



ADMISSION TO DOCTORAL STUDIES

SESSION SEPTEMBER 2024

PhD Field: **MECHANICAL ENGINEERING**

PhD supervisor: **Prof. dr. Motoc Luca Dana**

**TOPICS FOR THE ADMISSION TO DOCTORAL STUDIES**

<b>Topic: ENERGY-ABSORBING STRUCTURES FOR VEHICLE IMPACT PROTECTION SYSTEMS</b>
<b>References (selected):</b> <ol style="list-style-type: none"><li>1. Vangi D. – Vehicle collision dynamics. Analysis and reconstruction, Butterworth-Heinemann, 2020.</li><li>2. Gupta K, Gupta M. K. – Optimization of manufacturing processes, Ed. Springer, 2020.</li><li>3. Minaker B. – Fundamentals of vehicle dynamics and modelling, Ed. Wiley, 2020.</li><li>4. Huang M. – Vehicle crash mechanics, CRC Press, 2002.</li><li>5. Hiermaier S. J. – Structures under crash and impact, Ed. Springer, 2008.</li></ol>
<b>Remarks/Prerequisites:</b> Vehicle dynamics, Vehicle crash, Numerical methods with application in engineering, Fabrication and assembly technologies for vehicles
<input type="checkbox"/> <b>Scientific doctorate (full-time only)</b>
<input type="checkbox"/> <b>Professional doctorate (full-time or part-time)</b>
<input type="checkbox"/> <b>without tuition fee (state budget funded)</b>
<input type="checkbox"/> <b>with tuition fee or with funding from other sources)</b>

PhD supervisor:

**Prof. dr. Dana LUCA MOTOC**

Coordinator of the field of doctoral studies

**Prof. dr. Sorin VLASE**

