

**Faculty of Architecture****Department:** Architecture and Urbanism**Professional area:** Architecture, Civil Engineering and Geodesy**Major:** Architecture**Educational-and-qualification Degree:** Master**COURSE DESCRIPTION**

1. **Course unit title:** Building Installations and Architectural Lightening – part 1
2. **Course unit code:** ARC2140
3. **Type of course unit:** compulsory
4. **Level of course unit:** Master
5. **Year of study:** second
6. **Semester when the course unit is delivered:** fourth
7. **Number of ECTS credits allocated:** 4,5
8. **Name of lecturer:** Assoc. Prof. Milena Petrova, PhD
9. **Learning outcomes of the course unit:** it gives the students knowledge about the basic types of installations and equipment in buildings, as well as some idea about the outer systems and networks as part of the infrastructure of the residential places. As future architects they will be able to design the most optimal variant for the given object regarding architecture and installations.
10. **Mode of delivery:** face-to-face
11. **Prerequisites and co-requisites:** the course requires basic knowledge in architectural design.
12. **Course contents:** Basic elements of water supplying and sewerage systems in build-up areas, water supplying and sewerage systems in buildings, fire safety waters supplying systems, local and central heating systems, high voltage and weak current electrical installations, lifts with technical safety measures and fire safety; to be able to determine dimensions of bathrooms; to master the basic principles and normative requirements when designing water supplying, sewerage and electrical installations in buildings.
13. **Recommended or required reading:**  
Basic reading:
  - бр.1/93г., изм. ДВ бр.62/95г., бр.15/96г.
  - Цанков Ц., Р.Арсов. Основи на хидравликата, водоснабдяване и канализация. Техника, София, 1991.
  - Петков П. и др., Ръководство по водоснабдяване и канализация на сгради, Техника, София, 1989.
  - Наредба №I-3 -1971 Строитено-технически правила и норми за осигуряване на безопасност при пожар, 2009.
  - Терзиев С., Електрически машини – I и II част, Ту-Варна, 2001.
  - Рашков А., И.Златенов, Проектиране на ел.уредби и електрообзавеждане, Техника, 1992Additional reading
  - Иванов И. и др., Наръчник по водоснабдяване, Техника, София, 1982.
  - Норми за проектиране на водопроводни и канализационни инсталации в сгради, БСА, кн.5,6/86г., изм. бр.11/88г.,
14. **Planned learning activities and teaching methods:** lectures, contact hours and individual papers on given topics, seminars

15. **Assessment methods and criteria** – students' work during the semester and the report are assessed. The course is completed with a written examination at the end of the semester, which is 4 hours long and includes two questions from each section.  
Final grade = Exam grade x 0,7 + Paper grade and individual work x 0,3
16. **Language of instruction:** Bulgarian
17. **Work placement(s):** none