



UNIVERSITATEA DIN ORADEA
FACULTATEA DE CONSTRUCȚII, CADASTRU ȘI
ARHITECTURĂ

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THEME

for the competition for the position of UNIVERSITY ASSOCIATE PROFESSOR – POSITION 6
from the Staff List of the Department of Architecture:

1. Principles of sustainability, namely sustainable architecture;
2. Certification systems;
3. Climate change - consequences on sustainable design;
4. Principles of building envelope design;
5. Minimum performance requirements for new buildings;
6. Design of energy-efficient buildings (nZeb);
7. Minimum performance requirements for the renovation of existing buildings;
8. Strategies for protection against solar radiation and the use of natural light;
9. Analysis and evaluation of different facade systems;
10. Analysis and evaluation of different roofing systems;

BIBLIOGRAPHY

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2. International and European standards on sustainability;
3. National regulations;
4. Romanian Sustainability Code, November 2023;
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6. *Methodology for calculating the energy performance of buildings, MC 001-2022;
7. *C107/3 - Norm on the calculation of the thermo-energetic performances of construction elements
8. *Annex K - Catalog with thermal bridges specific to buildings - MRDT Order no. 1590/24.08.2012 for the modification and completion of Part 3 - Normative regarding the calculation of the thermo-energetic performances of the construction elements of buildings, indicative C 107/3, within the Technical Regulation "Normative regarding the thermo-technical calculation of the construction elements of buildings", indicative C107-2005, approved by the Order of the Minister of Transport, Construction and Tourism no. 2.055/2005 (published in the Official Gazette of Romania, Part I, no. 650bis/12.IX.2012)
9. *RTC 4 - 2022. Guide on the implementation of measures to increase the energy performance applicable to new buildings, in the stages of design, execution and acceptance, operation and monitoring of the behavior over time to meet the nZEB requirements - Annex to O.M.D.L.P.A. no.2818/02.11.2022
10. Guide on the implementation of measures to increase energy performance applicable to existing buildings, in the design, execution and acceptance stages, operation and monitoring of behavior over time to meet nZEB requirements - Annex to OMDLPA no.2819/02.11.2022;



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