



Universitatea
Transilvania
din Braşov

ADMITERE DOCTORAT 2020-2021

Sesiunea Septembrie 2020

**Şcoala Doctorală Interdisciplinară
(SDI)**

Domeniul de doctorat:

INGINERIE MECANICĂ

Conducător doctorat:

Prof. dr. ing. LACHE Simona

TEMATICĂ PENTRU CONCURS

TEMA: STRUCTURI UŞOARE PENTRU PROTECŢIE BALISTICĂ

Bibliografie recomandată*:

1. Council, N. R. 2011, Opportunities in Protection Materials Science and Technology for Future Army Applications. Washington, DC, The National Academies Press.
2. Bhatnagar, A. 2016, Lightweight Ballistic Composites: Military and Law-Enforcement Applications, 2nd edition, Elsevier
3. Chen, X., 2016, Advanced Fibrous Composite Materials for Ballistic Protection, Elsevier
4. Zenkert, D., 1997, The handbook of sandwich construction, EMAS Publ.

* Bibliografia se poate furniza la cerere de către conducătorul ştiinţific al temei.

Note /Precondiții / Obs: cunoștințe de Rezistența materialelor și teoria elasticității, Metoda elementelor finite, Metode experimentale în ingineria mecanică.

Conducător doctorat:

Prof. dr. ing. Lache Simona



Transilvania
University
of Brasov

ADMISSION TO DOCTORAL STUDIES

2020-2021

Session September 2020

**Interdisciplinary Doctoral School
(SDI)**

Field of doctoral studies:
INGINERIE MECANICĂ
PhD supervisor:
Prof. dr. ing. LACHE Simona

TOPICS FOR THE ADMISSION TO DOCTORAL STUDIES

TOPIC: LIGHTWEIGHT STRUCTURES FOR BALLISTIC PROTECTION

Recommended bibliography*:

1. Council, N. R. 2011, Opportunities in Protection Materials Science and Technology for Future Army Applications. Washington, DC, The National Academies Press.
2. Bhatnagar, A. 2016, Lightweight Ballistic Composites: Military and Law-Enforcement Applications, 2nd edition, Elsevier
3. Chen, X., 2016, Advanced Fibrous Composite Materials for Ballistic Protection, Elsevier
4. Zenkert, D., 1997, The handbook of sandwich construction, EMAS Publ.

* The bibliography can be provided on request by the PhD supervisor.

Prerequisites / Remarks: good knowledge of Strength of Materials and Elasticity Theory, Finite Element Method, Experimental Methods in Mechanical Engineering.

PhD supervisor:

Prof. dr. ing. Lache Simona