



ADMISSION TO DOCTORAL STUDIES

Session September 2024

Field of doctoral studies: Forestry engineering

Doctoral supervisor: LUNGULEASA AUREL

TOPICS FOR THE ADMISSION TO DOCTORAL STUDIES

TOPIC 1: DURABILITY, PHYSICAL AND MECHANICAL PROPERTIES OF GLUED LAMINATED BAMBOO FOR TIMBER BUILDING STRUCTURES

Contents / Main aspects to be considered – *Bibliographic studies, methodology, researches*

Recommended bibliography:

1. Magdalena Sterley , Erik Serrano , Björn Källander, 18 - Building and construction: Timber engineering and wood-based products, <https://doi.org/10.1016/B978-0-12-819954-1.00021-6>
2. Glue-Laminated Timber, Virginia State University, https://www.pubs.ext.vt.edu/content/dam/pubs_ext_vt_edu/CNRE/cnre-151/CNRE-151.pdf
3. A. Hermawan, M.H. Mohamad, M.B. Abu Bakar, M.Z. Mohd Zainal, Performance of Glued Laminated Timber (Glulam) Made from Kelempayan Wood with Different Lamina Assembly Patterns and Adhesive Spread Rates, Bulletin of the Transilvania University of Brasov. Series II: Forestry, Wood Industry, Agricultural Food Engineering, Vol. 16(65) No. 1 (2023), <https://doi.org/10.31926/but.fwiafe.2023.16.65.1.4>

Prerequisites / Remarks: *Studies in the field of wooden composites*

Scientific Doctorate (full-time only)

Professional Doctorate – in the fields of Music and Science of sport and physical education (full-time or part-time)

without tuition fee (state budget funded)

with tuition fee or with funding from other sources than the state budget

TOPIC 2: The physical and mechanical properties of Cross-Laminated Timber (CLT) composites

Contents / Main aspects to be considered - *Bibliographic studies, methodology, researches*

Recommended bibliography:

1. Brandner, R., Flatscher, G., Ringhofer, A. et al. Cross laminated timber (CLT): overview and development. Eur. J. Wood Prod. 74, 331–351 (2016). <https://doi.org/10.1007/s00107-015-0999-5>
2. Matteo Izzi, Daniele Casagrande, Stefano Bezzi, Dag Pasca, Maurizio Follesa, Roberto Tomasi, Seismic behaviour of Cross-Laminated Timber structures: a state-of-the-art review, https://nmbu.brage.unit.no/nmbu-xmlui/bitstream/handle/11250/2834713/2018-lzzietal-EngStruct_JOUR_POSTPRINT.pdf?sequence=1

Prerequisites / Remarks: *Specific studies*

Scientific Doctorate (full-time only)

Professional Doctorate – in the fields of Music and Science of sport and physical education (full-time or part-time)

without tuition fee (state budget funded)

with tuition fee or with funding from other sources than the state budget

Doctoral supervisor,

Prof. Dr. Eng. Aurel LUNGULEASA

Signature,



Coordinator of the field of doctoral studies,

Prof. Dr. Eng. Camelia COSEREANU

Signature

