

ȘCOALA DOCTORALĂ

Raport privind activitatea Școlii Doctorale din Universitatea Petrol - Gaze din Ploiești pentru anul universitar 2021-2022

1. Conducători de doctorat tabelat pe domenii

LISTA DOMENIILOR DE DOCTORAT ȘI A CONDUCĂTORILOR DE DOCTORAT – 2021

Nr. crt.	Conducătorul de doctorat	Universitatea de proveniență
Domeniul de doctorat / Doctoral domain: MINE, PETROL ȘI GAZE / MINE, OIL AND GAS		
1.	Prof. univ.habil dr. ing. Albulescu Mihai Adrian	Universitatea Petrol-Gaze din Ploiești
2.	Prof. univ.habil dr. ing. Dinu Florinel	Universitatea Petrol-Gaze din Ploiești
3.	Prof. univ. dr. ing. Avram Lazăr	Universitatea Petrol-Gaze din Ploiești
4.	Conf.univ.habil.dr.ing. Chiș Timur	Universitatea Ovidius din Constanța
6.	Prof. univ. dr. ing. Minescu Florea	Universitatea Petrol-Gaze din Ploiești
7.	Prof. univ. dr. ing. Nistor Iulian	Universitatea Petrol-Gaze din Ploiești
8.	Prof. univ.habil dr. ing. Stoicescu Maria	Universitatea Petrol-Gaze din Ploiești
Domeniul de doctorat / Doctoral domain: INGINERIE CHIMICĂ / CHEMICAL ENGINEERING		
1.	Prof. univ.habil. dr. ing. Cursaru Diana	Universitatea Petrol-Gaze din Ploiești
2.	Prof. univ. dr. ing. Bolocan Ion	Universitatea Petrol-Gaze din Ploiești
3.	Prof. univ. dr. ing. Ciuparu Dragoș	Universitatea Petrol-Gaze din Ploiești
4.	Prof. univ. dr. ing. Matei Vasile	Universitatea Petrol-Gaze din Ploiești
5.	Prof. univ. dr. ing. Onuțu Ion	Universitatea Petrol-Gaze din Ploiești
6.	Prof. univ. dr. ing. Roșca Paul	Universitatea Petrol-Gaze din Ploiești
Domeniul de doctorat / Doctoral domain: INGINERIE MECANICĂ / MECHANICAL ENGINEERING		
1.	Prof. univ.habil. dr. ing. Rîpeanu Răzvan George	Universitatea Petrol-Gaze din Ploiești
2.	Prof. univ.habil. dr. ing. Mihail Minescu	Universitatea Petrol-Gaze din Ploiești
3.	Prof.univ.habil.dr.ing. Nae Ion	Universitatea Petrol-Gaze din Ploiești
4.	Prof. univ.habil. dr. ing. Marius Gabriel Petrescu	Universitatea Petrol-Gaze din Ploiești
5.	Prof. univ. dr. ing. Pupăzescu Alexandru	Universitatea Petrol-Gaze din Ploiești
6.	Prof. univ.habil. dr. ing. Teodoriu Cătălin	University of Oklahoma, SUA
Domeniul de doctorat / Doctoral domain: INGINERIA SISTEMELOR / SYSTEMS ENGINEERING		
1	Prof. univ. habil.dr. ing. Paraschiv Nicolae	Universitatea Petrol-Gaze din Ploiești
2	Prof.univ.habil. dr.ing. Bălaș Valentina Emilia	Universitatea Aurel Vlaicu din Arad
3	Prof. univ.habil. dr. ing. Duță Luminița	Universitatea Valahia din Târgoviște
4	Prof. univ. dr. ing. Oprea Mihaela	Universitatea Petrol-Gaze din Ploiești
5	Prof.univ.dr.ing.Pătrășcioiu Cristian	Universitatea Petrol-Gaze din Ploiești
6	Prof.univ.habil. dr.ing. Rădulescu Gabriel	Universitatea Petrol-Gaze din Ploiești

LISTA DOMENIILOR DE DOCTORAT ȘI A CONDUCĂTORILOR DE DOCTORAT – 2022

Nr. crt.	Conducătorul de doctorat	Universitatea de proveniență
Domeniul de doctorat / Doctoral domain: MINE, PETROL ȘI GAZE / MINING, OIL AND GAS		
Domeniu acreditat		
1.	Prof. univ.habil dr. ing. Florinel Dinu	Universitatea Petrol-Gaze din Ploiești
2.	Prof. univ.habil dr. ing. Mihai Adrian Albulescu	Universitatea Petrol-Gaze din Ploiești
3.	Prof. univ. dr. ing. Lazăr Avram	Universitatea Petrol-Gaze din Ploiești
4.	Prof. univ. dr. ing. Iulian Nistor	Universitatea Petrol-Gaze din Ploiești
5.	Prof. univ.habil dr. ing. Maria Stoicescu	Universitatea Petrol-Gaze din Ploiești
6.	Conf.univ.habil.dr.ing. Timur-Vasile Chiș	Universitatea Ovidius din Constanța
Domeniul de doctorat / Doctoral domain: INGINERIE MECANICĂ / MECHANICAL ENGINEERING		
Domeniu acreditat		
1.	Prof. univ.habil. dr. ing. Răzvan George Rîpeanu	Universitatea Petrol-Gaze din Ploiești
2.	Prof.univ.dr.ing. Nicolae Napoleon Antonescu	Universitatea Petrol-Gaze din Ploiești
3.	Prof. univ.habil. dr. ing. Mihail Minescu	Universitatea Petrol-Gaze din Ploiești
4.	Prof.univ.habil.dr.ing. Ion Nae	Universitatea Petrol-Gaze din Ploiești
5.	Prof. univ.habil. dr. ing. Marius Gabriel Petrescu	Universitatea Petrol-Gaze din Ploiești
Domeniul de doctorat / Doctoral domain: INGINERIA SISTEMELOR / SYSTEMS ENGINEERING		
Domeniu acreditat		
1	Prof. univ.dr. ing. Nicolae Paraschiv	Universitatea Petrol-Gaze din Ploiești
2	Prof. univ. dr. ing. Mihaela Oprea	Universitatea Petrol-Gaze din Ploiești
3	Prof.univ.dr.ing. Cristian Pătrășcioiu	Universitatea Petrol-Gaze din Ploiești
4	Prof.univ.habil. dr.ing. Gabriel Rădulescu	Universitatea Petrol-Gaze din Ploiești
5	Prof.univ.habil. dr.ing. Valentina Emilia Bălaș	Universitatea Aurel Vlaicu din Arad
6	Prof. univ.habil. dr. ing. Luminița Duță	Universitatea Valahia din Târgoviște
Domeniul de doctorat / Doctoral domain: INGINERIE CHIMICĂ / CHEMICAL ENGINEERING		
Domeniu acreditat condiționat		
1.	Prof. univ. dr. ing. Dragoș Mihael Ciuparu dciuparu@upg-ploiesti.ro	Universitatea Petrol-Gaze din Ploiești
2.	Prof. univ.habil. dr. ing. Diana Luciana Cursaru	Universitatea Petrol-Gaze din Ploiești
3.	Prof. univ. dr. ing. Vasile Matei	Universitatea Petrol-Gaze din Ploiești
4.	Prof. univ. dr. ing. Ion Onuțu	Universitatea Petrol-Gaze din Ploiești

2. Studenți doctoranzi (numeric) total și pe domenii octombrie 2021 respectiv octombrie 2022

Domeniul de doctorat	2021		2022	
	Buget + taxa	Cetățeni străini	Buget + taxa	Cetățeni străini
I.M.	7	-	3	1
M.P.G.	8	1	11 (1 rrom)	1
I.S.	5	-	3	-
I.C.	1	2	2	1

3. Sume buget si sume din taxe total si pe domenii anii 2021 si 2022- cat si cheltuieli pentru achizitii, deplasari, taxe articole

Anexă

4. Activitate publicare / cercetare:

4.1. Articole publicate CD si/sau de doctoranzi;

1. Articole publicate de conducătorii de doctorat din domeniul IM si/sau de doctoranzii din domeniul IM;

- 1.1. Patirnac, I., Ripeanu, R.G., Ramadan, I., *Theoretical and Experimental Studies on the Cut Zone Generated by AWJ Process*, FME Transactions, Ed. University of Belgrade, 49(4), 2021, pp.997-1004, ISSN Print 1451-2092, ISSN Online 2406-128X, https://www.mas.bg.ac.rs/media/istrazivanje/fme/vol49/4/25_i_patirnac_et_al.pdf, <https://doi.org/10.5937/fme2104997P>, Belgrade, Serbia, 2021;
- 1.2. Iamandei, A., Vasilescu, S.N., Popa, I., Stanciu, L.S., Ripeanu, R.G., *Simulating the overload test for a 480 kN maximum hook load workover rig mast*, Scientific Bulletin of University „Politehnica” of Bucharest Series D, 84 (4), 2022, pp.165-180, ISSN 1454-2358(print), ISSN 2286-3699(online), https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rezd3a_499577.pdf, Bucharest, Romania, 2022;
- 1.3. Ri, J.H., Ripeanu, R.G., *Evaluation of the wear and corrosion resistance of coated parallel gate valve*, Tribology and Materials, Vol. 1, No. 1, 2022, pp. 11-20, ISSN 2812-9717, <https://doi.org/10.46793/tribomat.2022.002>, Belgrade, Serbia, 2022;
- 1.4. Iamandei, A., Ripeanu, R., Stanciu, L., Popa, I. and Vasilescu, S., *Experimental Results Regarding the Strains and Stresses Appeared Around Some Lifting Ears from a Cylinder Used in the Petrochemical Industry*, IOP Conference Series: Materials Science and Engineering, Volume 1235, The 25th Edition of IManEE 2021 International Conference (IMANEE 2021) 21/10/2021 - 22/10/2021 Online, Book Series: IOP Conference Series-Materials Science and Engineering, Vol. 1235, 2022, pp.1-7, ISSN 1757-899X, <https://doi.org/10.1088/1757-899X/1235/1/012050>, Bristol BS1 6BE, England,2022;
- 1.5. Iamandei, A., Ripeanu, R., Stanciu, L., Popa, I. and Vasilescu, S., *Numerical Analysis of the Stresses Appeared Around Some Lifting Ears from a Cylinder Used in the Petrochemical Industry*, IOP Conference Series: Materials Science and Engineering, Volume 1235, The 25th Edition of IManEE 2021 International Conference (IMANEE 2021) 21/10/2021 - 22/10/2021 Online, Book Series: IOP Conference Series-Materials Science and Engineering, Vol. 1235, 2022, pp.1-7, ISSN 1757-899X, <https://doi.org/10.1088/1757-899X/1235/1/012049>, Bristol BS1 6BE, England,2022;
- 1.6. Ri, J.H., Ripeanu, R.G., *Modeling analysis of the valve flange with octagonal ring gasket under the influence of temperature*, Scientific Bulletin of University „Politehnica” of Bucharest Series D, 83 (4), 2021, pp.239-252, ISSN 1454-2358(print), ISSN 2286-3699(online), https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rez82c_343613.pdf, Bucharest, Romania, 2021;
- 1.7. Iamandei, A., Vasilescu, N.S., Popa, I., Stanciu, L.S., Ripeanu, R.G., *Analysis of the behaviour of a 480KN maximum hook load workover rig mast in the case of wind stress*, Scientific Bulletin of University „Politehnica” of Bucharest Series D, 83 (4), 2021, pp.183-194, ISSN 1454-2358(print), ISSN 2286-3699(online), https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rez260_845178.pdf Bucharest, Romania, 2021;
- 1.8. Burlacu A., Petrescu M.G., Dumitru T., Niță A., Tănase M., Laudacescu E., Ramadan I., Ilinca C., *Numerical Approach Regarding the Effect of the Flight Shape on the Performance of Rotary Dryers from Asphalt Plants*, Processes 2022, 10, 2339, <https://doi.org/10.3390/pr10112339>
- 1.9. M.I. Al Naboulsi, A.I. Popovici, A. Mulla, N.N. Antonescu, M.G. Petrescu, *Erosion wear analysis with classical models for the couple piston-cylinder materials of drilling fluid pumps*, Journal of the Balkan Tribological Association, Vol. 28, no. 5, 2022, pag 30-55
- 1.10. Burlacu, A. I.; Tănase M.; Ilincă, C.; Petrescu M. G., *Optimizing the trajectory of aggregates in drying units from the asphalt plant*, IOP Conf. Series: Materials Science and Engineering 1262 (2022) 012003 IOP Publishing, doi:10.1088/1757-899X/1262/1/012003;
- 1.11. A Niță , E Laudacescu , I N Ramadan, M G Petrescu, *An Example for Determining the Physical Parameters Used in DEM Modelling for the Interaction Process between Aggregates and Working Equipment*, IOP Conf. Series: Materials Science and Engineering 1262 (2022) 0120028 IOP Publishing, doi:10.1088/1757-899X/1262/1/012028;

- 1.12. Gheorghe A.I., Nae I., Additive manufacture. Applications in the petroleum and petrochemical industry, Romanian Journal of Petroleum & Gas Technology, nr. 3/2021;
- 1.13. Zisopol G.D., Nae I., Portoaca A.I., Ramadan I.N., *Theoretical-experimental research on the influence of FDM parameters on the mechanical characteristics of parts made of Polylactic acid*, Engineering, Technology & Applied Science Research, Vol. 11, No. 4, 2021, p. 7458-7463;
- 1.14. Zisopol G.D., Nae I., Portoaca A.I., Ramadan I.N., A Statistical Approach of the Flexural Strength of PLA and ABS 3D Printed Parts, Engineering, Technology & Applied Science Research, vol. 12, no. 2, pp. 8248–8252, Apr. 2022, <https://doi.org/10.48084/etasr.4739> ;
- 1.15. Zisopol G.D., Nae I., Portoaca A.I., Ramadan I.N., A Comparative Analysis of the Mechanical Properties of Annealed PLA, Engineering, Technology & Applied Science Research, vol. 12, no. 4, pp. 8978-8981, august 2022, <https://doi.org/10.48084/etasr.5123> ;
- 1.16. Zisopol G.D., Iacob D.V., Portoaca A.I., A *Theoretical-Experimental Study of the Influence of FDM Parameters on PLA Spur Gear Stiffness*, Engineering, Technology and Applied Science Research, 12(5):9329-9335, 2022;
- 1.17. Zisopol G.D., Nae I., Portoaca A.I., *Compression Behavior of FFF Printed Parts Obtained by Varying Layer Height and Infill Percentage*, Engineering, Technology & Applied Science Research 12(6):9747-9751, 2022, DOI: 10.48084/etasr.5488;

Domeniul de doctorat - INGINERIE CHIMICĂ

Articole publicate în reviste de specialitate necotate ISI

- E 2.1. Osama Sharafaddin, **Ion Onuțu**, An overview of oil based drill cuttings waste environmental effect and disposal treatments, Romanian Journal of Petroleum & Gas Technology VOL. II (LXXIII) No. 1/2021, p. 39-47 .
- E 2.2. Răzvan Nicolae, Mihaela Neagu, **Ion Onuțu**, Modeling and computer simulation of reverse osmosis system for water treatment, Romanian Journal of Petroleum & Gas Technology VOL. II (LXXIII) No. 1/2021, p. 39-47.

4.2. Participari ale CD si/sau ale studentilor doctoranzi la conferinte cu articole;

Participari ale conducatorilor de doctorat si/sau ale studentilor doctoranzi din domeniul Inginerie Mecanica la conferinte cu articole;

- 2.1. Iamandei, A., **Ripeanu, R.**, Stanciu, L., Popa, I. and Vasilescu, S. , *A finite element analysis of a laboratory drilling equipment*, **The 2021 World Congress on Advances in Structural Engineering and Mechanics (ASEM21)** GECE, Seoul, Korea, August 23-26, 2021, ASEM - Proceedings Print ISBN : 978-89-89693-39-0, Online ISBN : 978-89-89693-413-05530, ISSN : 2713-5659, http://www.i-asem.org/publication_conf/asem21/1.SM/3.%20W4C/4.%20SM1109_6807.pdf Koreaa;
- 2.2. Portoacă A.I., Nae I., Zisopol G.D., and Ramadan I.N., *Studies on the influence of FFF parameters on the tensile properties of samples made of ABS*, INNOVATIVE MANUFACTURING ENGINEERING & ENERGY INTERNATIONAL CONFERENCE, The 25th edition of IManEE 2021 International Conference October 21 – 23, 2021;
- 2.3. Burlacu, A. I.; Tănase M.; Ilincă, C.; Petrescu M. G., Optimizing the trajectory of aggregates in drying units from the asphalt plants, *The 10th International Conference on Advanced Concepts in Mechanical Engineering – ACME 2022*, Mechanical Engineering Faculty, in the „Gheorghe Asachi” Technical University of Iasi, Romania, 09-10 June 2022.
- 2.4. Dumitru, T.; Ilincă, C; Tănase, M., Petrescu M. G., Influence of technological parameters on the behaviour in operation of the asphalt milling equipment, *The 10th International Conference on Advanced Concepts in Mechanical Engineering – ACME 2022*, Mechanical Engineering Faculty, in the „Gheorghe Asachi” Technical University of Iasi, Romania, 09-10 June 2022.
- 2.5. A Niță , E Laudacescu , I N Ramadan, M G Petrescu, An Example for Determining the Physical Parameters Used in DEM Modelling for the Interaction Process between Aggregates and Working Equipment, *The 10th International Conference on Advanced Concepts in Mechanical Engineering – ACME 2022*, Mechanical Engineering Faculty, in the „Gheorghe Asachi” Technical University of Iasi, Romania, 09-10 June 2022.

INGINERIE CHIMICĂ

1. **Oprescu E.-E.**, Enascuta E.C., Vasilevici G., Banu N.D., Banu I., Preparation of magnetic biochar for nitrate removal from aqueous solutions, *Reaction Kinetics, Mechanisms and Catalysis*, <https://doi.org/10.1007/s11144-022-02263-1>, 2022, on line.
2. Vintila, A.C.N; Vlaicu, A; Radu, E; Ciltea-Udrescu, M.; Enascuta, E.C; Banu, I., **Oprescu, E.-E.**, Evaluation of ultrasound assisted extraction of bioactive compounds from microalgae, *Journal of Food Measurement and Characterization*, 2022, 16, 2518–2526.
3. **Oprescu, E.-E.**, Enascuta C.-E., Doukeh, R., Calin, C., Lavric, V., Characterizing and using a new bi-functional catalyst to sustainably synthesize methyl levulinate from biomass carbohydrates, *Renewable Energy*, 2021, 176, 651-662.
4. Doukeh, R., Bombos, D., Bombos, M., **Oprescu, E.-E.**, Dumitrascu, G., Vasilevici, G., Calin, C. Catalytic hydrotreating of bio-oil and evaluation of main noxious emissions of gaseous phase, *Scientific Reports*, 2021, 11(1), 6179.
5. Doukeh, R., Bombos, M., Bombos, D., Vasilevici, G., Radu, E., **Oprescu, E.-E.**, Pyrolysis of digestate from anaerobic digestion on tungsten oxide catalyst, *Reaction Kinetics, Mechanisms and Catalysis*, 2021, 132(2), 829-838.
6. Doukeh, R., Bombos, D., Bombos, M., **Oprescu, E.-E.**, Dumitrascu, G., Vasilevici, G., Calin, C. Catalytic hydrotreating of bio-oil and evaluation of main noxious emissions of gaseous phase, *Scientific Reports*, 2021, 11(1), 6179.

E. Participarea la conferințe specializate fără publicarea lucrărilor in extenso (selecție)

1. Vlaicu, A., Nicolae Vintila, A.C., Adrian, R., Enascuta, C.E., **Oprescu, E.-E.** Screening of antioxidant and pufa production in *Dunaliella Salina* by altering growth nutritional factors, *International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM*, 2021, 21(6.1), 123–130.

ARTICOLE / STUDII ÎN EXTENSO, PUBLICATE ÎN REVISTE DIN FLUXUL ȘTIINȚIFIC INTERNAȚIONAL PRINCIPAL;

E1. Articole în reviste cotate ISI

- E1.57. A. K. Usman., **D. L Cursaru**, Gh. Brănoiu, R., Somoghi, A. M. Manta, D. Matei, S. Mihai, A Modified Sol–Gel Synthesis of Anatase {001}-TiO₂/Au Hybrid Nanocomposites for Enhanced Photodegradation of Organic Contaminants, *Gels* 2022, 8, 728. <https://doi.org/10.3390/gels8110728>
- E1.56. Kanaan, R., Al-Aawar, E, Riachi, B., Nassreddine, S; **Cursaru, D.L.**, Chamoun, J. Biodiesel fuel from waste cooking oil: A cheaper and cleaner renewable energy source, *Revista de Chimie*, 2021, 72, 2, p. 185-198,
- E1.55. F. Enache, **D. Cursaru**, D.Dănulescu, The integration of Wet Scrubbing System and SO_x additive technologies to reduce the SO₂ emissions generated in FCCU, *Chemical Papers*, 2022, 76:6537–6549, <https://doi.org/10.1007/s11696-022-02335-5>.
- E1.54. F. Enache, D.Dănulescu, I. Bolocan, **D. Cursaru**, The reduction of FCCU afterburning through process optimization and regeneration revamping, *Chemical Industry and Chemical Engineering Quarterly*, 28 (2) 115–126 (2022), 10.2298/CICEQ210430023E, 2021
- E1.53. N. Giagkas, I. F. Micu, S. Vizireanu, N. Vasile, B.I. Biță, V. Sătulu, S. Mihai, A.M. Manta, **Cursaru, D.L.**, Tribological properties of ZrN coatings deposited by magnetron sputtering in reactive and non-reactive mode, *Digest Journal of Nanomaterials and Biostructures*, vol. 16 (2), 2021, 659-667.
- E1.52. I. F. Micu, **D. L. Cursaru**, D. Matei, A.M. Manta, I. Ramadan, Study regarding enhancement of antiwear properties of a grease, by using carbon nanomaterials based additives, *Digest Journal of Nanomaterials and Biostructures*, vol. 16 (2), 2021, 509-514.

F) PUBLICAȚII ÎN EXTENSO, APĂRUTE ÎN LUCRĂRI ALE PRINCIPALELOR CONFERINȚE INTERNAȚIONALE DE SPECIALITATE

F39. Mihai S., **Cursaru D.L.**, Usman A.K., (2022) A Modified Sol-Gel Synthesis of Anatase TiO₂-Au Hybrid Nanosheets Along {001} Orientation For Enhanced Photocatalytic Degradation of Ibuprofen, 13th International Symposium of the Romanian Catalysis Society, RomCat 2022, 22-24 iunie, Băile Govora, Romania

Articole, comunicări științifice – domeniul de doctorat MINE, PETROL ȘI GAZE

- **Articole in reviste indexate internațional (baze de date BDI) ori recunoscute CNCSIS tip B+**
- B1.** Alexandra Damascan, Mihai Albuiescu, Timur Chis, **The Mathematical Modeling of the Flow Variation of Natural Gas Extraction Wells Depending on the Diameter of the Mixing Pipe**, Engineering and Technology Journal. Vol.7, Issue 9, 2022, pp. 1477-1482, [HTTP://EVERANT.ORG/INDEX.PHP/ETJ/ARTICLE/VIEW/701](http://EVERANT.ORG/INDEX.PHP/ETJ/ARTICLE/VIEW/701).
- B2.** Alexandra Cătălina Damascan, Mihai Albuiescu, Doru Stoianovici, **The influence of the perforation density and damaged zone permeability on a gas well production**, Romanian Journal of Petroleum & Gas Technology VOL. III (LXXIV) • No. 2/2022, [HTTP://doi.org/10.51865/JPGT.2022.02.07](http://doi.org/10.51865/JPGT.2022.02.07),
- B3.** Mhanna A., Halawi M., El Dilbani A., Mihai Albuiescu, Lazăr Avram, **The impact of Offshore Environment on Drilling Positioning and Operation during Drilling the First Exploratory Well in Lebanon**, Petroleum and Petrochemical Engineering Journal, ISSN 2578-4846,
- B 1. Avram L.**, *Drilling on Offshore Platforms: Quo Vadis?*, ENERGY INDUSTRY REVIEW, February 2021, Year 4, Number 32, pg. 50-54.
- B 2.** Olar, L.H., Halafawi, M., **Avram, L.**, *Investigating Dynamic Analysis of Well Performance Producing from Turdaș Structure in Turdaș Gas Field Using a Production Logging Tool*, Petroleum and Coal 63(1):278-283, February 2021.
- B 3.** Braniou, Ghe. **Avram, L.**, Ghetiu, I., Suditu, S., Pelin, Ș., *Deciphering the reservoir rocks lithology by mineralogical investigations techniques for an oilfield in south-west Romania*, 10th international Conference on Manufacturing Science and Education (mse 2021), Sibiu, Romania, June 2-4, 2021 (<https://doi.org/10.1051/mateconf/202134309013>).
- B 4.** Halafawi, M., **Sharafaddin, O.** Fadhil A, **Avram, L.**, *Pipe Integrity Analysis and Evaluation using Multi Finger Imaging Tool (MIT) -Field Case Studies*, Petroleum and Coal 63(2), May 2021, pg. 455-466.
- B 5. Avram, L.** Lupu, D., *The energy potential of natural gas fields from Transylvanian basin*, 9th edition of International Multidisciplinary Symposium "UNIVERSITARIA SIMPRO 2021": Quality and Innovation in Education, Research and Industry – the Success Triangle for a Sustainable Economic, Social and Environmental Development, Universitatea Petroșani, 27 – 28 of May, 2021.
- B 6.** Mhanna. A., Halafawi, M., Dilbani, A.E., Albuiescu, M, **Avram, L.**, *The impact of offshore environment on drillship positioning and operations during drilling the first exploratory well in Lebanon*, Petroleum and Petrochemical Engineering Journal (PPEJ), ISSN: 2578, IF: 1.8686, september, 2021.
- B 7.** Stan, M., Antonescu, N.N., **Avram, L.**, *Beam Pumping Systems by Vibration Analysis in Operating (Analiza vibrațiilor în exploatarea unităților de pompare cu balansier)*, Simpozionul Român al Energiei (SIREN), 6-8 septembrie, București, 2021 (on line).
- B 8.** Halafawi, M., **Avram, L.** Mhanna. A., Dilbani, A.E., Ivan, R., "A new model for predicting drilling parameters using data mining and k-nn algorithm: case study of the first exploratory and offshore well in Lebanon" (*Un nou model pentru prezicerea parametrilor de foraj folosind extragerea datelor și algoritmul k-nn: studiu de caz al primului sondei exploratorii și offshore din Liban*), EMERG, Issue 3/2021, ISSN 2668-7003, ISSN-L 2457-5011, octombrie, 2021.
- B 9.** Tudorache, V., Stan, M., **Avram, L.**, Antonescu, N.N., *Elements for the preventing and combating corrosion to cylindrical metal tank for destined storage of liquid hydrocarbons*, EMERG, Vol. VII, Issue 3/2021, ISSN 2668-7003, ISSN-L 2457-5011, january, 2021.
- B 10. Avram, L.** Lupu, D.A. "The influence of technological problems of the wells on the energy potential of the natural gas fields" (*Influența dificultăților tehnologice ale sondelor asupra potențialului energetic al zăcămintelor de gaze natural*), EMERG, Issue 1/2022, ISSN 2668-7003, ISSN-L 2457-5011, februarie, 2022.
- B 11.** Ivan, R.M., Halafawi, M., **Avram, L.**, *Statistical Analysis and Benchmarking for HPHT Welles*, International Journal of Innovations in Engineering and Technology (IJJET), Volume 21, Issue 2, 2022 – <http://dx.doi.org/10.21172/ijjet.213.06>.
- B 12.** Ivan, R.M., Halafawi, M., **Avram, L.**, *Offset Well Data Analysis and Thermal Simulations Improve the Performance in Drilling HPHT Wells*, International Journal of Innovations in Engineering and Technology (IJJET), Volume 21, Issue 2, 2022 – <http://dx.doi.org/10.21172/ijjet.213.06>.

- B 13.** Ivan, R.M., Halafawi, M., **Avram, L.**, *A Simulation Study of the Drilling Jar Placement in Highly Deviated Wells*, Petroleum and Coal Journal, scrisoare de acceptare nr. 167/10.02.2022.
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Brevete/cereri de brevet – domeniul de doctorat INGINERIE CHIMICĂ

1. Velea S., Bombos M., Doukeh R., Vasilievici G., Bombos D., **Oprescu E.-E.**, Calin C., Catalizator pe bază de Mo și procedeu de piroliză lentă a biomasei pe acest catalizator, Osim./29.11.2021

4.4. Contracte la care au fost director/membru CD si/sau la care au fost membri doctoranzii (nr. contract/colectiv/denumire/beneficiar/valoare);

Contracte ale conducatorilor de doctorat si/sau la care au fost membri doctoranzii (nr. contract/colectiv/denumire/beneficiar/valoare) – domeniul de doctorat INGINERIE MECANICĂ;

- 4.1. Contract Nr. 301/ 13.01.2022, cu temele „Proiectare Constructivă - Desene de Produs” și „Elaborare, Modificare, Anulare și Dezvoltare Baze de Date TIMKEN”, Colectiv: șef. lucr. dr. ing. Ibrahim Ramadan, prov. univ. habil dr. ing. Minescu Mihail, asist. univ. drd. ing. Alexandra Portoacă Beneficiar : The Timken Company, Ploiești Valoare: 250 000 RON;
- 4.2. Contract nr. 107379/2019 cu titlul "Sistem hibrid de eficientizare energetică folosind energia geotermală, aplicat în campusul UPG Ploiești" Colectiv: conf. univ. dr. ing. Brănoiu Gheorghe, prov. univ. habil dr. ing. Petrescu Marius, conf. univ. dr. ing. Alin Diniță, șef. lucr. dr. ing. Maria Tănase, prov. univ. habil dr. ing. Albulescu Mihail, prov. univ. habil dr. ing. Mihail Minescu, asist. univ. drd. ing. Alexandra Portoacă, Beneficiar : Universitatea Petrol-Gaze din Ploiești Valoare: 1 535 000 Euro;
- 4.3. Contract de cercetare nr.1165/10.02.2022, Analize numerice și experimentale privind creșterea durabilității supapelor de siguranță utilizate în industrie, Colectiv: Rîpeanu, R.G. (director contract) Dinita A., Patirnac I, Ramadan I.N., Beneficiar Termoklima SRL Buzău, 2022, valoare încasată fără TVA 40000 RON;
- 4.4. Badea M., Petrescu M.G., ș.a., *PROGRAME DE CONVERSIE PROFESIONALĂ – proiect ROSE*, 12/16.12.2022;
- 4.5. Petrescu M.G., ș.a., *Execuție teste colaps țevi*, Contract prestări servicii, 3163/07.04.2017, beneficiar ArcelorMital Tubular products Roman SA.

Contracte ale conducătorilor de doctorat si/sau la care au fost membri doctoranzii (nr. contract/colectiv/denumire/beneficiar/valoare) – domeniul de doctorat INGINERIE CHIMICĂ

1. Director proiect "Value added products from microalgae biomass applying biorefinery concepts" (2020-2022 - 181 TE /2020), valoare proiect 431900 lei.

PROIECTE DE CERCETARE/DEZVOLTARE PE BAZĂ DE CONTRACT SAU GRANT

1. **CNFIS FDI 2020-0225** Internaționalizarea învățământului superior românesc, start-up pentru dezvoltarea și promovarea programelor de studii ale universității Petrol-Gaze din Ploiești- **director proiect**

2. **TPP-POR 885/2017-2023** Modernizare, dotare și recompartimentare interioară la UPG Ploiești – corpul I, cod SMIS 125260–membru prof.Diana Cursaru

Contracte ale conducătorilor de doctorat si/sau la care au fost membri doctoranzii (nr. contract/colectiv/denumire/beneficiar/valoare) – domeniul de doctorat MINE, PETROL ȘI GAZE

1. **Contract 107379/2019:** "Hybrid system for energetic efficiency using geothermal energy, applied in UPG campus in Ploiesti". Responsabil contract: Conf. Dr. ing. Gheorghe Brănoiu. Expet tehnic: Mihai Albuлесcu, Lazăr Avram; Expet tehnic studio geo, studio gospodărirea apelor și elaborare expertiza foraje: **Timur Chis**.

4.5. Mobilitati Erasmus ale CD sau ale doctoranzilor: -

4.6. Alte realizari pe care le considerati relevante (carti etc.).

Alte realizari pe care le considerati relevante (carti etc.) – domeniul de doctorat INGINERIE MECANICĂ.

- 6.1. Marius Gabriel Petrescu, Costin Ilincă, Maria Tănase, Hailong Fu, *Management of Industrial Technologies*, in [Mechanical and Industrial Engineering](#) pp 179-210, Springer, 2022;
- 6.2. Marius Gabriel Petrescu, Costin Ilincă, Maria Tănase, *Reliability of Manufacturing Technologies*, in *Innovation and Sustainable Manufacturing*, 29-64 , Elsevier, 2022;
- 6.3. M. Panait; E. Hysa; M. G. Petrescu; H. Fu, *Universities – Players in the Race for Sustainable Development*, in *Higher Education for Sustainable Development Goals*, 23-42, River Publishers, 2022;
- 6.4. MG Petrescu, *Foreword for the book New Perspectives on Using Accreditation to Improve Higher Education*, Eglantina Hysa, Russell Fo, DOI: 10.4018/978-1-6684-5195-3, xii – xiii;
- 6.5. Nae I., *Metodologia întocmirii proiectelor*, Editura Universității Petrol-Gaze din Ploiești, Ploiești, ISBN 978-973-719-823-5, 2021, nr pag. 171;
- 6.6. 6.2. Nae I., Portoacă A, I., *Managementul inovării*, Editura Universității Petrol-Gaze din Ploiești, ISBN 978-973-860-0, Ploiești, 2022, 208 p.

INGINERIE CHIMICĂ -

Alte realizari pe care le considerati relevante (carti etc.) – domeniul de doctorat MINE, PETROL ȘI GAZE

1. *Mihai Albuлесcu, Timur Chis, Renata Radulescu, Procese hidrodinamice-Îndrumar de lucrări de laborator, aplicații numerice*, Editura Pim, 2021, 140 pagini, ISBN 978-606-13-6074-1.

2. Popescu, C. and Avram, L. (2021), *Good Practices for online extended assessment in Project Management*. In Babo R., Dey N., Ashour A.S. (eds.), *Workgroups eAssesment: Planning, Implementing and Analysing Frameworks* (chapter 5, pp.117-142), Intelligent Systems Reference Library 199, Springer Nature Singapore Pte Ltd., https://doi.org/10.1007/978-981-15-9908-8_5, 2021.

3. *Timur Chis, Automatizarea proceselor petrochimice, (Îndrumar de laborator)* Editura Pim, 2022, 117 pagini, ISBN 978-606-13-6808-2.

4. *Timur Chis, Modelarea proceselor tehnologice îndrumar de laborator*, Editura Pim, 2022, 116 pagini, , ISBN 978-606-13-6848-8.
5. *Timur Chis, Renata Radulescu- Prelucrarea și transportul gazelor*, Editura Universitatii Petrol-Gaze, 2021, 302 pagini, ISBN 9878-973-719-822-8.
6. *Timur Chis, Renata Radulescu, Depozitarea fluidelor-Note de curs*, Editura Pim, 2021, 237 pagini, ISBN 978-606-13-6349-0.
7. *Mihai Albulescu, Timur Chis, Renata Radulescu, Procese hidrodinamice-Îndrumar de lucrări de laborator, aplicații numerice*, Editura Pim, 2021, 140 pagini, ISBN 978-606-13-6074-1.
8. **Stoicescu, M.**, Panaitescu, C., Stoianovici D., **2021**, *Evaluarea zăcămintelor de ape subterane*, Editura Universității Petrol – Gaze din Ploiești, ISBN 978-973-719-830-3; 540 pg.
9. **Stoicescu M.**, Panaitescu C., **2022**, *Curgerea lichidelor prin canale*, ISBN 978-973-719-850-1, 364 pg., Editura Universității Petrol-Gaze din Ploiești
10. Panaitescu, C., **Stoicescu M.**, **2022**, *Tratarea deșeurilor. Aspecte practice*, ISBN 978-973-719-851-8, 101 pg., Editura Universității Petrol-Gaze din Ploiești

5. **Evaluare satisfacție clienți - Raport xl (anexă)**

6. Realizare de proceduri/metodologii (nr de sedinte CSD/CSUD)

- METODOLOGIA DE ORGANIZARE ȘI DESFĂȘURARE A CONCURSULUI DE ADMITERE LA STUDII UNIVERSITARE DE DOCTORAT 2021 Cod: R 04.08
- METODOLOGIA DE ORGANIZARE ȘI DESFĂȘURARE A CONCURSULUI DE ADMITERE LA STUDII UNIVERSITARE DE DOCTORAT 2022 Cod: R 04.08

7. Raport de monitorizare calitate (daca a fost)

Raport audit intern nr. 32/02.06.2021

8. Concluzii si propuneri de masuri

Domeniul de doctorat INGINERIE MECANICĂ: -

Domeniul de doctorat MINE, PETROL ȘI GAZE: -

Domeniul de doctorat INGINERIA SISTEMELOR: -

Domeniul de doctorat INGINERIE CHIMICĂ: -

TEZE DE DOCTORAT SUSȚINUTE ÎN PERIOADA 01.10.2021 – 30.09.2022

DOMENIUL DE DOCTORAT	CONDUCĂTOR DE DOCTORAT	DATA SUSȚINERII	DOCTORAND
INGINERIE MECANICĂ	RÎPEANU RĂZVAN GEORGE	30.09.2022	DUDU I. CRISTIAN
INGINERIE MECANICĂ	RÎPEANU RĂZVAN GEORGE	29.09.2022	PETRE S. CRISTIAN-MIHAI
MINE, PETROL ȘI GAZE	AVRAM LAZĂR	23.09.2022	DINU F. PAUL OCTAVIAN
MINE, PETROL ȘI GAZE	CHIȘ TIMUR-VASILE	22.09.2022	GEORGESCU (JUGĂSTREANU) Ș.C. CRISTINA VENERA MARIA
INGINERIE CHIMICĂ	CURSARU DIANA-LUCIANA	16.09.2022	ENACHE C. FLORIN
MINE, PETROL ȘI GAZE	DINU FLORINEL	15.09.2022	VLĂDESCU I. ROBERT-GHEORGHE
INGINERIE MECANICĂ	RÎPEANU RĂZVAN GEORGE	09.09.2022	RI JONG HYOK
INGINERIE MECANICĂ	RÎPEANU RĂZVAN GEORGE	26.05.2022	BOGDAN (BOGDAN-ROTH) S. MIHAI
MINE, PETROL ȘI GAZE	AVRAM LAZĂR	10.03.2022	IVAN E. RADU-MIHAI
INGINERIE MECANICĂ	RÎPEANU RĂZVAN GEORGE	16.02.2022	LOSPĂ A. ADRIAN-MARIAN

Obținerea autorizării/ acreditării/ reacreditării programelor de studii propuse spre evaluare.

Evaluare programe de studii

Documentații depuse pentru acreditare /

1. Școala doctorală / **menținerea acreditării / 25.11.2021**
2. Domeniul de doctorat – Mine, petrol și gaze / **menținerea acreditării / 25.11.2021**
3. Domeniul de doctorat – Inginerie mecanică / **menținerea acreditării / 25.11.2021**
4. Domeniul de doctorat – Ingineria sistemelor / **menținerea acreditării / 25.11.2021**
5. Domeniul de doctorat – Inginerie chimică / **acreditare condiționată / 25.11.2021**

Creșterea numărului de conducători de doctorat abilitați

- OPRESCU EMILIA ELENA – domeniul INGINERIE CHIMICĂ – OME nr. 6324 din 29.11.2022

Angajarea pe durată determinată a doctoranzilor care doresc să opteze pentru cariera universitară.

Realizarea a 2 angajări

1. Drd.ing. **GHEORGHE (PORTOACĂ) N. ALEXANDRA-ILEANA**- domeniul de doctorat INGINERIE MECANICĂ
2. Drd.ing. **STOICA I. DORU-BOGDAN** – domeniul de doctorat MINE, PETROL ȘI GAZE

Asigurarea de resurse financiare suplimentare prin atragere de doctoranzi plătitori taxe.

Domeniul de doctorat MINE, PETROL ȘI GAZE = 4

Domeniul de doctorat INGINERIE MECANICĂ = 3

Domeniul de doctorat INGINERIA SISTEMELOR = 3

Eficacitatea acțiunilor întreprinse pentru tratarea riscurilor și oportunităților

Cadrele didactice titulare în Universitatea Petrol-Gaze din Ploiești sunt scutite de plata taxei de abilitare. Granturile doctorale sunt alocate de minister.

Studentii doctoranzi înmatriculați la buget beneficiază de achiziții anuale în valoare de 7000 lei, de plata taxelor de participare la conferințe, de publicare a articolelor.

De asemenea, studenții-doctoranzi se pot angaja în universitate pe post de asistent pe durata determinată, beneficiază de plata burse.

DIRECTOR ȘCOALĂ DOCTORALĂ,

Prof.univ.habil.dr.ing. ALBULESCU Mihai Adrian