Tematica și bibliografia pentru colocviul de admitere la doctorat, sesiunea septembrie 2023, domeniul **Ingineria materialelor**, Facultatea de Știința și Ingineria Materialelor sunt prezentate în Tabelul 2.

Tabelul 2. Tematica și bibliografia pentru colocviul de admitere la doctorat, sesiunea septembrie 2023

Nr. crt.	TEMA	BIBLIOGRAFIA
1	**Dezvoltare de noi materiale solide pentru aplicații ce implică transfer termic**	1. Web, R. L., Principles of Enhanced Heat Transfer, Wiley, New York 1994. 2. Web, R. L., Bergles, A. E., Heat Transfer Enhancement: Second Generation Technology, Mech. Eng., 105(6), pp. 60–67, 1983. 3. Pop I., Ingham D. B., Convective Heat Transfer: Mathematical and Computational Modelling of Viscous Fluids and Porous Media, Elsevier, USA, 2001. 4. Bejan, A, Krauss A, Heat transfer handbook, Willey and sons, USA 2003. 5. Janna W.S., Engineering Heat Transfer – second edition, CRC Press, 2001. 6. Kakac S., Vasiliev L. L, Bayazitoglu Y., Yener Y., eds., Microscale Heat Transfer - Fundamentals and Applications, Springer, 2005.
2	**Dezvoltare de noi fluide, ca tehnică de intensificare a transferului termic**	1. Minea A.A., Advances in industrial heat transfer, Ed. A. A. Minea, CRC press Taylor & Francis, ISBN: 9781439899076, 2012 2. Andreozzi A; Manca O; Naso V, Natural convection in vertical channels with an auxiliary plate, International Journal of Numerical Methods for Heat & Fluid Flow, 12(6), pp. 716 -734, 2002 3. Bergles, A. E., Jensen, M. K., Somerscales, E. F. C., Manglik, R. M., Literature Review of Heat Transfer Enhancement Technology forHeat Exchanges in Gas-Fired Applications, Report GRI 91-0146, Gas Research Institute, Chicago, 1991. 4. Bergles, A. E., Jensen, M. K., Shome, B., Bibliography on Enhancement of Convective Heat and Mass Transfer, Report HTL-23, Heat Transfer Laboratory, Rensselaer Polytechnic Institute, Troy, NY, 1995. 5. Bhatnagar, R. K., Manglik, R. M., Enhanced Heat and Mass Transfer Literature: Case for a Digital Library with Intelligent Information Retrieval, Thermal Fluids and Thermal Processing Laboratory, Report TFTPL-CS1, University of Cincinnati, Cincinnato, OH, 2002.
3	**Cercetări experimentale și CFD privind transferul de căldură în schimbătoare de căldură**	1. Minea A.A., Advances in industrial heat transfer, Ed. A. A. Minea, CRC press Taylor & Francis, ISBN: 9781439899076, 2012 2. Bergles, A. E., Jensen, M. K., Somerscales, E. F. C., Manglik, R. M., Literature Review of Heat TransferEnhancement Technology forHeat Exchanges in Gas-Fired Applications, Report GRI 91-0146, Gas Research Institute, Chicago, 1991. 3. Bergles, A. E., Jensen, M. K., Shome, B., Bibliography on Enhancement of Convective Heat and Mass Transfer, Report HTL-23,

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4	**Dezvoltare de noi fluide cu nanoparticule (nanofluide)**	1. Minea A.A., Advances in industrial heat transfer, Ed. A. A. Minea, CRC press Taylor & Francis, ISBN: 9781439899076, 2012 2. Andreozzi A; Manca O; Naso V, Natural convection in vertical channels with an auxiliary plate, International Journal of Numerical Methods for Heat & Fluid Flow, 12(6), pp. 716 -734, 2002 3. Bergles, A. E., Jensen, M. K., Shome, B., Bibliography on Enhancement of Convective Heat and Mass Transfer, Report HTL-23, Heat Transfer Laboratory, Rensselaer Polytechnic Institute, Troy, NY, 1995. 4. Bhatnagar, R. K., Manglik, R. M., Enhanced Heat and Mass Transfer Literature: Case for a Digital Library with Intelligent Information Retrieval, Thermal Fluids and Thermal Processing Laboratory, Report TFTPL-CS1, University of Cincinnati, Cincinnato, OH, 2002.
5	**Sisteme expert utilizate pentru obtinerea si procesarea materialelor**	1. Vizureanu, P., Expert Systems, published by Intech, Vukovar, Croatia, 2010, 238 pages, on-line edition, ISBN 978-953-307-032-2, http://www.intechopen.com/books/show/title/expert-systems 2. Ștefan, M., Vizureanu, P., Manole, V., Modelare, optimizare și simulare la încălzirea materialelor metalice, Editura Tehnopress, Iaşi, 2005, 184 pg., ISBN 973-702-280-7. 3. Ștefan, M., Vizureanu, P., Bejinariu, C., Manole, V., Baze de date și sisteme expert în selecţia și proiectarea materialelor, vol. I, Editura Tehnopress, Iaşi, 2008, 298 pg., ISBN 978-973-702-514-2. 4. Vizureanu, P., Ștefan, M., Baciu, C., Ioniţă, I., Baze de date și sisteme expert în selecţia și proiectarea materialelor, vol. II, Editura Tehnopress, Iași, 2008, 262 pg., ISBN 978-973-702-515-9. 5. RULE-BASED EXPERT SYSTEM APPLICATION TO OPTIMIZING OF MULTISCALE MODEL OF HOT FORGING AND HEAT TREATMENT OF TI-6AL-4V, Maciol, P (Maciol, Piotr)[1] ; Krumphals, A (Krumphals, Alfred)[1] ; Jedrusik, S (Jedrusik, Stanislaw); Maciol, A (Maciol, Andrzej); Sommitsch, C(Sommitsch, Christof), Edited by:Idelsohn, S; Papadrakakis, M; Schrefler, B, COMPUTATIONAL METHODS FOR COUPLED PROBLEMS IN SCIENCE AND ENGINEERING V, Pages: 1237-1248, Published: 2013.
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9	**Studii și cercetări privind îmbunătățirea și procesarea unor aliaje utilizate în echipamentele de muncă și individuale de protecție în domeniul securității și sănătății în muncă**	1. Bejinariu, C., Extrudarea indirectă la rece a oțelului, Editura Tehnopress, Iaşi, 2008, ISBN 978-973-702-582-1 2. Magnesium Alloys - Design, Processing and Properties, Edited by Frank Czerwinski, ISBN 978-953-307-520-4, 2011 3. Aluminium Alloys, Theory and Applications, Edited by Tibor Kvackaj, ISBN 978-953-307-244-9, 2011 4. Procedeu de fosfatare microcristalină a unor piese metalice pe bază de fier. Brevet de invenţie Nr. RO 125457 B1, Publicat in Buletinul Oficial al Proprietăţii Industriale, RO-BOPI 9/2014, din 30.09.2014. 5. Welding - Modern Topics. Academic Editor, Sadek Alfaro, University of Brasília. published January 14th, 2021, DOI: 10.5772/intechopen.83204, ISBN978-1-83881-896-8

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13	**Controlul degradării materialelor metalice**	1. Additive manufacturing of biodegradable metals: Current research status and future perspectives, Acta BiomaterialiaVolume 9815, 2019, 3-22, Yu Qin, Peng Wen, Hui Guo, Dandan Xia, Johannes Henrich Schleifenbaum. 2. Challenges in the use of zinc and its alloys as biodegradable metals: Perspective from biomechanical compatibility, Acta Biomaterialia, 971, 2019, 23-45, Guannan Li, Hongtao Yang, Yufeng Zheng, Xie-Hui Chen, Kazuki Takashima 3. In vitro degradation and biocompatibility evaluation of typical biodegradable metals (Mg/Zn/Fe) for the application of tracheobronchial stenosis, Bioactive Mat., 2019, 114-119. 4. Yangyang Li, Jianglong Yan, Wenhao Zhou, Pan Xiong, Yan Cheng, 4. Laser powder bed fusion of titanium-tantalum alloys: Compositions and designs for biomedical applications, Journal of the Mechanical Behavior of Biomedical MaterialsVolume 108August 2020Article 103775, Sheng Huang, Swee Leong Sing, Geoff de Looze, Robert Wilson, Wai Yee Yeong
14	**Acoperiri ceramice avansate**	1. Handbook of Thin Films, Springer Book, 2002 2. Ceramic Films and Coatings 1st Edition, John D. Wachtman Richard A. Haber, Hardcover ISBN: 9780815513186, eBook ISBN: 9780815516323, 1993. 3. Application of laser ablation in adhesive bonding of metallic materials: A review, Optics & Laser Technology, 2020, Article 106188, Junying Min, Hailang Wan, Blair E. Carlson, Jianping Lin, Chengcheng Sun 4. Advanced Ceramic and Metallic Coating and Thin Film Materials for Energy and Environmental Applications, Springer, Jing Zhang Yeon-Gil Jung

15	**Obținerea și caracterizarea straturilor funcționale**	1 Stefan Lucian Toma, Starturi Funcționale, Editura Performantica Iasi, 2022, ISBN 978-606-685-823-6. 2 Gardon Marc, Functional coatings obtained by Thermal Spray technologies, LAP Lambert Academic Publishing, 2015, ISBN 365-963-281-3. 3 ,Ilker S Bayer, Functional Coatings: From Formulation in Solution to Applications on Surfaces and Interfaces, Editura Mdpi AG, 2020, ISBN 303-928-710-9. 4 Hartmut Frey, Hamid R. Khan, Handbook of Thin Films Technology, Publisher Springer Berlin, Heidelberg, 2015, ISBN 978-3-642-05429-7
16	**Acoperiri dure -tip cermet, rezistente la uzura, eroziune si abraziune obținute prin pulverizare termică**	1 Stefan Lucian Toma, Fundamente in procesele de pulverizare termică, Editura Performantica Iasi, 2022, ISBN 978-606-685-838-7. 2 Lech Pawlowski The Science and Engineering of Thermal Spray Coatings, Publisher Willy, 2008, ISBN 978-047-075-407-8. 3 Christopher Riley, Third Generation Cermet Thermal Spray Coatings for Colbalt-free Corrosion Resistant Hard Wearing Applications, Publisher University of Nottingham, 2015, 4 Manish Roy J. Paulo Davim, Thermal Sprayed Coatings and their Tribological Performances, IGI Global Publisher of Tiomley knoledge, 2015, 978-146-667-489-9 5 J.R. Davis Handbook of Thermal Spray Technology, Publisher ASM International, 2015, ISBN 978-087-170-795-6

Criteriile de selecție pentru colocviul de admitere la doctorat, sesiunea septembrie 2023, domeniul **Ingineria materialelor**, Facultatea de Știința și Ingineria Materialelor:

1. Candidații vor susține o prezentare în *Power Point* iar criteriile de apreciere sunt detaliate în Tabelul 1.
2. Prezența candidaților la colocviu de admitere este obligatorie.
3. Este obligatorie capacitatea de exprimare în limbaj tehnic.

Tabelul 1. Criterii de selecție pentru colocviul de admitere la doctorat, sesiunea septembrie 2023: evaluarea probei orale

Criterii de evaluare proba orală	**Punctaj**
1. Stadiul actual al cunoașterii științifice în domeniul temei propuse și potențialele contribuții la dezvoltarea acestuia	2
2. Selectarea celor mai relevante și recente surse bibliografice aferente temei de cercetare propuse	2

3 Claritatea obiectivelor de cercetare și caracterul de noutate al acestora	2
4. Corectitudinea științifică, claritatea și relevanța prezentării	2
5. Conformitatea răspunsurilor la întrebările comisiei de admitere la doctorat, referitoare la expunerea susținută și la dezvoltarea potențială a temei propuse	2
TOTAL	10

Precizări:

- Nota se acordă în intervalul 1-10.
- Evaluarea probei orale (max. 10 minute pentru fiecare candidat): Candidații vor pregăti, conform domeniului ales, un subiect liber dar încadrat în tematica propusă de CCPD S.I.M. Candidații sunt încurajați să prezinte ideea pe care își vor axa cercetările doctorale.
- La punctaje egale, departajarea se face ținând cont de nota obținută la examenul de disertație într-o prima etapa și de media de finalizare a studiilor de licență într-a doua etapă. Media obținută la licență de către candidații care au efectuat 5 ani de studii se va echivala cu nota obținută la examenul de disertație.
- Nota minimă de promovare a colocviului de admitere este 7(șapte).

D E C A N ,
Conf.univ.dr.ing. Iulian IONIȚĂ

Director al CCPD - S.I.M.,
Prof.univ.dr. ing. Leandru-Gheorghe BUJOREANU