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TACEESM 2020|23

1. Subject

Կայուն Ճարտարապետություն (Sustainable Architecture) (Teaching on master level, 2 ECTS)

2. Goals of the Course

Nowadays the main challenges cast on architecture and urban planning have changed. Their fundamental idea is to create environment without damaging nature. The goals of the course are to acquaint the students with semantic approaches to "Environment Maintenance", "Basics of Green Design", "Reduction of nature protection damages", "bioclaimatic design", "use of recyclable building materials" and design of "Ecologically sustainable" buildings and cities.

3. Expected Study Outcomes

At the end of the course the expected outcomes are as follows:

- Semantic learning of the Sustainable Architecture concept
- Analysis of current problems, application of instruments and diagnosis
- Possible solutions and approaches to the problems
- Use of sustainable architecture approaches in newly constructed facilities
- Ability to organize and manage topic discourse
- Competence to critique the research conducted
- Efficient presentation competence
- Team work skills

4. Անհրաժեշտ հիմնարար գիտելիքները Fundamental Knowledge Necessary

The topic of the course is extensive, so it can be divided in two parts/segments/ - elementary and advanced.

 Efficient teaching of the Elementary Course requires basic knowledge of architecture and urban design while the Advanced Course efficiency requires the Elementary Course on the whole.

5. Դասավանդման մեթոդները Teaching Methods

The course will be carried out by interactive means, slides and presentations, video films and active discussions, at the most involving students with self-expression opportunities and boosting the development of professional critical thinking.

During the course students are divided into groups of 3-4 people during to accomplish a project, offer topics that interest and excite them and realise a project on the conceptual level where they learn team work as well.

In epidemic conditions it's possible to fully apply the above mentioned format on-line.

6. Գնահատման մեթոդները Assessment Methods

The aim of Assessment is to mainly test the student's competences and is void of any formal nature.

Assessment emphasis will be:

- Oral test (skills in mastering the topic and providing answers)
- Project work out (realisation of team work, presentation in class, others)
- Ability to organize the knowledge discursively
- Competence to critique the research conducted
- Presentation quality, topic vocabulary use competence, efficiency

7. Պահանջվող գրականությունը References Required

The following list of references is offered in advance:

- 101 Rules of Thumb for Sustainable Buildings and Cities, by Huw Heywood, RIBA Publishing, ISBN: 9781000708059
- Amirkhanyan Alen, Sekoyan Tigran, Hambardzumyan Ruben, Hambaryan Artak, Green Architecture, Energy Efficiency and Renewable Energy, Yerevan, UNDP, 2015, 410 p.
- Other video films and additional literature which will be provided to the students throughout the course.