*Anexa Materiale didactice elaborate de titulari*

**UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" IAŞI**
Facultatea Inginerie Chimică și Protecția Mediului "Cristofor Simionescu"
Domeniul de licenţă: Ingineria Mediului
Domeniul de master: Ingineria Mediului
Programul de studii universitare de masterat: 1) MANAGEMENTUL MEDIULUI; 2) ENVIRONMENTAL MANAGEMENT AND SUSTAINABLE ENERGY; 3) MANAGEMENTUL TRATAREA SI VALORIFICAREA DESEURILOR
Forma de învăţământ *(zi/seral/fără frecvenţă/la distanţă)* : Zi
Durata studiilor: 4 semestre

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

| Nr. crt. | Cadru didactic | Program master | Disciplina | Resurse de studiu (format electronic sau tiparit, nr. de exemplare) |
|---|---|---|---|---|
| 1. | Conf. univ. dr. ing. Brîndușa Mihaela Slușer Titular curs și aplicații | MM | Evaluări de mediu | 1. *Evaluari de mediu pentru dezvoltare durabila*, autori **Brindusa Robu (Slușer)**, Matei Macoveanu, Editura EcoZone, Iasi, 2010, ISBN 978-973-7645-69-2, pg 266.<br>2. *Evaluari de mediu. Aplicatii*, **Brindusa Mihaela Robu**, Ed. EcoZone, Iasi, ISBN 978-973-7645-98-2, 2012.<br>3. *Evaluari de mediu pentru dezvoltare durabila*, **Brindusa Sluser,** note de curs, format electronic, ppt, MSTeams.<br>4. *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.<br>5. *Evaluarea impactului şi a riscului induse asupra mediului de activităţi industriale*, **Brîndușa Robu**, Editura Ecozone, Iași, 2005, ISBN 973-7645-00-6, pg. 221<br>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.<br>7. *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. |
| 2. | Conf. univ. dr. ing. Brîndușa Mihaela Slușer – | MM | Managementul relațiilor interpersonale | 1. Note de Curs - *Managementul relatiilor interpersonale*, **Brindusa Sluser,** anul al II-lea, masterat MM, 2020-2022, Online pe MSTeams.<br>2. *Comunicarea si managementul relatiilor la nivel organizational*, **Brindusa Sluser**, Carmen Ioan, ISBN 978-606-8625-40-9, editura EcoZone, Iasi, 210p, 2024. |

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| | titular curs<br><br>S.l.dr.ing. Daniela Fighir – titular aplicații | | | 3. Capitol in *Recomandări de politici pentru concepţia, planificarea şi implementarea proiectelor de mediu, precum şi pentru implicarea cetăţenilor în păstrarea unui mediu curat în comunităţile rurale*, Eds: Cezar Petre Simion, Cristina Mihaela Salcă Rotaru, Ed. Universităţii "Transilvania", Brasov, ISBN 978-606-19-1531-6, 71p, 2022.<br>4. *Managementul Relațiilor Interpersonale*, Carmen Cătălina Ioan Editura Ecozone, Iași, 2016, ISBN: 978–606–8625–08-9.<br>5. *Profiluri de interese vocaționale favorabile integrării profesionale ale absolvenților de ingineria mediului*, Carmen-Cătălina Ioan, Ileana Maria Carcea, **Brînduşa Mihaela Sluşer**, Bulletin of Polytechnic Institute from Iasi, section Socio-sciences, 2019, Volumul 65 (69), 1-2, p.41-57 |
| 3. | Conf. univ. dr. ing. Brîndușa Mihaela Slușer | EMSE | Environmental Assessments | 1. *Methods of environmental impact assessment*, Petter Morris, Riki Therivel, 2001, Google Books : https://www.google.ro/books/edition/Methods_of_Environmental_Impact_Assessme/tRZnUBqloL8C?hl=en&gbpv=1&pg=PA3&printsec=frontcover<br>2. *Occupational and Environmnetal Health*, BS Levy, DH Wegman, SL Baron, RK Sokas, 2011, Online la: https://losh.ucla.edu/wp-content/uploads/sites/37/2023/01/Levy-Wegman-Chapter-1-Overview-6th-ed.-2011.pdf<br>3. *Evaluari de mediu. Aplicatii*, autor **Brindusa Robu (Sluser),** Ed. EcoZone, Iasi, ISBN 978-973-7645-98-2, 2012<br>4. *Environmnetal assessments*, note de curs, format electronic, ppt, platforma elearning tuiasi.<br>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.<br>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<br>7. *Integrated approach on assessment, treatment and management of environmental pollution*, **Brindusa Sluser**, Ed.EcoZone, ISBN 978-606-8625-38-6, 390p, 2023.<br>8. *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).<br>9. *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 |
| 4. | Conf. univ. dr. ing. Brîndușa Mihaela Slușer – titular curs<br><br>Șef lucr. dr. ing. Cătălin Bălan – titular aplicații | MTVD | Evaluarea impactului și auditul deșeurilor | 1. *Evaluari de mediu pentru dezvoltare durabila*, autori **Brindusa Robu (Slușer)**, Matei Macoveanu, Editura EcoZone, Iasi, 2010, ISBN 978-973-7645-69-2, pg 266.<br>2. *Evaluari de mediu. Aplicatii*, **Brindusa Mihaela Robu**, Ed. EcoZone, Iasi, ISBN 978-973-7645-98-2, 2012.<br>3. *Evaluari de mediu pentru dezvoltare durabila*, **Brindusa Sluser,** note de curs, format electronic, ppt, MSTeams.<br>4. *Educație pentru mediu in comunități rurale sustenabile. Ghid de utilizare a resurselor educaționale deschise*, editori Camelia Drăghici, **Brînduşa Mihaela Slușer**, Cezar Petre Simion, editura Universităţii "Transilvania", Brasov, ISBN 978606-19-1524-8, 235p, 2022.<br>5. *Evaluarea impactului şi a riscului induse asupra mediului de activităţi industriale*, **Brînduşa Robu**, Editura Ecozone, Iaşi, 2005, ISBN 973-7645-00-6, pg. 221<br>6. Note de curs - *Evaluarea impactului deșeurilor asupra mediului* - **Brînduşa Sluser,** Online pe MSTeams.<br>7. **Catalin Balan**, Curs, Auditul de mediu, Platforma Microsoft Teams |

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| | | | | 8. **Catalin Balan**, Proiect, Auditul de mediu, Platforma Microsoft Teams. |
| 1. | Prof. univ. dr. ing. Igor Crețescu – titular curs și aplicații | EMSE | Environmental Monitoring | 1. **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, i*n: Environmental and Technological Aspects of Redox Processes (Eds. Duca G., Vaseashta A.), IGI Global, Hershey, Pennsylvania, USA: 132-148. ISBN 9798369305126.<br>2. **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.<br>3. **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)<br>4. **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)<br>5. **Cretescu, I**., Soreanu, G., *Tehnologii de achizitie, monitorizare si diagnoza a calitatii mediului*, 227 pg., Ed. ECOZONE, Iasi, 2013, ISBN 978-973-7645-92-0<br>6. **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)<br>7. Cristian Fosalau, **Igor Cretescu**. *Senzori si traductoare in monitorizarea mediului*, http://iota.ee.tuiasi.ro/~emse/Senzori%20si%20traductoare%20in%20monitorizarea%20mediului.pdf<br>8. Note de curs, *Environmental monitoring*, **Cretescu I**., http://learning.tuiasi.ro/course/index.php?categoryid=27 |
| 2. | Prof. univ. habil. dr. ing. Irina Volf – titular curs<br><br>Șef lucr. dr. ing. Cătălin Bălan – titular aplicații | MM/MTVD | Produse și energie din resurse 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/volfirina.<br>2. **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<br>3. 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.<br>4. 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<br>5. 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<br>6. 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 |

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| | | | | 7. 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.<br>8. Bejenari I., Hristea G., Carausu C., Mija A, **Volf I.,** 2022, *A Sustainable Approach on Spruce Bark Waste Valorization through Hydrothermal Conversion*, Processes, 10, 111, https://doi.org/10.3390/pr10010111<br>9. Ungureanu E., Tofănică B.M., Ungureanu O.C., Fortună M.E., **Volf I.,** Popa V.I., 2024 *Circular economy solutions: exploring agricultural residues*, Bulletin of Polytechnic Institute of Iasi, Chemistry and Chemical Engineering section, 70 (74), 4, 33-48, 10.5281/zenodo.14582064<br>10. Dinu R., Bejenari I., **Volf I**., Mija A., 2021, *Vegetable Oil-Based Resins Reinforced with Spruce Bark Powder and with Its Hydrochar Lignocellulosic Biomass*, Applied Science, 11, 10649. https://doi.org/10.3390/app112210649.<br>11. Filote, C., Santos, S.C.R., Popa, V.I., **Volf I.,** 2021, *Biorefinery of marine macroalgae into high-tech bioproducts: a review*. Environmental Chemistry Letters,19, 969-1000, https://doi.org/10.1007/s10311-020-01124-4<br>12. **Volf, I.,** 2011, *Produse şi energie din resurse regenerabile*, (234 p) Editura Ecozone, Iaşi, ISBN 978-973-7645-84-5, 10 ex.<br>13. 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.<br>14. **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. |
| 3. | Prof. univ. habil. dr. ing. Irina Volf – titular curs și aplicații | EMSE | Research planning and project management | 1. **Volf I.,** *Research Planning and project management*, suport didactic multimedia şi on-line, curs program Master Environmental Management and Sustainable Energy http://www.ch.tuiasi.ro/cv/imm/volfirina<br>2. Popa V.I., **Volf, I.,** 2013, *Experimental Research Strategy* (180p), Politehnium, Iaşi, ISBN 978-973-621-403-5 (in Romanian). |
| 4. | Prof.dr.habil.chim. Laura Bulgariu | MTVD | Metode si tehnici de caracterizare a compozitiei deseurilo | 1. Note de curs - *Metode si tehnici de caracterizare a compozitiei deseurilor*, Autori: **Laura Bulgariu**, Online pe MSTeams.<br>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<br>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.<br>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.<br>5. **Laura Bulgariu** – *Metode instrumentale de analiză*, Editura Politehnium, Iaşi, 2011, ISBN. 978-973-621-317-5, 260 p.<br>6. **Laura Bulgariu** – *Controlul analitic al calităţii produselor*, Editura Politehnium, Iaşi, 2013, ISBN 978-973-621-423-3, 215 p. |
| 5. | Prof.univ. dr.habil.ing. | EMSE | Sustainable energy | 1. **Zaharia C.,** *Sustainable Energy Production. Course notes and laboratory works*, Ed. Performantica, Iaşi, 2019, 322 pg., din care parte aplicativă (laborator) – 126 pagini, ISBN 978-606-685-630-0 (lb. engleza) |

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| | Carmen Zaharia - titular curs și aplicații | | production | 2. **Zaharia C.,** *Energia si mediul*, ed. II-a, Ed. Ecozone, Iasi, 2006, ISBN (10) 973-7645-24-3; (13) 978-973-764-524-1<br>3. **Zaharia C.,** *Energia si mediul*, Editura Universitatii „Al.I.Cuza", Iasi, 2004, ISBN 973-703-009-5<br>4. Surpățeanu M., **Zaharia C.,** *ABC – Metode de analiză a calităţii factorilor de mediu*, 200 pg., Ed. T, Iași, 2002, ISBN 973-998-244-1<br>5. Danila A., Muresan E.I., Ibanescu S.A., Popescu A., Danu M., **Zaharia C**., Ceylan Türkoglu G., Erkan G., Starasf A.I., *Preparation, characterization, and application of polysaccharide-based emulsions incorporated with lavender essential oil for skin-friendly cellulosic support*, International Journal of Biological Macromolecules, 191, 405-413, **2021**. Doi: 10.1016/ j.ijbiomac.2021.09.090 |
| 6. | Prof.univ. dr.habil.ing. Carmen Zaharia - titular curs și aplicații | MTVD | Politici si strategii de mediu | 1. **Zaharia C**., *Politici și instrumente legislative în domeniul deșeurilor – note de curs și aplicații*, Ed. Performantica, Iași, **2018**, total 228 pg., din care curs - 78 pagini, ISBN 978-606-685-630-0<br>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<br>3. **Zaharia C.,** *Protecţia juridică a mediului*, Ed. Ecozone, Iasi, 2008, ISBN 978-973-764-554-8<br>**Zaharia C**., *Legislatia privind protectia mediului*, Ed. Politehnium, Iasi, 2008, ISBN 978-973-621-219-2 |
| 7. | Prof.univ. dr.habil.ing. Cezar-Florin Catrinescu - titular curs și aplicații | EMSE | Pollution control technologies | 1. **C. Catrinescu**, *Procese catalitice de epurare a apelor uzate*, Editura Politehnium, 2008, Iasi (20 exemplare)<br>2. Ungureanu Adrian, **Catrinescu Cezar-Florin**, *Cataliză și materiale catalitice*, Editura Ecozone Iași, ISBN 978-606-8625-41-6, 184 pg. (formt academic), 2024<br>3. Note de curs, *Advanced Water and Air Treatment Technologies*, **Catrinescu Cezar-Florin** – disponibil la https://groups.yahoo.com/neo/groups/awat-ficpm/files<br>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<br>5. D.H.F. Liu, B.G. Liptak, *Environmental Engineer's Handbook*, CRC Press LLC, 1999, New York (electronic)<br>6. V. Oros, C. Draghici, *Managementu deseurilor*, Editura Universitatii Transilvania rasov, 2002 (1 exemplar)<br>7. C. Ceodosiu, *Tehnologia apei potabile si industriale*, Matrix Rom, Bucuresti (1 exemplar)<br>8. Best Available Techniques (BAT) Reference Document for Common Waste Water and Waste Gas Treatment/Management Systems in the Chemical Sector – online at http://eippcb.jrc.ec.europa.eu/. (electronic)<br>9. *Ullmann's Encyclopedia of Industrial Chemistry*. 6th, completely revised edition. Weinheim, Germany: Wiley-VCH, 2003 (electronic) |
| 8. | Prof.univ. dr.habil.ing. Cezar-Florin Catrinescu - titular curs și aplicații | MM/MTVD | Tehnologii pentru controlul poluării | 1. Note de curs, *Tehnologii avansate de depoluare* - **C. Catrinescu** – disponibil pe platforma MSTeams<br>2. 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.<br>3. Ungureanu Adrian, **Catrinescu Cezar-Florin**, *Cataliză și materiale catalitice*, Editura Ecozone Iași, ISBN 978-606-8625-41-6, 184 pg. (formt academic), 2024<br>4. Apopei, P., Orha, C., Popescu, M.I., Lazau, C., Manea, F., **Catrinescu, C**., Teodosiu, C., *Diclofenac removal from water by photocatalysis- assisted filtration using activated carbon modified with N-doped $TiO_2$*, (2020), Process |

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| | | | | Safety and Environmental Protection, 138, pp. 324-336.<br>5. **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<br>6. 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.<br>7. 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.<br>8. 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 |
| 9. | Conf.habil. dr. ing. Gabriela Șoreanu – titular curs și aplicații | MM | Monitorizarea mediului | 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)<br>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)<br>**Soreanu G.** (2014). *Prevenirea Poluarii si Protectia Mediului*. Editura Performantica, Iasi, 270p, ISBN 978-606-685-200-5 (25 exemplare)<br>3. **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**.**<br>4. 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<br>5. **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<br>6. 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<br>7. **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<br>8. **Soreanu G.,** Cretescu I., Diaconu M., Ignat M., Harabagiu V., Cojocaru C., Samoila P. *Monitoring of $CO_2$ uptake by microalgae in indoor environment*. In proceedings of GLOREP 2018-Global and Regional in Environmental |

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| 23. | Șef lucr. dr. ing. Daniela Gavrilescu Titular curs/aplicatii | EMSE | Integrated environmental management | 1. Note de curs la disciplina *Integrated Environmental Management* (ppt), **D. Gavrilescu, Teodosiu C**., online pe platforma MSTeams<br>2. Remy C., Corominas L., Hospido A., Larsen H.F., **Teodosiu C.,** 2017. *Assessing environmental impacts and benefits of wastewater treatment plants***,** 22 pages (438-460), **Chapter 20** of the Book: *Innovative Wastewater Treatment & Resource Recovery Technologies: Impacts on Energy, Economy and Environment*, Editors: Juan M. Lema, Sonia Suarez Martinez, published by IWA Publishing, e-ISBN:9781780407876, DOI:https://doi.org/10.2166/9781780407876<br>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<br>4. Pintilie L., Torres C.M., **Teodosiu C**., Castells F., 2016, *Urban wastewater reclamation for industrial reuse: an* |

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| 24. | Șef lucr. dr. ing. Daniela Gavrilescu<br><br>Titular curs/aplicatii | MTVD | Managementul integrat al deșeurilor/<br><br>Standardizarea si certificarea in managementul deseurilor/<br><br>Monitorizarea si raportarea deseurilor | 1. **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.<br>2. **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.<br>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 Universităţii Transilvania din Braşov<br>4. Florian Radulescu, 2017, *Managementul deseurilor*, suport de curs – format electronic<br>5. 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 Iași, Volumul 70 (74), Numărul 3, Secţia Chimie si Inginerie Chimică,doi: 10.5281/zenodo.13837961<br>6. 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 Iași, Volumul 69 (73), Numărul 3, Secţia Chimie si Inginerie Chimică,doi: 10.5281/zenodo.10072463<br>7. 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 Iași, Volumul 69 (73), numărul 4, secţia Chimie si Inginerie Chimică, doi: 10.5281/zenodo. 10684910<br>8. Shaukat Hayat, Sajjad Sheikh, 2016, *Municipal Solid Waste Engineering Principles and Management* – format electonic<br>9. Jessica McAllister, 2015, *Factors influencing Solid Waste Management in the Developing World*, suport de curs – format electronic<br>10. UNEP, 2009, *Developing Intergrated Solid Waste Management Plan, Training Manual*, volume 1-4 |

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| 25. | Șef lucr. dr. ing. Daniela Fighir | MM/MTVD | Indicatori de durabilitate si economie circulara | 1. Note de curs disciplina *"Indicatori de durabilitate si economie circulara"*, **Daniela Fighir**, format electronic, ppt, platforma MSTeams<br>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<br>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<br>4. Ashby F. Michael, *Materials and Sustainable development*, 2016, Elsevier.<br>5. Pupphachai U., Zuidema C., 2017, *Sustainability indicators: A tool to generate learning and adaptationin sustainable urban development*, Ecological Indicators 72 (2017) 784–793.<br>6. Martin Gomez A.M., Aguayo Gonzalez F., Barcena M.M., 2017, *Smart eco-industrial parks: A circular economy implementation based on industrial metabolism*, http://dx.doi.org/10.1016/j.resconrec.2017.08.007<br>7. Furkan Sariatli, 2017, *Linear Economy versus Circular Economy: A comparative and analyzer study for Optimization of Economy for Sustainability*, Visegrad Journal on Bioeconomy and Sustainable Development<br>8. https://www.ellenmacarthurfoundation.org<br>9. http://ec.europa.eu/environment/circular-economy/index_en.htm<br>10. https://www.carbonfootprint.com/calculator.aspx<br>11. http://shrinkthatfootprint.com/my-carbon-footprint-in-2012<br>12. http://ecologicalfootprint.com/<br>13. http://www.footprintcalculator.org/<br>14. http://ecocamp.us/eco-footprint-calculator |
| 26. | Șef lucr. dr. ing. Daniela Fighir titular curs/aplicații | MM/MTVD | Management organizațional și performanță ecologică | 1. Note de curs disciplina *"Management organizațional și performanță ecologică*", **Daniela Fighir**, format electronic, ppt, platforma MSTeams<br>2. Luminita Lupu s.a, *Sistemul de indicatori de performanta de mediu*, Ed PERFORMANTICA, Iasi 2006<br>3. Carmen Teodosiu, *Managementul integrat al mediului*- Ed ECOZONE, Iasi 2004<br>4. Matei Macoveanu, *Auditul de mediu*, Editia a II-a, Ed ECOZONE, Iasi, 2005<br>5. Maria Gavrilescu, *Estimarea si managementul riscului*, Editia a II-a, Ed ECOZONE, Iasi 2006<br>6. SR EN ISO 14031:2014 - *Management de mediu- Evaluarea performantei de mediu - Ghid* |
| 1. | Șef lucr. dr. ing. Daniela Fighir – titular curs și aplicații | EMSE | Sustainability indicators and circular economy | 1. Note de curs la disciplina "*Sustainability Indicators and Circular Economy"*, **Daniela Fighir**, (format ppt, online pe MSTeams)<br>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 |

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| 2. | Sl. dr. ing. Petronela Cozma<br><br>Titular curs și aplicații | EMSE | Ethics and integrity | 1. Suport de prezentare ppt a cursului *Ethics and Integrity*, autori: **Cozma P**., (2018-2023), format electronic, Online pe MSTeams: https://teams.microsoft.com/v2/<br>2. Suport aplicații pentru disciplina *Ethics and Integrity*, autori: **Cozma P**., (2018-2023), format electronic, Online pe MSTeams: https://teams.microsoft.com/v2/<br>3. Cozma C., (2018), *Ethics*, suport de curs, (in Romanian).<br>4. Ulman Y.I., (2015), Social Ethics, In: Encyclopedia of Global Bioethics, Springer Science+Business Media Dordrecht.<br>5. Mureșan V., (2009), The situation of ethical management in Romania, The Applied Ethics Research Center (CCEA), Bucharest, On line at: https://www.ccea.ro/situatia-managementului-etic-in-romania/.<br>6. OECD, (2018), Public Integrity- A strategy against corruption, OECD Recommendation of the Council on Public Integrity, On line at: https://www.oecd.org/gov/ethics/OECD-Recommendation-Public-Integrity.pdf<br>7. Pope J., (2002), Public Integrity Systems, Transparency International Guide, (in Romanian), TRANSPARENCY INTERNATIONAL, Bucharest.<br>8. Sarpe D., Popescu D., Neagu A., Ciucur V., (2011), Standards of Integrity in University Education, (On line |

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| 3. | S.l. dr. ing. Petronela Cozma<br><br>Titular curs și aplicații | EMSE | Sustainable industrial production | 1. Sustainable Industrial Production, (curs in format electronic), Maria Gavrilescu, Online: http://persenvir.xhost.ro/mgav/master_SIP_2017_2018.html<br>2. *Sustainable Industrial Production* – lucrări de proiect, M. Gavrilescu, **P. Cozma**, C. Smaranda, - format electronic, on-line: www.learning.tuiasi.ro<br>3. *Product Design and Engineering Best Practices, Vol. 1: Basics and technologies*, Bröckel U., Meier W., Wagner G., Wiley-VCH, 2007 (biblioteca OAIMDD);<br>4. *Product Design and Engineering Best Practices. Vol. 2: Raw Materials, Additives and Applications*, Bröckel U., Meier W., Wagner G., Wiley-VCH, 2007 (biblioteca OAIMDD)<br>5. *Green Chemistry and Engineering*, Anne E. Marteel-Parish, Martin A. Abraham, WILEY – AlChE, 2013 (biblioteca OAIMDD)<br>6. *Sustainable Resource Development*, Gary M. Zatzman, WILEY – VCH, 2012 (biblioteca OAIMDD)<br>7. Azapagic A., Perdan S., Clift R., (2004), *Sustainable Development in Practice*, John Wiley and Sons, New York (Google Books)<br>8. El Haggar S., (2009), *Sustainable Industrial Design and Waste Management: Cradle-to-Cradle for Sustainable Development*, Academic Press (Google Books)<br>9. Gallaud D., Laperche B., (2016), *Circular Economy, Industrial Ecology and Short Supply Chain*, John Wiley and Sons, Hoboken (Google Books)<br>10. Harmsen J., Powell J.B., (2011), *Sustainable Development in the Process Industries: Cases and Impact*, John Wiley & Sons (Google Books)<br>11. Mulder K., (2006), *Sustainable Development for Engineers: A Handbook and Resource Guide*, Greenleaf Publishing (Google Books)<br>12. Rogers P.P.P., Jalal K.F.F., Boyd J.A.A., (2012), *An Introduction to Sustainable Development*, Routledge (Google Books) |
| 1. | S.l.dr.ing. Petronela Cozma -titular curs<br><br>Titular curs și aplicații | MTVD | Procese și utilaje în tratarea deșeurilor | 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<br>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.<br>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<br>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 |

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| 2. | S.l.dr.ing. Petronela Cozma - titular curs și aplicații | MM | Producție industrială durabilă | 1. Suport de prezentare ppt a cursului *Producție Industrială durabilă*, program master MM, (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<br>2. 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<br>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<br>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.<br>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<br>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.<br>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* |

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| | **Alte Departamente** | | | |
| 34. | Conf. dr. bioing. Cătălina Peptu | MTVD | Tehnologii de tratare a deșeurilor polimerice | 1. **Cătălina Peptu**, Note de curs *Tehnologii de tratare a deșeurilor polimerice*, 2024- format electronic<br>2. **Cătălina Peptu,** Indrumar laborator *Tehnologia polimerilor*, online pe http://www.didactic.icpm.tuiasi.ro/cv/peptucatalinaanisoara/pdf/Indrumar%20Tehnologia%20Polimerilor.pdf |
| 35. | Conf. univ. dr. ing. Irina Cârlescu | MM<br>MTVD | Etică și integritate academică | 1. **Irina Cârlescu**, Note de curs *Etică și integritate*, 2024 - format electonic |

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Intocmit
Sef lucr. dr. ing. Petronela Cozma