.
Assessment of learning component:
Positive grades:
- (A) - Excellent - the rating of 91-100 points
- (B) – Very good - - the rating of 81-90 points
- (C) - Good - the rating of 71-80 points
- (D) - Satisfactory - the rating of 61-70 points
- (E) - Enough - the rating of 51-60

points Negative grades:
- (FX) - Did not pass - 41-50 points of rating, which means that the student needs more work to pass and is given the right to take the exam once more with independent work;
- (F) – Failed - 40 points and less, which means that the work carried out by the student is not enough and he/she has to learn the subject from the beginning.

Assessment of scientific-research component/components:
a) Perfect (summa cum laude) – excellent work;
b) Very good (magna cum laude) – result which is more than required;
c) Good (cum laude) – result which fully complies with the requirements;
d) Fair (bene) – result which fully complies with the requirements in spite of some flaws;
e) Satisfactory (rite) – result which complies with the requirements in spite of some flaws;
f) Insufficient (insufficienter) – result which does not complies with the requirement because of significant flaws;
g) completely unsatisfactory (sub omni canone) – result which does not complies with any requirements.

Sphere of Employment

- Scientific-research and educational-educational institutions;
- Local self-government permitting, regulating and controlling bodies;
- Municipal Service of Architecture;
- Municipal Improvement Service;
- Municipal Environmental Service;
- City Transport and Urban Planning Service;
- International donor organizations;

Human and Material Resources Required to Implement the Program

The program is provided with appropriate human and material resources. In order to achieve learning outcomes, provided by the Doctoral program, auditoriums, equipped with necessary technical base and laboratory of Architectural Physics and Multimedia Design are involved in the learning process, as well as Educational-Scientific Center for studying problems of Urban-Building Ecology, Educational-scientific and project center, promoting architectural education. The educational program is provided with relevant manuals and methodological literature. The University Library provides students with relevant printed and electronic monographs, manuals, teaching methodological and scientific literature, library book fund database and electronic catalogue uploaded on the University website.

The program will be implemented by 32 academic and visiting staff. For more information about the program manager and implementers, see the attached documentation (CV).

Number of Attached Syllabuses: 8