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**Transforming Architectural and Civil Engineering Education towards
a Sustainable Model (TACEESM)**

WP2. New Courses suggested for development by the NUACA

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16th April, 2021 p.

WP2 - Development of new courses in the field of architecture and civil engineering

DESIGNED COURSES FROM APPLICATIONS

ARCHITECTURAL

1. Professional Practice
2. Studies in light and materials
3. Ornament Theory and Design
4. Contemporary Architectural Discourse
6. Techno-Sensation Architecture
7. Green Design and Interior
- 8. BIM Technology**
- 9. Architectural projection of contemporary construction systems**
- 10. Territory Improvement and engineering development of area**
- 11. Sustainable architecture**
- 12. Project management for architects**
- 13. Contemporary methods of preservation of historical environment**

New Courses suggested by the NUACA in Application for Architecture speciality

DESIGNED COURSES

ARCHITECTURAL

- 1. BIM (Building Information Model) technologies (systems) – Bachelor - 4 credits**
- 2. Architectural projection of contemporary construction systems – Bachelor - 3 credits**
- 3. Territory Improvement and engineering development of area – Bachelor – 2 credits**
- 4. Sustainable architecture – Master – 2 credits**
- 5. Project management for architects – Master – 2 credits**
- 6. Contemporary methods of preservation of historical environment – Master – 4 credits**

BIM (Building Information Model) technologies (systems)

Course for Bachelor level, 4 credits

This course aims to transfer to students of architecture study program the fundamentals on the process of creating and managing information digitally across a construction projects life-cycle. The methodology and principles of development of the digital description of absolutely every aspect of the built asset will be presented in the course.



Architectural projection of contemporary construction systems

Course for Bachelor level, 3 credits

The course will provide the theoretical and practical knowledge within the frame of two questions:

What is architectural projection?

What is contemporary construction system?



Territory Improvement and engineering development of area

Course for Bachelor level, 2 credits

The course will provide the fundamentals about the activities and approaches in terms of content territory which includes the design and placement of objects, aimed at ensuring and increasing the comfort conditions for residence of citizens, maintaining and improving sanitary and other communal services on the territory.



Sustainable architecture

Course for Master degree, 2 credits

The course has to provide students of architecture study program with the theoretical knowledge and practical skills to produce in perspective smart designs and to be able to use available technologies to ensure that structures generate minimal harmful effects to the ecosystem and the communities.



Project management for architects

Course for Master degree, 2 credits

This course will provide the students with theoretical knowledge and practical skills that will provide an ability to manage the contemporary architectural projects.



Contemporary methods of preservation of historical environment

Course for Master degree, 4 credits

The course will provide the knowledge of the contemporary methods for urban development, which is associated with a change in the filling of the architectural environment of the historical centers of the modern city.



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