

## 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:** Energy Related Design
2. **Course unit code:** ARC 2022
3. **Type of course unit:** compulsory
4. **Level of course unit:** Master
5. **Year of study:** fifth
6. **Semester when the course unit is delivered:** tenth
7. **Number of ECTS credits allocated:** 6
8. **Name of lecturer:** Assoc. Prof. Arch. Rosen Savov, PhD
9. **Learning outcomes of the course unit:** Basic knowledge in the field of energy effective architecture, definitions, classification of the solar transfer thermal system.
10. **Mode of delivery:** face-to-face
11. **Prerequisites and co-requisites:** basic knowledge in the field of architectural design.
12. **Course contents:** Students will acquire knowledge about:
  - the world and Bulgarian climate map;
  - active and passive solar thermal systems;
  - renewable energy sources and others.
13. **Recommended or required reading:**
  - Наредба № 7 за енергийна ефективност на МРРБ
  - САВОВ, Росен и НАЗАРСКИ Димитър - Енергийна ефективност "Топлоизолационни системи на сгради"- 2006г
  - САВОВ, Росен "Наръчник за разработване на част ТОПЛОТЕХНИЧЕСКА ЕФЕКТИВНОСТ на техническия и работен проект", САБ –СПСДА 2002г
14. **Planned learning activities and teaching methods:**

The lectures (*2 hours per week, 15 weeks*) - are delivered by the help of multimedia presentations with suitable tables, graphics, photographs, video materials, etc.

Contact hours (*1 hour per week, 15 weeks*) they are individual and done according a schedule.
15. **Assessment methods and criteria:** written examination (test) with possible discussion (if necessary).
16. **Language of instruction:** Bulgarian
17. **Work placement(s):** none