UNIVERSITATEA PETROL - GAZE DIN PLOIEŞTI
FACULTATEA INGINERIE MECANICĂ ŞI ELECTRICĂ
DEPARTAMENTUL INGINERIE MECANICĂ
Domeniul Fundamental: **ŞTIINŢE INGINEREŞTI**
Domeniul de doctorat: **INGINERIE MECANICĂ**
Comisia CNATDCU 17: *INGINERIE MECANICĂ, MECATRONICĂ, ROBOTICĂ, INDUSTRIE DE APĂRARE ŞI ARMAMENT STANDARDE MINIMALE NECESARE ŞI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN INVAŢĂMÂNTUL SUPERIOR ŞI A GRADELOR PROFESIONALE DE CERCETARE – DEZVOLTARE*

Subsemnatul **Alin DINIŢĂ**, conferenţiar univ. dr. ing. la Departamentul Inginerie Mecanică, facultatea IME – UPG Ploieşti, declar pe propria răspundere că îndeplinesc condiţiile minimale prevăzute in Anexa nr. 17, pentru atestarea pe postul de profesor universitar/abilitare, conform Fişei de verificare de mai jos.

FIŞA DE VERIFICARE – Conf. univ. dr. ing. Alin DINIŢĂ

1. Studiile de doctorat/Statutul de student - doctorand

Nr. crt.	Instituţia organizatoare de doctorat	Domeniul	Perioada	Titlul ştiinţific acordat
1.	Universitatea Petrol-Gaze din Ploieşti	Inginerie Mecanică	2006-2011	Doctor conform 604/10.01.2012

2. Îndeplinirea standardelor minimale (conform Anexei 17 – Ordin nr. 6129/2016 din 20 decembrie 2016)

Nr. crt.	Domeniul activitatilor	Rezultatele activitatilor	Subcategorii			Indicatori realizaţi	Conditii minimale si obligatorii Profesor
1	Activitate didactica si profesionala - DID (A1)	Manuale suport de curs (conform fisei disciplinei de concurs)	A1.1	Format tiparit/electronic (min. 100 pag.)	Coordonator/ prim autor	**N1 = 6** N1.1 = **1**	**2** **1**
					Co-autor	N1.2 = **3**	**0**
				Format electronic disponibil pe Platforma universitatii /departamentului (autor)		N1.3 = **2**	**1**
		Material didactic/Dezvoltare laboratoare, aplicatii	A1.2	Standuri laborator (constructie modernizari) certificate de directorul de departament		**N2 = 14** N2.1 = **9**	**4** **2**
				Indrumar laborator/carte aplicatii format tiparit sau electronic (autor, co-autor)		N2.2 = **2**	**-**
				Aplicatii informatice educationale		N2.3 = **3**	**-**
2	Activitate de cercetare stiintifica, dezvoltare tehnologica si inovare - CDI (A2)	Articole si publicatii stiintifice indexate Web of Science Thomson Reuters (WOS) [2], unde n=nr.de autori si FI este factorul de impact [3]	A2.1	Autor corespondent/ prim autor	n ≤3	**P1+P2 = 71,2** P1= 70,4 P1.1 = 13,8	**10** **6** **-**
					n ≥4	P1.2 = 35	**-**
				Co-autor	n ≤3	P1.3 = 1,6	**-**
					n ≥4	P1.4 = 20	**-**
		Articole si publicatii stiintifice BDI [4] neincluse la A2.1	A2.2	Autor corespondent/ prim autor		**N3 = 18** N3.1 = **7**	**10** **5**
				Co-autor		N3.2 = 11	**-**
		Brevete de inventii indexate [5]	A2.3	Internationale indexate in Web of Science-Derwent Innovation	n ≤3	P2 = **0,8** P2.1 = **0,8**	**-** **-**
					n ≥4		
				Nationale indexate OSIM	n ≤3	P2.2 = 0	**-**
					n ≥4		
		Produse,tehnologii, platforme si servicii inovative (validate conform procedurilor specific unitatilor de invatamant superior sau de cercetare)	A2.4	Coordonator/prim autor		**N4 = 18** N4.1 = 2	**2** **-**
				Co-autor		N4.2 = 5	**-**
		Monografii/carti de specialitate [2], format tiparit/electronic (min.100 pag.)	A2.5	Coordonator/prim autor		N4.3 = 4	**1**
				Co-autor		N4.4 = 4	**-**
3	Recunoastere şi impactul activitatii - RIA (A3)	Atragere resurse financiare prin granturi/proiecte/contracte terti	A3.1	Director sau responsabil partener la grant/ proiect castigat prin competitie nationala sau internationala		S = S1 + S2 **S = 208** S1 = 119	**50**
				Membru in echipa la grant/proiect castigat prin competitie nationala sau internationala, proiecte /contracte terti		S2 = 89	**-**
		Prezentarea/Diseminarea rezultatelor: prezenta la manifestari stiintifice în calitate de autor/coautor de lucrari, profesor invitat	A3.2	Congrese/conferinte/workshopuri inernationale, profesor invitat la universitati/institute din strainatate		N5 = **14**	**10**
		Citari in publicatii BDI [5] (se exclud autocitarile)	A3.3	C1 = numarul de citari SFI = suma factorilor de impact al publicatiilor WOS in care apar citarile		C = C1+ SFI **C = 1158**	**25**

JUSTIFICARE
A INDICATORILOR

1. Activitate didactică și profesională - DID (A1)

A1.1. Manuale suport de curs - Format tiparit/electronic - Coordonator/prim autor

Nr. crt.	*Carți publicate (autori,denumire)*	*Nr. Pag.*	*Indicator*
1.	**Dinita A.**, *Știința și Ingineria Materialelor*, Editura Universității Petrol-Gaze din Ploiești, 250 pg., ISBN 978-973-719-809-9, 2020	250	N1.1= 1
		Total indicator N1.1 =	**1**

A1.1. Manuale suport de curs - Format tiparit/electronic - Co-autor

Nr. crt.	*Carți publicate (denumire)*	*Nr. Pag.*	*Indicator*
1.	Ilinca C.; **Diniță A.**; Ramadan I.; Tănase M., PROCESS PIPES ASSESSMENT: Evaluation of process pipes subjected to internal pressure and temperature through numerical and experimental analysis, Lambert. Academic Publishing ***2022***, ISBN-10: 6205513196, ISBN-13: 978-6205513194, 148 pag.	148	N1.2 = 1
2.	Rîpeanu, R.G., Tudor, I., Zecheru, Gh., Trifan, C., Drumeanu, A.C., **Diniță, A.**, *Ingineria Coroziunii și Managementul Riscului Rețelelor Metalice de Distribuție a Gazelor Naturale*, Editura KARTA-GRAPHIC Ploieşti, (cod CNCSIS 340), 245 pg. (50 pg.), ISBN 978-606-8312-94-1, Ploieşti, 2013	245	N1.2 = 1
3.	Petrică Cană, Razvan George Ripeanu, Iulian Pătîrnac, **Diniță A.**, and Maria Tănase, Investigating the Impact of Operating Conditions on Relief Pressure Valve Flow through CFD and Statistical Analysis, pg.23-52, in CFD Applications in Energy Engineering Research and Simulation—Volume I, Editura MDPI AG Basel, Switzerland, Editor Alfredo Iranzo University of Sevilla, 502 pg., ISBN 978-3-7258-2315-4 (Hbk), ISBN 978-3-7258-2316-1 (PDF), https://doi.org/10.3390/books978-3-7258-2316-1, 2024	502	N1.2 = 1
		Total indicator N1.2 =	**3**

A1.1. Manuale suport de curs - Format electronic disponibil pe Platforma universității/departamentului (autor)

Nr. crt.	*Carți publicate (denumire)*	*Nr. pag*	*Indicatori*
1.	**Diniță A.,** Tehnologia construcției și mentenanța utilajelor petroliere și petrochimice – suport curs electronic, *Platforma e-learning a Universității Petrol-Gaze din Ploiești, https://ime.upg-elearning.ro/, 2020*	450	N1.3 = 1
2.	**Diniță A.,** Tehnologia construcției și mentenanța utilajului de transport și depozitare – suport curs electronic, *Platforma e-learning a Universității Petrol-Gaze din Ploiești, https://ime.upg-elearning.ro/, 2020*	450	N1.3 = 1
		Total indicator N1.3 =	**2**

Total punctaj indicator N1 = N1.1 + N1.2 + N1.3; N1 = 1 + 3 + 2; N1 = 6

A1.2 Material didactic/Dezvoltare laboratoare, aplicații - Standuri laborator (construcție/modernizări)

Nr. crt.	*Dezvoltare standuri laborator pentru activități didactice/cercetare*	*Indicatori*
1.	**Diniță A.,** Săvulescu A., Ianache C., Neacșa A., Petrescu M.G., Moise Ga., Panaitescu C., Baciu A., Mihai S., Bulearcă C., Borcea C., Bădoiu G., Mihai E., Practică integrată pentru corelarea activităților multidisciplinare aplicate într-un proces de producție – sala EV4 (CNFIS-FDI-2020-0087), 2020	N2.1 = 1
2.	Popa I., Moise G., Constantinescu Z., Petrescu M. G., **Diniță A.**, Vlădoiu M., Laudacescu E.V., Neacșa A., Mihai S., Bulearcă C., Borcea C.R., Bădoiu G.A., Mihai E., Bază de practică pentru dezvoltarea creativității și inovării în demersul educațional multidisciplinar - informatică și inginerie mecanică - Sala E.D.4 (CNFIS-FDI-2019-0048), 2019	N2.1 = 1

3.	Neacșa A., Mihai S., Petrescu M. G., **Diniță A.**, Laudacescu E.V., Ilie B., Naim R.I., Bulearcă C., Borcea C.R., Bădoiu G.A., Spațiu multimedia cu destinație multiplă - Sala E.D.10 (CNFIS-FDI-2019-0009), 2019	N2.1 = 1
4.	Moise G., Constantinescu Z., Petrescu M. G., **Diniță A.**, Vlădoiu M., Neacșa A., Mihai S., Bulearcă C., Borcea C.R., Bădoiu G.A., Mihai E., UPG-HUB4.0 - Hub pentru cercetare, dezvoltare și inovare multidisciplinară în contextul revoluției industriale 4.0. - Sala EP10 (CNFIS-FDI-2019-0066), 2019	N2.1 = 1
5.	Petrescu M. G., Mihai S., Laudacescu E.V., Neacșa A., **Diniță A.**, Zanfir F., Ștefan A., Naim R.I., Bulearcă C., Borcea C.R., Bădoiu G.A., Infrastructură de informare şi comunicare pentru îmbunătățirea proceselor decizionale și de guvernanță la nivelul universității, - Sala A.P.10 (CNFIS-FDI-2017-0037), 2017	N2.1 = 1
6.	Stand pentru testarea stării tehnice a tubulaturii conductelor utilizând metoda Guided-Wave, 2016	N2.1 = 1
7.	Ilinca Costin Nicolae, **Diniță A.**, Ramadan Ibrahim, Analiza Avansată a Flexibilității și Stării de Tensiune a Conductelor din Oțel: O Abordare Experimentală prin Tensiometrie Electrică Rezistivă asupra Elementelor Critice de Construcție. Stand de laborator - constructie, 2023	N2.1 = 1
8.	**Diniță A.**, Ilinca Costin Nicolae, Ramadan Ibrahim, Evaluarea stării de tensiune și deformații în principalele zone de joncțiune aferente vaselor sub presiune montate în poziție orizontală (analiza joncțiunilor capac-manta, racorduri manta). Stand de laborator - modernizare, 2022	N2.1 = 1
9.	Ilinca Costin Nicolae, Ramadan Ibrahim, **Diniță A.**, Ilie Bogdan, Analiza experimentală comparativă a tensiunilor mecanice din coturi, curbe trase și coturi realizate din segmente de țeavă sudate. Stand de laborator - modernizare, 2021-2022	N2.1 = 1
	Total indicator N2.1 =	**9**

A1.2 Material didactic/Dezvoltare laboratoare, aplicații - Îndrumar laborator/carte aplicații format tipărit sau electronic (autor, co-autor)

Nr. crt.	***Carti publicate (denumire)***	***Nr. pag***	***Indicatori***
1.	Neacșu M., Laudacescu E., **Diniță A**., Ingineria şi Managementul Mentenanţei – Îndrumar de laborator, Editura Universităţii Petrol-Gaze din Ploieşti (CNCSIS), 2012, ISBN 978-973-719-471-8	106	N2.2 = 1
2.	Lambrescu, I., Neacșa A., **Diniță A.**, Stoica D.B., Infografică - Îndrumar de laborator, Editura Universităţii Petrol-Gaze din Ploiești, ISBN 978-973-719-316-2, Ploiești, 2009	230	N2.2 = 1
		Total indicator N2.2 =	**2**

A1.2 Material didactic/Dezvoltare laboratoare, aplicații - Aplicație informatică educațională

Nr. crt.	**Aplicație informatică educațională**	***Indicatori***
1.	Petrescu M. G., Lambrescu I., Neacșa A., Nae I., Stoica D.B., **Diniță A.**, Platforma moodle ″SIGMA - Curs″ - im.upg-Ploiești.ro/moodle - POSDRU 55585, 2010	N2.3 = 1
2.	Petrescu M. G., Lambrescu I., Neacșa A., Nae I., Stoica D.B., **Diniță A.**, ″Tehnologie informatică pentru promovarea imaginii şi gestionarea informaţiilor de la absolvenţi şi agenţii economici, în scopul adaptării politicii manageriale la cerinţele mediului socio-economic″ - www.tipigi.upg-Ploiești.ro, POS CCE 759, 2014	N2.3 = 1
3.	Neacșa A., Petrescu M. G., **Diniță A.**, Laudacescu E.V., Ilie B., Naim R.I., Platformă interactiveă on-line de comunicare www.e-parteneriat.ro pentru facilitarea relaționării, în timp real, între potențialii studenți, universitate și mediul de afaceri, în scopul promovării transferurilor cognitive, tehnologice și de inovații - CNFIS-FDI-2019-0009, 2019	N2.3 = 1
	Total indicator N2.3 =	**3**

Total punctaj indicator N2 = N2.1 + N2.2 + N2.3; N2 = 9 + 2 + 3; N2 = 14

2. Activitate de cercetare științifică, dezvoltare tehnologică și inovare-CDI (A2)

A2.1 Articole si publicatii stiintifice indexate Web of Science Thomson Reuters (WOS), unde n=nr.de autori si FI este factorul de impact - autor corespondent/prim autor, n ≤ 3

Nr. crt.	Denumire articol	Factor de Impact FI	Realizat P1.1 = 2(0,2+FI), n ≤ 3
1.	**Diniţă, A**.; Ramadan, I.; Tănase, M. Experimental and Numerical Study Regarding the Behavior of HDPE Pipes under Quasi-Static Point Loads. *Journal of Pipeline Systems Engineering and Practice* **2023**, *14*, 04022072, doi:10.1061/JPSEA2.PSENG-1319.	1,7	3,8
2.	I. Lambrescu, **A. Dinita**, M. Minescu, About the Influence of the Corrosion Defect Geometry on Repaired Pipes Stress Distribution, Journal of Pressure Vessel Technology 143 (1), 2020 – autor corespondent	1,4	3,2
3	Neacsa, A.; **Dinita, A.;** Iacob, Ștefan Can the Dimensional Optimisation of 3D FDM-Manufactured Parts Be a Solution for a Correct Design? *Materials* **2025**, *18*, 29, doi:10.3390/ma18020408.	3,2	6,8
		Total indicator P1.1 =	**13,8**

A2.1 Articole si publicatii stiintifice indexate Web of Science Thomson Reuters (WOS), unde n=nr.de autori si FI este factorul de impact - autor corespondent/prim autor, n ≥ 4

Nr. crt.	Denumire articol	Factor de Impact FI	Realizat P1.2 = 2·3·(0,2+FI)/n, n ≥ 4
prim autor			
1.	**Diniță, A.;** Rosca, C.-M.; Stancu, A.; Popescu, C. Distributed IoT-Based Predictive Maintenance Framework for Solar Panels Using Cloud Machine Learning in Industry 4.0. *Sustainability* **2025**, *17*, 9412, doi:10.3390/su17219412.	3,3	5,2
2.	**Dinita, A.;** Ripeanu, R.G.; Ilinca, C.; Cursaru, D.; Matei, D.; Ramadan, I.; Tanase, M.; Portoaca, A. Advancements in Fiber-Reinforced Polymer Composites: A Comprehensive Analysis. *Polymers* **2023**, *16*, 2, doi:10.3390/polym16010002.	4,9	3,8
3.	**Dinita, A.;** Neacsa, A.; Portoaca, A.; Tanase, M.; Ilinca, C.; Ramadan, I. Additive Manufacturing Post-Processing Treatments, a Review with Emphasis on Mechanical Characteristics. *Materials* **2023**, *16*, 91, doi:10.3390/ma16134610.	3.2	3,4
autor corespondent			
4.	Neacsa, A.; Ramadan, I.; **Dinita, A.;** Iacob, Ștefan; Ilinca, C.; Laudacescu, E. Can Non-Phase-Transformation Heat Treatments Improve the Strength Properties of Materials? Materials 2025, 18, doi:10.3390/ma18071599.	3,2	3,4
5.	Cană, P.; Ripeanu, R.G.; **Diniță, A.**; Tănase, M.; Portoacă, A.I.; Pătîrnac, I. A Review of Safety Valves: Standards, Design, and Technological Advances in Industry. Processes 2025, 13, 105, doi:10.3390/pr13010105.	2,8	3,0
6.	Portoaca, A.I.; **Dinita, A.;** Ripeanu, R.G.; Tănase, M. Analysis of Microstructural and Wear Mechanisms for 3D-Printed PET CF15 Using Box–Behnken Design. Lubricants 2024, 12, 410, doi:10.3390/lubricants12120410.	2,9	4,6
7.	Tănase, M.; **Diniță, A.;** Lvov, G.; Portoacă, A.I. Experimental Determination of Circumferential Mechanical Properties of GFRP Pipes Using the Split-Disk Method: Evaluating the Impact of Aggressive Environments. Applied Sciences 2024, 14, 11845, doi:10.3390/app142411845.	2,5	4,0
8.	Ripeanu, R.G.; Tănase, M.; Portoacă, A.I.; **Diniță, A.** Assessing the Tribological Impact of 3D Printed Carbon-Reinforced ABS Composite Cylindrical Gears. Lubricants 2024, 12, 376,	2,9	4,6

	doi:10.3390/lubricants12110376.		
9.	Sirbu, E.-E.; **Dinita, A.;** Tanase, M.; Portoaca, A.; Bondarev, A.; Enascuta, C.; Calin, C. Influence of Plasticizers Concentration on Thermal, Mechanical, and Physicochemical Properties on Starch Films. Processes 2024, 12, 2021, doi:10.3390/pr12092021.	2,8	3
		Total indicator P1.2 =	**35**

A2.1 Articole si publicatii stiintifice indexate Web of Science Thomson Reuters (WOS), unde n=nr.de autori si FI este factorul de impact - co-autor, n ≤ 3

Nr. crt.	Denumire articol	Factor de Impact FI	Realizat P1.3 = 0,2+FI, n ≤ 3
1.	Dumitrescu, **A., Diniță**, A Efficiency assessment of the composite materials repair systems intended for corrosion damaged pipelines, (2019) Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering - OMAE	0	0,2
2.	Ri, J.; Ripeanu, R.G.; **Dinita, A.** Erosion Modeling in Parallel Gate Valve. FME Transactions 2020, 48, 808–815, doi:10.5937/fme2004808H.	1,2	1,4
		Total indicator P1.3 =	**1,6**

A2.1 Articole si publicatii stiintifice indexate Web of Science Thomson Reuters (WOS), unde n=nr.de autori si FI este factorul de impact - co-autor, n ≥ 4

Nr. crt.	Denumire articol	Factor de Impact FI	Realizat P1.4=3·(0,2+FI)/, n ≥ 4
1.	Ramy, C.; Ripeanu, R.G.; Hurtado, D.A.; Sirlupu, C.; Nassreddine, S.; Tănase, M.; Zouein, E.Y.; **Diniță, A.**; Muresan, C.C.; Mhanna, A. Advanced Delayed Acid System for Stimulation of Ultra-Tight Carbonate Reservoirs: A Field Study on Single-Phase, Polymer-Free Delayed Acid System Performance Under Extreme Sour and High-Temperature Conditions. Processes 2025, 13, 2547, doi:10.3390/pr13082547.	2,8	0,9
2.	Ramy, C.; Ripeanu, R.G.; Nassreddine, S.; Tănase, M.; Zouein, E.Y.; **Diniță, A.;** Muresan, C.C.; Mhanna, A. Advanced Research on Stimulating Ultra-Tight Reservoirs: Combining Nanoscale Wettability, High-Performance Acidizing, and Field Validation. Processes 2025, 13, 2153, doi:10.3390/pr13072153.	2,8	1,1
3.	Ramy, C.; Ripeanu, R.G.; Nassreddine, S.; Tănase, M.; Zouein, E.Y.; **Diniță, A.;** Muresan, C.C. Recent Advances in Stimulation Techniques for Unconventional Oil Reservoir and Simulation of Fluid Dynamics Using Predictive Model of Flow Production. Processes 2025, 13, 1138, doi:10.3390/pr13041138.	2,8	1,2
4.	Ramy, C.; Ripeanu, R.G.; Nassreddine, S.; Tănase, M.; Zouein, E.Y.; **Diniță, A.;** Muresan, C.C. Sustainable Emulsified Acid Treatments for Enhanced Oil Recovery in Injection Wells: A Case Study in the Qusahwira Field. Sustainability 2025, 17, 856, doi:10.3390/su17030856.	3,3	1,5
5.	Tanase, M.; **Diniță, A.;** Popovici, D.; Portoaca, A.; Călin, C.; Sirbu, E.-E. Comprehensive Bibliometric Review on the Sustainability and Environmental Impact of Fiber-Reinforced Polymers. Fibers 2024, 12, 104, doi:10.3390/fib12120104.	3,9	2,0
6.	Tănase, M.; Portoacă, A.I.; **Diniță, A.;** Brănoiu, G.; Zamfir, F.; Sirbu, E.-E.; Călin, C. Optimizing Mechanical Properties of Recycled 3D-Printed PLA Parts for Sustainable Packaging Solutions Using Experimental Analysis and Machine Learning. Polymers 2024, 16, 3268, doi:10.3390/polym16233268.	4,9	2,1
7.	Călin, C.; **Dinita, A.;** Branoiu, G.; Popovici, D.; Tanase, M.; Sirbu, E.-E.; Portoaca, A.; Mihai, S. Assessment of Environmental Impact on Glass-Fiber-Reinforced Polymer Pipes Mechanical and Thermal Properties. Polymers 2024, 16, 1779, doi:10.3390/polym16131779.	4,9	1,9

Nr. crt.	Denumire articol	Factor de Impact FI	Realizat P1.4=3·(0,2+FI)/, n ≥ 4
8.	Cană, P.; Ripeanu, R.G.; Patirnac, I.; **Dinita, A.;** Tanase, M. Investigating the Impact of Operating Conditions on Relief Pressure Valve Flow through CFD and Statistical Analysis. Processes 2023, 11, 3396, doi:10.3390/pr11123396.	2,8	1,8
9.	Bolcu, A.; Stanescu, M.M.; Bolcu, D.; Ciuca, I.; **Dinita, A.;** Bogdan, M.; Badea, F.C. The Study of Some Mechanical Properties of Some Composite Materials with Different Types of Matrices and Reinforcement from Chromat-Type Isophthalic Resin Granules NPG. Mater. Plast. 2023, 60, 1–9, doi:10.37358/MP.23.2.5656.	0,7	0,3
10.	Bolcu, A.; Cioatera, N.; Bolcu, D.; Stanescu, M.M.; Ciuca, I.; **Dinita, A.;** Constantin, I. Chemical and Mechanical Properties for Rosin-Based Hybrid Resins. Mater. Plast. 2023, 60, 67–74, doi:10.37358/MP.23.1.5646.	0,7	0,3
11.	Bolcu, A.; Stanescu, M.M.; Bolcu, D.; Ciuca, I.; Bogdan, M.; **Dinita, A.;** Sarbu, N. Study of the Vibrations of Some Composite Bars with Polypropylene Honeycomb Core and Carbon Fiber and Fiberglass Fabric Faces. Mater. Plast. 2022, 59, 1–12, doi:10.37358/MP.22.3.5601.	0,7	0,3
12.	Miritoiu, C.; Stănescu, M.; Bolcu, D.; Radoi, A.; Nicolicescu, C.; **Dinita, A.** Study About Some Mechanical Properties for Composites Reinforced with Corn Cob Powder. Materiale Plastice 2022, 58, 1–8, doi:10.37358/MP.21.4.5525.	0,7	0,4
13.	Dumitrescu, A.; Minescu, M.; **Dinita, A.;** Lambrescu, I. Corrosion Repair of Pipelines Using Modern Composite Materials Systems: A Numerical Performance Evaluation. Energies 2021, 14, 615, doi:10.3390/en14030615.	3,2	2,5
14.	Bolcu, D.; Stanescu, M.M.; Ciuca, I.; Miritoiu, C.M.; **Dinita, A.;** Bolcu, A. A Study Regarding the Mechanical Properties of a Hybrid Matrix with Various Volume Proportions of Dammar. Mater. Plast. 2020, 57, 133–140, doi:10.37358/MP.20.1.5320.	0,7	0,4
15.	Bolcu, D.; Stanescu, M.M.; Ciuca, I.; **Dinita, A.;** Rosca, A.; Rosca, D. Experimental Research into the Mechanical Behaviour of Dammar and Sandarac - Based Bio Resins. Mat.Plast. 2019, 56, 1–5, doi:10.37358/MP.19.1.5112.	0,7	0,4
16.	Ciocoiu, R.; Navodariu, N.; **Dinita, A.;** Trante, O.; Milea, C.; Ion, C.; Coman, R.; Saceleanu, V. SURFACE REPAIRS BY MMAW AND MIG -INFLUENCES ON FRACTURE ENERGY. UPB Scientific Bulletin, Series B: Chemistry and Materials Science 2019, 81, 209–218.	0,3	0,1
17.	Durbaca, A.C.; Iatan, R.; Durbaca, I.; **Dinita, A.;** Vasilescu, M. Experimental Research on the Triangular Lattice Type Polymer Based Composites Structures for Sandwich Panels Construction. Mat.Plast. 2017, 54, 639–644, doi:10.37358/MP.17.4.4916.	0,7	0,5
18.	Adrian, N.; **Dinita, A.;** Baranowski, P.; Sybilski, K.; Naim, R.I.; Malachowski, J.; Blyukher, B. Experimental and Numerical Testing of Gas Pipeline Subjected to Excavator Elements Interference. J. Pressure Vessel Technol 2016, 138, doi:10.1115/1.4032578.	1,4	0,6
19.	Bolcu, D.; Sava, M.; **Dinita, A.;** Miritoiu, C.M.; Baciu, F. The Influence of Discontinuities on Elastic and Mechanical Properties of Composite Materials Reinforced with Woven Carbon, Carbon-Kevlar and Kevlar. MATERIALE PLASTICE.	0,7	0,5
20.	Stănescu, M.; Bolcu, D.; Ion, C.; **Dinita, A.** Non Uniformity of Composite Materials Reinforced with Carbon and Carbon-Kevlar Fibers Fabric. Materiale Plastice 2014, 51, 355–358.	0,7	0,6
21.	Gheorghe, Z.; Lata, I.; Draghici, G.; **Dinita, A.** Mechanical Properties of a New Composite Sleeve for Pipeline Repair. Materiale Plastice 2011, 48, 88–92.	0,7	0,6
		Total indicator P1.4 =	**20,0**

Total punctaj indicator P1 = P1.1 + P1.2 + P1.3 + P1.4

P1 = 13,8 + 35,0 + 1,6 + 20,0; P1 = 70,4

A2.2 Articole si publicatii stiintifice BDI neincluse la A2.1 - autor corespondent/prim autor

Nr. crt.	Denumire articol	*Baza de date*	Realizat N3.1 = numar
1.	**Dinita, A**.; Lambrescu, I.; Chebakov, M. I.; et al., Finite Element Stress Analysis of Pipelines with Advanced Composite Repair, NON-DESTRUCTIVE TESTING AND REPAIR OF PIPELINES; Book Series: Engineering Materials Pages: 289-309 Published: 2018	**WOS Scopus**	1
2.	**Dinita, A.**, Conformity assessment of the measurement accuracy in testing laboratories using a software application, Conference: 13th International Conference on Tribology (ROTRIB), SEP 22-24, 2016, 13TH INTERNATIONAL CONFERENCE ON TRIBOLOGY (ROTRIB'16) Book Series: IOP Conference Series-Materials Science and Engineering Volume: 174	**WOS Scopus**	1
3.	**Diniță, A.**, Minescu, M., Dumitrescu, A., Teodoriu, C., Săraru, C., Assessment of variations in the physico-mechanical properties of fiberglass tubing working in different environments; Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering – OMAE, Volume 8, 2019, ASME 2019 38th International Conference on Ocean, Offshore and Arctic Engineering, OMAE 2019; Glasgow; United Kingdom; 9 June 2019 through 14 June 2019; Code 154931	**WOS Scopus**	1
4.	**Dinita, A;** Petrescu, MG; Ilincă, CN; Gavrilă, SA, THE VALUE OF FRP PIPE FLEXIBILITY, Romanian Journal of Petroleum & Gas Technology, Volume6 (77)Issue2Page87-102, DOI10.51865/jpgt.2025.02.06	**WOS Scopus**	1
5.	**Diniță, A.;** Rosca, C.-M.; Tănase, M.; Stancu, A. A Comprehensive Review on Bridging the Research Gap in AI-Driven Material Simulation for FRP Composites. *CMES* **2025**, *144*, 147–199, doi:10.32604/cmes.2025.066276.	**WOS Scopus**	1
6.	Portoaca, A.; **Dinita, A.;** Tanase, M.; Savulescu, A.; Sirbu, E.-E.; Călin, C.; Branoiu, G. Analyzing Sustainable 3D Printing Processes: Mechanical, Thermal, and Crystallographic Insights. Polymers 2024, 16, 1364, doi:10.3390/polym16101364.	**WOS Scopus**	1
7.	Portoaca, A.; Ripeanu, R.G.; **Dinita, A.;** Tanase, M. Optimization of 3D Printing Parameters for Enhanced Surface Quality and Wear Resistance. Polymers 2023, 15, 3419, doi:10.3390/polym15163419.	**WOS Scopus**	1
		Total indicator N3.1 =	**7**

A2.2 Articole si publicatii stiintifice BDI neincluse la A2.1 - co-autor

Nr. crt.	Denumire articol	*Baza de date*	Realizat N3.2 = numar
1.	Bloj, M.-D.; Ripeanu, R.G.; **Diniță, A.;** Oprea, V.O.; Tănase, M. Comprehensive Review of Hydrogen-Natural Gas Blending: Global Project Insights with a Focus on Implementation and Impact in Romanian Gas Networks. Heliyon 2025, 11, e43090, doi:10.1016/j.heliyon.2025.e43090.	**SCOPUS**	1
2.	Coman, R.; Ciocoiu, R.; **Diniță, A.;** Ciucă, I. Mechanical Characteristics Alteration of a Steel Used in Water Turbine Blades. Solid State Phenomena 2016, 254, 194–199, doi:10.4028/www.scientific.net/SSP.254.194.	**WOS**	1
3.	Caltaru, M.M., Badicioiu, M., **Dinita, A.**, Zisopol, D.G., Ripeanu, R.G., Minescu, M. Influence of chemical corrosive environment with H2S on drill strings, experimental researches, (2020) Revista de Chimie, 71 (4), pp. 29-37.	**Scopus**	1
4.	Lambrescu, I., **Dinita, A.**, Minescu, M., Considerations on the evaluation and management of volumetric surface defects on pipelines using 3D scanning and finite element analysis, Revista de Chimie, Volume 71, Issue 4, April 2020, Pages 19-28	**Scopus**	1
5.	Ciocoiu, R., Navodariu, N., **Dinita, A.**, Trante, O., Milea, C., Ciuca, I., Coman, R., Saceleanu, V., Surface repairs by mmaw and mig-influences on fracture energy, (2019) UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 81 (3), pp. 209-218	**WOS**	1
6.	Durbacă, A.-C., Iatan, R., Durbacă, I., **Diniţă, A.**, Rusănescu, C.O., Experimental aspects of the application of strain gauges on sandwich type circular plates from, polymer composite materials in pressure vessels, (2018) UPB Scientific Bulletin, Series D: Mechanical Engineering, 80 (3), pp. 131-140.	**Scopus**	1
7.	Ionescu, G.C., Nae, I., Ripeanu, R.G., **Dinita, A.**, Stan, G., Studies on Tribological Behavior of Aluminum Nitride-Coated Steel, (2017) IOP Conference Series: Materials Science and Engineering, 174 (1), art. no. 012052	**WOS**	1

8.	Coman, R., Ciocoiu, R., **Dinita, A.**, Ciucă, I., Mechanical characteristics alteration of a steel used in water turbine blades, (2016) Solid State Phenomena, 254, pp. 194-199.	**Scopus**	1
9.	Lambrescu, I., Minescu, M., **Diniță, A,** Implementing of 3D scanning techniques in the analytical and numerical assessment of pipelines with volumetric surface defects, (2019) Revista de Chimie, 70 (12), pp. 4138-4144.	**Scopus**	1
10.	Lospa, A.M., Dudu, C., Ripeanu, R.G., **Dinita, A.**, CFD Evaluation of sand erosion wear rate in pipe bends used in technological installations, (2019) IOP Conference Series: Materials Science and Engineering, 514 (1), art. no. 012009, conference paper	**Scopus**	1
11.	Dudu, C., Ripeanu, R.G., Drumeanu, A.C., **Dinita, A**., Lospa, A.M., Evaluation of the corrosion wear speed of different equipment in the water injection treatment plant, IOP Conference Series: Materials Science and Engineering, 514 (1), art. no. 012008	**Scopus**	1
		Total indicator N3.2 =	**11**

Total punctaj indicator N3 = N3.1 + N3.2; N3 = 7 + 11; N3 = 18

A2.3 Brevete de inventie indexate Web of Science-Derwent innovation

Nr. crt.	**Denumire brevet**	**Derwent Primary Accession Number**	**Realizat P2.1 =3·(0,2+FI)/n, n ≥ 4, FI=2**
1.	Cramariuc R., **Diniță A.**, Drăghici G., Neacșa A., Petrescu M. G., Tudor I, Ulmanu V., Zecheru G., Stand for testing smart control devices for pipes (Stand pentru testarea dispozitivelor de control inteligent al conductelor), nr. a 2006 00894, din data 28.02.2013.	DIIDW: 2013C76707	0,8
		Total indicator P2.1=	**0,8**

A2.3 Brevete de invenție indexate OSIM

Nr. crt.	**Denumire brevet**	**OSIM Number**	**Realizat P2.2 =3·(0,2+FI)/n, n ≥ 4, FI=0,5**
		Total indicator P2.2=	**0**

TOTAL punctaj brevete de inventii indexate P2.1 + P2.2 = 0,8 + 0 = 0,8

Total punctaj P1 + P2 = 70,4 + 0,8 = 71,2

A2.4 Produse, tehnologii, platforme si servicii inovative (validate conform procedurilor specifice unitatilor de invatamant superior sau de cercetare) coordonator/prim autor, co-autor

Nr. crt.	**Produse, tehnologii, platforme si servicii inovative**	**Indicator *N4.1(numar) sau N4.2(numar)***
1.	Procedura de sudare pe conductele de transport gaze naturale aflate sub presiune, contract 37/2015	1
2.	Procedurii de reparare prin sudare în condiţii de temperatură scăzută si a Procedurii de utilizare a păturilor ceramice de preîncălzire în vederea sudării, contract 18/2015	1
3.	Tehnologii de fabricare și montaj, cu și fără sudare, a elementelor de tip teu sau manșon pentru efectuarea lucrărilor de reparare sau cuplare pe conductele aflate sub presiune, contract 41/2010	1
4.	Tehnice privind mentenanţa Sistemului Naţional de Transport, contract 32/2007	1
5.	Procedură de tip Fitness – For – Service în conformitate cu standardul API 579, precum şi evaluarea stării tehnice a unui tronson de conductă real, contract 58/2010	1
6.	Ghid pentru stabilirea claselor și categoriile de importanţă pentru conductele și componentele SNT în conformitate cu legislaţia în vigoare, contract 23/2013	1
7.	Stand pentru evaluarea modului general de degradare a elementelor de interconectare a echipamentelor, 12588/2017	1
	Total punctaj indicator N4.1+N4.2=	**2+5**

A2.5 Monografii/carți de specialitate, format tipărit/electronic - coordonator/prim autor N4.3 sau co-autor N4.4 (număr)

Nr. crt.	Monografii de specialitate/ carti de specialitate, format tiparit/electronic	Nr. pag.	Indicator
1.	**Diniță A.,** Lambrescu I., Analiza Structurilor Inginerești prin Utilizarea Metodei Elementului Finit. Aplicații în ANSYS, ISBN 978-606-25-0634-6, MatrixROM - 2021, 450 pagini.	450	1
2.	**Diniță A.,** Tanase M., Composite Materials Used to Repair Industrial Equipment: Analytical, Numerical and Experimental Studies, ISBN 978-1-83768-000-9 Pipeline Engineering - Design, Failure, and Management. IntechOpen. doi: 10.5772/intechopen.102290, Pipeline Engineering - Design, Failure, and Management | IntechOpen	270	1
3.	Zecheru, Gh.; Dumitrescu, Andrei; **Dinita, A.**; Design of Composite Repair Systems, NON-DESTRUCTIVE TESTING AND REPAIR OF PIPELINES, Book Series: Engineering Materials Published: 2018 Non-destructive Testing and Repair of Pipelines | Springer Nature Link (formerly SpringerLink)	451	1
4.	Dumitrescu, Andrei; Zecheru, Gh.; **Dinita, A.**, Characterisation of Volumetric Surface Defects, NON-DESTRUCTIVE TESTING AND REPAIR OF PIPELINES; Book Series: Engineering Materials Published: 201 8, Non-destructive Testing and Repair of Pipelines | Springer Nature Link (formerly SpringerLink)	451	1
5.	Evgeny Barkanov, Mitko Mihovski, Vladimir Sergienko, Innovative Solutions in Repair of Gas and Oil Pipelines - Chapter X, Baranowsk P., Neacșa A., **Diniță A.**, Naim R.I., Malachowski J., Sybilski K., The researsch of ultrasonic antenna array for non-destructive testing of extended technological pipelines, Bulgarian Society for Non-destructive Testing Publishers, Sofia, ISBN 978-619-90662-0-1, p. 260, 2016. book-Innopipes-2016.pdf	260	1
6.	**Dinita, A.;** Lambrescu, I.; Chebakov, M.; Dumitru, G. Finite Element Stress Analysis of Pipelines with Advanced Composite Repair. In; 2018; pp. 289–309 ISBN 978-3-319-56578-1, Non-destructive Testing and Repair of Pipelines | Springer Nature Link (formerly SpringerLink)	451	1
7.	**Diniță, A.** Pipeline Engineering - Design, Failure, and Management. Assessment of the Structural Integrity of the Pipes with Anomalies Such as Local Elastic-plastic Deformations; IntechOpen, ***2023*** ISBN 978-1-83768-000-9. Pipeline Engineering - Design, Failure, and Management | IntechOpen	212	1
8.	Tanase M., Portoaca A.I., **Diniță A.**, Mechanical Properties Assessment of Multi-Material Samples. In Multi-material Additive Manufacturing; Elsevier, Book Published: ***2025***, ISBN: 978-0-443-29228-6, DOI: 10.1016/C2023-0-51837-3; pp. 33–65. Multi-material Additive Manufacturing | ScienceDirect	550	1
		Total N4.3 + N4.4 =	***4 + 4***

Total indicator N4 = N4.1 + N4.2 + N4.3 + N4.4
N4 = 2 + 5 + 4 + 4 = 15

3. Recunoaștere si impactul activității-RIA (A3)

A3.1 Atragere resurse financiare prin granturi/proiecte/contracte terți (1Euro ≈ 5 lei)

Nr. crt.	S1- Director sau responsabil partener la grant/proiect castigat prin competitie nationala sau internationala S2 - Membru în echipă la grant/proiect câştigat prin competiţie naţională sau internaţională, proiecte/contracte terţi	Valoare mii Euro	Indicatori
1.	Analiza unor probe prelevate din îmbinări sudate realizate sub presiune 7/2013	1,1	S1
2.	Analiza unor probe prelevate din îmbinările sudate, realizate sub presiune 15/2014	1,0	S1
3.	Realizare de expertize, asistențe tehnice de specialitate și încercări de materiale pentru reutilizarea componentelor recuperate (curbe, teuri, țevi) rezultate în urma lucrărilor de reparații efectuate de Sucursala Mediaș 2436/2014 CSPS	3,5	S1
4.	Realizare de expertize, asistențe tehnice de specialitate și încercări de materiale privind comportarea sudurilor realizate prin depunere de straturi succesive în vederea determinării parametrilor optimi de sudare la sudarea sub presiune a elementelor de tip teu și manson 2438/2014 CSPS	3,6	S1
5.	Teste de laborator pentru certificarea calității îmbinărilor sudate 11/2015	17,8	S1
6.	Realizarea unei expertize pentru analiza și evaluarea calitativă a unor mostre de material tubular (2 buc x dn 400 izolate cu polietilenă) 19/2015	1,5	S1
7.	Expertize prin analiza și evaluarea calitativă a două mostre de material tubular din piesele care au cedat la încercări în etapa de încărcare a instalației în Nodul Tehnologic Podișorul 27/2015 CSPS	0,8	S1
8.	Servicii privind: 1. Probe pentru testare distructivă (epruvete) pentru un număr de 29 sudori pe ”Procedura de sudare pe conductele de transport gaze naturale aflate sub presiune”; 2. Realizarea încercărilor distructive și nedistructive pentru calificarea a două proceduri pentru procesele tehnologice de sudare ”on situ” datorită modificării unor variabile esențiale (parametrii și condiții de sudare) 37/2015 CSPS	17,2	S1
9.	Expertizarea materialului tubular al conductei DN 300 Odorheiu Secuiesc-Cobălțești 4/2016 CSPS	2,5	S1
10.	Expertizarea calitativă pentru două mostre material tubular DN 700 sudate elicoidal 9/2016 CSPS	1,5	S1
11.	Teste de laborator pentru certificarea calității îmbinărilor sudate PS 13/2016	1,9	S1
12.	Teste de laborator pentru analiză doi saboți S2P10: determinare duritate Brinell, determinare compoziție chimice și analiză metalografică PS 7205/2016	0,3	S1
13.	Expertiza privind examinarea cauzelor care au condus la cedarea unui racord cep prăjină de foraj PS 1072/2017	1,2	S1
14.	Teste de laborator PS1343/2017	0,4	S1
15.	Elaborare documentație de execuție- conducte CC 3420/.2017	1,7	S1
16.	Teste și încercări autorizare sudori PS 3576/2017	0,6	S1
17.	Serviciu de expertiză tehnică a materialului tubular prelevat de la locul incidentului soldat cu ruperea conductei Φ12 Baia Mare- Satu Mare (Nord II) în zona Botiz PS 3765/2017	2,2	S1
18.	Elaborare documentație tehnologică PS 3162/.2018	2,4	S1
19.	Încercări la tracțiune pe epruvete furnizate de beneficiar PS 12063/2018	0,3	S1
20.	Teste de laborator- autorizare sudori PS 2248/2019	0,3	S1
21.	Expertiză tehnică material tubular cu realizare încercări și teste de laborator Cda ext.13288/2025	1,6	S1
22.	Practică integrată pentru corelarea activităților multidisciplinare aplicate într-un proces de producție – sala EV4 (CNFIS-FDI-2020-0087), 2020	47,5	S1
23.	GO-GICS nr. 11029/2023- Creșterea durabilității conductelor tehnologice prin utilizarea rășinilor epoxidice armate (ERC); UPG PLOIEȘTI, 40000 lei, grant intern cercetare	8	S1
	membru		
24.	Cercetări în vederea creării unor contoare de durată de viață pentru evaluarea on-line a siguranței în funcționare a structurilor mecanice – CONDUVI 50/2347/2006	5,8	S2
25.	Elaborare norme tehnice privind mentenanța sistemului național de transport 32/12/2007	2,5	S2
26.	Traducere manual de operare UOP 58/2008	2,2	S2
27.	Organizarea și susținerea programului postuniversitar de perfecționare a 118 salariați, în domeniul managementului și tehnologiilor petroliere 60/2008	0,6	S2
28.	Încercări mecanice conform prescripţiilor tehnice ISCIR CR 9/1-2003 66/2141/2008	0,3	S2
29.	Probe şi încercări pentru autorizarea sudorilor în polietilenă, care au participat la cursurile de specializare în operator sudare ţevi şi fitinguri din polietilenă de înaltă densitate – PEHD 69/7040/2008 PS	0,4	S2
30.	Norme tehnice privind stabilirea claselor de locaţie şi a distanţelor de siguranţă pentru conductele de transport gaze naturale 9/2009	4,8	S2

Nr. crt.	S1- Director sau responsabil partener la grant/proiect castigat prin competitie nationala sau internationala S2 - Membru în echipă la grant/proiect câştigat prin competiţie naţională sau internaţională, proiecte/contracte terţi	Valoare mii Euro	Indicatori
31.	Elaborare norme tehnice privind mentenanţa SNT-Etapa I+ II 10/2009	3,9	S2
32.	Încercări distructive pentru omologarea procedeului de sudură după prescripţiile tehnice ISCIR CR 9/2003 în vederea confecţionării curbelor pentru lucrarea „ Nod tehnologic Oneşti” 11/2009	0,6	S2
33.	Control distructiv în vederea omologării procedeelor de sudură şi autorizării sudorilor 14/2009	0,4	S2
34.	Probe şi încercări specifice conform prescripţiilor ISCIR, pentru autorizarea sudorilor în polietilenă 16/7/2009	0,4	S2
35.	Încercări mecanice şi analize microscopice pentru autorizarea sudorilor şi omologarea procedurilor de sudare 23/2009	0,4	S2
36.	Organizarea şi susţinerea programului postuniversitar de perfecţionare a 21 salariaţi în domeniul tehnologiilor de protecţie anticorozivă a conductelor gaze naturale 36/2009	1,1	S2
37.	Cursuri de instruire/consultanţă 40/2009	0,2	S2
38.	Expertizele tehnice legate de cedarea în exploatare a conductei Şendreni-Butimanu în punctele Jugureanu şi Sineşti şi exploatarea în siguranţă a acestei conducte 47/2009	1,6	S2
39.	Expertiză tehnică a reţe de gaze naturale oţel în lungime de cca. 20 kg situată în Mun. Turnu Măgurele 52/2009	0,9	S2
40.	Executare probe şi încercări mecanice - sudori polietilenă de înaltă densitate 54/2009	0,1	S2
41.	Investigarea cauzelor producerii accidentului la conducta Dn 400 Govora-Drăgăşani şi elaborarea unui raport de expertizare tehnică detaliată 55/2009	0,8	S2
42.	Expertiză tehnică a defectului tehnic produs la traversarea aeriană a râului Mureş la Moreşti cu conductele de transport gaze naturale Ø 28 Band – Ungheni şi Ø Band Adrifa - Etapa I 14/2010	2,1	S2
43.	Încercări mecanice şi analize metalografice pentru autorizarea sudorilor şi omologarea procedurilor conform CR9/CR7 15/2010	0,1	S2
44.	Expertiză pentru investigarea şi analiza accidentului produs pe conducta Ø 800 Siliştea Bucureşti 32/2010	1,0	S2
45.	Tehnologii de fabricare şi montare, cu şi fără sudare a elementelor de tip teu sau manşon pentru efectuarea lucrărilor de reparare sau cuplare pe conductele aflate sub presiune 41/2010	3,2	S2
46.	Expertiză tehnică pentru supratraversare râu Buzău cu conducta Dn 600 în vederea utilizării pilelor din beton armat existente la o supratraversare cu o conductă Dn 500 godevilabilă în perioada convenită 42/2010	2,5	S2
47.	Expertiză pentru investigare şi analiză a accidentului produs pe conducta Ø 28 Ţigmandru-Aeitur-Oneşti-Tecuci-Siliştea pe raza localităţii Hatod, sector Bătani 52/2010	1,0	S2
48.	Proceduri de evaluare de tip Fitness for Service, în conformitate cu standardul API579 – procedură de evaluare „Apt pentru exploatare pe baza standardului API579” 58/2010	1,0	S2
49.	Raport expertiza tehnica prin incercari mecanice si analiza metalografica pt tubul 37 dreapta din cuptorul 02-H1 9/2011	0,1	S2
50.	Examinari metalografice si de duritate pe esantioane extrase dintr-o camasa pt pompa de extractie care s-a fisurat in timpul functionarii 10/2011	0,1	S2
51.	Analiza tehnico-economica privind functionarea agregatelor de comprimare ce echipeaza SCG Filitelnic si SCG Cristur 21/2011	2,4	S2
52.	Revizuirea normelor tehnice pt proiectarea si executia conductelor de alimentare din amonte si de transport gaz natural 28/2011	2,0	S2
53.	Încercări mecanice materiale/semifabricate. Analiză chimică materiale siderurgice. 1/2012	1,0	S2
54.	Evaluarea caracteristicilor constructive și funcționale ale sistemelor de închidere și reglare (robinet actuator) utilizate în SNT din perspectiva fiabilității mentenanței proactive și siguranței în exploatare 9/2012	3,5	S2
55.	Cercetarea și elaborarea tehnologiei de recondiționare și durificare a prăjinilor grele de foraj utilizate la exterior 5/2013	0,3	S2
56.	Managementul lucrărilor de sudare pe conductele sistemelor de transport -M11, completat cu legislația referiroare la verificarea execuției și managementul lucrărilor de șantier 8/2013	0,6	S2
57.	Determinări experimentale privind deplasările și tensiunile apărute la partea superioară a camerei de cocsare, atât în procesul de încălzire cât și în cel de racire și elaborarea documentației constând într-un Raport de cercetare pentru Obiectivul de Investiție: RIS-COKER-REVAMP-03 17/2013	3,6	S2
58.	Ghid pentru stabilirea claselor și categoriilor de importanță pentru conductele și componentele SNT în conformitate cu legislația în vigoare 23/2013	0,2	S2

Nr. crt.	S1- Director sau responsabil partener la grant/proiect castigat prin competitie nationala sau internationala S2 - Membru în echipă la grant/proiect câştigat prin competiţie naţională sau internaţională, proiecte/contracte terţi	Valoare mii Euro	Indicatori
59.	Cercetarea caracteristicilor mecanice și metalografice efectuate pe probe prelevate din îmbinări sudate 19/2014	0,4	S2
60.	Realizare de expertize, asistențe tehnice de specialitate și încercări de materiale pentru ansamblu de angrenare al grupului de comprimare Inghesoll Rand de la STC Șinca 25/2014	3,4	S2
61.	Analiza de risc la stabilirea distanțelor de siguranță pentru obiectivele din vecinătatea conductelor de transport gaze naturale- COTG 29/2014	0,1	S2
62.	Cercetarea caracteristicilor mecanice efectuate pe probe prelevate din țevi 36/2014	0,1	S2
63.	Cercetarea caracteristicilor dimensionale, mecanice și metalurgice ale racordului cep de 2-7/8 REG de la freza tronconică de 118mm 38/2014	0,2	S2
64.	Cercetarea caracteristicilor materialului tubingului 2 7/8 ″ avariat prin turtire locală 43/2014	1,4	S2
65.	Realizare de expertize, asistențe tehnice de specialitate și încercări de materiale necesare pentru calificarea procedurii de sudare reparație la conducta Tranzit III 48- Fir rezerva zona Medgidia 2435/2014 CSPS	0,7	S2
66.	Realizare de expertize, asistențe tehnice de specialitate și încercări de materiale necesare calificării a 21 de sudori pentru procedura de sudare a pieselor speciale de tip manson și fiting pe conducte aflate sub presiune 2437/2014 CSPS	2,2	S2
67.	Determinări experimentale privind comportarea dinamică a conductelor aferente containerului 1000 din Park 18 Vata 4/2015	0,25	S2
68.	Servicii privind: Etapa 1- Examinarea unor probe sudate realizate în condiții de temperatură scăzută folosind diferite metode de preîncălzire; Etapa 2- Elaborarea procedurii de reparare prin sudare în condiții de temperatură scăzută și a procedurii de utilizare a paturilor ceramice de preîncălzire în vederea sudării 18/2015 CSPS	0,1	S2
69.	Cercetarea cauzelor ruperii unor elemente de material tubular petrolier 20/2015	0,2	S2
70.	Cercetări experimentale privind certificarea calității îmbinărilor sudate a componentelor rotor-stator ale pompelor cu cavitate progresivă 22/2015	0,2	S2
71.	Cercetări privind tehnologia de durificare a racordurilor speciale ale prăjinilor de foraj utilizând încărcarea prin sudare cu sârmă electrod tip Steel Cored M58 23/2015	0,1	S2
72.	Analiză calitativă a trei probe din oțel placate cu Inconel 625 și inox E316 7/2016	0,2	S2
73.	Cercetări privind modul general de degradare a elementelor de interconectare a echipamentelor din componența instalației de tratare ape de injecție și soluții de creștere a durabilității acestora CC 12588/2017	1,8	S2
74.	Fiberglass tubing test PS 4281/2018	2,1	S2
75.	Determinare compoziție chimică oțel-țeavă PS 3106/2019	0,1	S2
76.	Încercări la coroziune și teste mecanice PS 9873/2019	0,2	S2
77.	Încercări, determinări și măsurători asupra materialelor tubulare realizate din oțel sau polietilenă de înaltă densitate PS 12600/2019	0,1	S2
78.	Analysis of Curing Oven Conveyor Bolts/ Analiza șuruburilor conveiorului de la instalația Curing Oven CC 851/2021	0,6	S2
79.	Examinarea de eșantioane și epruvete pentru analize și încercări în vederea evaluării calitative ale unor îmbinări sudate PS 879/2021	0,2	S2
80.	Determinari fizico-mecanice si analize chimice pe probe de carota extrase din sondele 13E si 14E PS 9916/2021	1,2	S2
81.	Examinarea de eșantioane și epruvete pentru analize și încercări mecanice distructive PS 10390/2021	0,1	S2
82.	Examinarea de eșantioane și epruvete pentru analize și încercări mecanice distructive PS 1160/2022	0,1	S2
83.	Analize numerice și experimentale privind creșterea durabilității supapelor de siguranță utilizate în industrie CC 1165/2022	1,6	S2
84.	Elaborare a unui studiu de fezabilitate privind oportunitatea utilizării pompelor de căldură și eventual a energiei solare și/sau geotermale pentru încălzire în rampa automatizată de încărcare țiței și gazolină Bi CC 3673/2022	3,3	S2
85.	Analiza materialelor utilizate și a gazelor arse din cadrul proiectului pilot ROHYD CC 7901/2023	2,7	S2
86.	Studii pentru determinarea comportării la sudură a unor eșantioane metalice de tip tubular PS 8679/2023	0,6	S2
87.	Analiza țevilor din fasciculul tubular al unui schimbător de căldură PS 9585/2023	0,1	S2
88.	Studiul de impact al conductei TRANSGAZ MEDIAȘ, care traversează terenul situat în Comuna Florești, sat Florești, T8, P181/1, număr cadastral 26.589 PS 12591/2023	0,4	S2
89.	Analiza FEA vase proiect K461: 590F0004, 590F0012 și 590F0020 PS 19039/2023	1,0	S2

Nr. crt.	S1- Director sau responsabil partener la grant/proiect castigat prin competitie nationala sau internationala S2 - Membru în echipă la grant/proiect câştigat prin competiţie naţională sau internaţională, proiecte/contracte terţi	Valoare mii Euro	Indicatori
90.	Studiu privind evaluarea riscului și stabilirea distanțelor de siguranță, urmare proximității conductei de gaz, cu construcțiile de locuințe, prevăzute în COMPLEX REZIDENȚIAL BUFTEA-EST CC 27496/2023	0,2	S2
91.	Analiză de risc necesară pentru finalizarea Studiului de Fezabilitate și a documentațiilor necesare pentru racordarea noului grup CCGT 470MW la Sistemul Național de Transport gaze naturale SNTGN CC 10133/2024	0,6	S2
92.	Testare material tubular din otel si polietilena PEHD100 SDR11 gaz; ENGIE ROMANIA SA Bucuresti PS 16442/2024	1,7	S2
93.	Testare probe de sudura PS 17557/2024	0,2	S2
94.	Examinare încercări distructive PS 28068/2024	0,5	S2
95.	Încercări mecanice PS 12000/2025	0,2	S2
96.	Studiu tehnic privind posibilitatea de funcționare în condiții de siguranță a rezervorului de 55000 mc aflat în funcțiune la Oil Terminal S.A. Constanța 20321/07.08.2025	8,3	S2

Total punctaj S1 + S2 = 119 + 89 = 208

A3.2 Prezentarea/Diseminarea rezultatelor: prezenta la manifestari stiintifice in calitate de autor/co-autor de lucrari, profesor invitat

Nr. Crt.	Denumire articol si conferinta la care a fost prezentat	Indicator N5 (număr)
1.	**A. Diniţă**; G. Zecheru; G. Draghici; A. Dumitrescu; M. Minescu; M. G. Petrescu; Cercetări privind tehnologiile de reparare prin sudare aplicate conductelor pentru transportul gazelor naturale; Conferința ASR SUDURA 2020 – Educație, cercetare și inovare în domeniul sudării, 2020	1
2.	**A. Dinita,** R. G. Ripeanu, A. Neacsa, M. G. Petrescu, Considerations on the evaluation of the tribological and mechanical behavior for samples made by additive technology, ICCE 2020, 5th International Conference on Chemical Engineering, Romania, Iași, October 28 – 30, 2020	1
3.	Naboulsi Mohamed Iyad Al, Niculae Napoleon Antonescu, **Alin Dinita**, Marius Morosanu, Tribological Characterization of Some Elastomers Used at Progressive Cavity and Piston Pump, Jurnal MATEC Web of Conferences, Volumul, 318, Pagini 01016, 2020	1
4.	A Olteanu, M Minescu, **Diniţă, A.,**C Teodoriu Effect of Elevated Temperatures on Fiber Glass Composite Pipes used for Geothermal Well Completions, PROCEEDINGS, 45th Workshop on Geothermal Reservoir Engineering, Stanford University, Stanford, California, February 10-12, SGP-TR-216, 2020	1
5.	**Dinita A**., Ramadan I. N., Minescu M., Experimental Stand for Internal Pressure Testing of Pipes, Conferința „Zilele Academiei de Științe Tehnice din România", 2019	1
6.	A. Hagianu, I. Nae, G. C. Ionescu, R. G. Ripeanu, **Diniţă, A.,** I. N. Ramadan, Research And Studies On Flexible Tubing Wearing, SERBIATRIB '19, 16th International Conference on Tribology, Kragujevac, Serbia, 15 – 17 May 2019	1
7.	Mihail Minescu, **Diniţă, A.,** Andrei Dumitrescu, Dragoș Gabriel Zisopol, Materiale noi la realizarea instalațiilor de utilizare a gazelor naturale, Conferința „Zilele Academiei de Științe Tehnice din România", 2019	1
8.	M.G. Petrescu, **Diniţă, A.,** Opît rabotî neftegazovozo universiteta Rumânii, Forumul național "Gumanizațiia injenernovo obrazovaniia" Gubkin University&Rossiiskaia Akademiia Obrazovaniia, Moscova, 07 iunie 2018	1
9.	**Diniţă, A.,** Mihaela Călțaru, Marius Bădicioiu, Analysis of the causes that lead to the fracture of two tool joint box from drill pipe, Simpozion Național de Mecanica Ruperii, Ploiești, 15-16 noiembrie 2018, Buletinul Asociației Române de mecanica Ruperii – ARMR, nr. 34/2018, Ed. Universității Petrol-Gaze din Ploiești, ISSN 1453-8148 (rezumat publicat).	1
10.	**Diniţă, A.,** Vlad Ulmanu, Gheorghe Zecheru, Mihail Minescu, Marius Petrescu, Andrei Dumitrescu, Marius Bădicioiu, Mihaela Călțaru, Regional centre for the determination of the characteristics and monitoring of the technical state of oil country tubulars goods – capability in evaluate the composition, structure and mechanical properties of materials used in the manufacture of components for petroleum, petrochemical and transport equipment - Poster presentations, WEC Central and Eastern Europe Regional Energy Forum – 13th Edition FOREN 2016 "Safe and Sustainable Energy for the Region", 12-16 june 2016, Costinești, România, http://www.cnr-cme.ro/foren2016/Call%20for%20Papers/LISTA_LUCRARI_ACCEPTATE_FOREN_2016.pdf	1

Nr. Crt.	Denumire articol si conferinta la care a fost prezentat	Indicator N5 (număr)
11.	**Diniță, A.,** Vlad Ulmanu, Gheorghe Zecheru, Mihail Minescu, Marius Petrescu, Andrei Dumitrescu, Marius Bădicioiu, Mihaela Călțaru, Regional centre for the determination of the characteristics and monitoring of the technical state of oil country tubulars goods – capability in assessing the quality oil tubular components - Poster presentations, WEC Central and Eastern Europe Regional Energy Forum – 13th Edition FOREN 2016 "Safe and Sustainable Energy for the Region", 12-16 june 2016, Costinești, România, http://www.cnr-cme.ro/foren2016/Call%20for%20Papers/LISTA_LUCRARI_ACCEPTATE_FOREN_2016.pdf	1
12.	Dudu, C.; Drumeanu, A.C.; Ripeanu, R.G.; **Dinita, A.** Some Considerations Regarding the Influence of Working Conditions on the Corrosion Wear of the Injection Water Treatment Plant Equipment. IOP Conference Series: Materials Science and Engineering 2020, 724, 012033, doi:10.1088/1757-899X/724/1/012033. INTERNATIONAL CONFERENCE ON TRIBOLOGY (ROTRIB'19) 724	1
13.	Lospa, A.; Ripeanu, R.G.; **Dinita, A.** Erosion Modelling: A Systematic Review of Available Models and Equations. IOP Conference Series: Materials Science and Engineering 2020, 724, 012037, doi:10.1088/1757-899X/724/1/012037. INTERNATIONAL CONFERENCE ON TRIBOLOGY (ROTRIB'19) 724	1
14.	**Diniță A.,** Ramadan I., Minescu M., Analytical, numerical and experimental analyses of composite materials used to repair pipelines, ARMR, Al XXVI – lea Simpozion Național de Mecanica Ruperii, 21-23 mai 2025, Universitatea "Vasile Alecsandri" din Bacău	1
	Total indicator N5 =	**14**

A3.3. Citari in publicatii BDI [5] (se exclud autocitarile)

Nr. crt.	Lucrarea citată	Lucrarea care citează	Adresa web a lucrării care citează	FI
1.	**Dinita, A.;** Neacsa, A.; Portoaca, A.; Tanase, M.; Ilinca, C.; Ramadan, I. Additive Manufacturing Post-Processing Treatments, a Review with Emphasis on Mechanical Characteristics. *Materials* **2023**, *16*, 91, doi:10.3390/ma16134610.	Kantaros, A.; Douros, P.; Soulis, E.; Brachos, K.; Ganetsos, T.; Peppa, E.; Manta, E.; Alysandratou, E. 3D Imaging and Additive Manufacturing for Original Artifact Preservation Purposes: A Case Study from the Archaeological Museum of Alexandroupolis. HERITAGE 2025, 8, doi:10.3390/heritage8020080.	10.3390/heritage8020080	1,9
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		Veres, C.; Tanase, M. A Bibliometric Review of 3D-Printed Functionally Graded Materials, Focusing on Mechanical Properties. MACHINES 2025, 13, doi:10.3390/machines13030232.	10.3390/machines13030232	2,5
		Couto, R.; Resende, P.R.; Pinto, R.; Rahmani, R.; Abrantes, J.C.C.; Feijoo, I. A Brief Review on Biomimetics 3D Printing Design. BIOMIMETICS 2025, 10, doi:10.3390/biomimetics10100647.	10.3390/biomimetics10100647	3,9
		Jamuna, R.; Kandavalli, S.R.; Arthis, P.; Rao, P.K.V. A Characterization Study on Toughening Vinyl Ester Composites Using Annealed Biosilica from Fox Tail Millet Husk and Nettle Fiber. BIOMASS CONVERSION AND BIOREFINERY 2025, 15, 7901–7911, doi:10.1007/s13399-024-05467-8.	10.1007/s13399-024-05467-8	4,1
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		Sanusi, K.; Malatji, N.; Jeje, S.; Kanyane, R.; Shongwe, M. A Review on Heat Treatment of Laser Additive Manufactured Medium Entropy Alloys. INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY 2025, 137, 5405–5429, doi:10.1007/s00170-025-15479-x.	10.1007/s00170-025-15479-x	3,1
		Raj, R.; Singh, G. A Review on Process Prerequisites and Biomedical Applications of Additively Manufactured Zirconia. ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH 2024, 59, doi:10.1016/j.jestch.2024.101876.	10.1016/j.jestch.2024.101876	5,4
		Lin, X.; Yang, J.; Lin, J.; Dai, P.; Huang, Y.; Che, C. A Study of Multi-Dimensional Defect Size Estimation of Metal Materials Using LIBS Spectral Characterization. OPTICS AND LASERS IN ENGINEERING 2025, 189, doi:10.1016/j.optlaseng.2025.108951.	10.1016/j.optlaseng.2025.108951	3,7
		Zisopol, D.G.; Minescu, M.; Iacob, D.V. A Study on the Influence of FDM Parameters on the Compressive Behavior of PET-G Parts. ENGINEERING TECHNOLOGY & APPLIED SCIENCE RESEARCH 2024, 14, 13592–13597, doi:10.48084/etasr.7063.	10.48084/etasr.7063	0,5

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		Johnson, J.; Kujawski, D. Additively Manufactured Inconel 718 Low-Cycle Fatigue Performance. APPLIED SCIENCES-BASEL 2025, 15, doi:10.3390/app15031653.	10.3390/app15031653	2,5
		Radi, A.; Isil, C.; Seyedmohammadi, S.V.; Kim, H.S.; Yapici, G.G. Addressing the Strength-Ductility Trade-off in a Thermomechanical-Processed High Entropy Alloy. JOURNAL OF ALLOYS AND COMPOUNDS 2023, 968, doi:10.1016/j.jallcom.2023.172093.	10.1016/j.jallcom.2023.172093	6,3
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		Manikandan, P.; Venkatesan, K. Advancements in Micromachining of Additive Manufactured Materials: A Comprehensive Review. MATERIALS AND MANUFACTURING PROCESSES 2024, 39, 1469–1520, doi:10.1080/10426914.2024.2362621.	10.1080/10426914.2024.2362621	4,7
		Devito, F.; Natalicchio, A.; Lavecchia, F.; Dassisti, M. Advancing Sustainability in Electron and Laser Beam Powder Bed Fusion Technologies via Innovation: Insights from Patent Analysis. COMPUTERS & INDUSTRIAL ENGINEERING 2025, 201, doi:10.1016/j.cie.2024.110794.	10.1016/j.cie.2024.110794	6,5
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		Suarez, A.; Veiga, F.; Penalva, M.; Ramiro, P.; Ballesteros, T. Analysis of the Machining Process of Short Carbon Fiber-Reinforced Polyamide Additive Manufactured Parts. JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T 2024, 30, 3406–3419, doi:10.1016/j.jmrt.2024.04.047.	10.1016/j.jmrt.2024.04.047	6,7
		Batu, T.; Lemu, H.G.; Shimels, H. Application of Artificial Intelligence for Surface Roughness Prediction of Additively Manufactured Components. MATERIALS 2023, 16, doi:10.3390/ma16186266.	10.3390/ma16186266	3,2
		Gobena, S.T.; Woldeyohannes, A.D. Assessments and Investigation of Process Parameter Impacts on Surface Roughness, Microstructure, Tensile Strength, and Porosity of 3D Printed Polyetherether Ketone (PEEK) Materials. RESULTS IN ENGINEERING 2024, 24, doi:10.1016/j.rineng.2024.103317.	10.1016/j.rineng.2024.103317	7,9
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		Zhang, Y.; Zhang, W.; Yang, M.; Li, M.; Zhou, L.; Liu, Y.; Liu, L.; Zheng, Y. Comprehensive Review of Polyetheretherketone Use in Dentistry. JOURNAL OF PROSTHODONTIC RESEARCH 2025, 69, 215–232, doi:10.2186/jpr.JPR_D_24_00142.	10.2186/jpr.JPR_D_24_00142	3,4
		Furbino, M.; Del Olmo, R.; Revilla, R.I.; De Graeve, I. Corrosion Behavior of Steel Parts Repaired Using Additive Manufacturing: Overview and Research Perspective. MATERIALS & DESIGN 2025, 252, doi:10.1016/j.matdes.2025.113769.	10.1016/j.matdes.2025.113769	7,9
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		MAPAN-JOURNAL OF METROLOGY SOCIETY OF INDIA 2025, 40, 1041–1054, doi:10.1007/s12647-025-00862-6.		
		Lea, A.M.; Matalgah, K.; Yudhanto, A.; Fleck, T.J. Effect of Thermal History on the Fracture and Fatigue Behaviors of Semi-Crystalline Polymers Prepared via Material Extrusion Additive Manufacturing. MATERIALS & DESIGN 2025, 254, doi:10.1016/j.matdes.2025.114012.	10.1016/j.matdes.2025.114012	2,7
		Bouchareb, S.; Doufnoune, R. Effect of UV Post-Curing on the Mechanical Properties of Photopolymer Resin in Stereo-Lithographic 3D Printing. MATERIALS LETTERS 2025, 394, doi:10.1016/j.matlet.2025.138587.	10.1016/j.matlet.2025.138587	2,4
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		C1 articol 5 (număr citări) = 10		
		C articol 5 = C1+SFI = 10 + 40 = 50		
Total: **C = 446 + 327 + 207 + 80+ 48 + 50 C = 1158**				

Total punctaj A1 + A2 + A3 = 20 + 108 + 1380 = 1508

Data: 08.06.2026 ***Conf. dr. ing. DINIȚĂ Alin***