

**“Gheorghe Asachi” Technical University of Iasi**

**“G. M. Cantacuzino” Faculty of Architecture**

**Urban Planning Department**

Competition for the **Associate Professor** degree - **6<sup>th</sup>** position in the staff establishment

Position disciplines: **Architectural Design - 1<sup>st</sup> year**

**Finishing Materials – 3<sup>rd</sup> year**

**The Theory of Structures – 3<sup>rd</sup> year**

### **Competition topics**

for the position of Associate Professor - position 6

1. Ventilated Facades: Composition Principles, System Advantages, Component Elements, Solutions, and Construction Materials
2. Green Facades and Roofs: Design and Construction Details.
3. Innovative Solutions for Sustainable Development and nZEB Design.
4. Roofs with Wooden Structure: Types, Configurations, and Construction Elements.
5. Contemporary Structural Wooden Solutions for Spaces with Large Openings
6. Fire Behavior of Wooden and Metal Structures: A Comparative Perspective.
7. Details and Configurations of Multi-Story Wooden and Metal Structures: Advantages and Disadvantages of Building Solutions.
8. The First Year of Study. Specific Elements in the Pedagogy of Higher Education in Architecture.

### **Bibliography:**

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3. Al. Veres, M. Vasilache – Constructii Civile, Ed. CERMI, Iași, 2004
4. Eberhard Schunck și col. - Roof Construction Manual, Ed. Birkhauser, 2003
5. Mary Guzowsky - Towards Zero Energy Architecture, New Solar Design, 2010
6. Thomas Herzog, Roland Krippner, Werner Lang, Façade Construction Manual, Detail, Munich, 2004
7. Donald B. Corner, Passive House Details: Solutions for High-Performance Design, Ed. Routledge, 2017;
8. Ulrich Knaack , Tillmann Klein , Marcel Bilow , Facades : Principles of Construction, Ed. Birkhauser, 2014
9. Andrew Watts Modern Construction Handbook, Ed. Birkhauser, 2019
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Dean,

Assoc. prof. PhD architect

Tudor GRĂDINARU

Head of department,

Assoc. prof. PhD architect

Radu ANDREI