

ADMISSION TO DOCTORAL STUDIES

Session September 2025

Field of doctoral studies: MECHANICAL ENGINEERING

Doctoral supervisor: Thierheimer Walter Wilhelm

TOPICS FOR THE ADMISSION TO DOCTORAL STUDIES

TOPIC 1: *suggested title*

Studies on the optimization of the thermostat operation mode from the cooling system of internal combustion engines intended for technical co-generation systems for mountain tourist accommodation facilities

Contents / Main aspects to be considered - *to be adapted/ completed/ deleted*

Nu este cazul

Recommended bibliography:

1. Thierheimer, W.: *Teoria sistemelor tehnice din industria turismului*, Editura Universităţii Transilvania din Braşov, ISBN 978-606-19-1059-5, Braşov, 2018;
2. Thierheimer, W., şi col.: *Sisteme de transport în industria turismului*, Editura Universităţii Transilvania din Braşov, Vol. I (2011) ISBN 973-606-19-0003-9, Vol. II (2016) ISBN 978-19-0869-1, Braşov, România;
3. Thierheimer, W., şi col.: *Motoare cu ardere internă*, Editura Universităţii Transilvania din Braşov, ISBN 978-606-19-1058-8, Braşov, 2018;
4. van Basshuysen, R., Schafer F.: *Handbuch Verbrennungsmotor*, 2. Auflage, ISBN 3-528-13933-1, Vieweg & Sohn Verlagsgesellschaft Bertelsmann Sprienger, Braunschweig/Wiesbaden, 2002, Germany;
5. Bejan A.: *Advanced Engineering Thermodynamics*, Fourth Edition, Hoboken, New Jersey, John Wiley & Sons Inc., USA, 2016, ISBN 978-1-1190-5209-8.

Prerequisites / Remarks: *to be adapted/ completed/ deleted*

Knowledge of analytical modelling; experimental testing

☐ Scientific Doctorate (full-time only)

☒ Professional Doctorate (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: suggested title <i>Research regarding on influence of posture on severity of injuries in the process of technical forensic expertise of motor vehicle road events</i>
Contents / Main aspects to be considered - <i>to be adapted/ completed/ deleted</i> <i>Driver's posture while sitting in the seat;</i> <i>Experimental frontal collision tests;</i> <i>Use of specialized programs for the reconstruction of road events;</i>
Recommended bibliography: 1. Thierheimer, W., și col.: <i>Sisteme de transport în industria turismului</i> , Editura Universităţii Transilvania din Braşov, Vol. I (2011) ISBN 973-606-19-0003-9, Vol. II (2016) ISBN 978-19-0869-1, Braşov, România; 2. Thierheimer, W., și col.: <i>Expertiza tehnică - Probele tehnice și juridice prelevate de la locul accidentului</i> , SMAT 2001, Vol. I, pag. 555-558, ISBN 973-8043-23-4, 08-09 Noiembrie 2001, Craiova; 3. Gaiginschi, R., Filip, I.: <i>Expertiza tehnică a accidentelor rutiere</i> , Editura TEHNICĂ, Bucureşti, 2002; 4. Budescu, E. <i>Biomecanica generală</i> , 2013, Iaşi; 5. Donald R. Peterson, <i>Biomechanics: Principles and Applications</i> , CRC Press Taylor & Francis Group, New York 2008, ISBN 978-0-8493-8534-6.
Prerequisites / Remarks: <i>to be adapted/ completed/ deleted</i> <i>Knowledge of analytical modelling; experimental testing</i>
☐ Scientific Doctorate (full-time only) ☒ Professional Doctorate (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.Ph.D.Eng.Hab. Walter W. THIERHEIMER

Signature

Coordinator of the field of doctoral studies,

Prof.Ph.D. Eng.Hab. Maria Luminița SCUTARU

Signature