

Mecatronica Automobilului
Vibrații Mecanice

FIȘA DE VERIFICARE
a îndeplinirii standardelor minime naționale de prezentare la concurs pentru postul de
Profesor universitar

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Instituția: **Universitatea Tehnică "Gheorghe Asachi" din Iași**

Notă privind îndeplinirea standardelor minime naționale pentru Profesor universitar
(conform Ordin MENCS 6129 din 20/12/2016)

Anexa 17: Comisia Inginerie mecanică, mecatronică și robotică

Domeniul de activitate		Condiții minimele și obligatorii Profesor		
		Indicatori	impus	realizat
Activitatea didactică / profesională (A1)	A1.1	N1	2	3
		N1.1	1	3
		N1.3	1	1
	A1.2	N2	4	28
		N2.1	2	24
Activitatea de cercetare (A2)	A2.1 + A2.3	P1 + P2	10	32.09
		P1	6	32.09
	A2.2	N3	10	45
		N3.1	5	8
	A2.4 + A2.5	N4	2	7
		N4.3	1	2
	A3.1	S1 + S2	50	122.16
Recunoașterea impactului activității (A3)	A3.2	N5	10	45
	A3.3	C	25	1408.37

Anexa nr. 17 – COMISIA INGINERIE MECANICĂ, MECATRONICĂ ȘI ROBOTICĂ
STANDARDE MINIMALE NECESARE ȘI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR ȘI A GRADELOR
PROFESIONALE DE CERCETARE – DEZVOLTARE⁽¹⁾

Nr.	Domeniul activităților	Rezultatele activităților	Subcategoriile		Indicatori
			Format tipărit/electronic ⁽²⁾ (min. 100 pag.)	Coordonator/prim autor Co-autor	
1	Activitatea didactică și profesională DID (A1)	Manuale suport de curs (conform fișei disciplinei de concurs)	A1.1	Format electronic disponibil pe platforma universității (autor)	N1.1 = număr N1.2 = număr N1.3 = număr
		Material didactic /Dezvoltare laboratoare, aplicații	A1.2	Standuri laborator (construcție/modernizări) certificate de directorul de departament Îndrumar laborator/carte aplicații format tipărit sau electronic (autor, co-autor)	N2.1 = număr N2.2 = număr
		Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS) ⁽³⁾ , unde n = nr.de autori și FI este factorul de impact ⁽⁴⁾	A2.1	Aplicație informatică educațională Autor corespondent / prim autor Co-autor	N2.3 = număr P1.1 = 2 · (0.2 + FI) P1.2 = 2 · 3 · (0.2 + FI)/n P1.3 = 0.2 + FI P1.4 = 3 · (0.2 + FI)/n
		Articole și publicații științifice BDI ⁽⁵⁾ neincluse la A2.1	A2.2	Autor corespondent/prim autor Co-autor	N3.1 = număr N3.2 = număr
2	Activitatea de cercetare științifică, dezvoltare tehnologică și inovare - CDI (A2)	Brevete de invenții indexate ⁽⁶⁾	A2.3.	Internationale indexate în Web of Science – Derwent Innovation Naționale indexate OSIM	P2.1 = același calcul cu A2.1 și FI = 2 P2.2 = același calcul cu A2.1 și FI = 0.5
		Produse, tehnologii, platforme și servicii inovative (validate conform procedurilor specifice unităților de învățământ superior sau de cercetare)	A2.4	Coordonator/prim autor Co-autor	N4.1 = număr N4.2 = număr
		Monografii/cărți de specialitate ⁽²⁾ , format tipărit/electronic (min. 100 pag.)	A2.5	Coordonator/prim autor Co-autor	N4.3 = număr N4.4 = număr
		Atragere resurse financiare prin granturi/proiecte/contracte terți	A3.1	Director sau responsabil partener la grant/proiect câștigat prin competiție națională sau internațională Membru în echipă la grant/proiect câștigat prin competiție națională sau internațională, proiecte/contracte terți	S1 ⁽⁷⁾ = sumă echivalentă în mil Euro ⁽⁹⁾ S2 ⁽⁸⁾ = sumă echivalentă în mii Euro ⁽⁹⁾
3	Recunoașterea și impactul activității - RIA (A3)	Prezentarea/Diseminarea rezultatelor: prezență la manifestări științifice în calitate de autor/co-autor de lucrări, profesor invitat	A3.2	Congrese/conferințe/workshopuri internaționale, profesor invitat la universități/institute din străinătate	N5 = număr
		Citări în publicații BDI ⁽⁵⁾ (se exclud autocitările)	A3.3.	C1 = numărul de citări SFI = suma factorilor de impact al publicațiilor WOS în care apar citările	C = C1 + SFI

¹ Intră în vigoare din anul universitar academic 2018/2019. Pentru anul academic 2017/2018 rămân valabile standardele aflate în vigoare la data de 03.10.2016.

² Publicația este înregistrată în fondul de carte al bibliotecii naționale sau al bibliotecilor universităților respective.

³ Se exclud publicațiile conferințelor DAAAM și WSEAS.

⁴ FI este factorul de impact al revistei la data înscrierii la concurs sau la data publicării articolului (cel mai avantajos pentru candidat). Se iau în considerare la această categorie numai revistele cu factor de impact la data publicării articolului. O revistă WOS este echivalentă cu o revistă cotelă ISI cf. Ordinului de Ministru (MECTS) Nr. 4478 din 23 iunie 2011, publicat în Monitorul Oficial, Partea I, Nr. 448/27.VI.2011.

⁵ Bazele de date BDI acceptate sunt: Web of Science Thomson Reuters (WOS) și SCOPUS.

⁶ Un brevet se poate încadra la o singură categorie.

⁷ Suma din grant/proiect încasată de instituție repartizată echipei din care directorul de grant/responsabil partener face parte (S1 include cheltuieli de: personal, logistică, deplasări, indirecte).

⁸ Suma din grant/proiecte câștigate prin concurs național/internațional și proiecte/contracte terți încasată de instituție și repartizată de director/responsabil persoanei respective (S2 include cheltuieli de: personal, logistică, deplasări, indirecte).

⁹ Pentru contractele derulate înainte de 01.01.1999 se va considera echivalarea: 1 EURO = 1 \$ USA.

Condiții minimele și obligatorii					
Domeniul de activitate	Indicatori	Conferențiar	Profesor	CSII	CSI
Activitatea didactică / profesională (A1)	A1.1	N1	2	Nu se aplică	Nu se aplică
		N1.1	0		
		N1.3	1		
	A1.2	N2	3		
		N2.1	1		
Activitatea de cercetare (A2)	A2.1 + A2.3	P1 + P2	5	5	10
		P1	3	2	4
	A2.2	N3	8	8	10
		N3.1	3	3	5
	A2.4 + A2.5	N4	1	1	2
		N4.3	0	0	1
		S1 + S2	10	10	50
Recunoașterea impactului activității (A3)	A3.1				
	A3.2	N5	5	5	10
	A3.3	C	10	10	25

unde: P1 = P1.1 + P1.2 + P1.3 + P1.4; P2 = P2.1 + P2.2;

N1 = N1.1 + N1.2; N2 = N2.1 + N2.2 + N2.3; N3 = N3.1 + N3.2;

N4 = N4.1 + N4.2 + N4.3 + N4.4.

Detaliile criteriilor privind îndeplinirea standardelor minime naționale pentru Profesor universitar

Nr.	Domeniul activităților	Rezultatele activităților	Indicatori	Punctaj
1	Activitatea didactică și profesională DID (A1)	A1.1 Manuale suport de curs (conform fișei disciplinei de concurs)		
		A1.1.1 Marcelin BENCHEA , "Sisteme Mecatronice la Autovehicule Hibride și Electrice", Editura Universității Tehnice "Gheorghe Asachi" din Iași, ISBN 978-973-621-551-3, 280 pg., 2024	N1.1	1
		A1.1.2 Marcelin BENCHEA , Flavian Farcaș, "Mecatronica Autovehiculului. Echipamente de management și control", Editura Politehnicum, Iași, ISBN 978-973-621-502-5, 165 pg., 2021	N1.1	1
		A1.1.3 Marcelin BENCHEA , Flavian Farcaș, "Mecatronica Autovehiculului. Echipamente de siguranță și confort", Editura Politehnicum, Iași, ISBN 978-973-621-503-2, 165 pg., 2021	N1.1	1
		A1.1.4 Marcelin BENCHEA , "Echipamente Mecatronice ale Autovehiculului", suport de curs pentru specializările de Mecatronică licență și master, 350 pg., 2021 (disponibil în format pdf pe Web: https://mec.tuiasi.ro/studenti/informatii-utile/manuale-electronice/)	N1.3	1
		A1.2 Material didactic /Dezvoltare laboratoare, aplicații		
		N2.1 Standuri laborator (construcție/ modernizări) certificate de directorul de departament		
		A1.2.1 Elemente constructive ale sistemului de rulare. Construcția roților la autovehicule	N2.1	1
		A1.2.2 Construcții de sisteme de direcție asistată	N2.1	1
		A1.2.3 Sistem de direcție asistată electric variabil	N2.1	1
		A1.2.4 Elemente constructive pentru frânarea autovehiculelor	N2.1	1
		A1.2.5 Construcția sistemului de frânare la autoturismele Dacia	N2.1	1
		A1.2.6 Asistența sistemului de frânare	N2.1	1
		A1.2.7 Elemente constructive utilizate la suspensia autovehiculelor	N2.1	1
		A1.2.8 Tipuri constructive de suspensii la autovehicule	N2.1	1
		A1.2.9 Construcția punții și suspensiei din față. Diagnosticare și întreținere	N2.1	1
		A1.2.10 Construcția punții și suspensiei din spate. Diagnosticare și întreținere	N2.1	1
		A1.2.11 Construcția și funcționarea sistemului de încălzire centralizată	N2.1	1
		A1.2.12 Construcția și funcționarea sistemului de ștergătoare cu senzor de ploaie	N2.1	1
		A1.2.13 Construcția și funcționarea sistemului de iluminare. Faruri adaptive	N2.1	1
		A1.2.14 Ambreiaje mecanice cu fricțiune și cutii de viteză	N2.1	1
		A1.2.15 Construcția și funcționarea sistemului de recirculare a gazelor arse. Supapa EGR	N2.1	1
		A1.2.16 Construcția și funcționarea sistemului de frânare. Sistemul ABS	N2.1	1
		A1.2.17 Construcția și funcționarea sistemului de direcție. Direcții asistate	N2.1	1
		A1.2.18 Construcția și funcționarea sistemului de siguranță pasivă. Airbag	N2.1	1

		A1.2.19 Analiza caracteristicii de zgomet la atenuatoare de zgomet	N2.1	1
		A1.2.20 Standul de instruire practică în mecanică FESTO sponsorizat din fondul BORGWARNER (Banc de lucru metalic cu blat din lemn, Stație de lucru cu stand cu motor de acționare și sisteme de siguranță, Transmisii mecanice cu lanțuri, curele și roți dintate, Cuplaje, Etanșări, Determinarea nivelului de zgomet și vibrație, etc. - nivel avansat 5 module) în valoare de 250000 RON, echipa de lucru - 7 membri (coordonator conf.dr.ing. Gelu Ianuș)	N2.1	1
		A1.2.21 Filete - Elemente Geometrice. Forțe și Momente. Determinarea coeficientului de frecare în asamblări filetate	N2.1	1
		A1.2.22 Determinarea presiunii reale într-o cuplă de frecare. Profilometrul Taylor-Hobson	N2.1	1
		A1.2.23 Studiul fenomenului de frecare în cuple de clasa a II-a și a III-a. Mașina AMSLER	N2.1	1
		A1.2.24 Studiul fenomenelor de uzare din cuplele de frecare. Tribometrul CETR UMT-2	N2.1	1
		N2.2 Îndrumar laborator/carte aplicații format tipărit sau electronic (autor, co-autor)		
		A1.2.25 Marcelin BENCHEA , Mihaela-Rodica Bălan, "Construcția și calculul sistemelor de control al mișcării autovehiculelor - Îndrumar de laborator", Editura Universității Tehnice "Gheorghe Asachi" din Iași, ISBN 978-973-621-539-1, 210 pg., 2024	N2.2	1
		A1.2.26 Marcelin BENCHEA , "Echipamente Mecatronice la Automobile. Îndrumar", pentru specializările de Mecatronică licență și master, 165 pg., 2021 (disponibil pe Web: https://mec.tuiasi.ro/studenti/informatii/manuale-electronice/)	N2.2	1
		A1.2.27 Marcelin BENCHEA , "Mecatronica Automobilului. Lucrări de laborator", Editura Politehnicum, Iași, ISBN 978-973-621-494-3, 140 pg., 2020	N2.2	1
		A1.2.28 Spiridon Crețu, Mihaela Bălan, Marcelin BENCHEA , Ana Tufescu, Ciprian Stamate, "Organe de mașini. Lucrări", Editura Tehnopress, Iași, ISBN 978-606-687-014-6, 260 pg., 2013	N2.2	1
		A2.1 Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS) ⁽³⁾		
		A2.1.1 A.M. Cazac, R.G. Chelariu, R. Cimpoeșu, M.A. Bernevig, M. Benchea *, A.M. Jurca, A.M. Radu, G.D. Vasilescu, B. Garaliu-Busoi, F.C. Lupu, G. Badarau, C. Bejinariu, "Investigation of CuTi alloy for Applications as Non-Sparking Material", Applied Sciences, IF = 2.5 , ISSN 2076-3417, vol. 14, nr. 24, 11574, pp.17, 2024, Investigation of CuTi Alloy for Applications as Non-Sparking Material 2-3-(0.2+2.5)/12= 1.35	P1.2	1.35
		A2.1.2 A.T. Șutic, R. Chelariu, R. Cimpoeșu, A.M. Roman, B. Istrate, V. Goanță, M. Benchea , M. Moscu, A. Alexandru, N. Cimpoeșu, G. Zegan, "Corrosion Behavior and Mechanical Properties of Zn-Ti Alloys as Biodegradable Materials", Metals, IF = 2.6 , ISSN 2075-4701, vol. 14, nr. 7, 764, pp.20, 2024, Metals Free Full-Text Corrosion Behavior and Mechanical Properties of Zn-Ti Alloys as Biodegradable Materials (mdpi.com) 3-(0.2+2.6)/11= 0.763	P1.4	0.76
		A2.1.3 R.G. Chelariu, R. Cimpoeșu, A.M. Jurca, C.M. Popa, M. Benchea , G. Badarau, B. Istrate, A.M. Cazac, N. Cimpoeșu, D.D. Pintilie, G.D. Vasilescu, C. Bejinariu, "Analysis of Chemical, Microstructural and Mechanical Properties of a CuAlBe Material as Non-Sparking Material", Materials, IF = 3.1 , ISSN 1996-1944, vol. 17, nr. 10, 2220, pp.15, 2024, Materials Free Full-Text Analysis of Chemical, Microstructural and Mechanical Properties of a CuAlBe Material Regarding Its Role as a Non-Sparking Material (mdpi.com) 3-(0.2+3.1)/12= 0.825	P1.4	0.83
		A2.1.4 T. Panaite, C. Savin, N.D. Olteanu, N. Karvelas, C. Romanec, R.M. Vieriu, C. Balcos, M.S. Baltatu, M. Benchea , D. Achitei, I. Zetu, "Heat Treatment's Vital Role: Elevating Orthodontic Mini-Implants for Superior Performance and Longevity-Pilot Study", Dentistry Journal, IF = 2.5 , ISSN 2304-6767, vol. 12, nr. 4, 103, pp.14, 2024, Dentistry Journal Free Full-Text Heat Treatment's Vital Role: Elevating Orthodontic Mini-Implants for Superior Performance and Longevity-Pilot Study (mdpi.com) 3-(0.2+2.5)/11= 0.736	P1.4	0.74
		A2.1.5 F.C. Lupu, C. Munteanu, S. Miftu, M. Benchea , R. Cimpoeșu, G. Ferguson, S. Boese, P. Schwartz, B. Istrate, V.N. Arsenoia, "Evaluation of the Wear Properties and Corrosion Resistance of 52100 Steel Coated with Ni/CrC by Cold Spray",	P1.4	0.93

	Coatings, IF = 2.9 , ISSN 2079-6412, vol. 14, nr. 1, 145, pp.17, 2024, Coatings Free Full-Text Evaluation of the Wear Properties and Corrosion Resistance of 52100 Steel Coated with Ni/CrC by Cold Spraying (mdpi.com) 3-(0.2+2.9)/10= 0.93		
	A2.1.6 P. Lazar, N. Cimpoesu, B. Istrate, A.M. Cazac, D.P. Burduhos-Nergis, M. Benchea , A. Berbecaru, G. Badarau, G.D. Vasilescu, M. Popa, C. Bejinariu, "Microstructural and Mechanical Properties Analysis of Phosphate Layers Deposited on Steel Rebars for Civil Constructions", Coatings, IF = 2.9 , ISSN 2079-6412, vol. 14, nr. 2, 182, pp.14, 2024, Coatings Free Full-Text Microstructural and Mechanical Properties Analysis of Phosphate Layers Deposited on Steel Rebars for Civil Constructions (mdpi.com) 3-(0.2+2.9)/11= 0.845	P1.4	0.85
	A2.1.7 D. Agop Forna, C. Munteanu, O. Stamatin, N. Forna, M. Benchea , G. Shokraei, S. Petruta, V. Hutanu, N. Forna, "Comparative "In-vitro" Study of Biodegradable Biomaterials from the MgCaGd and MgCaZr Systems for Applications in Bone Reconstruction of the Maxilla", Romanian Journal of Oral Rehabilitation, IF = 0.6 , ISSN 2066-7000, vol. 15, nr. 2, pp.126-136, 2023, Romanian Journal of Oral Rehabilitation (rjor.ro) 3-(0.2+0.6)/9= 0.267	P1.4	0.27
	A2.1.8 D. Agop Forna, C. Topoliceanu, O. Stamatin, N. Forna, C. Munteanu, M. Benchea , A. Davidescu, B. Toader, R. Biciusca, N. Forna, "The Biomechanical Characteristics of Intraoral Bone Reconstruction Materials", Romanian Journal of Oral Rehabilitation, IF = 0.6 , ISSN 2066-7000, vol. 15, nr. 2, pp.388-398, 2023, Romanian Journal of Oral Rehabilitation (rjor.ro) 3-(0.2+0.6)/10= 0.24	P1.4	0.24
	A2.1.9 M. Lufcanu, R. Cimpoesu, M. Abrudeanu, C. Munteanu, S. Moga, M. Coteata, G. Zegan, M. Benchea , N. Cimpoesu, A.M. Murariu, "Mechanical Properties and Thermal Shock Behavior of Al ₂ O ₃ -YSZ Ceramic Layers Obtained by Atmospheric Plasma Spraying", Crystals, IF = 2.4 , ISSN 2073-4352, vol. 13, nr. 4, 614, pp.16, 2023, Mechanical Properties and Thermal Shock Behavior of Al2O3-YSZ Ceramic Layers Obtained by Atmospheric Plasma Spraying 3-(0.2+2.4)/10= 0.78	P1.4	0.78
	A2.1.10 A. Iovan, M. Benchea *, S. Stoleriu, I. Tărăboanță, N. Cimpoesu, I. Nica, S. Andrian, "Effects of Acidic Challenge on Demineralized Root Surface Treated with Silver Diamine Fluoride and Potassium Iodide", Diagnostics, IF = 3 , ISSN 2075-4418, vol. 13, nr. 3, 530, pp.11, 2023, Diagnostics Free Full-Text Effects of Acidic Challenge on Demineralized Root Surface Treated with Silver Diamine Fluoride and Potassium Iodide (mdpi.com) 2-3-(0.2+3)/7= 2.742	P1.2	2.74
	A2.1.11 D.C. Achitei, M.S. Baltatu, P. Vizureanu, A.V. Sandu, M. Benchea *, B. Istrate, "Ni-Cr Alloys Assessment for Dental Implants Suitability", Applied Sciences, IF = 2.5 , ISSN 2076-3417, vol. 12, nr. 24, 12814, pp.11, 2022, Applied Sciences Free Full-Text Ni-Cr Alloys Assessment for Dental Implants Suitability (mdpi.com) 2-3-(0.2+2.5)/6= 2.7	P1.2	2.7
	A2.1.12 C. Panaghie, R. Cimpoesu, G. Zegan, A.M. Roman, M.C. Ivanescu, A.A. Aelenei, M. Benchea , N. Cimpoesu, N. Ioanid, "In Vitro Corrosion Behavior of Zn3Mg0.7Y Biodegradable Alloy in Simulated Body Fluid (SBF)", Applied Sciences, IF = 2.5 , ISSN 2076-3417, vol. 12, nr. 5, 2727, pp.20, 2022, Applied Sciences Free Full-Text In Vitro Corrosion Behavior of Zn3Mg0.7Y Biodegradable Alloy in Simulated Body Fluid (SBF) (mdpi.com) 3-(0.2+2.5)/9= 0.9	P1.4	0.9
	A2.1.13 C. Panaghie, N. Cimpoesu, M. Benchea , A.M. Roman, V. Manole, A. Alexandru, R. Cimpoesu, M.M. Cazacu, I. Wnuk, G. Zegan, "In-vitro" Tests on New Biodegradable Metallic Material Based on ZnMgY, Arch Metall Mater, IF = 0.7 , ISSN 1733-3490, vol. 67, nr. 2, pp.587-594, 2022, "In-vitro" Tests on New Biodegradable Metallic Material Based on ZnMgY (imim.pl) 3-(0.2+0.7)/10= 0.27	P1.4	0.27
	A2.1.14 I. Bălțatu, A.V. Sandu, M.S. Bălțatu, M. Benchea , D.C. Achitei, F. Ciolacu, M.C. Perju, P. Vizureanu, L. Benea, "Structural and Physical Characterization of New Ti-Based Alloys", Arch Metall Mater, IF = 0.7 , ISSN 1733-3490, vol. 67, nr. 1, pp.255-259, 2022, Structural and Physical Characterization of New Ti-Based Alloys (imim.pl) 3-(0.2+0.7)/9= 0.3	P1.4	0.3
	A2.1.15 Mazurchevici S.N., Marguta A., Istrate B., Benchea M. , Boca M., Nedelcu D., "Improvements of Arboblend V2 Nature Characteristics through Depositing Thin Ceramic Layers", Polymers, IF = 4.7 , ISSN 2073-4360, vol. 13, nr. 21, 3765, pp.21, 2021, Polymers Free Full-Text Improvements of Arboblend V2 Nature Characteristics through Depositing Thin Ceramic Layers (mdpi.com) 3-(0.2+4.7)/6= 2.45	P1.4	2.45

A2.1.16	M.S. Bălăţu, C.A. Tugui, M.C. Perju, M. Benchea , M.C. Spătaru, A.V. Sandu, P. Vizureanu, "Biocompatible Titanium Alloys used in Medical Applications", Revista de Chimie, IF = 1.755 , ISSN 0034-7752, vol. 70, nr. 4, pp.1302-1306, 2019, Biocompatible Titanium Alloys used in Medical Applications (revistadechimie.ro) 3·(0.2+1.755)/7= 0.837	P1.4	0.84
A2.1.17	Oancea I., Bujoreanu C., Budescu M., Benchea M. , Grădinaru C.M., "Considerations on sound absorption coefficient of sustainable concrete with different waste replacements", J. of Clean. Prod., IF = 9.7 , ISSN 0959-6526, Vol. 203, pp.301-312, DOI: 10.1016/j.jclepro.2018.08.273, 2018, 3·(0.2+9.7)/5= 5.94 Considerations on sound absorption coefficient of sustainable concrete with different waste replacements - ScienceDirect	P1.4	5.94
A2.1.18	Bujoreanu C., Irimiciuc S., Benchea M. , Nedeff F., Agop M., "A fractal approach of the sound absorption behaviour of materials. Theoretical and experimental aspects", Int. J. of Non-Lin. Mech., IF = 2.8 , ISSN 0020-7462, vol. 103, pp.128-137, 2018, 3·(0.2+2.8)/5= 1.8 A fractal approach of the sound absorption behaviour of materials. Theoretical and experimental aspects - ScienceDirect	P1.4	1.8
A2.1.19	Bujoreanu C., Nedeff F., Benchea M. , Agop M., "Experimental and theoretical considerations on sound absorption performance of waste materials including the effect of backing plates", Appl. Acoustics, IF = 3.4 , ISSN 0003-682X, Vol. 119, pp.88-93, 2017, Experimental and theoretical considerations on sound absorption performance of waste materials including the effect of backing plates - ScienceDirect 3·(0.2+3.4)/4= 2.7	P1.4	2.7
A2.1.20	Istrate B., Munteanu C., Crimu C.I., Strugaru S.I., Benchea M. , Earar K., "Morphological and tribological aspects of some ZrO ₂ coatings on Mg-Ca biodegradable alloys", Indian J. of Eng. & Mat. Sci., IF =0.7 , ISSN 0971-4588, vol. 23, pp.418-424, 2016, Morphological and tribological aspects of some ZrO2 coatings on Mg-Ca biodegradable alloys (IJEMS-NIScPR PUBLICATIONS) 3·(0.2+0.7)/6= 0.45	P1.4	0.45
A2.1.21	Drăgan E., Odri G.A., Benchea M. , Ferariu D., Zugun-Eloae F., Geletu G., Galesanu C., Haba D., Melian G., "Strontium ranelate effects on inorganic bone grafts in maxillary sinus floor augmentation", Revista de Chimie, IF = 1.755 , ISSN 0034-7752, vol. 67, nr. 3, pp.512-516, 2016, Strontium Ranelate Effects on Inorganic Bone Grafts in Maxillary Sinus Floor Augmentation (revistadechimie.ro) 3·(0.2+1.755)/9= 0.651	P1.4	0.65
A2.1.22	Creţu S., Benchea M. , Iovan-Dragomir A., "On basic reference rating life of cylindrical roller bearings. Part II - Elastic-Plastic Analysis", Journal of the Balkan Tribological Association, IF = 0.737 , ISSN 1310-4772, Vol. 22, No 1, pp.272-280, 2016, Article (scibulcom.net) 0.2+0.737= 0.937	P1.3	0.94
A2.1.23	Creţu S., Benchea M. , Iovan-Dragomir A., "On basic reference rating life of cylindrical roller bearings. Part I - Elastic Analysis", Journal of the Balkan Tribological Association, IF = 0.737 , ISSN 1310-4772, Vol. 21, No 4, pp.820-830, 2015, Article (scibulcom.net) 0.2+0.737= 0.937	P1.3	0.94
A2.1.24	Ştirbu I., Vizureanu P., Cimpoeşu R., Dascălu G., Gurlui S.O., Bernevig M., Benchea M. , Cimpoeşu N., Postolache P., "Advanced metallic materials response at laser excitation for medical applications", Journal of Optoelectronics and Advanced Materials, IF = 0.6 , ISSN 1454-4164, vol. 17, ISS. 7-8, 2015, JOAM :: Articles (inoe.ro) 3·(0.2+0.6)/9= 0.267	P1.4	0.27
A2.1.25	Avram P., Imbrea M.S., Istrate B., Strugaru S.I., Benchea M. , Munteanu C., "Properties of Al ₂ O ₃ and NiAlSi coatings obtained by atmospheric plasma spraying on 34CrNiMo6 substrate", I Indian J. of Eng. & Mat. Sci., IF = 0.7 , ISSN 0971-4588, Vol. 21, pp.315-321, 2014, Properties of Al2O3 and NiAlSi coatings obtained by atmospheric plasma spraying on 34CrNiMo substrate (IJEMS-NIScPR PUBLICATIONS) 3·(0.2+0.7)/6= 0.45	P1.4	0.45
A2.2	Articole şi publicaţii ştiinţifice BD(6) neincluse la A2.1		
A2.2.1	Benchea M. , Bujoreanu C., Şerbănoiu B., Chiriac A.E., Ianuş G., "The Impact of Complex Periodic Structures on the Acoustic Performance of Architectural Materials: An Interdisciplinary Approach", Innovations in Mechanical Engineering. iCieng 2024, Lecture Notes in Mechanical Engineering, Springer, Cham., 2024, doi:10.1007/978-3-031-62684-5_12, The	N3.1	1

	Impact of Complex Periodic Structures on the Acoustic Performance of Architectural Materials: An Interdisciplinary Approach SpringerLink		
	A2.2.2 G.R. Chelariu, N. Cimpoeșu, P. Paraschiv, B.A. Prisecariu, I. Rusu, I. Știrbu, G.I. Sandu, M. Benchea* , C. Bejinariu, "Structural and Mechanical Properties of Hot Rolled Cu/Al/Be Non-Spark Alloy", Arch Metall Mater, IF = 0.7, ISSN 1733-3490, vol. 69, nr. 1, pp.263-268, 2024, Structural and Mechanical Properties of Hot Rolled Cu/Al/Be Non-Spark Alloy (imim.pl)	N3.1	1
	A2.2.3 Munteanu C., Chicet D.L., Istrate B., Benchea M. , Paulin C., Vida-Simiti I., "Evaluation of abrasive wear resistance of self-fluxing Ni-base coatings by scratch testing", Journal of Engineering Sciences and Innovation, ISSN 2601-6699, vol. 8, nr. 1, pp.31-42, 2023, Journal of Engineering Sciences and Innovation	N3.2	1
	A2.2.4 D.P. Burduhos-Nergis, A.V. Sandu, D.D. Burduhos-Nergis, N. Cimpoeșu, M. Benchea , M. Popa, C. Bejinariu, "Tribological Characterization of Phosphate Coatings Deposited on Ti6Al4V", Springer Proceedings in Materials, Springer, Cham., vol.38, pp.9-21, 2023, Tribological Characterization of Phosphate Coatings Deposited on Ti6Al4V SpringerLink	N3.2	1
	A2.2.5 M.S. Bălățu, P. Vizureanu, A.V. Sandu, I. Bălățu, D.D. Burduhos-Nergis, M. Benchea , "Prospects on Titanium Biomaterials", European Journal of Materials Science and Engineering, ISSN 2537-4338, vol. 8, nr. 4, pp.201-212, 2023, Prospects on Titanium Biomaterials-EJMSE-23-191	N3.2	1
	A2.2.6 Nițu N.A., Benchea M. , Ianuș G., Bujoreanu C., "Noise Attenuation Analysis of a Multilayer Wall", Innovations in Mechanical Engineering II. icieng 2022, Lecture Notes in Mechanical Engineering, Springer, Cham., 2023, doi:10.1007/978-3-031-09382-1_5, Noise Attenuation Analysis of a Multilayer Wall SpringerLink	N3.2	1
	A2.2.7 B. Istrate, M. Benchea , V. Goanta, C. Munteanu, M.S. Baltatu, "Study of the Tribological and Mechanical Properties of Some Biodegradable Mg-Ca-Zn Alloys", Int. J. of Modern Manufact. Technolog., ISSN 2067-3604, vol. 15, nr. 2, pp.63-69, 2023, International Journal - IJMMT ISSN 2067-3604: Journal Volumes	N3.2	1
	A2.2.8 R.G. Chelariu, M. Benchea , R. Cimpoeșu, O. Rusu, V. Mandole, D.P. Burduhos-Nergis, N. Cimpoeșu, C. Bejinariu, "Structural and mechanical characterization of as-cast Cu/Al/Be alloy", Materials Today: Proceedings, ISSN 2214-7653, vol. 72, nr. 2, pp.594-599, 2023, Structural and mechanical characterization of as-cast Cu/Al/Be alloy - ScienceDirect	N3.2	1
	A2.2.9 Marguta A., Mazurchevici S.N., Popa R.I., Benchea M. , "Surface Characterization of Arboblend V2 Nature Coated with Ceramic micro particles", International Journal of Manufacturing Economics and Management, ISSN 2784-1278, vol. 2, nr. 1, pp.35-40, 2022, Surface Characterization of Arboblend V2 Nature Coated with Ceramic micro particles (ijmem.ro)	N3.2	1
	A2.2.10 Benchea M. , Crețu S., "An Investigation Regarding the Impact of Running-in on Rolling Contacts Lives", Innovations in Mechanical Engineering. icieng 2021, Lecture Notes in Mechanical Engineering, Springer, Cham., 2022, doi:10.1007/978-3-030-79165-0_43, An Investigation Regarding the Impact of Running-In on Rolling Contacts Lives SpringerLink	N3.1	1
	A2.2.11 Benchea M. , Bujoreanu C., Ianuș G., "Acoustic Performance of Some Lined Dissipative Silencers", Innovations in Mechanical Engineering. icieng 2021, Lecture Notes in Mechanical Engineering, Springer, Cham., 2022, doi:10.1007/978-3-030-79165-0_29, Acoustic Performance of Some Lined Dissipative Silencers SpringerLink	N3.1	1
	A2.2.12 Benchea M. , Crețu S., "Surface roughness influence on active surfaces geometry and modified rating life of rolling contacts", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 724, 2020, doi:10.1088/1757-899X/724/1/012025, Surface roughness influence on active surfaces geometry and modified rating life of rolling contacts - IOPscience	N3.1	1
	A2.2.13 Bujoreanu C., Tufescu A., Benchea M. , Ianuș G., "Experimental study of acoustic performances of reactive engine mufflers", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 564, 2019, doi:10.1088/1757-899X/564/1/012077, Experimental study of acoustic performances of reactive engine mufflers - IOPscience	N3.2	1
	A2.2.14 Benchea M. , Crețu S., "Influence of the roughness on surface geometry of rolling contacts", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 514, 2019, doi:10.1088/1757-899X/514/1/012001, Influence of the roughness on surface geometry of rolling contacts - IOPscience	N3.1	1

	A2.2.15 Bujoreanu C., Benchea M. , Ianuș G., Machado J., "Theoretical and Experimental Considerations on Acoustic Attenuation of Plenum Boxes Lined with Different Materials", Innovation, Engineering and Entrepreneurship. HELIX 2018, Lecture Notes in Electrical Engineering, vol 505, Springer, Cham., 2019, Theoretical and Experimental Considerations on Acoustic Attenuation of Plenum Boxes Lined with Different Materials SpringerLink	N3.2	1
	A2.2.16 Mahu G., Munteanu C., Istrate, B., Benchea M. , "Analysis of plasma jet depositions on a C45 steel used in crankshaft manufacturing", Materials Research Proceed., ISSN 2474-395X, Vol. 8, pp.61-69, doi:10.21741/9781945291999-7, 2018, Analysis of plasma jet depositions on a C45 steel used in crankshaft manufacturing-Web of Science Core Collection	N3.2	1
	A2.2.17 Panțuru M., Chicet D., Mocănița O., Benchea M. , Munteanu C., "Morphology and mechanical characteristics of some TBCs used for internal combustion valves", Materials Research Proceed., ISSN 2474-395X, Vol. 8, pp.192-199, doi: 10.21741/9781945291999-22, 2018, https://www.webofscience.com/wos/woscc/full-record/WOS:000452925200022	N3.2	1
	A2.2.18 Lupescu S., Munteanu C., Istrate B., Luca D., Benchea M. , Mahu G., "Experimental, microstructural and tribological studies of the system Mg-2Ca-5Y", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 444, doi:10.1088/1757-899X/444/3/032008, 2018, Experimental, microstructural and tribological studies of the system Mg-2Ca-5Y - IOPscience	N3.2	1
	A2.2.19 Mahu G., Munteanu C., Istrate, B., Benchea M. , Lupescu S., "Influence of Al2O3-13TiO2 powder on a C45 steel using atmospheric plasma spray process", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 444, doi:10.1088/1757-899X/444/3/032010, 2018, Influence of Al2O3-13TiO2 powder on a C45 steel using atmospheric plasma spray process - IOPscience	N3.2	1
	A2.2.20 Stescu C., Chicet D., Munteanu C., Istrate B., Benchea M. , Basescu G.N., "Aspects regarding the influence of the processing regime on the surface quality of thermal sprayed coatings", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 444, 2018, Aspects regarding the influence of the processing regime on the surface quality of thermal sprayed coatings - IOPscience	N3.2	1
	A2.2.21 Minciună M.G., Achiței D.C., Vizureanu P., Benchea M. , Sandu A.V., "The Effect of Heat Treatment and Corrosion Behavior of AISI420", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 374, DOI: 10.1088/1757-899X/374/1/012039, 2018, The Effect of Heat Treatment and Corrosion Behavior of AISI420 - IOPscience	N3.2	1
	A2.2.22 Țugui C.A., Vizureanu P., Perju M.C., Savin C., Nejnaru C., Bălțatu M.S., Bejinariu C., Benchea M. , "Assessment of Hard Thin Layers Deposited by Plasma Spray on Hydroabration", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 374, DOI: 10.1088/1757-899X/374/1/012029, 2018, Assessment of Hard Thin Layers Deposited by Plasma Spray - IOPscience	N3.2	1
	A2.2.23 C. Munteanu, S. Lupescu, B. Istrate, V.I. Antoniac, M. Benchea , A. Savin, "Some Tribological Aspects of Mg-0.5Ca-xY Biodegradable Materials", Key Engineering Materials, ISSN 1013-9826, Vol. 782, pp.136-141, 2018, Some Tribological Aspects of Mg-0.5Ca-xY Biodegradable Materials Scientific.Net	N3.2	1
	A2.2.24 M.S. Bălțatu, P. Vizureanu, M. Benchea , M.G. Minciună, D.C. Achiței, B. Istrate, "Ti-Mo-Zr-Ta Alloy for Biomedical Applications: Microstructures and Mechanical Properties", Key Engineering Materials, ISSN 1013-9826, Vol. 750, pp.184-188, 2017, https://www.scientific.net/KEM.750.184	N3.2	1
	A2.2.25 C. Stescu, C. Munteanu, D. Luca, B. Istrate, M. Benchea , D. Chicet, B. Oprisan, "Increasing Wear Resistance of Power Steering Pump Cam Using Ni-Cr-Fe and Ni-Cr-Fe-B Coatings", Materials Science Forum, ISSN 0255-5476, Vol. 907, pp.145-150, 2017, https://www.scientific.net/MSF.907.145	N3.2	1
	A2.2.26 C. Florea, C. Bejinariu, C. Savin, B. Istrate, M. Benchea , R. Cimpoeșu, "Adhesion Characterisation of Complex Ceramics Thin Layers Deposited on Metallic Substrate", Materials Science Forum, ISSN 0255-5476, Vol. 907, pp.126-133, 2017, https://www.scientific.net/MSF.907.126	N3.2	1
	A2.2.27 Bujoreanu C., Benchea M. , "Experimental investigation of noise characteristics for HVAC silencers", MATEC Web Conf., vol. 112, 07001, 2017, Experimental investigation of noise characteristics for HVAC silencers(matec-conferences.org)	N3.2	1
	A2.2.28 O. Mocănița, D. Chicet, M. Benchea , B. Istrate, C. Munteanu, "Coating of Liquid Wood Sheets", Materials Science Forum, ISSN 0255-5476, Vol. 907, pp.134-139, 2017, https://www.scientific.net/MSF.907.134	N3.2	1

A2.2.29 Bujoreanu C., Benchea M. , "Some considerations on noise monitoring for air handling equipments", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 174 (1), 012066, 2017, Some considerations on noise monitoring for air handling equipments - IOPscience	N3.2	1
A2.2.30 B. Istrate, C. Munteanu, S. Lupescu, M. Benchea , P. Vizureanu, "Preliminary Microstructural and Microscratch Results of Ni-Cr-Fe and Cr ₃ C ₂ -NiCr Coatings on Magnesium Substrate", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 209 (1), 012024, 2017, Preliminary Microstructural and Microscratch Results of Ni-Cr-Fe and Cr₃C₂-NiCr Coatings on Magnesium Substrate - IOPscience	N3.2	1
A2.2.31 D.C. Achitei, M.M.A.B. Abdullah, A.V. Sandu, A.C. Tugui, M. Benchea , "Structural Modifications of Superficial Layer of C45 Steel Samples Through WT20 and WZf8 Depositions", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 209 (1), 012053, 2017, Structural Modifications of Superficial Layer of C45 Steel Samples Through WT20 and WZf8 - IOPscience	N3.2	1
A2.2.32 C. Paulin, D. Chicet, V. Paleu, M. Benchea , Ş. Lupescu, C. Munteanu, "Dry friction aspects of Ni-based self-fluxing flame sprayed coatings", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 227 (1), 012091, 2017, Dry friction aspects of Ni-based self-fluxing flame sprayed coatings - IOPscience	N3.2	1
A2.2.33 G. Mahu, C. Munteanu, B. Istrate, M. Benchea , "Plasma sprayed coatings on crankshaft used steels", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 227 (1), 012077, 2017, http://iopscience.iop.org/article/10.1088/1757-899X/227/1/012077/meta	N3.2	1
A2.2.34 Mihai Rusu, Daniela Ioniță, Marcelin Benchea *, Vlad Cărlescu and Dumitru Olaru, "Friction of the polymers. Experimental results and analytical model", Applied Mechanics and Materials, ISSN 1662-7482, Vol. 823, pp.473-478, Trans Tech Publications, Elveția, 2016, http://www.scientific.net/AMM.823.473	N3.1	1
A2.2.35 Bujoreanu C., Benchea M. , "Experimental study on HVAC sound parameters", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 147 (1), 012051, 2016, http://iopscience.iop.org/article/10.1088/1757-899X/147/1/012051	N3.2	1
A2.2.36 Balan Mihaela Rodica, Tufescu Ana, Benchea Marcelin , Olaru Dumitru, "Friction Torque in Low Loaded Thrust Ball Bearings", Proceedings of the Innovative Manufacturing Technology International Conference IManE 2015, May 20-22, Iași, Romania, 2015, http://www.scientific.net/AMM.809-810.676	N3.2	1
A2.2.37 Tarabonta P., Paleu V., Bujoreanu C., Benchea M. , Olaru N.D., "Some Considerations on Vibration Diagnose of Miniature Ball Bearings", Proceedings of the Innovative Manufacturing Technology International Conference IManE 2015, May 20-22, Iași, Romania, 2015, http://www.scientific.net/AMM.809-810.670	N3.2	1
A2.2.38 Ioan Stirbu, Petrica Vizureanu, Nicanor Cimpoesu, Ramona Cimpoesu, Marcelin Benchea , "Implant Material for Sportive Injuries", 4th International Congress of Physical Education, Sports and Kinetotherapy (ICPESK2014), pp.169-174, 2015, Implant Material for Sports Injuries-Web of Science Core Collection	N3.2	1
A2.2.39 Benchea M. , Iovan-Dragomir A., Crețu S., "Misalignment effects in cylindrical roller bearings", Applied Mechanics and Materials, ISSN 1662-7482, Vol. 658, pp.277-282, Trans Tech Publications, Elveția, 2014, doi:10.4028/ Scopus - Document details - Misalignment effects in cylindrical roller bearings	N3.1	1
A2.2.40 Gavrilă G., Crețu S., Benchea M. , "Wear Prediction in Wheel-Rail Contact Under Partial Slip Conditions", Applied Mechanics and Materials, ISSN 1662-7482, Vol. 658, pp.317-322, Trans Tech Publications, Elveția, 2014, doi:10.4028/ Scopus - Document details - Wear prediction in wheel-rail contact under partial slip conditions	N3.2	1
A2.2.41 A.C. Bărbîntă, R. Chelariu, M. Benchea , C.I. Crimu, S.I. Strugaru, C. Munteanu, "A comparative analysis of new Ti-Nb-Zr-Ta orthopedic alloys", Advanced Materials Research, Vol. 837, pp.259-264, Trans Tech Publications, Elveția, 2014, doi:10.4028/ Scopus - Document details - A comparative analysis of new Ti-Nb-Zr-Ta orthopedic alloys	N3.2	1
A2.2.42 S. Crețu, M. Benchea , "An Elastic-Plastic Approach on Misalignment Effects in Cylindrical Roller Bearings", Proc. of the 5th World Tribology Congress (WTC 2013), Vol. 1, ISBN 978-1-63439-352-2, Torino, Italy, September 8-13, 2013, Scopus - Document details - An elastic-plastic approach on misalignment effects in cylindrical roller bearings	N3.2	1

	A2.2.43 S. Crețu, M. Benchea , „An Elastic-Plastic Analysis of Profile Evolution in Cylindrical Roller Bearings”, Proc. of the ASME 11th Bienn. Conf. on Eng. Sys. Des. and Anal. ESDA 2012, Vol. 4, pp.565-574, Nantes, France, July 2-4, 2012, Scopus - Document details - An elastic-plastic analysis of profile evolution in cylindrical roller bearings	N3.2	1
	A2.2.44 Crețu S., Benchea M. , Crețu O., „Compressive Residual Stress Effect on Fatigue Life of Ball Bearings”, ASME International Mechanical Engineering Congress and Exposition IMECE2007-paper 43561, November 11-15, 2007, Seattle, Washington, USA, 2007, Scopus - Document details - Compressive residual stresses effect on fatigue life of rolling bearings	N3.2	1
	A2.2.45 Crețu S., Benchea M. , „Analysis of Residual Stresses Impact on Fatigue Life of Rolling Contacts”, STLE/ASME International Joint Tribology Conference IJTC2007-paper 44399, October 22-24, 2007, San Diego, California, USA, 2007, Scopus - Document details - Analysis of residual stresses impact on fatigue life of rolling contacts	N3.2	1
	A2.4 Produse, tehnologii, platforme și servicii inovative (validate conform procedurilor specifice unităților de învățământ superior sau de cercetare)		
	A2.4.1 Metodologie și implementare pentru determinarea atenuării de zgomot a unui perete multistrat. Obs: A fost derulat 1 contract de cercetare cu agenți economici unde sunt director de proiect (A3.1.2) și publicat 1 articol (A2.2.6).	N4.1	1
	A2.4.2 Metodologie și implementare pentru diagnosticarea acustică a unităților de ventilat de tip HVAC. Obs: Au fost derulate 7 contracte de cercetare cu agenți economici unde sunt membru în echipa de proiect (A3.1.8, A3.1.9, A3.1.11, A3.1.13, A3.1.16, A3.1.17 și A3.1.18) și publicate 3 articole (A2.2.29, A2.2.35 și A3.2.22) cu 10 citări (A3.3.34, A3.3.36).	N4.2	1
	A2.4.3 Metodologie și implementare pentru diagnosticare acustică a atenuatoarelor de zgomot pentru unitățile de tip HVAC Obs: Au fost derulate 3 contracte de cercetare cu agenți economici unde sunt membru în echipa de proiect (A3.1.10, A3.1.12 și A3.1.14) și publicate 4 articole (A2.2.11, A2.2.13, A2.2.15 și A2.2.27) cu 1 citări (A3.3.8).	N4.2	1
	A2.4.4 Metodologie și implementare a sistemului de măsurare a coeficienților de absorbție acustică a materialelor. Obs: A fost derulat 1 contract de cercetare cu agenți economici unde sunt membru în echipa de proiect (A3.1.15) și publicate 3 articole (A2.1.17, A2.1.18 și A2.1.19) cu 158 de citări (A3.3.18, A3.3.21 și A3.3.30).	N4.2	1
	A2.4.5 Metodologie originală și stand (adaptare tribometru CETR UMT-2) pentru estimarea influenței zonelor plastice interioare asupra stării de tensiuni și deformații la solicitarea de contact a diverselor tipuri de elemente de mașină din structura sistemelor mecanice. Obs: Au fost derulate 2 contracte de cercetare câștigate prin competiție națională unde sunt director sau membru în echipa de proiect (A3.1.19 și A3.1.20) și publicate 11 articole (A2.2.43, A2.2.44, A3.2.39, A3.2.40, A3.2.41, A3.2.42, A3.2.43, A3.2.44 și A3.2.45) cu 13 citări (A3.3.49), concretizate ulterior prin publicarea monografiei A2.5.2.	N4.1	1
	A2.5 Monografii/cărți de specialitate ⁽²⁾ , format tipărit/electronic (min. 100 pag.)		
	A2.5.1 Marcelin BENCHEA , „Cercetări privind îmbunătățirea performanțelor și a unor caracteristici ale sistemelor mecanice”, Editura Tehnopress, Iași, ISBN 978-606-687-523-3, 140 pg., 2024	N4.3	1
	A2.5.2 Marcelin BENCHEA , „Impactul zonelor plastice interioare asupra comportării tribologice și a durabilității contactelor de rostogolire”, Editura Politehnicum, Iași, ISBN 978-973-621-493-6, 140 pg., 2020	N4.3	1
	A3.1 Atragere resurse financiare prin granturi/proiecte/contracte terți		
3	Recunoașterea și impactul activității - RIA (A3) A3.1.1 GRANT UEFISCDI PN-IV-P8-8.3-ROMD-2023-0108 tema 13ROMD/2024. Cercetări asupra îmbunătățirii grapelor cu discuri prin acoperiri termice în jet de plasmă Beneficiar: UEFISCDI Director proiect: prof.univ.dr.ing. Corneliu Munteanu, U.T. Iași	S2	3.09

	Valoare proiect: 477500 RON (încasat prin Polytech 61504 RON în 2024) Perioada: 2024-2026 (curs mediu euro 4.9748) Marcelin BENCHEA : membru în echipa de cercetare (9 membri)			$0.25 \cdot 61.504 / 4.9748 = 3.091$	
	A3.1.2 Contract nr. 4637/2023. <i>Analiza și determinarea atenuării de zgomot a unui perete multistrat</i> Beneficiar: S.C. EXTENSIVE NETWORK SRL Iași Director proiect: conf.univ.dr.ing. Marcelin BENCHEA , U.T. Iași Valoare proiect: 12605 RON Perioada: 2023 (curs mediu euro 4.9465)	S1	2.55	$12.605 / 4.9465 = 2.548$	
	A3.1.3 GRANT UEFISCDI PN-III-P1-1.1-TE-2021-0702 tema 27TE/2021. <i>Materiale metalice biodegradabile inovative din sistemul Mg-Ca-Zn utilizate în aplicații ortopedice</i> Beneficiar: UEFISCDI Director proiect: conf.univ.dr.ing. Bogdan Istrate, U.T. Iași Valoare proiect: 450000 RON Perioada: 2022-2024 (curs mediu euro 4.9315/4.9465/4.9748) (valoare anuală 136800/225800/87400 R) Marcelin BENCHEA : membru în echipa de cercetare (9 membri)	S2	22.96	$0.25 \cdot (136.8 / 4.9315 + 225.8 / 4.9465 + 87.4 / 4.9748) = 22.959$	
	A3.1.4 Contract nr. 25212/2020. <i>Program in Materials, Additive and Manufacturing, and Multiscale materials Engineering. 3ME</i> Beneficiar: US Army Director proiect: prof.univ.dr.ing. Corneliu Munteanu, U.T. Iași Valoare proiect: 100000 USD Perioada: 2020-2022 (curs mediu euro 4.9204/4.9315) (valoare anuală 106567.5/332032.5 R) Marcelin BENCHEA : membru în echipa de cercetare (7 membri)	S2	22.40	$0.25 \cdot (106.5675 / 4.9204 + 335.0325 / 4.9315) = 22.398$	
	A3.1.5 GRANT UEFISCDI PN-III-P1-1.2-PCCDI-2017-0239 tema 60PCCDI/2018. <i>Obținerea și expertizarea unor noi materiale biocompatibile pentru aplicații medicale. Proiect component 1 ORTOMAG</i> Beneficiar: UEFISCDI Director proiect: prof.univ.dr.ing. Corneliu Munteanu, U.T. Iași Valoare proiect: 445000 RON Perioada: 2018-2021 (curs mediu euro 4.6535/4.7452/4.8371/4.9204) (valoare anuală 118620/113176.5/118628/30275.5 R) Marcelin BENCHEA : membru în echipa de cercetare (14 membri)	S2	23.32	$0.25 \cdot (118.62 / 4.6535 + 113.1765 / 4.7453 + 182.628 / 4.8371 + 30.2755 / 4.9204) = 23.316$	
	A3.1.6 GRANT UEFISCDI PN-III-P1-1.2-PCCDI-2017-0239 tema 60PCCDI/2018. <i>Obținerea și expertizarea unor noi materiale biocompatibile pentru aplicații medicale. Proiect component 3 BIODENTRUT</i> Beneficiar: UEFISCDI Director proiect: prof.univ.dr.ing. Corneliu Munteanu, U.T. Iași Valoare proiect: 212000 RON Perioada: 2018-2021 (curs mediu euro 4.6535/4.7452/4.8371/4.9204) (valoare anuală 61480/65190/73196/12134 R) Marcelin BENCHEA : membru în echipa de cercetare (6 membri)	S2	11.14	$0.25 \cdot (61.48 / 4.6535 + 65.19 / 4.7453 + 73.196 / 4.8371 + 12.134 / 4.9204) = 11.138$	
	A3.1.7 Contract nr. 488/2018. <i>Testarea pe tribometre a lubrifiantilor auto de tip Metalubs</i> Beneficiar: S.C. Metalubs S.R.L. Brașov Director proiect: conf.univ.dr.ing. Viorel Paleu, U.T. Iași Valoare proiect: 17226 RON Perioada: 2018 (curs mediu euro 4.6535) Marcelin BENCHEA : membru în echipa de cercetare (5 membri)	S2	1.85	$0.5 \cdot 17.226 / 4.6535 = 1.85$	

	<p>A3.1.8 Contract nr. 21896/2018. Analiza caracteristicilor de zgomot pentru unitatea de ventilat AHU-300 Built-in, fabricată de S.C.Ensyro SRL</p> <p>Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca</p> <p>Director proiect: prof.univ.dr.ing. Carmen Bujoreanu, U.T. Iași</p> <p>Valoare proiect: 10000 RON</p> <p>Perioada: 2018 (curs mediu euro 4.6535)</p> <p>Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	1.07
	<p>A3.1.9 Contract nr. 16663/2017. Analiza caracteristicilor de zgomot pentru unitatea de ventilat AHU-700BV/BH, fabricată de S.C. Ensyro SRL</p> <p>Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca</p> <p>Director proiect: prof.univ.dr.ing. Carmen Bujoreanu, U.T. Iași</p> <p>Valoare proiect: 10000 RON</p> <p>Perioada: 2017 (curs mediu euro 4.5681)</p> <p>Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	1.09
	<p>A3.1.10 Contract nr. 1615P/2016. Analiza caracteristicilor de zgomot și a atenuării pentru 9 variante constructive de atenua-toare câptușite cu materiale diferite Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca</p> <p>Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași</p> <p>Valoare proiect: 15000 RON</p> <p>Perioada: 2016 (curs mediu euro 4.4908)</p> <p>Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	1.67
	<p>A3.1.11 Contract nr. 605P/2016. Analiza caracteristicilor de zgomot pentru unitatea de ventilat AHU-400BV/BH, fabricată de S.C. Ensyro SRL</p> <p>Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca</p> <p>Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași</p> <p>Valoare proiect: 10000 RON</p> <p>Perioada: 2016 (curs mediu euro 4.4908)</p> <p>Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	1.11
	<p>A3.1.12 Contract nr. 2001P/2015. Analiza caracteristicilor de zgomot pentru patru variante constructive de atenuatoare de zgomot (125/125 la 90° și 180°; 160/160 la 90° și 180°) produse de S.C. Ensyro SRL</p> <p>Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca</p> <p>Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași</p> <p>Valoare proiect: 10000 RON</p> <p>Perioada: 2015 (curs mediu euro 4.445)</p> <p>Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	1.12
	<p>A3.1.13 Contract nr. 1980P/2015. Analiza caracteristicilor de zgomot pentru unitatea de ventilat AHU-350BV, fabricată de S.C. Ensyro SRL</p> <p>Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca</p> <p>Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași</p> <p>Valoare proiect: 10000 RON</p> <p>Perioada: 2015 (curs mediu euro 4.445)</p> <p>Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	1.12

	<p>A3.1.14 Contract nr. 1324P/2015. Analiza caracteristicii de zgomot pentru patru variante constructive de atenuatoare de zgomot (125/125; 160/160; 200/200; 250/250) produse de S.C. Ensyro SRL</p> <p>Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca</p> <p>Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași</p> <p>Valoare proiect: 15000 RON</p> <p>Perioada: 2015 (curs mediu euro 4.445)</p> <p>Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	1.69
	<p>A3.1.15 Contract nr. 1101P/7.07.2015. Analiza coeficientului de absorbție acustică pentru materiale fonoabsorbante</p> <p>Beneficiar: UNIVERSITATEA „VASILE ALECSANDRI” din BACĂU</p> <p>Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași</p> <p>Valoare proiect: 5000 RON</p> <p>Perioada: 2015 (curs mediu euro 4.445)</p> <p>Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	0.56
	<p>A3.1.16 Contract nr. 60P/20.01.2015. Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-300BVBH, fabricată de S.C. Ensyro SRL</p> <p>Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca</p> <p>Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași</p> <p>Valoare proiect: 10000 RON</p> <p>Perioada: 2015 (curs mediu euro 4.445)</p> <p>Marcelin BENCHEA: membru în echipa de cercetare (3 membri)</p>	S2	1.12
	<p>A3.1.17 Contract nr. 1489P/21.10.2014. Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-300H, fabricată de S.C. Ensyro SRL</p> <p>Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca</p> <p>Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași</p> <p>Valoare proiect: 10000 RON</p> <p>Perioada: 2014 (curs mediu euro 4.4446)</p> <p>Marcelin BENCHEA: membru în echipa de cercetare (3 membri)</p>	S2	1.12
	<p>A3.1.18 Contract nr. 1010P/14.07.2014. Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-400HV, fabricată de S.C. Ensyro SRL</p> <p>Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca</p> <p>Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași</p> <p>Valoare proiect: 8065 RON</p> <p>Perioada: 2014 (curs mediu euro 4.4446)</p> <p>Marcelin BENCHEA: membru în echipa de cercetare (3 membri)</p>	S2	0.91
	<p>A3.1.19 GRANT CNCISIS TD-190 contract nr.338/1.10.2007 tema Cercetări privind influența zonelor plastice interioare asupra stării de tensiuni și deformații la solicitarea de contact</p> <p>Beneficiar: CNCISIS</p> <p>Director proiect: Marcelin BENCHEA, U.T. Iași</p> <p>Valoare proiect: 40497 RON</p> <p>Perioada: 2007-2009 (curs mediu euro 3.3373/3.6827/4.2373) (valoare anuală 7100/26500/6896.77 RON)</p> <p>(7.1/3.3373+26.5/3.6827+6.89677/4.2373)=10.95</p>	S1	10.95
	<p>A3.1.20 GRANT CNCISIS Tip A 63GR/2006 tema 9/28, 80GR/2007 tema 17, 77GR/2008 tema 9 Cercetări teoretice și experimentale privind relația dintre microtopografie, rodaj și fiabilitatea contactelor cu rostogolire cu aplicație pe rulmenți de</p>	S2	11.32

	<p>turație înaltă și angrenaje cilindrice</p> <p>Beneficiar: CNCSIS</p> <p>Director proiect: prof.univ.dr.ing. Spiridon Crețu, U.T. Iași</p> <p>Valoare proiect: 159500 RON</p> <p>Perioada: 2006-2008 (curs mediu euro 3.5245/3.3373/3.6827) (valoare anuală 53000/47700/58800 RON)</p> <p>Marcelin BENCHEA: membru în echipa de cercetare (10 membri)</p>			
	<p>A3.2 Prezentarea/Diseminarea rezultatelor: prezență la manifestări științifice în calitate de autor/co-autor de lucrări, profesor invitat</p>			
	<p>A3.2.1 Participare la conferința: "ICIE2024 - International Conference Innovation in Engineering", June 26-28, 2024, Guimarães, Portugal, cu lucrarea A2.2.1, 2024_06_22b-PROGRAM.pdf (icieng.eu)</p>	N5	1	
	<p>A3.2.2 Participare la conferința: "The 11th International Conference on Advanced Concepts in Mechanical Engineering ACME2024", June 6-7, 2024, Iași, România, ACME 2024 - Conference program, cu lucrările:</p> <p>1. M. Benchea, L. Andrușcă, T. Chiruiță, „Investigating mechanical properties of additively manufactured biodegradable PLA material”.</p> <p>2. E.A. Chiriac, Carmen Bujoreanu, M. Benchea, „Acoustic properties evaluation of sound absorbing panels prototypes”.</p>	N5	1	
	<p>A3.2.3 Participare la conferința: "The 15th International Conference on Tribology ROTRIB'24", April 19-21, 2024, București, România, ROTRIB 24 Final program 13.04_1.pdf (sciencesconf.org), cu lucrările:</p> <p>1. E.A. Chiriac, M. Benchea, C. Bujoreanu, „Impact wear effect on sound absorbing panels”.</p> <p>2. G. Macovei, M. Benchea, V. Paleu, „Tribological characterization of additively manufactured parts by digital light processing, subjected to linear reciprocating motion”.</p>	N5	1	
	<p>A3.2.4 Participare la conferința: "The 13th International Conference on Materials Science and Engineering - BRAMAT 2024", March 13-16, 2024, Brașov, România, bramat.ro/uploads/717/4/0/7/7408170/program_bramat2024_ap.pdf, cu lucrările:</p> <p>1. R.G. Chelariu, R. Cimpoesu, M. Benchea, D.P. Burduhos Nergis, B. Istrate, A.M. Cazac, N. Cimpoesu, G. Badarau, C. Bejinariu, A.M. Jurca, C.M. Popa, „Evaluation of new non-sparking material based on CuAlBe”.</p> <p>2. F.C. Lupu, B. Istrate, M. Benchea, C. Munteanu, R. Cimpoesu, „Cold spray coatings influence over the mechanical and electrochemical properties of steel substrate 52100”.</p> <p>3. I. Adomniței, M. Axinte, M. Luțcanu, G. Bădărău, M.G. Hutanu, A.M. Roman, D.L. Chicet, N. Cimpoesu, C. Munteanu, B. Istrate, M. Benchea, S. Moga, „Preliminary results on the obtaining of ceramic layers through APS from YSZ (38% yttria) powders”.</p>	N5	1	
	<p>A3.2.5 Participare la conferința: "The 11th International Conference Modern Technologies in Industrial Engineering - ModTech 2023", June 14-17, 2023, Bucharest, Romania, cu lucrarea A2.2.8, Book of abstracts Conference ModTech 2023</p>	N5	1	
	<p>A3.2.6 Participare la conferința: "The 15th edition of International Conference on Innovative Research - ICIR Euroinvent 2021", May 11-13, 2023, Iași, România, cu lucrarea A2.2.4, ICIR_2023.pdf (euroinvent.org)</p>	N5	1	
	<p>A3.2.7 Participare la conferința: "The 3rd International Biennial Conference on Biomaterials and Novel Technologies for Healthcare - BIOMAH 2022", October 18-21, 2022, Rome, Italy, Programme-3rd-BioMaH-v18_var01.pdf (cnr.it), cu lucrarea: B. Istrate, C. Munteanu, R. Cimpoesu, M. Benchea, M.S. Baltatu, J.V. Rau, „Influence of Zn on properties evaluation of Mg-0.5Ca-xZn biodegradable alloys”.</p>	N5	1	
	<p>A3.2.8 Participare la conferința: "The 12th International Conference on Materials Science and Engineering - BRAMAT 2022", March 9-12, 2022, Brașov, România cu lucrările A2.2.5 și III (bramat.ro):</p> <p>C. Munteanu, R.G. Ciubotariu, M. Benchea, V. Paleu, B. Istrate, S. Muftu, „Morphological and tribological evaluation of Ni-CRC cold spray coatings deposited on AISI 1018 steel”.</p>	N5	1	

A3.2.9	Participare la conferința: "ICIE2022 - International Conference Innovation in Engineering", June 28-30, 2022, Guimarães, Portugal, cu lucrarea A2.2.6, 2022_06_22 - PROGRAM - GLOBAL.pdf (dropbox.com)	N5	1
A3.2.10	Participare la conferința: "ICIE2020 - International Conference Innovation in Engineering", June 28-30, 2021, Guimarães, Portugal, cu lucrările A2.2.10 și A2.2.11, 2021_06_27-ICIE2020-SCHEDULE.pdf (icieng.eu)	N5	1
A3.2.11	Participare la conferința: "The 7 th edition of International Conference on Innovative Research - ICIR Euroinvent 2021", May 20-21, 2021, Iași, România, ICIR_2021.pdf (euroinvent.org) , cu lucrările: 1. C. Panaghie, R. Cimpoeșu, M. Benchea , A.M Roman, V. Manole, A. Alexandru, N. Cimpoeșu, M.M. Cazacu, „ <i>Preliminary Results of in Vitro Tests on New Biodegradable Metallic Material Based on ZnMg</i> ”. 2. D.C. Achitei, M.S. Baltatu, S.C. Lupescu, A.V. Sandu, M. Benchea , „ <i>Characterization of Ni-Cr Alloys Used for Dental Applications</i> ”.	N5	1
A3.2.12	Participare la conferința: "The 14 th International Conference on Tribology ROTRIB'19", September 19-21, 2019, Cluj-Napoca, România, cu lucrarea A2.2.12, Program (utcluj.ro)	N5	1
A3.2.13	Participare la conferința: "The 23 th edition of IManEE 2019 International Conference", May 22-24, 2019, Pitești, România, cu lucrarea A2.2.13, Program IManEE 2019	N5	1
A3.2.14	Participare la conferința: "The X th Product Design, Robotics, Advanced Mechanical & Mechatronic Systems and Innovation Conference - PRASIC'2018", November 9-10, 2018, Brașov, România, cu lucrarea A2.2.14, Conferințe - Facultatea de Design de produs și mediu (unitbv.ro)	N5	1
A3.2.15	Participare la conferința: "Regional HELIX 2018 - International Conference on Innovation, Engineering and Entrepreneurship", June 27-29, 2018, Guimarães, Portugal, cu lucrarea A2.2.15, Schedule - Regional HELIX (ipcb.pt)	N5	1
A3.2.16	Participare la conferința: "The 8 th International Conference on Advanced Concepts in Mechanical Engineering ACME 2018", June 7-8, 2018, Iași, România, cu lucrările A2.2.18, A2.2.19 și A2.2.20, ACME Machine Elements and Tribology	N5	1
A3.2.17	Participare la conferința: "The 4 th edition of International Conference on Innovative Research - ICIR Euroinvent 2018", May 17-18, 2018, Iași, România, cu lucrările A2.2.21 și A2.2.22, ICIR2018.pdf (euroinvent.org)	N5	1
A3.2.18	Participare la conferința: "The 5 th International Conference on Powder Metallurgy & Advanced Materials RoPM-AM2017", September 17-20, 2017, Cluj-Napoca, România, cu lucrările A2.2.16 și A2.2.17, RoPM-AM2017 (easychair.org)	N5	1
A3.2.19	Participare la conferința: "The 21 th edition of Innovative Manufacturing Engineering and Energy International Conference - IManEE 2017", May 25-26, 2017, Iași, România, cu lucrarea A2.2.27, Program IManEE 2017	N5	1
A3.2.20	Participare la conferința: "The 3 rd edition of International Conference on Innovative Research - ICIR Euroinvent 2017", May 25-26, 2017, Iași, România, cu lucrările A2.2.30 și A2.2.31, ICIR_2017.pdf (euroinvent.org)	N5	1
A3.2.21	Participare la conferința: "The 10 th International Conference on Materials Science and Engineering - BRAMAT 2017", March 8-11, 2017, Brașov, România, cu lucrările A2.2.25, A2.2.26 și A2.2.28, Schedule Program (bramat.ro)	N5	1
A3.2.22	Participare la conferința: "The 40 th International Conference on Mechanics of Solids, Acoustics and Vibrations & The 6 th International Conference on Advanced Composite Materials Engineering - COMAT2016 & ICMSAV2016", November 24-25, 2016, Brașov, România, FINAL PROGRAMME - ICMSAV 2016 and COMAT 2016 (google.com) cu lucrarea: M. Benchea , C. Bujoreanu, „ <i>Experimental investigation of noise parameters in HVAC systems</i> ”, Bulletin of Transilvania University of Brașov, Series 1-Engineering Sciences, vol.1, pp.42-47, 2016, EXPERIMENTAL (unitbv.ro)	N5	1
A3.2.23	Participare la conferința: "The 13 th International Conference on Tribology ROTRIB'16", September 22-24, 2016, Galați, România, cu lucrarea A2.2.29, Schedule Program Rotrib 16 - IOPscience	N5	1
A3.2.24	Participare la conferința: "The 7 th International Conference on Advanced Concepts in Mechanical Engineering ACME2016", June 9-10, 2016, Iași, România, cu lucrarea A2.2.35, ACME Machine Elements and Tribology (tuiasi.ro)	N5	1

	A3.2.25 Participare la conferința: "The 6 th International Conference „Computational Mechanics and Virtual Engineering, COMEC2015", October 15-16, 2015, Braşov, România, FINAL PROGRAMME COMEC2015 (google.com) cu lucrarea: Mihai Adrian Rusu, Daniela Ioniță, Marcelin Benchea , Vlad Cârlescu, Dumitru Olaru, „ <i>Analytical Model for Friction Force Between a Steel Roller and a Plane Polymer Sample in Sliding Motion</i> ”, Bulletin of Transilvania University of Braşov, Series 1-Engineering Sciences, vol.68, pp.383-388, ISSN 2457-8541, 2015, Analytical Model for Friction Force (unitbv.ro)	N5	1
	A3.2.26 Participare la conferința: "International Conference of Mechanical Engineering, ICOME 2015", October 8-9, 2015, Craiova, România, cu lucrarea A2.2.34, Papers (ucv.ro)	N5	1
	A3.2.27 Participare la conferința: "The 19 th edition of Innovative Manufacturing Engineering and Energy International Conference - IManEE 2015", May 21-22, 2015, Iași, România, cu lucrările A2.2.36 și A2.2.37, Conference Program IManEE	N5	1
	A3.2.28 Participare la conferința: "The 18 th International Conference TEHNOMUS New Technologies and Products in Machines Manufacturing Technologies", May 8-9, 2015, Suceava, România, Program final 2015.pdf (usv.ro) cu lucrarea: Mihaela Rodica Balan, Ana Tufescu, Marcelin Benchea , Dumitru Olaru, "Influence of the cage on the friction in low loaded thrust ball bearings", TEHNOMUS CONFERENCE (usv.ro)	N5	1
	A3.2.29 Participarea la conferința: "The 8 th International Conference on Tribology BALKANTRIB'14", 30 th Oct.-1 st Nov., 2014, Sinaia, România, Balkantrib 2014 (upg-ploiesti.ro) cu lucrările: 1. Carmen Bujoreanu, Marcelin Benchea , Dumitru Olaru, „Acoustic Emission Monitoring of Lubrication Regimes in Rolling Contacts”, LL&A4, diseminată ulterior în Buletinul IPI, Tomul LXI (LXV), Fasc. 1, Secția Construcții de Mașini, ISSN 1011-2855, pp.123-134, 2015. 2. Dumitru N. Olaru, Mihaela Rodica D. Bălan, Marcelin Benchea , Alexandru Budel, Gheorghe Prisacaru, „Influence of the Balls Interactions Forces on Friction in Linear Guidance Systems”, TME7. 3. Spiridon Crețu, Marcelin Benchea , Alina Iovan Dragomir, „The Misalignment and Reference Rating Life of Cylindrical Roller Bearings - an Elastic-Plastic Analysis”, Cmech5, diseminată ulterior în lucrările A2.1.22 și A2.1.23. 4. George Gavrilă, Marcelin Benchea , Spiridon Crețu, „Experimental Evaluation of the Stick-Slip Phenomenon”, BALKANTRIB'14, 8 th International Conference on Tribology, Cmech6.	N5	1
	A3.2.30 Participare la conferința: "The 4 th International Congress of Physical Education, Sports and Kinetotherapy", June 11-13, 2014, București, România, cu lucrarea A2.2.38, http://www.unefs.ro/international/Program_ICPESK_2014.pdf	N5	1
	A3.2.31 Participare la conferința: "The 5 th World Tribology Congress WTC2013", September 8-13, 2013, Torino, Italy, cu lucrarea A2.2.42, WTC2013-1183, Program (wtc2013.it)	N5	1
	A3.2.32 Participare la conferința: "The 17 th International Conference TEHNOMUS New Technologies and Products in Machines Manufacturing Technologies", May 17-18, 2013, Suceava, România, Program final 2013.pdf (usv.ro) cu lucrarea: Iuliana Rotaru, Bogdan Istrate, Marcelin Benchea , Ana Tufescu, Dumitru Olaru, "Mechanical and Structural Characteristics of p(HEMA) Hydrogel for Lumbar Disc Prosthesis", TEHNOMUS CONFERENCE (usv.ro)	N5	1
	A3.2.33 Participare la conferința: "The 11 th Biennial Conference on Engineering Systems Design and Analysis ESDA2012", July 2-4, 2012, Nantes, France, cu lucrarea A2.2.43, ESDA2012-82491, ASME 2012 11th Biennial Conference on Engineering Systems Design and Analysis - ESDA2012 (asmeconferences.org)	N5	1
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