

Transilvania University of Braşov

Faculty of Mechanical Engineering

Department of Mechanical Engineering

Proposed topic for doctoral studies admission contest – September 2019

Doctoral field Mechanical Engineering

Doctoral coordinator Prof. Venetia SANDU

Topic 1) Internal combustion engine energy harvesting by using thermoelectric generators

References:

- V. Ungureanu et al, "Thermodynamics-Practical applications", Ed. Universităţii Transilvania, 2010
- V. Sandu, A. C. Stanca, A. Păsăroiu and D. Dobre, "Experimental investigation of thermoelectric heat recovery from a diesel engine," 2012 International Conference on Applied and Theoretical Electricity (ICATE), Craiova-RO, 2012
- D.M. Rowe (editor) - "Thermoelectrics and Its Energy Harvesting" - vol.2, "Modules, Systems and Applications in Thermoelectrics", CRC Press, 2012, ISBN 978-143-987-472-1

Topic 2) Tribology of automotive fuels and lubricants

References :

- John E. Hillier Roger F. Haycock - "Automotive Lubricants - Reference Book", John Wiley publishing house - 2014, ISBN 978-812-654-584-1
- Veneția Sandu, Anghel Chiru "Automotive fuels", Ed. MATRIXROM, 2007, ISBN 978-973-755-188-7.