

ADMISSION TO DOCTORAL STUDIES

Session September 2024

Field of doctoral studies: Mechanical Engineering

Doctoral supervisor: prof. dr. eng. Mihai – Tiberiu LATEŞ

TOPICS FOR THE ADMISSION TO DOCTORAL STUDIES

TOPIC 1: *Tribological research on bearings with operation in special conditions*

Contents / Main aspects to be considered – *sliding/rolling bearings, sealing/lubrication in special conditions, 3D modelling, functioning simulation, tribological tests, optimization*

Recommended bibliography:

1. Dowling, N. E. Mechanical Behavior of Materials. Engineering Methods for Deformation, Fracture and Fatigue. New Jersey, Prentice Hall Publishers, 2007.
2. Stachowiak, G. W., Batchelor, A. W. Engineering tribology, Ed. Elsevier, 3rd ed., Burlington, 2005.
3. Wheeler, A. J., Ganji, A. R. Introduction to Engineering Experimentation. Third Edition. Pearson Education Publishing House, 2010.
4. Williams, J. Engineering tribology. Cambridge University Press, USA, 2011.

Prerequisites / Remarks: *using software applications in the field of CAD/FEA/MBS. Knowledge in the field of tribological modelling and testing.*

Scientific Doctorate (full-time only)

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

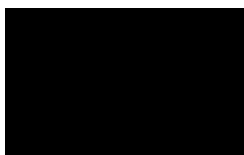
without tuition fee (state budget funded)

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

Doctoral supervisor,

Prof. Dr. Eng. Mihai – Tiberiu LATEŞ

Signature



Coordinator of the field of doctoral studies,

Prof. Dr. Eng. Sorin VLASE

Signature

