

“Gheorghe Asachi” Technical University of Iasi
“G. M. Cantacuzino” Faculty of Architecture
Urban Planning Department

Competition for the **Associate Professor** degree - **6th** position in the staff establishment
Position disciplines: **Architectural Design - 1st year**
Finishing Materials – 3rd year
The Theory of Structures – 3rd 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:

1. Bliuc, C. Corduban- Constructii – Finisaje- suport de curs, format electronic
2. I. Baran, I. Bliuc, - Soluții moderne de închideri și finisaje pentru clădiri, Ed. Politehniun, Iași 2011
3. Al. Veres, M. Vasilache – Constructii Civile, Ed. CERMI, Iasi, 2004
4. Eberhard Schunck și col. - Roof Construction Manual, Ed. Birkhauser, 2003
5. Mary Guzowzky - 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
10. Ross J.R., Ritter M.A., Wegner T.H., Falk R.H., Wiemann M.C., Wiedenhoft A., [2010], „General Technical Report FPL-GTR-190, Wood Handbook-Wood as an Engineering Material”. United States Departement of Agriculture and Forestry Products;
11. Natterer J., Herzog T., Volz M., [1999], „Atlante del legno, Unione Tipografico-Editrice Torinese, UTET”, Torino
12. Marusciac D., [1997], „Construcții moderne din lemn”, Editura Tehnică București;
13. Isopescu Dorina, [2002], „Timber Structures”, Editura Gheorghe Asachi Iasi;
14. Furdui C., [2005], „Construcții din lemn. Materiale si elemente de calcul”, Editura Politehnica, Timisoara;
15. Crișan R., Gogulescu S., [2001], „Construcții din lemn”, Editura Universitara Ion Mincu, București;
16. BOAZU Rodica, Teoria structurilor. Solicități simple. Vol. II, Ed. Societății Academice „Matei-Teiu Botez”, Iași 2017
17. Schulitz H.C., Sobek W., Habermann K.J. Steel Construction Manual, Birkhäuser – Publishers for Architecture, Berlin, 2000

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