UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" IAŞI

Facultatea Construcții de Mașini și Management Industrial
Domeniul de masterat: Inginerie Industrială
Programul de studii universitare de masterat: Tehnologii Avansate de Fabricație
Forma de învăţământ *(zi/seral/fără frecvenţă/la distanţă):* zi
Durata studiilor: 4 semestre

Anexa B.9.5 Rezultatele activităţii de cercetare desfăşurate de personalul didactic şi de cercetare (ultimii 5 ani)

Nr. Crt.	Item	Rezultatele activității de cercetare (2020-2025)
1.	Cărți cu ISBN	1. Slătineanu, L., Nagîț, G., Dodun, O., Coteață, M., Munteanu, A., Beșliu-Băncescu, I., Gherman, A.-L., Hrițuc, A., Chinesta, F., Goncalves-Coelho, A., Teixeira, J.P., San Juan, M., Santo, L., Santos, F. Electrophysical and chemical manufacturing processes. Chișinău, Editura Tehnica Info, 2020, ISBN 978-9975-63-454-0 2. Coteață M, Tehnologii neconvenţionale de fabricaţie : suport de curs, Ed. PIM, Iași, 2021, 120 pag 3. Slătineanu, L., Bohosievici, C., Grămescu, T., Paraschiv, D., Musca, G., Dodun, O., Nagîț, G., Nedelcu, D., Sover, A., Tăbăcaru, L.L., Cărăușu, C., Creţu, G., Merticaru, V., Coteață, M., Boca, M., Mihalache, M.A., Rîpanu, M.I., Mazurchevici, S.N., Mîndru, T.D., Boca, M.A., Hriţuc, A., Motaş, J.G., Aplicații de ingineria fabricației. Iași, Editura PIM, 2021, 417 p., ISBN 978-606-13-6104-5 4. Dodun, O., Cavique, M., Slătineanu, L., Duşa, P., Using the Axiomatic Design in Engineering. In: Kyratsis, P., Efkolidis, N., Davim, J.P. (eds) Advances in Product Design Engineering. Management and Industrial Engineering. Springer, Cham. https://doi.org/10.1007/978-3-030-98124-2_2, 2022 5. Chitariu Dragoș-Florin, Munteanu Adriana, Ciobanu Bogdan , Boca Mihai, Țugui Catalin Andrei, Antreprenoriat Inovativ 2, Ed. Performantica, Iași, 2020 6. Eugen Axinte, Mihai Boca, Constantin Cărăușu, Margareta Coteaţă, Oana Dodun-des-Perrieres, Petru Duşa, Vasile Ermolai, Traian Grămescu, Simona-Nicoleta Mazurchevici, Vasile Merticaru, Marius-Andrei Mihalache, Teodor-Daniel Mîndru, Gheorghe Nagîț, Dumitru Nedelcu, Florin Negoescu, Marius-Ionuţ Rîpanu, Laurenţiu Slătineanu, Liviu-Lucian Tăbăcaru, Monografia Catedrei / Departamentului de TEHNOLOGIA CONSTRUCŢIILOR DE MAŞINI din Universitatea Tehnică „Gheorghe Asachi" din Iași – EDITIA a 2-a, revizuită și adăugită, EDITORI: Vasile Merticaru, Marius-Ionut Rîpanu, Marius-Andrei Mihalache, Vasile Ermolai, Editura PERFORMANTICA, Iaşi, 2024, ISBN 978-630-328-126-1; 316 p 7. Sărmășanu-Chihai Constantin, Bujor Adriana, Avram Elena, Tudose Mihaela Brîndușa, Corduban Călin Gabriel, Mihalache Marius Andrei, Negru Daniela, Antreprenoriat Creativ, Ed. Performantica, 2022, vol. I,168 pagini, ISBN 978-606-685-930-1 8. Marius Andrei Mihalache, Aplicarea procedeelor de inginerie inversă în domeniul mecanic, Ed. Performantica, 2024, 483 pagini, ISBN 978-630-328-130-8 9. Mihalache Marius Andrei, Fabricația asistată de calculator bazată pe sisteme CAM, suport de curs pentru disciplina Fabricație asistată de calculator-Sisteme CAM, anul IV, licență TCM, Ed. Performantica 2024, 334 pagini, ISBN 978-630-328-111-7 10. Slatineanu, DODUN O, Nagit, Hrituc, Bancescu-Besliu, Abrasive Jet Machining of Aluminum and Aluminum Alloys in Book:; Modern Machining Processes and Techniques for Aerospace Materials, Editor: Anand Pandey, Evince Publishing, 14 pagini, 2020 11. Slătineanu, L., Nagîț, Gh., DODUN, O., et al. Electrophysiscal and Chemical Manufacturing Processes. Chișinău: Editura TEHNICA INFO, 2020, ISBN: 978-9975-63-454-0, 403 pagini 12. Marius Ionuț Rîpanu - Optimizarea proceselor de ștanțare a coliviilor de rulmenți: O abordare teoretică și experimentală, Editura Performantica, 420 pag., ISBN : 978-630-328-136-0, 2024 13. Marius Ionuț Rîpanu – Proiectare Parametrică Avansată, Editura Performantica, 151 pag., ISBN : 978-630-328-110-0, 2024 14. Marius Ionuț Rîpanu, Vasile ERMOLAI – Proiectare Parametrică Avansată – Îndrumar de aplicații , Editura Performantica, 17x27 cm, 300 pag., ISBN : 978-630-328-127-8, 2024 15. SEGHEDIN N. (ed.), Gheorghe Asachi-Un spirit enciclopedic. Ed. Universității Tehnice „Gheorghe Asachi" din Iași, 2023, 500 pag., ISBN 978-973-621-533-9 16. Marius Andrei Mihalache, Alexandru Sover, Oana Dodun-Des-Perrieres, Gheorghe Nagit, Vasile Merticaru, Adelina Hrituc, Laurentiu Slatineanu, Modern Trends of Reverse

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		Engineering in Digital Manufacturing, capitolul nr. 2 (23 pages) din volumul "Digital Product Design and Manufacturing", 1st Edition. First Published 2025, eBook Published 26 August 2025, Pub. Location: Boca Raton, Imprint: CRC Press, DOI: https://doi.org/10.1201/9781003518198, pages 264, eBook ISBN: 9781003518198, disponibil la adresa: https://www.taylorfrancis.com/books/edit/10.1201/9781003518198/digital-product-design-manufacturing-gheorghe-oancea-panagiotis-kyratsis 17. Editori: Angelos P. MARKOPOULOS, Irene P. KORONAKI, Laurenţiu SLATINEANU, Gheorghe CRETU, Oana DODUN, Marius-Andrei Mihalache, 24th Edition of Innovative Manufacturing Engineering and Energy International Conference (IManEE 2020), 1st Virtual Edition, 14-15 December 2020, IOP Conf. Series: Materials Science and Engineering 1037 (2021) 011001, IOP Publishing, 284 pagini, https://doi.org/10.1088/1757-899X/1037/1/011001
	Cursuri, printate/ format electronic	1. Eugen Axinte - suport curs TCE/Electronic/Platforma MS Teams-100 pag.-3p (2024) 2. Eugen Axinte -suport curs Ei/Electronic/Platforma MS Teams-100 pag-3p (2020-2024) 3. Eugen Axinte -suport curs MSF/MSFM/Electronic/Platforma MS Teams-120 pag-3,6p (2020-2024) 4. Mihalache Andrei - Suport de instruire curs pentru disciplina "Tehnologii de prelucrare pe MUCN", Cod : CMMI- TCM-7.07-DS, semestrul 7, anul IV de studii, în română, specializarea Tehnologia Construcțiilor de Mașini, în format PowerPoint, disponibil doar pentru membrii afiliați universității la adresa https://docs.google.com/presentation/d/159bdebVQsDWqB8YR-aTGgVm-yIt37wKY/edit?usp=sharing&ouid=113886150544837109206&rtpof=true&sd=true 5. Mihalache Andrei - Suport de instruire aplicații pentru disciplina "Programarea calculatoarelor si limbaje de programare 1", Cod : CMMI- IInd-1.03-DF, "Programarea calculatoarelor si limbaje de programare 2", Cod : CMMI- IInd-2.07-DF, semestrele 1,2, anul I de studii, în română, specializarea Tehnologia Construcțiilor de Mașini, în format PDF, disponibil doar pentru membrii afiliați universității la adresa: https://drive.google.com/file/d/1G8REpO2e1Ar3isAXWMWlhGCanh2PyfrP/view?usp=sharing 6. Suport de instruire online curs pentru disciplina , *Proiectare Parametrică Avansată, Cod : TAF-IA-210, Master, Anul II de studiu, Semestrul II, în format PowerPoint, *disponibil doar pentru membrii afiliați universității la adresa : https://drive.google.com/drive/u/6/folders/1ce6a8OvWnqDVvNQ68xqbST1Xd5Pdrm1m 7. Conceptia si managementul tehnologiilor de fabricatie. L.L Tăbăcaru, curs format pdf. web : http://www.cm.tuiasi.ro/docs/CMTF%20COMPACT.pdf
	Reviste/ Jurnale ISI	1. Zhang, X.; Xiao, Z.; Zhou, X.; Liu, G.; Li, C.; Huang, Q.; Axinte, E.; Zhou, G.; Zhao, D.; Wang, Y. Dependence of structures and performances of soft-magnetic FeCo-based metal glasses on cryogenic treatments. J. Mater. Res. Technol. 2024, 33, 3492–3500 2. Ren, B., Li, S., Wang, N., Xiao, Z., Axinte, E., & Wang, Y. (2022). Excellent catalytic performance of mechanically alloyed AlCrFeMnTiZr0. 5 high-entropy alloy for malachite green degradation. Materials letters, 328, 133076 3. Niu, Z., Xie, Y., Axinte, E., Xu, J., & Wang, Y. (2020). Development and characterization of novel Ni-rich high-entropy alloys. Journal of Alloys and Compounds, 846, 156342 4. Boca M, Gueorguiev, T., Slătineanu Laurenţiu, (2024), Design of a device for cold plastic deformation processing using the ideas diagram method, Innovative Manufacturing Engineering and Energy - IManEE2024, Materials Research Forum LLC Materials Research Proceedings 46, pag: 129-134, https://doi.org/10.21741/9781644903377-17 5. Mazurchevici, S.-N.; Vaideanu, D.; Rapp, D.; Varganici, C.-D.; Carausu, C.; Boca, M.; Nedelcu, (2021), D. Dynamic Mechanical Analysis and Thermal Expansion of Lignin-Based Biopolymers. Polymers 2021, 13, 2953, https://doi.org/10.3390/ polym13172953, pag:1-20 6. SN Mazurchevici, A Marguta, B Istrate, M Benchea, M Boca, D Nedelcu, (2021), Improvements of Arboblend V2 Nature Characteristics through Depositing Thin Ceramic Layers. Polymers 2021, 13, 3765. https://doi.org/10.3390/ polym13213765, pp: pp:1-21 7. Laurentiu Slătineanu, Margareta Coteaţă, Oana Dodun, Gheorghe Nagîţ, Adelina Hriţuc, Irina Beşliu-Băncescu, Mihai Boca, (2021), Locating Error when Clamping Workpiece between Centers, MATEC Web of Conferences 343, 03003, https://doi.org/10.1051/matecconf/202134303003 MSE 2021, pag: 1-6

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		8. Mihaita Horodincă, Ionut Ciurdea, Dragos-Florin Chitariu, Adriana Munteanu, Mihai Boca, (2020) Some approaches on instantaneous angular speed measurement using a two-phase n poles AC generator as sensor, Measurement 157 107636 9. Molnar R, Feier A, Chivu O, Banciu FV, Coteaţă M. An Investigation of the Effects of Flame Straightening Heating on the High-Strength Structural Steels Microstructure, Metallogr. Microstruct. Anal., 2024. https://doi.org/10.1007/s13632-024-01141-7 10. Madic M, Gostimirovic M, Rodie D, Radovanovic M, Coteață M. Mathematical modelling of the CO2 laser cutting process using genetic programming. Facta Universitatis-Series Mechanical Engineering, 2022, 20(3), 665-676. https://doi.org/10.22190/FUME210810003M 11. Madic M, Coteață M, Jankovic P, M Trifunovic M. Analysis of specific cutting energy in laser fusion cutting of an aluminium alloy. IOP Conf. Ser.: Mater. Sci. Eng., 2022, 1235, 012015. https://doi.org/10.1088/1757-899X/1235/1/012015 12. Coteață M, Pop N, Hurja I-I, Slătineanu L, Hrițuc A, Besliu-Bancescu I. Premises of identifying equipment for cutting by electrochemical machining.Nonconventional Technologies Review/ Revista de Tehnologii Neconventionale, 2021, 25(4), 8-13, https://www.revtn.ro/index.php/revtn/article/view/353 13. Panaite, CE; Dodun, O; Rakosi, E., Slatineanu, L., *Identifying and developing an innovative design theme when working in a student team*, Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering 67 (1) , pp.95-104, Feb 2024, WOS:001328942700011, 2024 14. Hrituc A., Slătineanu, L.; Dodun, O.; Nagît, , G.; Coteata, M.; Boca, M.A.; Ermolai, V. *Sustainable Manufacture of Bearing Bushing Parts*. Sustainability 2021, 13, 10777, https://doi.org/10.3390/su131910777, 2021 15. Besliu-Băncescu I., Slătineanu L., Dodun O., Nagît G., Influence of Lubrication and Cooling on the Quality of Single-Point Incremental Forming Parts of Polycarbonate Sheets, J. Manuf. Mater. Process. 2021, 5, 75. https://doi.org/ 10.3390/jmmp5030075, 2021 16. Dodun O, Slatineanu, Nagit, Mares,Hrituc,Coteata, Bancescu-Besliu, Mechanical Properties of Composites Reinforced with Textile, MATERIALE PLASTICE Volume: 57 Issue: 1 Pages 21-27 , MAR 2020; Revista ISI, 2020 17. Slatineanu, Dodun O, Coteata, Nagit, Bancescu-Besliu, Hrituc, Wire Electrical Discharge Machining-A Review, Wire Electrical Discharge Machining-A Review, Machines 2020, 8(4), 69; https://doi.org/10.3390/machines8040069, 2020 18. Ibănescu Mihaele și Ibănescu Radu, „New approach in solving derivative causality problems in the bond-graph method, IOP Conf. Series: Materials Science and Engineering, The 25th Edition of IManEE 2021 International Conference (IManEE 2021) doi:10.1088/1757-899X/1235/1/012053 19. Ibănescu Radu și Ibănescu Mihaela, „Modeling and optimization of dynamic absorber with viscous friction" IOP Conf. Series: Materials Science and Engineering 997 (2020) 012046, doi:10.1088/1757-899X/997/1/012046, ISI Proceedings 20. E Merticaru, V Merticaru jr, Models for the Influence of Transmission Errors and Hobbing Forces upon a Complex Gear Drive, BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI , Volumul 67 (71), Numărul 4, 2021 Secţia CONSTRUCŢII DE MAŞINI, pp. 69-78, ISSN-L 1011-2855 (ONLINE)ISSN 2537-4869 21. E Merticaru, V Merticaru jr, A dynamic study of a complex gear transmission, ACME 2020 IOP Conf. Series: Materials Science and Engineering 997 (2020) 012078, IOP Publishing, doi:10.1088/1757-899X/997/1/012078, https://iopscience.iop.org/article/10.1088/1757-899X/997/1/012078/pdf, E Merticaru and V Merticaru jr 2020 IOP Conf. Ser.: Mater. Sci. Eng. 997 012078 22. A Hrițuc, L Slătineanu, A Mihalache, O Dodun, M Coteaţă, G Nagîţ, Accuracy of Polylactide Parts Made by 3D Printing, Macromolecular Symposia, vol. 389, Issue 1, Special Issue SI, Art. No. 1900064, DOI: https://doi.org/10.1002/masy.201900064, WOS:000534200700012 (2020) 23. Adelina Hrituc, Andrei Mihalache, Marian Mares, Margareta Coteata, Oana Dodun, Gheorghe Nagit, Laurentiu Slatineanu, Mechanical Behaviour of 3D Printed PLA Hollow Spherical Parts Under Axial Compression, Materiale Plastice (Mater. Plast.), Year 2020, Volume 57, Issue 1, pages 13-20, https://doi.org/10.37358/MP.20.1.5304, WOS:000528195000003 (2020) 24. Hrituc, Adelina; Slatineanu, Laurentiu; Boca, Marius Andrei; Sover, Alexandru; Nagit, Gheorghe; Dodun, Oana; Coteata, Margareta; Mihalache, Andrei, Abrasive Erosion

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		Behavior of Some Plastic Parts Obtained by 3D Printing, MACROMOLECULAR SYMPOSIA, Volume: 396 Issue: 1 Special Issue: SI, Article Number: 2000288, DOI: https://doi.org/10.1002/masy.202000288, WOS:000641766900049 (2021) 25. Mihalache, Andrei; Hrituc, Adelina; Boca, Marius; Oroian, Bogdan; Condrea, Ionut; Botezatu, Carmen; Slatineanu, Laurentiu, Thermal Insulation Capacity of a 3D Printed Material, MACROMOLECULAR SYMPOSIA, Volume: 396 Issue: 1 Special Issue: SI, Article Number: 2000286, DOI: https://doi.org/10.1002/masy.202000286, WOS:000641766900046 (2021) 26. Laurentiu Slatineanu, Andrei Mihalache, Liviu Andrusca, Adelina Hrituc, Margareta Coteata, Oana Dodun, Gheorghe Nagit and Irina Besliu, Generation and compression testing of spherical wood bodies, Wood Material Science & Engineering, https://doi.org/10.1080/17480272.2021.1944308, WOS:000665692200001 (2022) 27. Andrei Marius Mihalache, Gheorghe Nagîț, Laurențiu Slătineanu, Adelina Hrițuc, Angelos Markopoulos and Oana Dodun, Evaluation of the Ability to Accurately Produce Angular Details by 3D Printing of Plastic Parts, Machines, 9(8), 150; https://doi.org/10.3390/machines9080150, WOS:000690618300001 (2021) 28. Marius Ionut Ripanu, Andrei Marius Mihalache, Laurentiu Slatineanu, Marian Mares, Liviu Andrusca, Adelina Hrituc, Oana Dodun, Gheorghe Nagit, Margareta Coteata, Bruno Radulescu, Tensile Strength of Threaded Rods Made by 3D Printing of Polymeric Material, Mater. Plast., 58 (4), 9-18; https://doi.org/10.37358/MP.21.4.5526, WOS:000744132400001 (2021) 29. Gheorghe Nagîț, Laurențiu Slătineanu, Oana Dodun, Andrei Marius Mihalache, Marius Ionuț Rîpanu, Adelina Hrițuc, Influence of Some Microchanges Generated by Different Processing Methods on Selected Tribological Characteristics, Micromachines, 13(1), 29; https://doi.org/10.3390/mi13010029, WOS:000749512300001 (2022) 30. Radulescu, Bruno; Mihalache, Andrei-Marius; Radulescu, Mara; Slatineanu, Laurentiu; Hrituc, Adelina; Dodun, Oana; Nagit, Gheorghe; Coteata, Margareta, Selection of a method for machining an Archimedean spiral groove, ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, Volume 65, Issue 1, Page 231-238, Special Issue SI, WOS:000773188500025 (2022) 31. Panaite, Camen Ema; Mihalache, Andrei-Marius; Dodun, Oana; Slatineanu, Laurentiu; Popescu, Aristotel; Hrituc, Adelina; Nagit, Gheorghe, Theoretical, Numerical and Experimental Assessment of Temperature Response in Polylactic Acid and Acrylonitrile Butadiene Styrene Used in Additive Manufacturing, Polymers, Volume 14, Issue 9, Article Number 1714, https://doi.org/10.3390/polym14091714, WOS:000799264400001 (2022) 32. Oana Dodun, Laurențiu Slătineanu, Gheorghe Nagîț, Adelina Hrițuc, Andrei Marius Mihalache, Irina Beșliu-Băncescu, WEDM-Generated Slot Width Variation Modeling, Micromachines, 13(8), 1231; https://doi.org/10.3390/mi13081231, WOS:000845499400001 (2022) 33. Bruno Rădulescu, Andrei Marius Mihalache, Adelina Hrițuc, Mara Rădulescu, Laurențiu Slătineanu, Adriana Munteanu, Oana Dodun, Gheorghe Nagîț, Thermal Expansion of Plastics Used for 3D Printing, Polymers, 14(15), 3061; https://doi.org/10.3390/polym14153061, WOS:000838950000001 (2022) 34. Vasile Merticaru, Gheorghe Nagîț, Oana Dodun, Eugen Merticaru, Marius Ionuț Rîpanu, Andrei Marius Mihalache, Laurențiu Slătineanu, Influence of Machining Conditions on Micro-Geometric Accuracy Elements of Complex Helical Surfaces Generated by Thread Whirling, Micromachines, 13(9), 1520; https://doi.org/10.3390/mi13091520, WOS:000856957800001 (2022) 35. Laurențiu SLĂTINEANU, Margareta COTEAȚĂ, Oana DODUN, Florentin CIOATĂ, Adriana MUNTEANU, Adelina HRIȚUC, Gheorghe NAGÎȚ, Andrei Marius MIHALACHE, Ergonomic approach to teaching online activity using principles of axiomatic design, ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, Vol. 65, Issue Special III, pp. 843-852, WOS:000953026700038 (2022) 36. Andrei-Marius Mihalache, Vasile Ermolai, Alexandru Sover, Gheorghe Nagîț, Marius-Andrei Boca, Laurențiu Slătineanu, Adelina Hrițuc, Oana Dodun and Marius-Ionuț Rîpanu, Tensile Behavior of Joints of Strip Ends Made of Polymeric Materials, Polymers, 14(22), 4990; https://doi.org/10.3390/polym14224990, WOS:000887608700001 (2022) 37. Adelina HRIȚUC, Oana DODUN, Andrei MIHALACHE, Gheorghe NAGÎȚ, Equipment requirements for the investigation of sound insulation properties of 3D printed polymeric

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Responsabil PSUM,
Mihalache Andrei