UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" IAȘI
Facultatea Inginerie Chimică și Protecția Mediului "Cristofor Simionescu"
Domeniul de licență: Ingineria Mediului
Programul de studii universitare de licență: **ECODESIGN ȘI TEHNOLOGII SUSTENABILE**
Forma de învățământ: IF
Durata studiilor: 4 ani

Materiale didactice elaborate de titulari în acord cu disciplinele din planul de învățământ

Anul 1

Nr. crt.	Cadru didactic	Disciplina	Resurse de studiu (format electronic sau tipărit, nr. de exemplare)
1	Conf.univ.dr.mat. Romaniuc Simona-Luiza,	Matematica aplicata 1	**Romaniuc, S. L.,** *Support de curs Analiză matematică pentru Facultatea de Inginerie Chimică și Protecția Mediului și Facultatea de Hidrotehnică, Geodezie și Ingineria Mediului*, 2025, https://sites.google.com/view/sromaniuc/icpm-am **Romaniuc, S. L.,** *Support de curs Analiză matematică pentru Facultatea de Mecanică*, 2025, https://sites.google.com/view/sromaniuc/mecanica **Romaniuc, S. L.,** *Elemente de analiză matematică*, Editura Performantica, Iași, 2022, ISBN 978-606-685-953-0 **Romaniuc, S.L.,** *Exerciții de analiză matematică, Culegere* 250 pagini, 2021, https://sites.google.com/view/sromaniuc/culegere-am
2	Conf. Marius Cazacu	Fizică	*1.* ***Cazacu M.M. et*** *al. (2017). The effect of the use of computer simulations and virtual physics laboratory in gender performance of physics learning. ICERI* Proceedings, pp. 0549–0555. *2. Radinschi I., Fratiman V., Ciocan V****., Cazacu M.M. (2017****). Interactive computer simulations for standing waves. Computer Applications in Engineering Education, 25(3),* 521–529. *3. Voiculescu M., Condurache-Bota S., Sfică L****., Cazacu M.M.*** *(2020). Teste și întrebări de fizica atmosferei, meteorologie și climatologie.* Editura Ars Longa, ISBN 978-973-148-354-9.
3	Șef lucr.dr.chim. Apostolescu Gabriela-Antoaneta	Chimie aplicată 1	Nicolae Apostolescu, Maria Harja, **Gabriela-Antoaneta Apostolescu**, Materiale inovative și procedee avansate pentru aplicații funcționale, Editura EcoZone Iași, 2026, 227 p., ISBN 978-606-8625-48-5, DOI: 10.5281/zenodo.18709216 **Gabriela-Antoaneta Apostolescu**, Nicolae Apostolescu, Chimie anorganică descriptivă: elementele din blocul p, Editura EcoZone Iasi, 2026, 347 p., ISBN 978-606-8625-47-8, DOI: 10.5281/zenodo.18709387 **Gabriela-Antoaneta Apostolescu**, Nicolae Apostolescu, Chimie anorganică descriptivă: elementele din blocul s, EcoZone, Iași 2025, ISBN 978-606-8625-46-1, 152 pg., DOI: 10.5281/zenodo.18709330 **G. A. Apostolescu**, N. Apostolescu, Materii prime minerale: bazele identificării mineralelor și rocilor, Ed. Ecozone, 2022, 222p., ISBN 978-606-8625-33-1 R. E. Tătaru Farmus, C. Cernătescu, C. Cobzaru, **G.A. Apostolescu**, N. Apostolescu - Schiff bases and its potential use for wastewater treatment, Current topics, concepts and research priorities in environmental chemistry, vol. IV, ed. Carmen Zaharia, Ed. Universității "Al. I. Cuza" Iași, 2015, pp. 53-68.

Nr. crt.	Cadru didactic	Disciplina	Resurse de studiu (format electronic sau tipărit, nr. de exemplare)
			N. Apostolescu, **G.A. Apostolescu** - Materiale Anorganice Speciale, Pigmenți, Ed. ECOZONE, Iași, 2014, 211p., ISBN 978-606-8625-00-3. Olimpius Istrate, Petre Botnariuc, Simona Găbureanu, **Gabriela Apostolescu**, Dezvoltarea profesionala a cadrelor didactice de științe tehnologice, Ed. UNIVERSITARĂ, București, 2013, 110p., DOI: 10.5682/9786065917385, ISBN 978-606-591-738-5 Sutiman D., Căilean A., Vizitiu M., Sibiescu D., **Apostolescu G** - Aplicații practice privind sinteza si caracterizarea compușilor anorganici, Ed. PIM, Iasi, ISBN 978-606-520-622-9, 2009 **Apostolescu, G**. Carja G., Vizitiu M., Chimia fizica a sistemelor polidisperse. Aplicatii practice –Ed PIM, 2009, ISBN 978-606-520-630-4, 2009 Sutiman D., Căilean A., Foca N., Vizitiu M., Sibiescu D., **Apostolescu G** – Chimie anorganica – Practicum, caiet de laborator, Ed. PIM, 2008, ISBN 973-716-726-0 Sutiman D., Căilean A., Ştefancu E., Foca N., Vizitiu M., Sibiescu D., **Apostolescu G.,** Nechita M.T. – Chimie anorganică. Caiet de laborator, Ed. PIM, Iaşi, 2005 - ISBN: 973-716-235-8 Roşca I., D. Sutiman, N. Foca, E. Ştefancu, A. Căilean, M. Vizitiu, D. Sibiescu, G**. Apostolescu**, M. Nechita, Chimie anorganică I – aplicaţii practice, Ed. Cermi, 2004. I. Rosca, D. Sutiman, A. Căilean, E. Ştefancu, N. Foca, M. Vizitiu, D. Sibiescu, **G. Apostolescu**, L. Oprea, Experimente şi teste de chimie anorganică, Ed. PIM, 2004. ISBN 973-7967-82-8 I. Rosca, E. Stefancu, N. Foca, D. Sutiman, A. Cailean, D. Sibiescu, M. Vizitiu, **Gabriela Apostolescu** -Chimie anorganica experimentala, Ed. VIE, Iasi, 2002.
4	SL Catalin Balan	Știința mediului	1 Marcoie, N., Toma, D., **Balan, C**.-D., Hrăniciuc, T.-A., Boboc, V., Tofănică, B.-M. (2026). Managementul integrat al circuitului apei în zonele construite. Sinteze, modelări fizice și numerice, soluții pentru reziliența orașelor. Editura Universității Tehnice „Gheorghe Asachi" din Iași. 2 Marcoie N., Toma I.O., Chihaia Ș., Hrăniciuc T.A., Toma D., **Balan C.D**., Anthropogenic River Segmentation Case Study: Bahlui River from Romania, Hydrology, 12(9), 224, 2025 3 Marcoie N., Chihaia Ș., Hrăniciuc T.A., **Balan C.D.,** Drăgoi E.N., Nechita M.T., Linking Nutrient Dynamics with Urbanization Degree and Flood Control Reservoirs on the Bahlui River, Water, 16(10), 1322, 2024. 4 Zotica T.A., Chirilă S.D., **Balan C.D**., Volf I., *Physical and chemical characterization and floristic peculiarities of a soil affected by anthropic activities*, Environmental Engineering and Management Journal, 19(2), 219–227, 2020.
5	Șef lucr.dr.ing. Elena-Niculina Drăgoi	Informatica aplicata	Curteanu S, **Dragoi EN**, Blaga AC, Galaction AI, Cascaval D. Neuroevolutive Algorithms Applied for Modeling Some Biochemical Separation Processes. In Artificial Neural Networks, H. Cartwright, Editor. Springer US: New York, NY. p. 115-138, 23 p., ISBN: ISBN:19406029 10643745, 2021 2. **Drăgoi EN**, Suditu GD, Curteanu S. Optimization of Polyacrylamide Based Multicomponent Hydrogels Synthesis Using a Neuro-Evolutionary Strategy. In: EngOpt 2018 Proceedings of the 6th International Conference on Engineering Optimization. H. C. Rodrigues, J. Herskovits, C. M. Mota Soares, A. L. Araújo, J. M. Guedes, J. O. Folgado, F. Moleiro, J. F. A. Madeira. Springer,p 379-405, 8 p., ISBN: ISBN: 978-981-10-6083-0, 2018 3. **Dragoi EN.,** Curteanu S.. Applications of Differential Evolution in Polymerization Reaction Engineering. In: Differential evolution in chemical engineering for both single and multi-objective optimization, Shivon S., Rangaiah G.P. (Eds). World Scientific, p 377-415, 39 p., ISBN: ISBN: 978-981-3207-51-6, 2018

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			4. Curteanu S., **Dragoi EN**. Neuro-evolutive techniques applied for modeling processes involving polymer gels, In: Polymer Gels: Synthesis and Characterization, Vijay Kumar Thakur and Manju Kumari Thakur (Eds). Springer, p 379-405, 27 p., ISBN: 978-981-10-6082-3, 2018 5. Suditu GD, Lisa G, Nechita MT, **Dragoi EN**, Ardelean E. Kinetic analysis of thermal degradation of some old paper consolidated with celulose ethers in Proceeding book of the 9th European Symposium on Religious Art, Restauration & Conservation. Rusu I, Nechita MT , Dragoi EN, Apostolescu N (eds.). Kermes books, 3 p., ISBN: ISBN: 978-88-94206-44-9, 2017 6. Curteanu S, **Dragoi EN**, Dafinescu V. Evolutionary hybrid configuration applied to a polymerization process modelling. In: Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). Springer 9095, pp. 237-249, 13 p., ISBN: ISBN:978-3-319-19222-2; 978-3-319-19221-5, 2015 7. **Drăgoi E.N.,** Curteanu S., Dafinescu V.. Modelling and optimization of chemical engineering processes. Bio-inpired techniques. LAP LAMBERT Academic Publishing, pp. 326,, 326 p., ISBN: ISBN: 978-3-659-40925-7, 2013
6	SL dr. Marius Telisca	Climatologie și schimbări climatice	1. **Telișcă** *M., Antohi C. (2012). Considerations on dangerous meteorological phenomena and their implications. În Current Topics, Concepts and Research Priorities in Environmental Chemistry, vol. I, pp. 71–88,* ISBN 978-973-703-798-5. 2. Vîrsta A., Giurma I., Oancea S., Păun D., **Telișcă** *M. (2010). Efecte ale insulelor de căldură în climatologie, medicină şi inginerie.* Editura Nouă, București, 186 p. 3. **Telișcă** *M. (2013). Study on global dimming generated by atmospheric aerosols. Environmental Engineering and Management* Journal, 12(4), 747–750.
7	Conf.univ.dr.mat. Romaniuc Simona-Luiza	Matematica aplicata 2	Romaniuc, S. L., Support de curs Metode numerice și statistică matematică pentru Facultatea de Inginerie Chimică și Protecția Mediului și Facultatea de Hidrotehnică, Geodezie și Ingineria Mediului, 2025, https://sites.google.com/view/sromaniuc/mnst
8	SL Daniela Gavrilescu	Introducere în eco-design și proiectare sustenabilă	1. Anisoara Enache Talpalaru, **Daniela Gavrilescu**, *Carmen Teodosiu, (2025), End of Life Management Sustainability of Waste Electrical and Electronic Equipment Generated in Romania, Sustainability, 17, 4105,* https://doi.org/10.3390/su17094105 3. **Daniela Gavrilescu**, *Petru Apopei, George Bârjoveanu, Carmen Teodosiu, (2022), Capitolul 6. Managementul deșeurilor în comunitățile rurale. Ghid de bune practici, in cartea Educație pentru mediu în comunități rurale sustenabile. Ghid de utilizare a resurselor educaționale deschise,* Editura Universității Transilvania din Brașov 4. Constantin Cîrjan, **Daniela Gavrilescu**, *Carmen Teodosiu, 2024, Management of Packaging Waste From E-Commerce in the Context of the Circular Economy, Buletinul Institutului Politehnic Din Iaşi, Volumul 70 (74), Numărul 3, Secţia Chimie si Inginerie Chimică,*doi: 10.5281/zenodo.13837961 5. George Barjoveanu, Petru Apopei, **Daniela Gavrilescu**, *Andreea Gherghel, Carmen Teodosiu, 2023, Chicken Manure Valorisation By Forced Aeration In-Vessel Composting at Laboratory Scale, Buletinul Institutului Politehnic din Iaşi, Volumul 69 (73), Numărul 3, Secţia Chimie si Inginerie Chimică,*doi: 10.5281/zenodo.10072463 6. Mădălina-Maria Enache, Dorina Petrisor, Bogdan-Constantin Seto, **Daniela Gavrilescu**, *Carmen Teodosiu, 2023, An Overview of Legislative Changes in Packaging Waste management in Romania, Buletinul Institutului Politehnic din Iaşi, Volumul 69 (73), numărul 4, secţia Chimie si Inginerie Chimică,* doi: 10.5281/zenodo. 10684910
9	Șef lucr. dr. ing. Cristina Maria Herghiligiu	Chimie aplicată 2	C.M. Herghiligiu - Chimie organică - suport laborator, format ppt (2025); https://tuiasiro.sharepoint.com/:b:/s/Chimie2ChimieorganicaIM/IQCQCv7bbcbhRqOntYnRwm3QAWv6gfNSHPydTffbtj_ifaI?e=7a8D7P C.M. Herghiligiu - Chimie organică - exerciții teste curs, format ppt (2025); https://tuiasiro.sharepoint.com/:b:/s/Chimie2ChimieOrganica-testecursexercitiisirezolvari/IQAIUjlUar_uR7rY23PfcBf6AZSjKyb8YBONwJ8_5yROlIQ?e=UYFsbw

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			C.M. Herghiligiu - Chimie organică II - exerciții teste curs, format ppt (2025); https://tuiasiro.sharepoint.com/:b:/s/CHIMIEORGANICA2-exerciiitestecurs/IQB_Bpt6- Ob2RrOloxkr0v-TAQkT-NdvRcDwG53mGEj4H7o?e=QFEeaO 1. C.M. Herghiligiu, Irina Cârlescu - Chimie organică II - suport lucrări de laborator, format ppt, (2025); https://tuiasiro.sharepoint.com/:b:/s/CHIMIEORGANICA2-suportlaborator/IQBbm8X1U0fkRry_ReKlIYqBAYI37UhE9IvbAeJN9c5P62A?e=BtKiE0
10	Conf.dr.ing. Marius Gavrilescu	Competențe digitale pentru sustenabilitate	**M. Gavrilescu,** *Metode de învățare automată – Noțiuni elementare și implementări în limbajul*, Python, Ecozone, 2024, ISBN 978-606-8625-42-3. **M. Gavrilescu**, F. Leon, and A.-A. Minea, "Techniques for Transversal Skill Classification and Relevant Keyword Extraction from Job Advertisements," Information, vol.16, no. 3, p. 167, http://doi.org/10.3390/info16030167, 2025. F. Leon, **M. Gavrilescu,** S A. Floria, and A.A. Minea, "Hierarchical classification of transversal skills in job advertisements based on sentence embeddings," Information, vol. 15 (3), 151, 10.3390/info15030151, 2024. S.A. Floria, **M. Gavrilescu**, F. Leon, and S. Curteanu, "Ensembles of biologically inspired optimization algorithms for training multilayer perceptron neural networks," Applied Sciences, vol. 12 (19) 9997, http://doi.org/10.3390/app12199997, 2022. **M. Gavrilescu***, S.A. Floria, F. Leon, and S. Curteanu, "A hybrid competitive evolutionary neural network optimization algorithm for a regression problem in chemical engineering," Mathematics, vol. 10 (19), 3581, http://doi.org/10.3390/math10193581, 2022.
11	Prof. Laura Bulgariu / SL Gabi Nacu	Tehnici de laborator /Laboratory practices	1. Note de curs - Metode si tehnici de caracterizare a compozitiei deseurilor, Autori: **Laura Bulgariu**, *Online pe MSTeams.* 2. **Laura Bulgariu**, *D. Bulgariu – Chapter 3: Environmental Applications of Ion-Exchange method: Achievements, Opportunities and Challenges, in book: Ion Exchange: Theory and Applications, Edited by: N. Spencer and J. Thornton, Nova Science Publishers Inc., New York, 2017,* ISBN: 978-1-53612-352-4, 319 pgs, pp. 101-126 3. D. Bulgariu, C. Rusu; I.G. Breabăn, **Laura Bulgariu**, *D. Aştefanei – Metode Instrumentale de analiză în geoştiinţe. Vol. I. Prelevarea probelor. Sampling, Ed. DEMIURG, Iaşi, 2005.* ISBN 973-7603-24-9, 282 p. 4. L.Tofan, **Laura Bulgariu**, *O. Toma – Biochimie analitica. I. Metode chimice de analiza. Metode de separare si concentrare a biomoleculelor. Casa Editoriala Demiurg, Iasi, 2007,.* ISBN. 973-152-038-4, 280 p. 5. **Laura Bulgariu** – *Metode instrumentale de analiză,* Editura Politehnium, Iaşi, 2011, ISBN. 978-973-621-317-5, 260 p. 6. **Laura Bulgariu** – *Controlul analitic al calităţii produselor,* Editura Politehnium, Iaşi, 2013, ISBN 978-973-621-423-3, 215 p.
12	Conf. dr. Paraschiv Petronela	Educație fizică 1	1. Paraschiv Petronela, CURS DE BASCHET PENTRU STUDENTII CU PROFIL TEHNIC, Editura PIM, 2024, ISBN 978-606-13-8868-4 2. Paraschiv Petronela, Curs de handbal pentru studentii din invatamantul cu profil tehnic, Editura PIM, Iasi, 2016, ISBN: 978-606-13-3346-2 3.Paraschiv Petronela, Fotbal – Lecții introductive pentru studenții din învățământul superior cu profil tehnic(AN II)Editura Pim, Iasi, 2016, ISBN: 978-606-13-3345-5 4. Paraschiv Petronela, Bodybuilding – Indrumar metodic pentru studentii din invatamantul cu profil tehnic Editura PIM,Iasi, 2016, ISBN: 978-606-13-3344-8 5.Paraschiv Petronela, Handbal – Caiet de lucrari practice pentru studenții din învățământul superior cu profil tehnic Editura Pim, Iasi, 2016, ISBN: 978-606-13-3346-2 6.http://www.cmmi.tuiasi.ro/studenti/cursuri/

Nr. crt.	Cadru didactic	Disciplina	Resurse de studiu (format electronic sau tipărit, nr. de exemplare)
			CURS-DE-BASCHET-PENTRU-STUDENTII-CU-PROFIL-TEHNIC-1.pdf – https://sim.tuiasi.ro/wp-content/uploads/2024/12/17.https://sim.tuiasi.ro/wp-content/uploads/2024/10/FOTBAL.pdf
13	Lector dr. Franke Bianca Iuliana	Limbi moderne (engleză) 1-2	Bianca-Iuliana Misinciuc, Idiomatic expressions in English, German, Spanish, Portuguese and Romanian: A comparative study, Performantica, Iaşi, 2020, ISBN 978-606-685-716-1.
	Lector dr. Franke Bianca Iuliana	Limbi moderne (germana) 1-2	Bianca-Iuliana Misinciuc, Idiomatic expressions in English, German, Spanish, Portuguese and Romanian: A comparative study, Performantica, Iaşi, 2020, ISBN 978-606-685-716-1
14	SL Dr.ing. Petronela Cozma	Elemente de sustenabilitate si economie circulara	*1. Suport de prezentare ppt a cursului Producție Industrială durabilă, (format electronic), autori: Cozma P., (2022-2025), Online pe MSTeams:* https://teams.microsoft.com/l/team/19%3aM9THVBV_oAESpF5ppYGpoLfeuYjFHv-45RE_sjXejGA1%40thread.tacv2/conversations?groupId=39fe6bac-b085-4d8d-a7b1-991361b04b8d&tenantId=607d63ca-9f36-4ad8-9f71-8b3efc392eb1 *2. Suport lucrări proiect Producție Industrială durabilă, (format electronic), autori: Cozma P., (2016-2025), Online pe MSTeams:* https://teams.microsoft.com/l/team/19%3aM9THVBV_oAESpF5ppYGpoLfeuYjFHv-45RE_sjXejGA1%40thread.tacv2/conversations?groupId=39fe6bac-b085-4d8d-a7b1-991361b04b8d&tenantId=607d63ca-9f36-4ad8-9f71-8b3efc392eb1 *3. Cozma P., Smaranda C., Comăniță E.-D., Roșca M., Ghinea C., Câmpean T., Gavrilescu M., (2020), Knowledge transfer in university – industry research collaboration for extending life cycle of materials in the context of circular economy, Environmental Engineering and Management* Journal, 19, 2097-2112 *4. Cozma P., Bețianu C., Hlihor R.-M., Simion I.M., Gavrilescu M., (2024), Bio-recovery of metals through biomining within circularity-based solutions, Processes, 12, 1793,* https://doi.org/10.3390/pr12091793. *5. Cozma P., Ciomaga N.I, Hlihor R.-M., Roșca M., Minuț M., Smaranda C., Gavrilescu M., (2020), Identification and Valorization of Agri-Food By-Products: An Overview, The 8th IEEE International Conference on E-Health and Bioengineering - EHB 2020, pp.1-4,* doi: 10.1109/EHB50910.2020.9280290 *6. Cozma P., Ghinea C., Mămăligă I., Wukovits W., Friedl A., Gavrilescu M., (2013), Environmental impact assessment of high pressure water scrubbing biogas upgrading technology, CLEAN – Soil, Air, Water, 41(9), 917–927,* DOI: 10.1002/clen.201200303. *7. Gavrilescu M., Crețescu I., Măluțan T., Puițel A., Smaranda C., Cozma P., Hlihor R.-H., Ghinea C., Simion I.M., Comăniță, E.D., Roșca M., Câmpean T., (2018), Strategii și soluții pentru eco-inovarea unor procese și produse din materiale reciclabile în contextul economiei circulare. Ghid de bune practici,* Editura Politehnium, Iași, Romania, ISBN 978-973-621-481-3. *8. Fortună M.E., Simion I.M., Ghinea C., Petraru M., Cozma P., Apostol L.C., Hlihor R.-M.,Tudorache Fertu D., Gavrilescu M., (2012), Analysis and management of specific processes from environmental engineering and protection based on sustainability indicators, Environmental Engineering and Management* Journal, 11(2), 333-350 *9. Comăniță E.-D., Simion I.M., Cozma P., Hlihor R.M., Campean T., Gavrilescu M., (2017), Application of cost-benefit analysis for an eco-product manufactured from production waste, International* Proceedings of Chemical, Biological and Environmental Engineering, V0l. 101 91-98, (2017), DOI: 10.7763/IPCBEE. 2017. *10. Comăniță E.-D., Cozma P., Simion I.M., Roșca M., Gavrilescu M., (2018), Evaluation of eco-efficiency by multicriteria decision analysis. Case study of eco-innovated and eco-designed products from recyclable waste, Environmental Engineering and Management* Journal, 17, 1791-1804

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	SL Dr.ing. Petronela Cozma	Elemente de sanatate si securitate ocupationala	Mariana Minut, Mihaela Rosca, Raluca-Maria Hlihor, Petronela Cozma, Maria Gavrilescu, Modelling of health risk associated with the intake of pesticides from Romanian fruits and vegetables, Sustainability, 2020, 12(23), 10035; doi:10.3390/su122310035. Petronela Cozma, Raluca-Maria Hlihor, Mihaela Roșca, Laura Carmen Apostol, Maria Gavrilescu, Evaluation of human health risks associated with pesticide dietary intake - an overview on quantitative uncertainty analysis, Environmental Engineering and Management Journal, 17, 2263-2274, 2018. Petronela COZMA, Mihaela ROȘCA, Isabela Maria SIMION, Raluca-Maria HLIHOR,Ecological risk assessment of heavy metals in soils and sediments: a review, Proc. Rom. Acad., Series B, 2023, 25(3), p. 193–200.
15	Prof.dr.habil.ing. Brindusa-Mihaela Sluser	Comunicare academica	1. Note de Curs - Managementul relatiilor interpersonale, Brindusa **Sluser**, *anul al II-lea, masterat MM, 2020-2022, Online pe MSTeams.* 2. Comunicarea si managementul relatiilor la nivel organizational, Brindusa **Sluser**, *Carmen Ioan,* ISBN 978-606-8625-40-9, editura EcoZone, Iasi, 210p, 2024. *3. Profiluri de interese vocaţionale favorabile integrării profesionale ale absolvenţilor de ingineria mediului, Carmen-Cătălina Ioan, Ileana Maria Carcea, Brîndușa Mihae*la Sluşer, Bulletin of Polytechnic Institute from Iasi, section Socio-sciences, 2019, Volumul 65 (69), 1-2, p.41-57
16	Prof.dr.habil.ing. Brindusa-Mihaela Sluser / SL Dr.ing. Petronela Cozma	Etica si integritate	Cozma Petronela, (2024), Eticasi integritate . Suport de curs in ppt format, (in English), online MsTeams/Classroom.
17	S.l. dr.ing. Vizitiu Mihaela	Chimie (Noțiuni fundamentale în chimie)	Gabriela Carja, Gabriela Lisa, **Mihaela Vizitiu**; *Chimie-Fizica prin lucrari de laborator si aplicatii*; Ed.Performantica Iasi; (2017) ISBN: 978-606-685-551-8. Sibiescu Doina, **Vizitiu Mihaela**, Bioanorganica-lucrari practice, ed. PIM – Iasi, 2016, ISBN 978-606-13-3066-9
19	Conf.dr. mat. Romaniuc Simona Luiza	Algebra liniara, geometrie analitica si diferentiala	**Romaniuc, S. L.,** *Îndrumar pentru seminarii de algebră liniară*, 63 pagini, 2020, https://sites.google.com/view/sromaniuc/indrumar-al
20	Prof.dr.habil.ing. Brindusa-Mihaela Sluser	Sisteme industriale sustenabile (Ingenium - module de sustenabilitate)/ Sustainable industrial systems (Ingenium modules for sustainability)	1. Educație pentru mediu in comunități rurale sustenabile. Ghid de utilizare a resurselor educaționale deschise, editori Camelia Drăghici, Brîndușa Mihaela **Sluşer**, *Cezar Petre Simion,* editura Universităţii "Transilvania", Brasov, ISBN 978606-19-1524-8, 235p, 2022. 2. Evaluarea impactului şi a riscului induse asupra mediului de activităţi industriale, **Brîndușa Robu**, *Editura Ecozone, Iaşi, 2005,* ISBN 973-7645-00-6, pg. 221 3. Environmental impact and risk assessment: procedures and evaluation tools (chapter), **Sluser** *B., Teodosiu C., in book Environment as risk and emergency, coord. Philippe Burny, Calin Baciu, Camelia Botezan, Dacinia Petrescu, Grigore Vlad,* editura Valea Verde, ISBN 978-606-8834-42-9, 2021. 4. Evaluari de mediu. Aplicatii, autor **Brindusa Robu** (**Sluser***), Ed. EcoZone, Iasi,* ISBN 978-973-7645-98-2, 2012 5. Environmentaltal Impact and risk assessment (chapter), **Sluser** *B, Plavan O, Teodosiu C., in book Assessing Progress toward Sustainability (eds. Teodosiu C, Hospido A., Fiore S),* Elsevier Ed., 2022.

Nr. crt.	Cadru didactic	Disciplina	Resurse de studiu (format electronic sau tipărit, nr. de exemplare)
			6. Environmental impact and risk assessment: procedures and evaluation tools (chapter), **Sluser** *B., Teodosiu C., in book : Environment as risk and emergency, coord. Philippe Burny, Calin Baciu, Camelia Botezan, Dacinia Petrescu, Grigore Vlad,* editura Valea Verde, ISBN 978-606-8834-42-9, 2021 7. Environmental monitoring and impact assessment of Prut river cross-border pollution, Neamtu R., **Sluser** *B., Plavan O, Teodosiu C., Environmental Monitoring and Assessment* Journal, (2021), DOI: 10.1007/s10661-021-09110-1 (ISI, IF= 2.802). 8. Environmental impact and risk assessment of the main pollution sources from the Romanian Black Sea Coast, **Brindusa Robu**, *Oana Jitar, Carmen Teodosiu, Stefan-Adrian Strungaru, Mircea Nicoara, Gabriel Plavan, Environmental Engineering and Management* Journal, (2015), 14(2), 331-340

Anul 2

Nr. crt.	Cadru didactic	Disciplina	Resurse de studiu (format electronic sau tipărit, nr. de exemplare)
1	Prof. Laura Bulgariu / SL Gabi Nacu	Chimie aplicată 3	1. Note de curs - Metode si tehnici de caracterizare a compozitiei deseurilor, Autori: **Laura Bulgariu**, *Online pe MSTeams.* 2. **Laura Bulgariu**, *D. Bulgariu – Chapter 3: Environmental Applications of Ion-Exchange method: Achievements, Opportunities and Challenges, in book: Ion Exchange: Theory and Applications, Edited by: N. Spencer and J. Thornton, Nova Science Publishers Inc., New York, 2017,* ISBN: 978-1-53612-352-4, 319 pgs, pp. 101-126 3. D. Bulgariu, C. Rusu; I.G. Breabăn, **Laura Bulgariu**, *D. Aştefanei – Metode Instrumentale de analiză în geoştiinţe. Vol. I. Prelevarea probelor. Sampling, Ed. DEMIURG, Iaşi, 2005.* ISBN 973-7603-24-9, 282 p. 4. L.Tofan, **Laura Bulgariu**, *O. Toma – Biochimie analitica. I. Metode chimice de analiza. Metode de separare si concentrare a biomoleculelor. Casa Editoriala Demiurg, Iasi, 2007,.* ISBN. 973-152-038-4, 280 p. 5. **Laura Bulgariu** – *Metode instrumentale de analiză,* Editura Politehnium, Iaşi, 2011, ISBN. 978-973-621-317-5, 260 p. 6. **Laura Bulgariu** – *Controlul analitic al calităţii produselor,* Editura Politehnium, Iași, 2013, ISBN 978-973-621-423-3, 215 p.
2	Prof.univ.dr.ing. habil. Cezar-Florin Catrinescu / SL Marilena-Adela Buburuzan	Știința si ingineria materialelor	*1. C. Catrinescu, Procese catalitice de epurare a apelor uzate,* Editura Politehnium, 2008, Iasi (20 exemplare) *2. Ungureanu Adrian, Catrinescu Cezar-Florin, Cataliză și materiale catalitice,* Editura Ecozone Iași, ISBN 978-606-8625-41-6, 184 pg. (formt academic), 2024 *3. Note de curs, Advanced Water and Air Treatment Technologies, Catrinescu Cezar-Florin – disponibil la* https://groups.yahoo.com/neo/groups/awat-ficpm/files *4. C. Catrinescu, C., Chelba, A., Teodosiu, C., Apopei, P., Removal of diclofenac from secondary wastewater effluents by Fenton based processes, (2017), Environmental Engineering and Management* Journal, 16 (4), pp. 765-777 *5. Note de curs, Tehnologii avansate de depoluare - C. Catrinescu – disponibil pe platforma MSTeams* *6. Gavrilescu M. (coordonator), Diaconu M., Bulgariu L., Volf I., Catrinescu C., Smaranda C., Cozma P., Hlihor R.M., Ghinea C., Apostol L. C., Comăniță E.D., Roșca M., Vasilică S.I., 2019, Explorarea și exploatarea abilităților microorganismelor, plantelor și a interacțiunilor dintre acestea pentru bioremedierea mediului,* Editura Performantica, Iași, România, ISBN 978-606-685-490-4.

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			*7. Apopei, P., Orha, C., Popescu, M.I., Lazau, C., Manea, F., Catrinescu, C., Teodosiu, C., Diclofenac removal from water by photocatalysis- assisted filtration using act*ivated carbon modified with N-doped TiO2, (2020), Process Safety and Environmental Protection, 138, pp. 324-336. *8. Arsene, D., Musteret, C.P., Catrinescu, C., Apopei, P., Barjoveanu, G., Teodosiu, C., Combined oxidation and ultrafiltration processes for the removal of priority organic pollutants from wastewaters, Environmental Engineering and Management* Journal, 2011, 10 (12), 1967-1976.
3	Prof. dr. ing. Gabriela Lisa	Termodinamica și sisteme energetice sustenabile	1. Lisa G., Chimie Fizică 1 Termodinamică, Editura Performantica, Iaşi, ISBN 978-973-730-555-8, 2008,176 pag. 2. Carja G., Lisa G., Vizitiu M., Chimie Fizică prin Lucrări de laborator și aplicații, Ed. Performantica, Iași, 2017. 3. Carja G., Lisa G., Vizitiu M., Chimie Fizică prin lucrări de laborator şi aplicaţii, Ed. Performantica, Iaşi, ISBN 978-606-685-551-8, 2017, 186 pag./ 150 exemplare. 4. Lisa G., Probleme de Chimie Fizică, Editura Performantica, Iaşi, ISBN 978-973-730-562-6, 2008,116 pag./ 50 exemplare. 5.Curteanu S, Lisa G., Aelenei N., Aplicatii de chimie fizica rezolvate in Mathcad, Ed. MATRIX ROM., București, ISBN 973-685-473-6, 2002, 405 pag./ 50 exemplare. 6.Lisa G., Curs chimie fizică 3, in sistem e-learning, 2020, 115 pagini https://sites.google.com/academic.tuiasi.ro/prof-gabriela-lisa/chimie-fizica-3 7.Lisa Gabriela, Curs Chimia fizica a sistemelor omogene si disperse in sistem e-learning 80 pagini, 2020 https://sites.google.com/academic.tuiasi.ro/prof-gabriela-lisa/sisteme-omogene 8. Lisa G., Teste format electronic pentru pregătirea examenului de Chimie fizică 1. Termodinamică, 2016, 19 pag
4	Prof. Igor Cretescu	Monitorizarea factorilor de mediu	**1.Cretescu** *I., Soreanu G. (2013). Tehnologii de achizitie, monitorizare si diagnoza a calitatii factorilor de mediu. Ed. ECOZONE, Iasi, 227 p.,* ISBN 978-973-7645-92-0 (25 exemplare) 2. **Cretescu** *I., Benchea R.E., Chapter 8: Advances of flow techniques for analysis of persistent pollutants from surface waters, în: Current topics, concepts and research priorities in environmental chemistry, vol. I,* Editura "Alexandru Ioan Cuza" ISBN: 978-973-703-798-5, 2012, pp.173-192. (5 exemplare) 3. Cristian Fosalau, Igor **Cretescu**. *Senzori si traductoare in monitorizarea mediului,* http://iota.ee.tuiasi.ro/~emse/Senzori%20si%20traductoare%20in%20monitorizarea%20mediului.pdf 4. Note de curs, Environmental monitoring, **Cretescu** *I., http://learning.tuiasi.ro/course/index.php?categoryid=27* 10. **Cretescu** *I., Soreanu G. (2013). Optimizarea Proceselor in Inginerie Chimica si Protectia Mediului. Ed. Ecozone, Iasi, 202p,* ISBN 978-973-7645-85-2 (25 exemplare) 5. **Cretescu** *I., Borodaev R., Lutic D., Soreanu G., Duca G., Ratnaweera H. (2023). REDOX Measurements: Inexpensive and Fast Tool for Preliminary Ecotoxicity Assessment and an Early Warning System for Water Pollution. Chapter 8, in: Environmental and Technological Aspects of Redox Processes (Eds. Duca G., Vaseashta A.), IGI Global, Hershey, Pennsylvania, USA: 132-148.* ISBN 9798369305126. 6. **Cretescu** *I., Kovacs Z., Lazar L., Burada A., Sbarcea M., Teodorof L., Padure D., Soreanu G. (2021). Danube Delta: Water Management on the Sulina Channel in the Frame of Environmental Sustainability. Chapter 8, in: River Deltas Research - Recent Advances (Ed. Manning A.J.), IntechOpen, London, UK.* ISBN 978-1-78985-670-5.

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			7. **Cretescu** *I., Lutic D., Manea L.R., Electrochemical Sensors Technology, Electrochemical Sensors for Monitoring of Indoor and Outdoor Air Pollution, 2017, InTech London-Rijeka, Croatia,* ISBN 978-953-51-3193-9 (On-line) 8. **Cretescu** *I., Kovács, Z. Cimpeanu S.M., Chapter 10: Monitoring of Surface Water Status in the Lower Danube Basin, River Basin Management, Edited by Daniel Bucur,* ISBN 978-953-51-2604-1, InTech, 2016, 205-223 (On-line)
5	SL.Camelia Betianu	Microbiologia mediului	1. C. **Bețianu**, *Microbiologia mediului*, Suport curs, *platforma MSTeams* 2. C. **Bețianu**, *Microbiologia mediului, Suport aplicatii de laborator, platforma MSTeams* 3. Maria Gavrilescu (coordonator), Mariana Diaconu, Laura Bulgariu, Irina Volf, Cezar Catrinescu, **Camelia Smaranda**, *Petronela Cozma, Raluca-Maria Hlihor, Cristina Ghinea, Laura Carmen Apostol, Elena-Diana Comăniță, Mihaeala Roșca, Sebastian Ionuț Vasilica, Explorarea și exploatarea abilităților microorganismelor, plantelor și a interacțiunilor dintre acestea pentru bioremedierea mediului,* Editura Performantica, Iasi, ISBN 978-606-685-690-4, 2019. 4. Cozma, P.; **Bețianu, C**.; Hlihor, R.-M.; Simion, I.M.; Gavrilescu, M. *Bio-Recovery of Metals through Biomining within Circularity-Based Solutions.* Processes 2024, 12, 1793. https://doi.org/10.3390/pr12091793 5. **Camelia Smaranda**, *Raluca Maria Hlihor, Laura Carmen Apostol, Laura Bulgariu, Mariana Diaconu, Maria Emiliana Fortuna, Maria Gavrilescu, Cap. 2 din cartea Biosorption and bioaccumulation: Principles and potential applications in bioremediation, Editor Maria Gavrilescu,* Editura Politehnium, Iasi, 29-74, 2016 *6. Caliman Florentina Anca, Brindusa Mihaela Robu,* ***Smaranda Camelia****, Vasile Lucian Pavel, Maria Gavrilescu, Soil and groundwater cleanup: benefits and limits of emerging* technologies, Clean Technologies and Environmental Policy, 13 (2), 241–268, 2011.
6	SL.Camelia Betianu	Ecotoxicologie	1. Suport electronic curs si aplicații la disciplina *Ecotoxicologie*, 2026, **Camelia Bețianu**. 1. **Camelia Bețianu**, *Petronela Cozma, Maria Gavrilescu, Human health hazards and risks generated by the bioaccumulation of lead from the environment in the food chain, In: Lead Toxicity Mitigation: Sustainable Nexus Approaches, N. Kumar, A. Kumar Jha (Eds.),* Springer, 73-124, 2024. *2.* **Camelia Smaranda**, *Mihaela Rosca, Mariana Minut, Diana Elena Comanita-Ungureanu, Petronela Cozma, Cezar Catrinescu, Maria Gavrilescu, Studies on Physiological Response of Sinapis alba Plants to Organochlorinated Pesticide Toxicity, IEEE Xplore Publisher,* DOI: 10.1109/EHB50910.2020.9280260, 2020. 3. Ionela Cătălina Vasilachi, Dana-Mihaela Asiminicesei, Mariana Minut, Mihaela Rosca, Petronela Cozma, **Camelia Smaranda**, *Maria Gavrilescu, Human Risks Generated by the Bioaccumulation of Pollutants in Cereals and their Consumption, IEEE Xplore Publisher,* DOI: 10.1109/EHB50910.2020.9280208, 2020 4. Elena-Diana Ungureanu-Comanita, Ersilia Lazar Cosbuc, Petronela Cozma, **Camelia Smaranda**, *Maria Gavrilescu, Human health risks concerning food waste management, IEEE Xplore Publisher,* DOI: 10.1109/EHB50910.2020.9280256, 2020. 5. Mihaela Roșca, Petronela Cozma, Mariana Minuț, Dana Mihaela Asiminicesei, **Camelia Smaranda**, *Mariana Diaconu, Maria Gavrilescu, Ecological Risk Assessment of Nickel in Soil and the Effects on the Brassica napus Growth, IEEE IEEE Xplore Publisher,* DOI: 10.1109/EHB47216.2019.8970022, 2019. *6.* Ionela Cătălina Vasilachi, Dana-Mihaela Asiminicesei, Mariana Minut, Mihaela Rosca, Petronela Cozma, **Camelia Smaranda**, *Maria Gavrilescu, Human Risks Generated by the Bioaccumulation of Pollutants in Cereals and their Consumption, IEEE Xplore Publisher,* DOI: 10.1109/EHB50910.2020.9280208, 2020.

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7	Prof.univ.dr.ing. habil. Cezar-Florin Catrinescu	Cataliza in protecţia mediului	*1. C. Catrinescu, Procese catalitice de epurare a apelor uzate,* Editura Politehnium, 2008, Iasi (20 exemplare) *2. Ungureanu Adrian, Catrinescu Cezar-Florin, Cataliză și materiale catalitice,* Editura Ecozone Iași, ISBN 978-606-8625-41-6, 184 pg. (formt academic), 2024 *3. Note de curs, Advanced Water and Air Treatment Technologies, Catrinescu Cezar-Florin – disponibil la* https://groups.yahoo.com/neo/groups/awat-ficpm/files *4. C. Catrinescu, C., Chelba, A., Teodosiu, C., Apopei, P., Removal of diclofenac from secondary wastewater effluents by Fenton based processes, (2017), Environmental Engineering and Management* Journal, 16 (4), pp. 765-777 *5. Note de curs, Tehnologii avansate de depoluare - C. Catrinescu – disponibil pe platforma MSTeams* *6. Gavrilescu M. (coordonator), Diaconu M., Bulgariu L., Volf I., Catrinescu C., Smaranda C., Cozma P., Hlihor R.M., Ghinea C., Apostol L. C., Comăniță E.D., Roșca M., Vasilică S.I., 2019, Explorarea și exploatarea abilităților microorganismelor, plantelor și a interacțiunilor dintre acestea pentru bioremedierea mediului,* Editura Performantica, Iași, România, ISBN 978-606-685-490-4. *7. Apopei, P., Orha, C., Popescu, M.I., Lazau, C., Manea, F., Catrinescu, C., Teodosiu, C., Diclofenac removal from water by photocatalysis- assisted filtration using act*ivated carbon modified with N-doped TiO2, (2020), Process Safety and Environmental Protection, 138, pp. 324-336. *8. Arsene, D., Musteret, C.P., Catrinescu, C., Apopei, P., Barjoveanu, G., Teodosiu, C., Combined oxidation and ultrafiltration processes for the removal of priority organic pollutants from wastewaters, Environmental Engineering and Management* Journal, 2011, 10 (12), 1967-1976. *9. Apreutesei, R.E., Catrinescu, C., Ungureanu, A. Teodosiu,C., Removal of 4-chlorophenol by surfactant modified zeolites and surfactant modified alkali-treated natural zeolites, Environmental Engineering and Management* Journal, 2009, 8 (5), pp. 1053 – 1060. *10. M. Neamtu, C. Catrinescu, A. Yediler, M. Macoveanu, A. Kettrup, Catalytic wet Peroxide oxidation of Reactive Yellow 84 azo dye over heterogeneous catalysts, in Oxidation Technologies for Water and Wastewater Treatment – Special Topic: AOP's for Recycling and Reuse, Vogelpohl, A. (Ed.),* ISBN 3-89720-655-2, Clausthal: Papierflieger Verlag, 2003, Germany
8	Ș.l.dr.ing. M. Ursan	Elemente de inginerie mecanica și electrotehnică	Curs moodle *Electrotehnica si Electronica*
9	Prof. dr.ing. Biali Gabriela	GIS in ingineria mediului	1. **Biali** *G. (2013). Inițiere în GIS: Sisteme Informaţionale Geografice.* Editura Performantica, Iași, 237 p., ISBN 978-606-685-096-4.

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			2. **Biali** *G., Popovici N. (2003). Tehnici GIS în monitoringul degradării erozionale.* Editura «Gh. Asachi», Iași, 253 p., ISBN 973-621-043-X. 3. Popovici N., **Biali** *G. (2000). Sisteme Geoinformaţionale. Principii generale şi aplicaţii.* Editura «Gh. Asachi», Iași, 275 p., ISBN 973-8050-43-X.
11	S.l. dr.ing. Gavrilescu Daniela	Gândire critică și analiză de sistem în tehnologii sustenabile/	1. **Daniela Gavrilescu**, *(2021), Capitolul 19: Footprint asessment of solid waste managament, in cartea Assessing Progress towards Sustainability: Frameworks, tools and case studies, Editori Carmen teodosiu, Silvia Fiore, Almudena Hospido,* Editura Elsevier, ISBN 978-0-323-85851-9 2. Anisoara Enache Talpalaru, **Daniela Gavrilescu**, *Carmen Teodosiu, (2025), End of Life Management Sustainability of Waste Electrical and Electronic Equipment Generated in Romania, Sustainability, 17, 4105,* https://doi.org/10.3390/su17094105 3. Bogdan-Constantin Seto, **Daniela Gavrilescu**, *Carmen Teodosiu, (2025), Sustainability Assessment of Single-Use versus Reusable Beverage Packaging Waste: A Romanian Case Study, Environmental Engineering and Management* Journal, vol.24, no.3, 559-571. 4. **Daniela Gavrilescu**, *Bogdan-Constantin Seto, Carmen Teodosiu, (2023), Sustainability analysis of packaging waste management systems: A case study in the Romanian context,* Journal of Cleaner Production, 422, 138578. 5. **Daniela Gavrilescu**, *Anisoara Enache, Dumitrita Ibanescu, Carmen Teodosiu, Silvia Fiore, (2021), Sustainability assessment of waste electric and electronic equipment management systems: Development and validation of the SUSTWEEE methodology,* Journal of Cleaner Production, 306, 127214. *6. Barjoveanu G., Teodosiu C., Cailean (Gavrilescu D.), 2018. Life cycle assessment of the Romanian electricity mix: impacts, trends and challenges, 17 pages, Chapter 34 of the Book: Nearly Zero Energy Communities,* Springer Proceedings in Energy, Editors: I. Visa and A. Duta, published by Springer International Publishing AG 2018, DOI 10.1007/978-3-319-63215-5_34 7. **Daniela Gavrilescu**, *Brînduşa Mihaela Sluşer, Carmen Teodosiu, Cristina Mihaela Salcă Rotaru, (2022), Managementul deşeurile solide în comunităţile rurale. Abordare legislativă şi recomandări,* Editura Universităţii Transilvania din Braşov. 8. **Daniela Gavrilescu**, *Petru Apopei, George Bârjoveanu, Carmen Teodosiu, (2022), Capitolul 6. Managementul deşeurilor în comunităţile rurale. Ghid de bune practici, in cartea Educaţie pentru mediu în comunităţi rurale sustenabile. Ghid de utilizare a resurselor educaţionale deschise,* Editura Universităţii Transilvania din Braşov
12	S.l. dr. ing. Adrian Puițel	Materiale sustenabile /Sustainable materials	1. **Puițel** *A.C. (2026). Chimia biomasei vegetale. Hemiceluloze.* Editura EcoZone, Iași, 200 p., ISBN 978-606-8625-51-5. 2. **Puițel** *A.C., Tofănică B.M., Gavrilescu D.A. (2020). Fibrous raw materials from agricultural residues. În Pulp Production and Processing: High-Tech Applications, De Gruyter, cap.* 3. 3. Măluțan T., **Puițel** *A.C., Tofănică B.M., Custură A.E. (2017). Biorafinarea materialelor lignocelulozice. În Ambalaje din carton ondulat pentru produse alimentare,* Editura Politehnium, pp. 63–83.
13	Conf. dr.ing. Eugenia-Teodora Iacob -Tudose	Fenomene de transfer si operații unitare	**1.Iacob-Tudose E.T**.-Ingineria proceselor fizice avansate-Îndrumar de aplicații practice, EcoZone, Iași, 2024, ISBN 978-606-8625-44-7 2.Petrescu S., Mămăligă I., Horoba L., Moise A., **Iacob- Tudose E**.- Fenomene de transfer şi operaţii de difuziune, Editura Ecozone, Iași, 2011, p.505, ISBN 978-973-7645-78-4. 3.**E.T. Iacob Tudose**, Spinning disc reactor technology for environmental chemical processing: design and applications, In book: Currrent topics, concepts and research priorities in environmental chemistry (III) Chapter: 4, Publisher: „Alexandru Ioan Cuza" University Publishing House, Editors: Carmen Zaharia, Technical University "Gh.Asachi" of Iasi, 2014.

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			4.LD. Horoba, I. Mămăligă, **ET Iacob Tudose**, A.I. Moise, C. Lisă, M.T. Nechita-Fenomene de transfer și operații unitare – Îndrumar de proiectare , Editura Universității Tehnice "Gheorghe Asachi" din Iași, 2023, p.300, ISBN 978-973-621-532-2 **5.E.T. Iacob Tudose**-Intensificarea fenomenelor de transfer, suport de curs, https://classroom.google.com/w/ODIyNjU2OTgyNTUw/t/all
14	Conf.dr.ing. Gabriela Soreanu	Surse, procese și produse poluante	1. Cretescu I., **Soreanu** *G. (2013). Tehnologii de achizitie, monitorizare si diagnoza a calitatii factorilor de mediu. Ed. ECOZONE, Iasi, 227 p.,* ISBN 978-973-7645-92-0 (25 exemplare) 2. **Soreanu** *G. (2014). Prevenirea Poluarii si Protectia Mediului.* Editura Performantica, Iasi, 270p, ISBN 978-606-685-200-5 (25 exemplare) 3. Cretescu I., Isopescu D.N., Lutic D., **Soreanu** *G., Indoor Air Pollutants and the Future Perspectives for Living Space Design. Chapter 5, In: Indoor Environment and Health. Edited by Korhan O. InTech, London, UK, 11p, 2019,* ISBN 978-1-78984-374-3 4. **Soreanu** *G., Biotechnologies for improving indoor air quality, Chapter 12, in: Start-up Creation: The Smart Eco-efficient Built Environment. Edited by F. Pacheco-Torgal, E. Rasmussen, C.G. Granqvist, V. Ivanov, A. Kaklauskas and S. Makonin.* Elsevier, Woodhead Publishing, UK, 28p, 2016, ISBN 978-0-08-100546-0 5. **Soreanu** *G., Cretescu I., Diaconu M., Ignat M., Harabagiu V., Cojocaru C., Samoila P. Monitoring of CO2 uptake by microalgae in indoor environment. In* proceedings of GLOREP 2018-Global and Regional in Environmental Protection Conference, 15-17 November, Timisoara,Romania:255-259, 2018
15	Prof.dr.ing.Igor Cretescu	Surse de energie radiantă si aplicații de mediu	Noli, F., Fedorcea, V., Misaelides, P., **Cretescu, I**., Kapnisti, M. (2021). Cesium and barium removal from aqueous solutions in the presence of humic acid and competing cations by a Greek bentonite from Kimolos Island. ***Applied Radiation and Isotopes*** 170, 109600. Buckus R., Strukčinskienė B., Raistenskis J., Stukas R., Šidlauskienė A., Čerkauskienė R., Isopescu DN., Stabryla J., **Cretescu I.**, A technical approach to the evaluation of radiofrequency radiation emissions from mobile telephony base stations, ***Int J Environ Res Public Health***, 14(3), (doi: 10.3390/ijerph14030244.), 18p, 2017 Buckus R., Baltrenas P., Skeivalas J., Grubliauskas R., **Cretescu I.**, Mobile phones electromagnetic field radiation research and analysis of its dispersion by applying MATLAB7 software, ***Environmental Engineering and Management Journal***, 16(5), 1177-1184, 2017. Isopescu D.N., Sluser B. M., Noli F., Buckus R., **Cretescu I.**, Monitoring of Radioactivity Level in Autoclaved Aerated Concrete Produced in Romania and Risk Assessment, ***Environmental Engineering and Management Journal***,15 (4), 935-943, 2016. Buema G., Noli F., Misaelides P., Sutiman D.M., **Cretescu I**., Harja M., Uranium removal from aqueous solutions by raw and modified thermal power plant ash, ***Journal of Radioanalytical and Nuclear Chemistry***, 381-386, 299, 2014.
16	S.l. dr. ing. Daniela Fighir	Responsabilitate și impact social	**Fighir D**., Wang W., Ahmadi T., Sluser B., 2026, Status and perspectives of sustainability indicators applied in the water sector, Current Opinion in Environmental Sustainability, 81, 101647 Brîndușa Mihaela Slușer, **Daniela Fighir**, Corina Musteret, Carmen Teodosiu, 2022, Capitolul 5, Managementul mediului. Evaluarea impactului și a riscului de mediu. Exemple de bune practici, în Educație pentru mediu în comunități rurale sustenabile. Ghid de utilizare a resurselor educaționale deschise, ISBN 978-606-19-1524-8
17	S.l. dr. ing. Catalin-Dumitrel Balan	Resurse naturale	1.Balan, C. D. (2026). Managementul resurselor naturale. Suport electronic de curs, Universitatea Tehnică „Gheorghe Asachi" din Iași.

Nr. crt.	Cadru didactic	Disciplina	Resurse de studiu (format electronic sau tipărit, nr. de exemplare)
			2.Marcoie, N., Toma, I. O., Chihaia, Ș., Hrăniciuc, T. A., Toma, D., & Balan, C. D. (2025). Anthropogenic River Segmentation Case Study: Bahlui River from Romania. Hydrology, 12(9), 224. 3.Marcoie, N., Chihaia, Ș., Hrăniciuc, T. A., Balan, C. D., Drăgoi, E. N., & Nechita, M. T. (2024). Linking Nutrient Dynamics with Urbanization Degree and Flood Control Reservoirs on the Bahlui River. Water, 16(10), 1322.
18	Prof.dr.ing. Igor Cretescu	Bazele ingineriei mediului	**Cretescu I.**, Soreanu G. (2020). Optimizarea proceselor: aplicaţii in inginerie chimică şi protecţia mediului. Editura ECOZONE,Iasi, 215p. ISBN 978-606-8625-22-5. **Cretescu I.**, Kovács, Z. Cimpeanu S.M., Chapter 10: Monitoring of Surface Water Status in the Lower Danube Basin, River Basin Management, Edited by Daniel Bucur, ISBN 978-953-51-2604-1, InTech, 2016, 205-223. Avadanei, V., **Cretescu, I**., Procese membranare de separare, 145 pg., Ed. CERMI, Iasi, **2013**, ISBN 978-973-667-434-1
19	S.l. dr. ing. Daniela Fighir	Controlul poluării mediului	**Fighir, D.** et al. (2024). Removal of Diclofenac and Heavy Metal Ions from Aqueous Media Using Composite Sorbents in Dynamic Conditions. *Nanomaterials*, 14(1), 33. https://doi.org/10.3390/nano14010033 Morosanu, I., Paduraru, C., Bucatariu, F., **Fighir, D.,** Mihai, M., & Teodosiu, C. (2022). Shaping Polyelectrolyte Composites for Heavy Metals Adsorption from Wastewater: Experimental Assessment and Equilibrium Studies. *Journal of Environmental Management*, 321, 115999. https://doi.org/10.1016/j.jenvman.2022.115999. Bucatariu, F., Teodosiu, C., Morosanu, I., **Fighir, D.,** Ciobanu, R., Petrila, L. M., & Mihai, M. (2021). An Overview on Composite Sorbents Based on Polyelectrolytes Used in Advanced Wastewater Treatment. *Polymers*, 13(22), 3963. https://doi.org/10.3390/polym13223963.
20	Prof.dr.ing. Igor Crețescu	Tehnologii nucleare	Noli, F., Fedorcea, V., Misaelides, P., **Cretescu, I**., Kapnisti, M. (2021). Cesium and barium removal from aqueous solutions in the presence of humic acid and competing cations by a Greek bentonite from Kimolos Island. ***Applied Radiation and Isotopes*** 170, 109600. Buckus R., Strukčinskienė B., Raistenskis J., Stukas R., Šidlauskienė A., Čerkauskienė R., Isopescu DN., Stabryla J., **Cretescu I.**, A technical approach to the evaluation of radiofrequency radiation emissions from mobile telephony base stations, ***Int J Environ Res Public Health***, 14(3), (doi: 10.3390/ijerph14030244.), 18p, 2017 Buckus R., Baltrenas P., Skeivalas J., Grubliauskas R., **Cretescu I.**, Mobile phones electromagnetic field radiation research and analysis of its dispersion by applying MATLAB7 software, ***Environmental Engineering and Management Journal***, 16(5), 1177-1184, 2017. Isopescu D.N., Sluser B. M., Noli F., Buckus R., **Cretescu I.**, Monitoring of Radioactivity Level in Autoclaved Aerated Concrete Produced in Romania and Risk Assessment, ***Environmental Engineering and Management Journal***,15 (4), 935-943, 2016. Buema G., Noli F., Misaelides P., Sutiman D.M., **Cretescu I**., Harja M., Uranium removal from aqueous solutions by raw and modified thermal power plant ash, ***Journal of Radioanalytical and Nuclear Chemistry***, 381-386, 299, 2014.
21	Conf. Evagrina Dartu	Comunicare interculturala	Suport electronic la disciplina *Comunicare Interculturală*, 2025, **Evagrina Dartu**
22	Conf.dr.ing. Irina Cârlescu	Stimularea creativitatii	Suport electronic la disciplina *Stimularea creativitatii*. 2026, **Irina Cârlescu**

Anul 3

Nr. crt.	Cadru didactic	Disciplina	Resurse de studiu (format electronic sau tipărit, nr. de exemplare)
1	Conf. dr. ing. Barjoveanu/ S.l.dr.ing. Petronela Cozma	Eco-design	1. Suport curs electronic la disciplina ECODESIGN, 2026, George **Barjoveanu**. 2. George **Barjoveanu**, *Evaluarea ciclului de viata al produselor, 325 pag.,* Editura EcoZone Iași, ISBN 978-606-8625-26-3, 325 pagini, 2021. 3. **Barjoveanu** *G., Teodosiu C., Cailean (Gavrilescu D.), 2018, Life cycle assessment of the romanian electricity mix: impacts, trends and challenges, 17 pages, Chapter 34 of the Book: Nearly Zero Energy Communities,* Springer Proceedings in Energy, Editors: I. Visa and A. Duta, published by Springer International Publishing AG 2018, DOI 10.1007/978-3-319-63215-5_34 4. Dinita, F., **Barjoveanu**, *G., Teodosiu, C. (2025). An Environmental Life-Cycle Assessment of End-of-Life Vehicles Management in Romania. Sustainability, 17(8), 3691.* https://doi.org/10.3390/su17083691. 5. **Bârjoveanu** *G., Teodosiu C., Gîlcă A.F., Roman I., Fiore S., 2019. Environmental performance evaluation of a drinking water treatment plant: A life cycle assessment perspective, Environmental Engineering and Management* Journal, vol.18, no.2., p. 513-522 6. **Barjoveanu**, *G., Teodosiu, C., Morosanu, I., Ciobanu, R., Bucatariu, F., Mihai, M., Life Cycle Assessment as Support Tool for Development of Novel Polyelectrolyte Materials Used for Wastewater Treatment, (2023) Nanomaterials, 13 (5), art. no. 840, .* DOI: 10.3390/nano13050840 7. Todaro, F., **Barjoveanu**, *G., De Gisi, S., Teodosiu, C., Notarnicola, M. Sustainability assessment of reactive capping alternatives for the remediation of contaminated marine sediments, 2021,* Journal of Cleaner Production, 286, https://doi.org/10.1016/j.jclepro.2020.124946 *8. Cozma P., Ciomaga N.I, Hlihor R.-M., Roșca M., Minuț M., Smaranda C., Gavrilescu M., (2020), Identification and Valorization of Agri-Food By-Products: An Overview, The 8th IEEE International Conference on E-Health and Bioengineering - EHB 2020, pp.1-4,* doi: 10.1109/EHB50910.2020.9280290 *9. Gavrilescu M., Crețescu I., Măluțan T., Puițel A., Smaranda C., Cozma P., Hlihor R.-H., Ghinea C., Simion I.M., Comăniță, E.D., Roșca M., Câmpean T., (2018), Strategii și soluții pentru eco-inovarea unor procese și produse din materiale reciclabile în contextul economiei circulare. Ghid de bune practici,* Editura Politehnium, Iași, Romania, ISBN 978-973-621-481-3. *10. Fortună M.E., Simion I.M., Ghinea C., Petraru M., Cozma P., Apostol L.C., Hlihor R.-M.,Tudorache Fertu D., Gavrilescu M., (2012), Analysis and management of specific processes from environmental engineering and protection based on sustainability indicators, Environmental Engineering and Management* Journal, 11(2), 333-350 *11. Comăniță E.-D., Simion I.M., Cozma P., Hlihor R.M., Campean T., Gavrilescu M., (2017), Application of cost-benefit analysis for an eco-product manufactured from production waste, International* Proceedings of Chemical, Biological and Environmental Engineering, V0l. 101 91-98, (2017), DOI: 10.7763/IPCBEE. 2017. *12. Comăniță E.-D., Cozma P., Simion I.M., Roșca M., Gavrilescu M., (2018), Evaluation of eco-efficiency by multicriteria decision analysis. Case study of eco-innovated and eco-designed products from recyclable waste, Environmental Engineering and Management* Journal, 17, 1791-1804
2	S.l. dr. ing. Daniela Fighir	Proiectare sustenabilă de produs	1. Note de curs disciplina ”Indicatori de durabilitate si economie circulara”, Daniela **Fighir**, *format electronic, ppt, platforma MSTeams* 2. Bârjoveanu G., Teodosiu C., Mihai M., Morosanu I., **Fighir** *D., Vasiliu A-M., Bucatariu F., 2022, Life cycle assessment for eco-design in product development, Chapter of the Book: Assessing the sustainability progress: frameworks, tools and case studies, Editors: Teodosiu C., Fiore S., Hospido A. (*Elsevier contract no. 846739), published by Elsevier Netherlands, ISBN: 978-0-323-85851-9, pages: 247-271 (25 pagini, DOI: https://doi.org/10.1016/B978-0-323-85851-9.00012-2

Nr. crt.	Cadru didactic	Disciplina	Resurse de studiu (format electronic sau tipărit, nr. de exemplare)
			3. Brîndușa Mihaela Slușer, Daniela **Fighir**, *Corina Mustereț, Carmen Teodosiu, 2022, Capitolul 5, Managementul mediului. Evaluarea impactului și a riscului de mediu. Exemple de bune practici, Educație pentru mediu în comunități rurale sustenabile. Ghid de utilizare a resurselor educaționale deschise,* ISBN 978-606-19-1524-8 4. Note de curs la disciplina "Sustainability Indicators and Circular Economy", Daniela **Fighir**, *(format ppt, online pe MSTeams)* 5. Bârjoveanu G., Teodosiu C., Mihai M., Moroșanu I., **Fighir** *D., Vasiliu A-M., Bucatariu F. 2022. Life cycle assessment for eco-design in product development, Chapter of the Book: Assessing the sustainability progress: frameworks, tools and case studies, Editors: Teodosiu C., Fiore S., Hospido A. (*Elsevier contract no. 846739), published by Elsevier Netherlands, ISBN: 978-0-323-85851-9, pages: 247-271 (25 pagini, DOI: https://doi.org/10.1016/B978-0-323-85851-9.00012-2 6. Abalasei M.E., **Fighir** *D., Teodosiu C., 2025, Evolution of the Environmental Impact Assessment Process in Romania in the Context of Sustainable Development, Applied Sciences,15(7), 3777,* https://doi.org/10.3390/app15073777 7. Gabur G.D., Carmen T., **Fighir** *D., Cotea V., Gabur I., From Waste to Value in Circular Economy: Valorizing Grape Pomace Waste through Vermicomposting, 2024, Agriculture, Vol 14, 1529,* https://doi.org/10.3390/agriculture14091529 8. **Fighir** *(Arsene) D., Teodosiu C., Fiore S., 2019, Environmental and Energy Assessment of Municipal Wastewater Treatment Plants in Italy and Romania: A Comparative Study, Water 2019, 11(8), 1611;* https://doi.org/10.3390/w11081611
3	Conf.dr. Gabriela Soreanu	Procese de fabricație sustenabile	1. Cretescu I., **Soreanu** *G. (2013). Tehnologii de achizitie, monitorizare si diagnoza a calitatii factorilor de mediu. Ed. ECOZONE, Iasi, 227 p.,* ISBN 978-973-7645-92-0 (25 exemplare) 2. Cretescu I., **Soreanu** *G. (2013). Optimizarea Proceselor in Inginerie Chimica si Protectia Mediului. Ed. Ecozone, Iasi, 202p,* ISBN 978-973-7645-85-2 (25 exemplare) 3. **Soreanu** *G. (2014). Prevenirea Poluarii si Protectia Mediului.* Editura Performantica, Iasi, 270p, ISBN 978-606-685-200-5 (25 exemplare) 4. **Soreanu** *G., Cretescu I., Diaconu M., Ignat M., Harabagiu V., Cojocaru C., Samoila P. (2020). A model microalga for addressing air treatment in spacecrafts. Chapter 19, in: From Biofiltration to Promising Options in Gaseous Fluxes Biotreatment: Recent Developments, New Trends, Advances, and Opportunities. Eds. Soreanu G. and Dumont E.,* Elsevier, 21 p. ISBN 9780128190647. 5. Cretescu I., Isopescu D.N., Lutic D., **Soreanu** *G., Indoor Air Pollutants and the Future Perspectives for Living Space Design. Chapter 5, In: Indoor Environment and Health. Edited by Korhan O. InTech, London, UK, 11p, 2019,* ISBN 978-1-78984-374-3 6. **Soreanu** *G., Biotechnologies for improving indoor air quality, Chapter 12, in: Start-up Creation: The Smart Eco-efficient Built Environment. Edited by F. Pacheco-Torgal, E. Rasmussen, C.G. Granqvist, V. Ivanov, A. Kaklauskas and S. Makonin.* Elsevier, Woodhead Publishing, UK, 28p, 2016, ISBN 978-0-08-100546-0 7. Diaconu M., Volf I., Cretescu I., Juzsakova T., **Soreanu** *G., (2022). Carbon biocapture in the frame of climate change and air quality issues: a preliminary microbiota screening. Environmental Engineering and Management* Journal 21(2): 333-341 8. G. **Soreanu**, *I. Cretescu, E.N. Dragoi, D. Lutic, F. Leon (2022). Towards low-carbon emission biotrickling filtration of volatile organic compounds from air: an artificial neural network approach. In:* Proceedings of 22nd International Multidisciplinary Scientific GeoConference SGEM 2022, 02 - 11 July, 2022, Albena, Bulgaria, Vol22, Issue 4: 429-436. 10.5593/sgem2022/4.1/s19.55 9. **Soreanu** *G., Cretescu I., Diaconu M., Ignat M., Harabagiu V., Cojocaru C., Samoila P. Monitoring of CO2 uptake by microalgae in indoor environment. In* proceedings of GLOREP 2018-Global and Regional in Environmental Protection Conference, 15-17 November, Timisoara,Romania:255-259, 2018

Nr. crt.	Cadru didactic	Disciplina	Resurse de studiu (format electronic sau tipărit, nr. de exemplare)
4	S.l. dr. ing. Marilena-Adela Buburuzan	Analiza si sinteza proceselor tehnologice	1.Suport pentru disciplina *Analiza si sinteza proceselor tehnologice* – curs (bilanțuri de materiale) și laborator, online, platforma MS Teams, 2020 – prezent. **2.Buburuzan, A.M**., Macoveanu, M., Cojocaru, C., Catrinescu, C., Experimental design to optimise the removal efficiency of o-xylene from gaseous flux by adsorption, Journal of Environmental Protection and Ecology 11 (2), 623-634, 2010. **3.Buburuzan A.M.,** Catrinescu C., Macoveanu M., (2010), Comparative study of the adsorption-desorption cycles of hexane over hypercrosslinked polymeric adsorbents and activated carbon, Environmental Engineering and Mangement Journal, 9 (1), 125-132, (FI = 1.435 (2010).
5	S.l. dr. biol. Camelia Betianu	Prevenirea şi controlul integrat al poluării	1. Suport curs la disciplina ***Prevenirea si controlul integrat al poluarii***, format electronic (2024). 2. **Camelia Bețianu**, Petronela Cozma, Maria Gavrilescu, *Human health hazards and risks generated by the bioaccumulation of lead from the environment in the food chain, In: Lead Toxicity Mitigation: Sustainable Nexus Approaches, N. Kumar, A. Kumar Jha (Eds.),* Springer, 73-124, 2024. 3. *2.*Maria Gavrilescu, Igor Crețescu, Teodor Măluțan, Adrian Puițel, **Camelia Smaranda**, Petronela Cozma, Raluca-Maria Hlihor, Cristina Ghinea, Isabela-Maria Simion, Diana-Elena Comăniță, Mihaela Roșca, Teofil Câmpean*, Strategii și soluții pentru eco-inovarea unor procese și produse din materiale reciclabile în contextul economiei circulare. Ghid de bune practici,* Editura Politehnium, ISBN 978-973-621-481-3, 2018. 4. **Camelia Smaranda**, Maria Gavrilescu, *Behaviour of organic contaminants in soil environment.* In: *Current topics, concepts and research priorities in environmental chemistry*, Editor Carmen Zaharia, Vol. III, Editura Universitatii Alexandru Ioan Cuza din Iasi, ISBN 978-973-703-797-8, vol. III: ISBN 978-606-714-062-0, pp. 83-111, 2014. 5. **Beţianu Camelia**, Maria Gavrilescu, Migration and fate of persistent organic pollutants in the atmosphere – a modelling approach, Environmental Engineering and Management Journal, 7(6), 743-762, 2008. 6. *Caliman Florentina Anca, Brindusa Mihaela Robu, Smaranda Camelia, Vasile Lucian Pavel, Maria Gavrilescu, Soil and groundwater cleanup: benefits and limits of emerging* technologies, Clean Technologies and Environmental Policy, 13 (2), 241–268, 2011. 7. Florentina Anca Căliman, Brîndușa Mihaela Robu, **Camelia Smaranda**, *Vasile Lucian Pavel, Maria Gavrilescu (Editor), Persistent Pollutants in the Environment. IV. Identification, Integrated Assessment and Management of Risks Associated with Impacts Induced in the Environment by Persistent Pollutants,* Editura Politehnium, Iasi, 2009, ISBN 978-973-621-280-2, vol. IV: ISBN 978-973-621-284-0. 8. Florentina Anca Căliman, Brîndușa Mihaela Robu, **Camelia Smaranda**, Vasile Lucian Pavel, Maria Gavrilescu (Editor), *Persistent Pollutants in the Environment. II. Persistant Organic Pollutants and Dyes,* Editura Politehnium, Iasi, 2009, ISBN 978-973-621-280-2, vol. II: ISBN 978-973-621-282-6.
6	Conf. dr. ing. Liviu Prună	Instrumente digitale pentru ecodesign/ Digital tools for ecodesign (CAD)	1. Prună, L., Anghel, A. A., Dănăilă V. L., Slonovschi, A., Bazele desenului tehnic industrial, Ed. Performantica, 2022, Iaşi, ISBN 978-606-685-913-4 2. Dănăilă, V. L., Anghel, A., Antonescu, I., Prună, L., Romanescu, C., Slonovschi, A. – Infografică. Aplicaţii în desenul tehnic industrial, Ed. PIM, Iaşi, 2008, ISBN 978-973-716-945-7 3. Slonovschi, A., Anghel, A., Antonescu, I., Dănăilă, V. L., Prună, L., Romanescu, C. - Infografică. Îndrumar de laborator, Ed. PIM, Iaşi, 2007, ISBN 978-973-716-718-7
7	Prof.dr.ing. Carmen Zaharia	Standarde si reglementări pentru sustenabilitate	1. **Zaharia** *C., Politici și instrumente legislative în domeniul deșeurilor – note de curs și aplicații, Ed. Performantica, Iaşi, 2018, total 228 pg., din care curs - 78 pagini,* ISBN 978-606-685-630-0 2. **Zaharia** *C., Energia si mediul, Ed. Ecozone, Iasi, 2006 / Ed. Univ.Al.I.Cuza, Iasi, 2004; fond de carte biblioteca CH-UTIasi: 3 + 3 exemplare*

Nr. crt.	Cadru didactic	Disciplina	Resurse de studiu (format electronic sau tipărit, nr. de exemplare)
			3. **Zaharia** *C., Protecţia juridică a mediului, Ed. Ecozone, Iasi, 2008,* ISBN 978-973-764-554-8 4. **Zaharia** *C., Legislatia privind protectia mediului, Ed. Politehnium, Iasi, 2008,* ISBN 978-973-621-219-2
8	S.l. dr. ing. Petronela Cozma / S.l. dr. ing. Corina Petronela Musteret	Proiect integrator 1 (utilaj) -2 (tehnologii de tratare ape)	*1. Suport de prezentare ppt a cursului Procese unitare și utilaje în tratarea deșeurilor, autori: Cozma P., (2022-2025), (format electronic), Online pe MSTeams:* https://teams.microsoft.com/l/team/19%3a65-mh9g32z5LYfyLq04If7xZUOEBB5KYW1rQ8JoUHss1%40thread.tacv2/conversations?groupId=11a68c43-706c-410b-8e1b-60fe0a2f6f2b&tenantId=607d63ca-9f36-4ad8-9f71-8b3efc392eb1 *2. Cozma P., Bețianu C., Hlihor R.-M., Simion I.M., Gavrilescu M., (2024), Bio-recovery of metals through biomining within circularity-based solutions, Processes, 12, 1793,* https://doi.org/10.3390/pr12091793. *3. Ghiga S.C., Simion I.M., Filote C., Roșca M., Hlihor R.-M., Cozma P., Gavrilescu M., (2023), Sources, composition and management strategies of waste electrical and electronic equipment: A review, Environmental Engineering and Management* Journal, Vol. 22, No. 3, 509-526, http://doi.org/10.30638/eemj.2023.040 *4. Ghinea C., Cozma P., Gavrilescu M., (2021), Artificial neural network applied in forecasting the composition of municipal solid waste in Iasi, Romania,* Journal of Environmental Engineering and Landscape Management, 29, 368-380, DOI: 10.3846/jeelm.2021.15553 5. Sluser B.M., Fighir D., **Mustereț** *C., Teodosiu C., 2022, Managementul mediului. Evaluarea impactului și a riscului de mediu. Exemple de bune practici, Capitolul 5 al cartii Educație pentru mediu in comunități rurale sustenabile. Ghid de utilizare a resurselor educaționale deschise,* Editura Universitatii Transilvania din Brasov, Editori: Draghici C., Sluser B.M., Simion C.P., pag.101-133, ISBN 978-606-19-1524-8 6. **Mustereț** *C.P., Fighir D., Gavrilescu D., Zaharia C., Teodosiu C., Tratarea și epurarea apelor: Aplicații practice,* Editura Politehnium, 2014, ISBN 978-973-621-442-4, 250 pagini 7. **Musteret** *C.P., Morosanu I., Ciobanu R., Plavan O., Gherghel A., Al-Refai M., Roman I., Teodosiu C., 2021, Assessment of Coagulation-Flocculation Process Efficiency for the Natural Organic Matter Removal in Drinking Water Treatment, WATER, volume 13, Issue 21, Article Number 3073,* DOI10.3390/w13213073 8. Gîlcă A.F., Teodosiu C., Fiore S., **Musteret** *C.P., (2020), Emerging disinfection byproducts: A review on their occurrence and control in drinking water treatment processes, Chemosphere, vol. 259, 127476, p. 1-17.* 9. **Musteret** *C.P., Teodosiu C., 2017, Experimental Assesment of Nanofiltration for the Removal of Chlorophenols from Aqueous Effluents. Environmental Engineering and Management* Journal, vol.16, no.4., p.793- 800. 10. Arsene D., Teodosiu C., Barjoveanu G., Apreutesei R.E., Apopei P., **Musteret** *C.P., Cailean D.,(2013), Combined Catalytic Oxidation and Adsorption of Priority Organic Pollutants for Wastewater Recycling, Environmental Engineering and Management* Journal, vol.12, no.5., p.907-916.
9	S.l. dr. ing. Marilena -Adela Buburuzan	Tehnologii sustenabile pentru protecția atmosferei	1. Materiale suport Tehnologii sustenabile pentru protectia atmosferei – materiale suport pentru curs și seminar, **Buburuzan** *A.M., online, platforma MS Teams, 2020 – 2024.* 2. Note de curs la disciplina Tehnologii sustenabile pentru protectia atmosferei (format electronic), **Buburuzan** A.M.
10	S.l. dr. ing. Marilena -Adela Buburuzan	Tehnologii sustenabile pentru protecția	1. Materiale suport Tehnologii sustenabile pentru protectia atmosferei – materiale suport pentru curs și seminar, **Buburuzan** *A.M., online, platforma MS Teams, 2020 – 2024.* 2. Note de curs la disciplina Tehnologii sustenabile pentru protectia atmosferei (format electronic), **Buburuzan** A.M.

Nr. crt.	Cadru didactic	Disciplina	Resurse de studiu (format electronic sau tipărit, nr. de exemplare)
		atmosferei, proiect	
11	Conf.dr.ing. George Barjoveanu	Modelare si simulare în ingineria mediului/ Modelling and simulation in environmental engineering	Note de curs la disciplina Modelarea si simularea proceselor in ingineria mediului /personal/george_barjoveanu_academic_tuiasi_ro/EiM6G95FSQhPtX1efUrX5qgBgFsgGyx83kYu5wTJKESDUA?e=8rxqNh
12	S.l. dr. ing. Petronela Cozma	Ingineria proceselor chimice si biologice	*1. Suport de prezentare ppt a cursului Procese unitare și utilaje în tratarea deșeurilor, autori: Cozma P., (2022-2025), (format electronic), Online pe MSTeams:* https://teams.microsoft.com/l/team/19%3a65-mh9g32z5LYfyLq04If7xZUOEBB5KYW1rQ8JoUHss1%40thread.tacv2/conversations?groupId=11a68c43-706c-410b-8e1b-60fe0a2f6f2b&tenantId=607d63ca-9f36-4ad8-9f71-8b3efc392eb1 *2. Cozma P., Bețianu C., Hlihor R.-M., Simion I.M., Gavrilescu M., (2024), Bio-recovery of metals through biomining within circularity-based solutions, Processes, 12, 1793,* https://doi.org/10.3390/pr12091793. *6. Suport lucrări proiect Producție Industrială durabilă, program master MM, (format electronic), autori: Cozma P., (2016-2025), Online pe MSTeams:* https://teams.microsoft.com/l/team/19%3aM9THVBV_oAESpF5ppYGpoLfeuYjFHv-45RE_sjXejGA1%40thread.tacv2/conversations?groupId=39fe6bac-b085-4d8d-a7b1-991361b04b8d&tenantId=607d63ca-9f36-4ad8-9f71-8b3efc392eb1
13	Prof.dr.ing. Carmen Zaharia / S.l. dr. ing. Corina Petronela Musteret	Tehnologii de tratare și epurare a apelor /Water treatment technologies	Zaharia C., Innovative wastewater treatment technologies: opportunities, perspectives and challenges, 288 pag., Ed. Ecozone, Iasi, ISBN 978-606-8625-39-3, 2023 **Mustereț** C.P., Fighir D., Gavrilescu D., **Zaharia** *C., Teodosiu C., Tratarea și epurarea apelor: Aplicații practice,* Editura Politehnium, 2014, ISBN 978-973-621-442-4, 250 pagini Zaharia, C.; Musteret, C.-P.; Afrasinei, M.-A., 2024, The Use of Coagulation–Flocculation for Industrial Colored Wastewater Treatment—(I) The Application of Hybrid Materials. Appl. Sci. 2024, 14, 2184. https://doi.org/10.3390/ app14052184 (IF=2,5, ISI Web of Science) **Musteret** *C.P., Morosanu I., Ciobanu R., Plavan O., Gherghel A., Al-Refai M., Roman I., Teodosiu C., 2021, Assessment of Coagulation-Flocculation Process Efficiency for the Natural Organic Matter Removal in Drinking Water Treatment, WATER, volume 13, Issue 21, Article Number 3073,* DOI10.3390/w13213073 4. Gîlcă A.F., Teodosiu C., Fiore S., **Musteret** *C.P., (2020), Emerging disinfection byproducts: A review on their occurrence and control in drinking water treatment processes, Chemosphere, vol. 259, 127476, p. 1-17.* 5. **Musteret** *C.P., Teodosiu C., 2017, Experimental Assesment of Nanofiltration for the Removal of Chlorophenols from Aqueous Effluents. Environmental Engineering and Management* Journal, vol.16, no.4., p.793- 800. 6. Arsene D., Teodosiu C., Barjoveanu G., Apreutesei R.E., Apopei P., **Musteret** *C.P., Cailean D.,(2013), Combined Catalytic Oxidation and Adsorption of Priority Organic Pollutants for Wastewater Recycling, Environmental Engineering and Management* Journal, vol.12, no.5., p.907-916. 7. Musteret C.P., Teodosiu C*., 2017, Experimental Assesment of Nanofiltration for the Removal of Chlorophenols from Aqueous Effluents. Environmental Engineering and Management Journal, vol.16, no.4., p.793- 800 (I.F=1.334, ISI Web of Science)

Nr. crt.	Cadru didactic	Disciplina	Resurse de studiu (format electronic sau tipărit, nr. de exemplare)
14	S.l. dr. ing. Corina Musteret	Practica	1. **Mustereț** *C.P., Fighir D., Gavrilescu D., Zaharia C., Teodosiu C., Tratarea și epurarea apelor: Aplicații practice,* Editura Politehnium, 2014, ISBN 978-973-621-442-4, 250 pagini 2. **Musteret** *C.P., Morosanu I., Ciobanu R., Plavan O., Gherghel A., Al-Refai M., Roman I., Teodosiu C., 2021, Assessment of Coagulation-Flocculation Process Efficiency for the Natural Organic Matter Removal in Drinking Water Treatment, WATER, volume 13, Issue 21, Article Number 3073,* DOI10.3390/w13213073 3. Gîlcă A.F., Teodosiu C., Fiore S., **Musteret** *C.P., (2020), Emerging disinfection byproducts: A review on their occurrence and control in drinking water treatment processes, Chemosphere, vol. 259, 127476, p. 1-17.* 4. **Musteret** *C.P., Teodosiu C., 2017, Experimental Assesment of Nanofiltration for the Removal of Chlorophenols from Aqueous Effluents. Environmental Engineering and Management* Journal, vol.16, no.4., p.793- 800. 5. Arsene D., Teodosiu C., Barjoveanu G., Apreutesei R.E., Apopei P., **Musteret** *C.P., Cailean D.,(2013), Combined Catalytic Oxidation and Adsorption of Priority Organic Pollutants for Wastewater Recycling, Environmental Engineering and Management* Journal, vol.12, no.5., p.907-916.
15	S.l. dr. ing. Catalin Balan	Eco-inovare și antreprenoriat verde	1. Puițel, A. C., Bălușescu, G**., Balan, C. D**., & Nechita, M. T. (2024). The Potential Valorization of Corn Stalks by Alkaline Sequential Fractionation to Obtain Papermaking Fibers, Hemicelluloses, and Lignin—A Comprehensive Mass Balance Approach. Polymers, 16(11), 1542. 2. Puițel A.C., Bârjoveanu G., Balan C.D., Nechita M.T., Medicago sativa Stems—A Multi-Output Integrated Biorefinery Approach, Polymers, 17(12), 1709, 2025.
16	Prof.dr. ing. Teodor Malutan	Chimie verde	1. Gavrilescu M. (coord.), Crețescu I., **Măluțan** *T. ș.a. (2018). Strategii și soluții pentru eco-inovarea și eco-proiectarea unor procese și produse din materiale reciclabile în contextul economiei circulare. Ghid de bune practici.* Editura Politehnium, 386 p., ISBN 978-973-621-481-3. 2. Fusteș-Dămoc I., **Măluțan** *T., Mija A. (2023). Chitosan as a Polyfunctional Crosslinker for a Renewable-Based Resorcinol Diglycidyl Ether. ACS Sustainable Chemistry & Engineering, 11(19), 7605–7616*.
17	S.l. dr. ing. Daniela Gavrilescu	Fiabilitatea sistemelor industriale	1. Daniela Gavrilescu, (2021), Capitolul 19: Footprint asessment of solid waste managament in cartea Assessing Progress towards Sustainability: Frameworks, tools and case studies, Editori Carmen teodosiu, Silvia Fiore, Almudena Hospido, Editura Elsevier, ISBN 978-0-323-85851-9 2. Madalina Maria Enache, Daniela Gavrilescu, Carmen Teodosiu, (2025), Comparative Analysis of Plastic Waste Management Options Sustainability Profiles, Polymers, 17(15), 2117, 1-19. 3. Madalina Maria Enache, Daniela Gavrilescu, Carmen Teodosiu, (2025), Comparative Analysis of Plastic Waste Management Options Sustainability Profiles, Polymers, 17(15), 2117, 1-19 4. Anisoara Enache Talpalaru, Daniela Gavrilescu, Carmen Teodosiu, (2025), End of Life Management Sustainability of Waste Electrical and Electronic Equipment Generated in Romania, Sustainability, 17, 4105, 1-26
18	Prof.univ.dr.ing. habil Brindusa-Mihaela Sluser	Educatie antreprenoriala	*1. Profiluri de interese vocaţionale favorabile integrării profesionale ale absolvenţilor de ingineria mediului, Carmen-Cătălina Ioan, Ileana Maria Carcea, Brînduşa Mihae*la Sluşer, Bulletin of Polytechnic Institute from Iasi, section Socio-sciences, 2019, Volumul 65 (69), 1-2, p.41-57
19	S.l. dr. ing. Catalin-Dumitrel Balan	Sisteme sustenabile de productie	1.**Balan, C. D.** (2026). Sisteme sustenabile de producție. Suport electronic de curs, Universitatea Tehnică „Gheorghe Asachi” din Iași. (De inclus dacă suportul este elaborat.)

Nr. crt.	Cadru didactic	Disciplina	Resurse de studiu (format electronic sau tipărit, nr. de exemplare)
			2. Puițel, A. C., Bălușescu, G**., Balan, C. D.,** & Nechita, M. T. (2024). The Potential Valorization of Corn Stalks by Alkaline Sequential Fractionation to Obtain Papermaking Fibers, Hemicelluloses, and Lignin—A Comprehensive Mass Balance Approach. Polymers, 16(11), 1542.
20	Prof.univ. habil. dr.ing. Irina Volf	Biomateriale	**Volf, I.,** 2011**,** *Products and Energy from Renewable Sources*, Ecozone, Iaşi, ISBN 978-973-7645-84-5 **Volf I.,** Popa V.I., 2018, *Integrated processing of biomass resources for fine chemicals obtaining: Polyphenols*, in Biomass as Renewable Raw Material to Obtain Bio Products of High-Tech Value, Valentin I. Popa and Irina Volf Editors, Elsevier, ISBN 978-0-444-63774-1. Popa V.I., **Volf I.,** 2018, *Biomass as Renewable Raw Material to Obtain Bio Products of High-Tech Value,* Elsevier, ISBN 978-0-444-63774-1 **Volf I.,** Bejenari I., Popa V.I, 2020, *Valuable biobased products through hydrothermal decomposition, in Pulp Producing and Processing. High-tech applications*, V.I. Popa Ed., De Gruyter, Berlin, Boston, 141-163, ISBN 978-3-11-065883-5. **Volf I.,** Balan C., 2016, Lucrări de laborator şi aplicaţii de biotehnologie şi bioremediere, Ed. Performantica, Iasi, ISBN 978-606-685-479-5.
21	S.l. dr. ing. Daniela Fighir	Educatie antreprenorială	Daniela Fighir, Management organizational si performanta ecologica, material suport curs si aplicatii, 2026.

Anul 4

Nr. crt.	Cadru didactic	Disciplina	Resurse de studiu (format electronic sau tipărit, nr. de exemplare)
1	Prof.dr.ing. habil Cezar-Florin Catrinescu	Tehnologii avansate de tratare și epurare a apelor	*1. C. Catrinescu, Procese catalitice de epurare a apelor uzate,* Editura Politehnium, 2008, Iasi (20 exemplare) *2. Ungureanu Adrian, Catrinescu Cezar-Florin, Cataliză și materiale catalitice,* Editura Ecozone Iași, ISBN 978-606-8625-41-6, 184 pg. (formt academic), 2024 *3. Note de curs, Advanced Water and Air Treatment Technologies, Catrinescu Cezar-Florin – disponibil la* https://groups.yahoo.com/neo/groups/awat-ficpm/files *4. C. Catrinescu, C., Chelba, A., Teodosiu, C., Apopei, P., Removal of diclofenac from secondary wastewater effluents by Fenton based processes, (2017), Environmental Engineering and Management* Journal, 16 (4), pp. 765-777 *5. Note de curs, Tehnologii avansate de depoluare - C. Catrinescu – disponibil pe platforma MSTeams* *6. Gavrilescu M. (coordonator), Diaconu M., Bulgariu L., Volf I., Catrinescu C., Smaranda C., Cozma P., Hlihor R.M., Ghinea C., Apostol L. C., Comăniță E.D., Roșca M., Vasilică S.I., 2019, Explorarea și exploatarea abilităților microorganismelor, plantelor și a interacțiunilor dintre acestea pentru bioremedierea mediului,* Editura Performantica, Iași, România, ISBN 978-606-685-490-4. *7. Apopei, P., Orha, C., Popescu, M.I., Lazau, C., Manea, F., Catrinescu, C., Teodosiu, C., Diclofenac removal from water by photocatalysis- assisted filtration using act*ivated carbon modified with N-doped TiO2, (2020), Process Safety and Environmental Protection, 138, pp. 324-336. *8. Arsene, D., Musteret, C.P., Catrinescu, C., Apopei, P., Barjoveanu, G., Teodosiu, C., Combined oxidation and ultrafiltration processes for the removal of priority organic pollutants from wastewaters, Environmental Engineering and Management* Journal, 2011, 10 (12), 1967-1976.

Nr. crt.	Cadru didactic	Disciplina	Resurse de studiu (format electronic sau tipărit, nr. de exemplare)
			9. Apreutesei, R.E., Catrinescu, C., Ungureanu, A. Teodosiu,C., Removal of 4-chlorophenol by surfactant modified zeolites and surfactant modified alkali-treated natural zeolites, Environmental Engineering and Management Journal, 2009, 8 (5), pp. 1053 – 1060. *10. M. Neamtu, C. Catrinescu, A. Yediler, M. Macoveanu, A. Kettrup, Catalytic wet Peroxide oxidation of Reactive Yellow 84 azo dye over heterogeneous catalysts, in Oxidation Technologies for Water and Wastewater Treatment – Special Topic: AOP's for Recycling and Reuse, Vogelpohl, A. (Ed.),* ISBN 3-89720-655-2, Clausthal: Papierflieger Verlag, 2003, Germany
2	Conf.dr.ing. Paula Cojocaru	Tehnologii sustenabile de remediere a solului	1. **Cojocaru** *P. (2024). Tehnologia depoluării solurilor prin fitoremediere.* Editura Performantica, Iași, 140 p., ISBN 978-630-328-098- 2. **Cojocaru** *P., Gusiatin Z.M., Crețescu I. Phytoextraction of Cd and Zn as single or mixed pollutants from soil by rape (Brassica napus). Environmental Science and Pollution Research*. 3. **Cojocaru** *P., Cotiușcă Zăuca D., Biali G. Decontamination of soils polluted with mineral oils by bioremediation. Environmental Engineering and Management* Journal, 15(6).
3	Prof.univ.dr.ing. habil. Irina Volf	Biotehnologii în ingineria mediului	1. **Volf**, *I., 2011, Produse şi energie din resurse regenerabile, (234 p)* Editura Ecozone, Iași, ISBN 978-973-7645-84-5, 10 ex. 2. Popa V.I., **Volf** *I., 2018, Biomass as Renewable Raw Material to Obtain Bio Products of High-Tech Value,* Elsevier, ISBN 978-0-444-63774-1, 2 ex. 3. **Volf** I., Popa V.I., 2018, Integrated processing of biomass resources for fine chemicals obtaining: Polyphenols, in Biomass as Renewable Raw Material to Obtain Bio Products of High-Tech Value, Valentin I. Popa and Irina **Volf** *Editors,* Elsevier, ISBN 978-0-444-63774-1, 2 ex. 4. **Volf**, I., Produse şi energie din resurse regenerabile, suport didactic multimedia şi on-line, curs program de master Managementul Mediului, http://www.ch.tuiasi.ro/cv/imm/**volf**irina. 5. **Volf** *I., Bejenari I.,Popa V.I, 2020, Valuable biobased products through hydrothermal decomposition, in Pulp Producing and Processing. High-tech applications, V.I. Popa Ed., De Gruyter, Berlin, Boston, 141-163,* ISBN 978-3-11-065883-5 6. Armanu G.E., Bertoldi S., Schmidt M., Heipieper H.J., **Volf** *I., Eberlein C., 2025, Hydrochar from Agricultural Waste as a Biobased Support Matrix Enhances the Bacterial Degradation of Diethyl Phthalate, Molecules, 30, 1167,* https://doi.org/10.3390/molecules30051167. 7. Armanu G.E., Secula M.S., Tofanica B.M., **Volf** *I., 2024, The Impact of Biomass Composition Variability on the Char Features and Yields Resulted through Thermochemical Processes, Polymers, 16, 2334.* https://doi.org/10.3390/polym16162334 8. Hristea G., Iordoc M., Lungulescu E.-M., Bejenari I., **Volf** *I., 2024, A sustainable bio-based char as emerging electrode material for energy storage applications, Scientific Reports, 14(1), 1095.* https://doi.org/10.1038/s41598-024-51350-x 9. Dinu R., Bejenari I., **Volf** *I., Mija A., 2024, Exploring strategies for valorising wood processing waste: advancing sustainable, fully lignocellulosic bio composites, International* Journal of Biological Macromolecules, 280, 135948. https://doi.org/10.1016/j.ijbiomac.2024.135948 10. Dinu R., Bejenari I., **Volf** *I., Mija A., 2024, Towards Sustainable and Recyclable Plastic Materials: Vanilin-Based Epoxy Bio-composites with Spruce Bark Powder and Hydrochar, Pioneering Green Chemistry Solutions for Shape Memory Applications, Industrial Crops & Products 221, 119363,* https://doi.org/10.1016/j.indcrop.2024.119363.
4	Prof.univ.dr.ing. habil. Brindusa-Mihaela Sluser	Evaluarea impactului asupra mediului	1. Evaluari de mediu pentru dezvoltare durabila, autori **Brindusa Robu** (**Sluşer***), Matei Macoveanu,* Editura EcoZone, Iasi, 2010, ISBN 978-973-7645-69-2, pg 266. 2. Evaluari de mediu pentru dezvoltare durabila, Brindusa **Sluser**, *note de curs, format electronic, ppt, MSTeams.*

Nr. crt.	Cadru didactic	Disciplina	Resurse de studiu (format electronic sau tipărit, nr. de exemplare)
			3. Educație pentru mediu in comunități rurale sustenabile. Ghid de utilizare a resurselor educaționale deschise, editori Camelia Drăghici, Brîndușa Mihaela **Slușer**, *Cezar Petre Simion,* editura Universităţii "Transilvania", Brasov, ISBN 978606-19-1524-8, 235p, 2022. 4. Evaluarea impactului şi a riscului induse asupra mediului de activităţi industriale, **Brîndușa Robu**, *Editura Ecozone, Iaşi, 2005,* ISBN 973-7645-00-6, pg. 221 5. Environmental impact and risk assessment: procedures and evaluation tools (chapter), **Sluser** *B., Teodosiu C., in book Environment as risk and emergency, coord. Philippe Burny, Calin Baciu, Camelia Botezan, Dacinia Petrescu, Grigore Vlad,* editura Valea Verde, ISBN 978-606-8834-42-9, 2021. 6. Air quality integrated assessment: environmental impacts, risks and human health hazards, I.M.Tanasa, M.M. Cazacu, B.M.**Sluser**, *special issue Exposure to Environmental Pollutants and Effects on Human Health, Appl. Sci. 2023, 13(2), 1222;* https://doi.org/10.3390/app13021222. 7. Evaluari de mediu. Aplicatii, autor **Brindusa Robu** (**Sluser***), Ed. EcoZone, Iasi,* ISBN 978-973-7645-98-2, 2012 8. Environmentaltal Impact and risk assessment (chapter), **Sluser** *B, Plavan O, Teodosiu C., in book Assessing Progress toward Sustainability (eds. Teodosiu C, Hospido A., Fiore S),* Elsevier Ed., 2022. 9. Environmental impact and risk assessment: procedures and evaluation tools (chapter), **Sluser** *B., Teodosiu C., in book : Environment as risk and emergency, coord. Philippe Burny, Calin Baciu, Camelia Botezan, Dacinia Petrescu, Grigore Vlad,* editura Valea Verde, ISBN 978-606-8834-42-9, 2021 10. Integrated approach on assessment, treatment and management of environmental pollution, Brindusa **Sluser**, *Ed.EcoZone,* ISBN 978-606-8625-38-6, 390p, 2023. 11. Environmental monitoring and impact assessment of Prut river cross-border pollution, Neamtu R., **Sluser** *B., Plavan O, Teodosiu C., Environmental Monitoring and Assessment* Journal, (2021), DOI: 10.1007/s10661-021-09110-1 (ISI, IF= 2.802). 12. Environmental impact and risk assessment of the main pollution sources from the Romanian Black Sea Coast, **Brindusa Robu**, *Oana Jitar, Carmen Teodosiu, Stefan-Adrian Strungaru, Mircea Nicoara, Gabriel Plavan, Environmental Engineering and Management* Journal, (2015), 14(2), 331-340 13. Evaluari de mediu pentru dezvoltare durabila, Brindusa **Sluser**, *note de curs, format electronic, ppt, MSTeams.* 14. Note de curs - Evaluarea impactului deșeurilor asupra mediului - Brîndușa **Sluser**, *Online pe MSTeams.*
5	S.l. dr. ing. Daniela Gavrilescu	Tehnologii de inchidere a ciclului de viata	1. **Daniela Gavrilescu**, *Materiale suport Solid waste management, in sistem e-learning* https://learning.tuiasi.ro/ 2. **Daniela Gavrilescu**, *(2021), Capitolul 19: Footprint asessment of solid waste managament, in cartea Assessing Progress towards Sustainability: Frameworks, tools and case studies, Editori Carmen teodosiu, Silvia Fiore, Almudena Hospido,* Editura Elsevier, ISBN 978-0-323-85851-9 3. Anisoara Enache Talpalaru, **Daniela Gavrilescu**, *Carmen Teodosiu, (2025), End of Life Management Sustainability of Waste Electrical and Electronic Equipment Generated in Romania, Sustainability, 17, 4105,* https://doi.org/10.3390/su17094105 4. Bogdan-Constantin Seto, **Daniela Gavrilescu**, *Carmen Teodosiu, (2025), Sustainability Assessment of Single-Use versus Reusable Beverage Packaging Waste: A Romanian Case Study, Environmental Engineering and Management* Journal, vol.24, no.3, 559-571. 5. **Daniela Gavrilescu**, *Bogdan-Constantin Seto, Carmen Teodosiu, (2023), Sustainability analysis of packaging waste management systems: A case study in the Romanian context,* Journal of Cleaner Production, 422, 138578.

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			6. **Daniela Gavrilescu**, *George Bârjoveanu, Petru Apopei, Andreea Gherghel, Carmen Teodosiu, (2023), Preliminary performance evaluation for chicken manure treatment and valorization options, Environmental Engineering and Management* Journal, 22(9), 1535-1545. 7. **Daniela Gavrilescu**, *Anisoara Enache, Dumitrita Ibanescu, Carmen Teodosiu, Silvia Fiore, (2021), Sustainability assessment of waste electric and electronic equipment management systems: Development and validation of the SUSTWEEE methodology,* Journal of Cleaner Production, 306, 127214. 8. **Daniela Gavrilescu**, *Materiale suport cursuri: Managementul integrat al deseurilor deseurilor/Standardizarea si certificarea in managementul deseurilor/ Monitorizarea si raportarea deseurilor*, 2024, pe platforma MS Teams. 9. **Daniela Gavrilescu**, *Brîndușa Mihaela Slușer, Carmen Teodosiu, Cristina Mihaela Salcă Rotaru, (2022), Managementul deșeurile solide în comunitățile rurale. Abordare legislativă și recomandări,* Editura Universităţii Transilvania din Braşov. 10. **Daniela Gavrilescu**, *Petru Apopei, George Bârjoveanu, Carmen Teodosiu, (2022), Capitolul 6. Managementul deșeurilor în comunitățile rurale. Ghid de bune practici, in cartea Educație pentru mediu în comunități rurale sustenabile. Ghid de utilizare a resurselor educaționale deschise,* Editura Universităţii Transilvania din Braşov
6	S.l. dr. ing. Daniela Gavrilescu	Tehnologii de inchidere a ciclului de viata	Bogdan-Constantin Seto, Daniela Gavrilescu, Carmen Teodosiu, (2025), Sustainability Assessment of Single-Use versus Reusable Beverage Packaging Waste: A Romanian Case Study, Environmental Engineering and Management Journal, vol.24, no.3, 559-571, F.I.=0.9 Daniela Gavrilescu, Bogdan-Constantin Seto, Carmen Teodosiu, (2023), Sustainability analysis of packaging waste management systems: A case study in the Romanian context, Journal of Cleaner Production, 422, 138578. Daniela Gavrilescu, George Bârjoveanu, Petru Apopei, Andreea Gherghel, Carmen Teodosiu, (2023), Preliminary performance evaluation for chicken manure treatment and valorization options, Environmental Engineering and Management Journal, 22(9), 1535-1545**.** Daniela Gavrilescu, Anisoara Enache, Dumitrita Ibanescu, Carmen Teodosiu, Silvia Fiore, (2021), *Sustainability assessment of waste electric and electronic equipment management systems: Development and validation of the SUSTWEEE methodology*, Journal of Cleaner Production, 306, 127214.
7	S.l. dr. ing. Daniela Gavrilescu	Proiect integrator 3	1. **Daniela Gavrilescu**, *Materiale suport Solid waste management, in sistem e-learning* https://learning.tuiasi.ro/ 2. **Daniela Gavrilescu**, *(2021), Capitolul 19: Footprint asessment of solid waste managament, in cartea Assessing Progress towards Sustainability: Frameworks, tools and case studies, Editori Carmen teodosiu, Silvia Fiore, Almudena Hospido,* Editura Elsevier, ISBN 978-0-323-85851-9 3. Anisoara Enache Talpalaru, **Daniela Gavrilescu**, *Carmen Teodosiu, (2025), End of Life Management Sustainability of Waste Electrical and Electronic Equipment Generated in Romania, Sustainability, 17, 4105,* https://doi.org/10.3390/su17094105 4. Bogdan-Constantin Seto, **Daniela Gavrilescu**, *Carmen Teodosiu, (2025), Sustainability Assessment of Single-Use versus Reusable Beverage Packaging Waste: A Romanian Case Study, Environmental Engineering and Management* Journal, vol.24, no.3, 559-571. 5. **Daniela Gavrilescu**, *Bogdan-Constantin Seto, Carmen Teodosiu, (2023), Sustainability analysis of packaging waste management systems: A case study in the Romanian context,* Journal of Cleaner Production, 422, 138578. 6. **Daniela Gavrilescu**, *George Bârjoveanu, Petru Apopei, Andreea Gherghel, Carmen Teodosiu, (2023), Preliminary performance evaluation for chicken manure treatment and valorization options, Environmental Engineering and Management* Journal, 22(9), 1535-1545.

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9	S.l. dr. ing. Daniela Fighir	Management si modele de afaceri sustenabile	1. Note de curs disciplina ”Indicatori de durabilitate si economie circulara”, Daniela **Fighir**, *format electronic, ppt, platforma MSTeams* 4. Note de curs disciplina ”Management organizațional și performanță ecologică”, Daniela **Fighir**, *format electronic, ppt, platforma MSTeams*
10	S.l. dr. ing. Daniela Gavrilescu	Materiale circulare și reciclare avansată	1. Anisoara Enache Talpalaru, **Daniela Gavrilescu**, *Carmen Teodosiu, (2025), End of Life Management Sustainability of Waste Electrical and Electronic Equipment Generated in Romania, Sustainability, 17, 4105,* https://doi.org/10.3390/su17094105 2. Bogdan-Constantin Seto, **Daniela Gavrilescu**, *Carmen Teodosiu, (2025), Sustainability Assessment of Single-Use versus Reusable Beverage Packaging Waste: A Romanian Case Study, Environmental Engineering and Management* Journal, vol.24, no.3, 559-571. 3. **Daniela Gavrilescu**, *Bogdan-Constantin Seto, Carmen Teodosiu, (2023), Sustainability analysis of packaging waste management systems: A case study in the Romanian context,* Journal of Cleaner Production, 422, 138578. 4. **Daniela Gavrilescu**, *George Bârjoveanu, Petru Apopei, Andreea Gherghel, Carmen Teodosiu, (2023), Preliminary performance evaluation for chicken manure treatment and valorization options, Environmental Engineering and Management* Journal, 22(9), 1535-1545. 5. **Daniela Gavrilescu**, *Anisoara Enache, Dumitrita Ibanescu, Carmen Teodosiu, Silvia Fiore, (2021), Sustainability assessment of waste electric and electronic equipment management systems: Development and validation of the SUSTWEEE methodology,* Journal of Cleaner Production, 306, 127214. 6. **Daniela Gavrilescu**, *Materiale suport cursuri: Managementul integrat al deseurilor deseurilor/Standardizarea si certificarea in managementul deseurilor/ Monitorizarea si raportarea deseurilor*, 2024, pe platforma MS Teams.
11	Prof.univ.dr.ing. habil. Irina Volf	Bioremediere	1. Hristea G., Iordoc M., Lungulescu E.-M., Bejenari I., **Volf** *I., 2024, A sustainable bio-based char as emerging electrode material for energy storage applications, Scientific Reports, 14(1), 1095.* https://doi.org/10.1038/s41598-024-51350-x 2. Dinu R., Bejenari I., **Volf** *I., Mija A., 2024, Exploring strategies for valorising wood processing waste: advancing sustainable, fully lignocellulosic bio composites, International* Journal of Biological Macromolecules, 280, 135948. https://doi.org/10.1016/j.ijbiomac.2024.135948 3 Dinu R., Bejenari I., **Volf** *I., Mija A., 2024, Towards Sustainable and Recyclable Plastic Materials: Vanilin-Based Epoxy Bio-composites with Spruce Bark Powder and Hydrochar, Pioneering Green Chemistry Solutions for Shape Memory Applications, Industrial Crops & Products 221, 119363,* https://doi.org/10.1016/j.indcrop.2024.119363.

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12	Conf.dr. George Barjoveanu	Evaluarea ciclului de viață al produselor	1. Suport curs electronic la disciplina Evaluarea ciclului de viata a produselor si serviciilor, George **Barjoveanu**. 2. George **Barjoveanu**, *Evaluarea ciclului de viata al produselor, 325 pag.,* Editura EcoZone Iași, ISBN 978-606-8625-26-3, 325 pagini, 2021. 3. **Barjoveanu** *G., Teodosiu C., Cailean (Gavrilescu D.), 2018, Life cycle assessment of the romanian electricity mix: impacts, trends and challenges, 17 pages, Chapter 34 of the Book: Nearly Zero Energy Communities,* Springer Proceedings in Energy, Editors: I. Visa and A. Duta, published by Springer International Publishing AG 2018, DOI 10.1007/978-3-319-63215-5_34 4. Dinita, F., **Barjoveanu**, *G., Teodosiu, C. (2025). An Environmental Life-Cycle Assessment of End-of-Life Vehicles Management in Romania. Sustainability, 17(8), 3691.* https://doi.org/10.3390/su17083691. 5. Fighir, D., Paduraru, C., Ciobanu, R., Bucatariu, F., Plavan, O., Gherghel, A., **Barjoveanu**, *G., Mihai, M., Teodosiu, C., Removal of Diclofenac and Heavy Metal Ions from Aqueous Media Using Composite Sorbents in Dynamic Conditions ,(2024), Nanomaterials, 14 (1), art. no. 33.,* DOI: 10.3390/nano14010033. 6. **Bârjoveanu** *G., Teodosiu C., Gîlcă A.F., Roman I., Fiore S., 2019. Environmental performance evaluation of a drinking water treatment plant: A life cycle assessment perspective, Environmental Engineering and Management* Journal, vol.18, no.2., p. 513-522
13	Prof.univ.dr.ing. habil. Irina Volf	Energii regenerabile	**1.Volf**, I., Produse şi energie din resurse regenerabile, suport didactic multimedia şi on-line, curs program de master Managementul Mediului, http://www.ch.tuiasi.ro/cv/imm/**volf**irina. 2. **Volf**, *I., 2011, Produse şi energie din resurse regenerabile, (234 p)* Editura Ecozone, Iaşi, ISBN 978-973-7645-84-5, 10 ex. 3. Popa V.I., **Volf** *I., 2018, Biomass as Renewable Raw Material to Obtain Bio Products of High-Tech Value,* Elsevier, ISBN 978-0-444-63774-1, 2 ex. 4. **Volf** I., Popa V.I., 2018, Integrated processing of biomass resources for fine chemicals obtaining: Polyphenols, in Biomass as Renewable Raw Material to Obtain Bio Products of High-Tech Value, Valentin I. Popa and Irina **Volf** *Editors,* Elsevier, ISBN 978-0-444-63774-1, 2 ex. 5. **Volf** *I., Bejenari I.,Popa V.I, 2020, Valuable biobased products through hydrothermal decomposition, in Pulp Producing and Processing. High-tech applications, V.I. Popa Ed., De Gruyter, Berlin, Boston, 141-163,* ISBN 978-3-11-065883-5

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14	S.l. dr. ing. Corina Petronela Musteret	Managementul sustenabilității	1. Sluser B.M., Fighir D., **Mustereț** *C., Teodosiu C., 2022, Managementul mediului. Evaluarea impactului și a riscului de mediu. Exemple de bune practici, Capitolul 5 al cartii Educație pentru mediu in comunități rurale sustenabile. Ghid de utilizare a resurselor educaționale deschise,* Editura Universitatii Transilvania din Brasov, Editori: Draghici C., Sluser B.M., Simion C.P., pag.101-133, ISBN 978-606-19-1524-8
15	Prof.univ.dr.ing. Igor Cretescu	Elemente de inventica	1. Avadanei V., Bujor O.C., Avadanei L., **Cretescu I.** (2010). Inovarea în afaceri. Ed. Ecozone, Iași 2. **Cretescu I**., Isopescu D.N., Lutic D., Soreanu G. (2019). Indoor Air Pollutants and the Future Perspectives for Living Space Design. Chapter 5, in: Indoor Environment and Health. Edited by Korhan O. InTech, London, UK.
16	S.l. dr. ing. Daniela Fighir	Educație antreprenorială	1.Daniela Fighir, Management organizational si performanta ecologica, suport de curs 2025-2026. 2.Abalasei ME, Fighir D, Ciobanu R and Teodosiu C (2026) An integrated ECAM–Entropy–TOPSIS framework for evaluating energy consumption and greenhouse gas emissions in drinking water supply systems. Front. Environ. Sci. 14:1938618, doi:10.3389/fenvs.2026.1938618 3.Fighir Daniela, Wei Wang, Taher Ahmadi, Brindusa Sluser, 2026, Status and perspectives of sustainability indicators applied in the water sector, Current Opinion in Environmental Sustainability, Volume 81,2026,101647, ISSN 1877-3435, https://doi.org/10.1016/j.cosust.2026.101647.
17	S.l. dr.ing. Corina Petronela Mustereț	Managementul sustenabilității	1.C.-P. Musteret, Managementul sustenabilitatii – suport electronic de curs 2.C.-P. Musteret, Managementul sustenabilitatii – suport electronic de seminar
18	Conf.habil.dr. ing. Gabriela Soreanu	Biomimetism și solutii inspirate din natura	1.Soreanu G., Dumont E. (eds.). From Biofiltration to Promising Options in Gaseous Fluxes Biotreatment: Recent Developments, New Trends, Advances, and Opportunities. Elsevier, 524p, 2020, ISBN 9780128190647 2.Soreanu G. (2016). Biotechnologies for improving indoor air quality, Chapter 12, in: Start-up Creation: The Smart Eco-efficient Built Environment. Edited by F. Pacheco-Torgal, E. Rasmussen, C.G. Granqvist, V. Ivanov, A. Kaklauskas and S. Makonin. Elsevier, Woodhead Publishing, UK: 301-328. 3.Soreanu G.(2014). Prevenirea Poluarii si Protectia Mediului.Editura Performantica, Iasi

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