

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:** Steel and Timber Structures
2. **Course unit code:** CIE 2013
3. **Type of course unit:** compulsory
4. **Level of course unit:** Master
5. **Year of study:** third
6. **Semester when the course unit is delivered:** sixth
7. **Number of ECTS credits allocated:** 6
8. **Name of lecturer:** Assoc. Prof. Todor Georgiev, PhD
9. **Learning outcomes of the course unit:** Students are acquainted with the physical and mechanical properties of metal, timber and plastics used as a constructive building material and the requirements to them.
10. **Mode of delivery:** face-to-face
11. **Prerequisites and co-requisites:** Students should have successfully passed their examinations in Building Mechanics and Physics in Construction.
12. **Course contents:** Types of metal timber and plastic structures used in the civil, agricultural, transport and industrial engineering; advantages and disadvantages of these structures and the occasions when they have to be preferred; methods for measuring constructive elements made of metal, timber and plastic; types of connecting means and their calculation. The constructive characteristics when designing and building different types of plate and truss girders – girders, frames, arcs, combined and others.
13. **Recommended or required reading:**
 - Даков, Д., Тотев, Й. Дървени и пластмасови конструкции, ВИАС, С., 1989.
 - Чавов, Т., Дървени конструкции, Т., С., 1973.
 - Гочев, С. Носещи конструкции от стомана и дърво, Т., С., 1985.
14. **Planned learning activities and teaching methods:** lectures, seminars, contact hours, project assignment
15. **Assessment methods and criteria:** written and oral examination and a project assignment grade
16. **Language of instruction:** Bulgarian
17. **Work Placement(s):** none