

**UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI**  
**FACULTATEA DE MECANICĂ**  
**DEPARTAMENTUL DE INGINERIE MECANICĂ, MECATRONICĂ ȘI ROBOTICĂ**  
 Concurs pentru ocuparea postului de **Conferențiar universitar**, poz. 18

Disciplinele postului: Bionică  
 Actuatori Neconvenționali  
 Organe de mașini

## **FIȘA DE VERIFICARE**

### **a îndeplinirii standardelor minime naționale de prezentare la concurs pentru postul de conferențiar universitar/ cercetător științific II**

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Instituția: **UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI**

**Notă privind îndeplinirea standardelor minime naționale pentru Conferențiar universitar**  
 (conform Ordin MENCS 6129/20.12.2016)  
 Anexa nr.17 – COMISIA INGINERIE MECANICĂ , MECATRONICĂ ȘI ROBOTICĂ

<b>Condiții minime și obligatorii pentru Conferențiar universitar</b>				
<b>Domeniul de activitate</b>		<b>Indicatori</b>	<b>Impus</b>	<b>Realizat</b>
Activitate didactică/ profesională (A1)	A1.1	N1	2	<b>2</b>
		N1.1	0	<b>1</b>
		N1.3	1	<b>1</b>
	A1.2	N2	3	<b>12</b>
		N2.1	1	<b>8</b>
Activitatea de cercetare (A2)	A2.1 + A2.3	P1 + P2	5	<b>16,296</b>
		P1	3	<b>16,296</b>
	A2.2	N3	8	<b>11</b>
		N3.1	3	<b>5</b>
	A2.4 + A2.5	N4	1	<b>1</b>
		N4.3	0	<b>0</b>
Recunoașterea impactului activității (A3)	A3.1	S1 + S2	10	<b>13,489</b>
	A3.2	N5	5	<b>29</b>
	A3.3	C	10	<b>70</b>

## 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

Nr. crt.	Domeniul activităților	Rezultatele activităților	Subcategorii			Indicatori
1	Activitatea didactică și profesională - DID (A1)	Manuale suport de curs (conform fișei disciplinei de concurs)	A1.1	Format tipărit/ electronic <sup>[1]</sup> (min. 100 pag.)	Coordonator/ prim autor	N1.1 = număr
					Co-autor	N1.2 = număr
				Format electronic disponibil pe platforma universității/ departamentului (autor)		N1.3 = număr
		Material didactic/ Dezvoltare laboratoare, aplicații	A1.2	Standuri laborator (construcție/ modernizări) certificate de directorul de departament		N2.1 = număr
				Îndrumar laborator/ carte aplicații format tipărit sau electronic (autor, co-autor)		N2.2 = număr
				Aplicație informatică educațională		N2.3 = număr
2	Activitatea de cercetare științifică, dezvoltare tehnologică și inovare - CDI (A2)	Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS) <sup>[2]</sup> , unde n = nr.de autori și FI este factorul de impact <sup>[3]</sup>	A2.1	Autor corespondent / prim autor	n ≤ 3	P1.1 = 2*(0,2 + FI)
					n ≥ 4	P1.2 = 2*3*(0,2 + FI)/n
				Co-autor	n ≤ 3	P1.3 = 0,2 + FI
					n ≥ 4	P1.4 = 3*(0,2 + FI)/n
		Articole și publicații științifice BDI <sup>[4]</sup> neincluse la A2.1	A2.2	Autor corespondent/ prim autor		N3.1 = număr
				Co-autor		N3.2 = număr
		Brevete de invenții indexate <sup>[5]</sup>	A2.3.	Internaționale indexate în Web of Science – Derwent Innovation		P2.1 = același calcul cu A2.1 și FI = 2
				Naționale indexate OSIM		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		N4.1 = număr
				Co-autor		N4.2 = număr
3	Recunoașterea și impactul activității - RIA (A3)	Atragere resurse financiare prin granturi/ proiecte/ contracte terți	A3.1	Director sau responsabil partener la grant/ proiect câștigat prin competiție națională sau internațională		S1 <sup>[6]</sup> = sumă echivalentă în mii Euro <sup>[8]</sup>
				Membru în echipă la grant/ proiect câștigat prin competiție națională sau internațională, proiecte/ contracte terți		S2 <sup>[7]</sup> = sumă echivalentă în mii Euro <sup>[8]</sup>
		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 <sup>[4]</sup> (se exclude autocitățile)	A3.3.	C1 = numărul de citări; S <sub>FI</sub> = suma factorilor de impact al publicațiilor WOS în care apar citările		C = C1 + S <sub>FI</sub>

**Note:**

[1] Publicația este înregistrată în fondul de carte al bibliotecii naționale sau al bibliotecilor universităților respective.

[2] Se exclud publicațiile conferințelor DAAAM și WSEAS.

[3] 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 cotate ISI cf. Ordinului de Ministru (MECTS) Nr. 4478 din 23 iunie 2011, publicat în Monitorul Oficial, Partea I, Nr. 448/27.VI.2011.

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

[5] Un brevet se poate încadra la o singură categorie.

[6] 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).

[7] 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).

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

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 conferirea titlului didactic de Conferențiar universitar**

Nr. crt.	Domeniul activităților	Rezultatele activităților	Indicatori	Punctaj/ Număr
1	<b>Activitatea didactică și profesională - DID (A1)</b>	<b>A1.1 Manuale suport de curs (conform fișei disciplinei de concurs)</b>	<b>N1</b>	<b>2</b>
		<b>Vlad Cârlescu, Bionica. Soluții ingineresti inspirate din natură</b> , Editura Universității Tehnice "Gheorghe Asachi" din Iași, 2023, 125 pag., ISBN 978-973-621-536-0	N1.1	1
		Gheorghe Prisăcaru, <b>Vlad Cârlescu</b> , Dumitru Olaru, <i>Actuatori neconvenționali în mecatronică. Principii de funcționare. Aplicații</i> , Editura Tehnopress, Iași, 2014, 180 pag., ISBN 973-702-142-8	N1.2	1
		<b>Vlad Cârlescu</b> , Suport de curs - pentru disciplina Bionică, master anul I, programul de studii Mecatronică Avansată (disponibil pe web) <a href="https://mec.tuiasi.ro/studenti/informatii-utile/manuale-electronice/">https://mec.tuiasi.ro/studenti/informatii-utile/manuale-electronice/</a>	N1.3	1
		<b>A1.2 Material didactic/ Dezvoltare laboratoare, aplicații</b>	<b>N2</b>	<b>12</b>
		<b>Standuri laborator (construcție/ modernizări) certificate de directorul de departament</b>	N2.1	8
		Dotare Laborator Mecatronică Avansată – Facultatea de Mecanică, clădire UTTex, sala 111, et.1: 3D Scanner, Data Storage Computer System, Monitor LED IPS 42.5", Imprimantă 3D +accesorii, Software ANSYS (5 licențe), Workstation HP Z2 server (2 buc.), Echipament MPS 203 Industry 4.0 – FESTO, Echipament MecLab - FESTO (3 buc.), Braț robotic Mitsubishi, Imprimantă multifuncțională Color Laser A3 Printer, Laptop 15.6" FullHD, în valoare de 95624,39 EUR, echipa de lucru - 9 membri (coordonator conf.dr.ing. Gelu Ianuș)	N2.1	1
		Transmisii prin lanțuri. Elemente generale de montare, întreținere și exploatare. Calculul elementelor geometrice. Determinarea turațiilor, momentelor de torsiune și puterilor. <i>Lucrare de laborator la disciplina Organe de Mașini 1, anul II</i>	N2.1	1
		Transmisii prin lanțuri. Cinematica și dinamica transmisiilor prin lanțuri articulate cu role, bușe și bolțuri. Influența pretensionării lanțului asupra parametrilor de funcționare a transmisiei. <i>Lucrare de laborator la disciplina Organe de Mașini 1, anul II</i>	N2.1	1
		Determinarea modului de elasticitate al pielii umane prin metoda indentării folosind Tribometrul UMT-2. <i>Lucrare de laborator la disciplina Bionică, master anul I</i>	N2.1	1
		Determinarea coeficientului de frecare la nivelul pielii umane în contact cu diverse materiale sau suprafețe folosind Tribometrul UMT-2. <i>Lucrare de laborator la disciplina Bionică, master anul I</i>	N2.1	1
		Testarea la frecare a unor polimeri pentru utilizarea lor ca piele artificială în structuri bionice. <i>Lucrare de laborator la disciplina Bionică, master anul I</i>	N2.1	1
		Evaluarea capacității de acțiune a elastomerilor stimulați în câmp electric, <i>Lucrare de laborator la disciplina Actuatori Neconvenționali, master anul I</i>	N2.1	1
		Testarea senzorilor de presiune pe Tribometrul UMT-2, <i>Lucrare de laborator la disciplina Actuatori Neconvenționali, master anul I</i>	N2.1	1
		<b>Îndrumar laborator/ carte aplicații format tipărit sau electronic (autor, co-autor)</b>	N2.2	1
		<b>Vlad Cârlescu, Tribologie. Probleme rezolvate</b> , Editura Universității Tehnice "Gheorghe Asachi" din Iași, 2023, 132 pag., ISBN 978-973-621-534-6	N2.2	1
		<b>Aplicație informatică educațională</b>	N2.3	3
		Modelarea răspunsurilor elastomerilor stimulați în câmp electric prin metoda identificării caracteristicilor de sistem folosind Matlab, <i>Lucrare de Laborator la disciplina Actuatori Neconvenționali, master anul I</i>	N2.3	1

		Proiectarea unui cric auto cu pârgă - Program de calcul numeric în Matlab <i>Proiect la disciplina Organe de Mașini 1, anul II</i>	N2.3	1
		Simularea la impact a unui senzor capacitiv prin metoda elementelor finite în ANSYS Workbench, <i>Lucrare de laborator la disciplina Actuatori Neconvenționali, master anul I</i>	N2.3	1
2	Activitatea de cercetare științifică, dezvoltare tehnologică și inovare - CDI (A2)	<b>A2.1 Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS)<sup>[2]</sup></b>	<b>P1</b>	<b>16.2965</b>
		<b>Cârlescu V.</b> , Opreșan C.M., Chiriac B., Ianuș G., Olaru D.N., <i>Influence of Hand Sanitisers on the Friction Properties of the Finger Skin Amid the COVID-19 Pandemic</i> , 1st International Conference on Innovation in Engineering, ICIE 2021 Guimarães 28 June 2021 through 30 June 2021, In: Innovation in <i>Mechanical Engineering, Lecture Notes in Mechanical Engineering</i> Pages 420 – 428 (2022) <b>2*3*(0,2+0)/5</b>	P1.2	0,24
		Radu HARAGA, Daniela CHICET, Stefan TOMA, <b>Vlad CARLESCU</b> , Costica BEJINARIU, <i>Microhardness and Elastic Properties Evaluation of WC-TiC Coatings Obtained by Arc Spraying Process</i> , Archives of Metallurgy and Materials (accepted January 2023) <b>FI=0,6</b> <b>3*(0,2+0,6)/5</b>	P1.4	0,48
		V. Bulbuc, V. Paleu, B. Pricop, M. Popa, <b>V. Carlescu</b> , N. Cimpoesu, and L.G. Bujoreanu, <i>Effects of Dynamic Loading under Extreme Conditions on Wear Resistance of T105Mn120 Castings for Railway Safety Systems</i> , Journal of Materials Engineering and Performance 30:7128-7137 (2021), <b>FI=2,3</b> <b>3*(0,2+2,3)/7</b>	P1.4	1,071
		SIMONA-NICOLETA MAZURCHEVICI, BOGDAN PRICOP, BOGDAN ISTRATE, ANDREI-DANUT MAZURCHEVICI, <b>VLAD CARLESCU</b> , CONSTANTIN CARAUSU, DUMITRU NEDELICU, <i>Technological Parameters Effects on Mechanical Properties of Biodegradable Materials Using FDM</i> , MATERIALE PLASTICE 57 (2) 2020, 215 – 227, <b>FI=0,8</b> <b>3*(0,2+0,8)/7</b>	P1.4	0,428
		C M Oprisan, B Chiriac, <b>V Carlescu</b> and D N Olaru, <i>Friction forces on human finger skin</i> , IOP Conf. Series: Materials Science and Engineering 724 (2020) 012059 <b>3*(0,2+0)/4</b>	P1.4	0,15
		CRISTINA-ANGELA GHIORGHE, <b>VLAD CARLESCU</b> , CLAUDIU TOPOLICEANU, IRINA NICA, GALINA PANCU, GIANINA IOVAN, SORIN ANDRIAN, COSTIN LUPU, <i>Microhardness Investigation of Dental Composite Resins Exposed to Corrosive Environment</i> , MATERIALE PLASTICE 56 No. 2, 2019, 434-439, <b>FI=0,8</b> <b>3*(0,2+0,8)/8</b>	P1.4	0,375
		Panțuru, M., <b>Cârlescu, V.</b> , Chicet, D., Răileanu, L., Munteanu, C., <i>Evaluation of adhesion - Cohesion of some TBCS used for internal combustion engine valves using scratch method</i> , UPB Scientific Bulletin, Series B: Chemistry and Materials Science 81(2), 2019, pp. 215-224 <b>3*(0,2+0)/5</b>	P1.4	0,12
		Cristian Stescu, Daniela Chicet, <b>Vlad Carlescu</b> , Ovidiu Mocanita, Corneliu Munteanu, <i>Microstructural analysis, evaluation of the adhesion and utilization properties of plasma coatings on alloy steel substrate</i> , Materials Today: Proceedings 19 (2019) 1081–1090 <b>3*(0,2+0)/5</b>	P1.4	0,12
		Cristina Angela Ghiorghe, Claudiu Topoliceanu, Sorin Andrian, <b>Vlad Cârlescu</b> , Galina Pancu, Andra Claudia Gamen, Irina Nica, Gianina Iovan, <i>STUDIES ON VICKERS HARDNESS AND</i>	P1.4	0,075

		<p><i>THE ELASTICITY MODULUS OF MATERIALS FOR DENTAL RESTORATION</i>, Romanian Journal of Oral Rehabilitation Vol. 10, No. 2, April-June 2018, pp. 38-44</p> <p><b>3*(0,2+0)/8</b></p>		
		<p>CRISTINA ANGELA GHIORGHE, GIANINA IOVAN, <b>VLAD CĂRLESCU</b>, BOGDAN ISTRATE, GALINA PANCU, SORIN ANDRIAN, <i>Comparative Evaluation of Hardness and Elasticity Modulus of Tooth-Colored Materials for Dental Restoration</i>, REVISTA DE CHIMIE, Vol. 68, Issue 11, November 2017, pp 2623-2627, <b>FI=1,755</b></p> <p><b>3*(0,2+1,755)/6</b></p>	P1.4	0,9775
		<p><b>Vlad Cârlescu</b>, Dumitru N. Olaru, Gheorghe Prisăcaru, Cezar Opreșan and José Machado, <i>Sensors and Actuators on Determining Parameters for Being Considered in Selection of Elastomers for Biomimetic Hands</i>, SENSORS 2017, 17, 1190, 15 pg., <b>FI=3,9</b></p> <p><b>2*3*(0,2+3,9)/5</b></p>	P1.2	4,92
		<p>Dumitru N. Olaru, Mihaela Rodica D. Bălan, Ana Tufescu, <b>Vlad Cârlescu</b>, Gheorghe Prisăcaru, <i>Influence of the cage on the friction torque in low loaded thrust ball bearings operating in lubricated conditions</i>, TRIBOLOGY INTERNATIONAL 107 (2017) pp. 294–305, <b>FI=6,2</b></p> <p><b>3*(0,2+6,2)/5</b></p>	P1.4	3,84
		<p><b>V Cârlescu</b>, G Prisăcaru and D Olaru, <i>Electromechanical response of silicone dielectric elastomers</i>, IOP Conf. Series: Materials Science and Engineering 147 (1), 2016, 012057</p> <p><b>2*(0,2+0)</b></p>	P1.1	0,4
		<p>G Ianuș, A C Dumitrașcu, <b>V Cârlescu</b> and D N Olaru, <i>Friction torque in thrust ball bearings grease lubricated</i>, IOP Conf. Series: Materials Science and Engineering 147 (1), 2016, 012026</p> <p><b>3*(0,2+0)/4</b></p>	P1.4	0,15
		<p>C Opreșan, <b>V Cârlescu</b>, A Barnea, Gh Prisăcaru, D N Olaru and Gh Plesu, <i>Experimental determination of the Young's modulus for the fingers with application in prehension systems for small cylindrical objects</i>, IOP Conf. Series: Materials Science and Engineering 147 (1), 2016, 012058</p> <p><b>3*(0,2+0)/6</b></p>	P1.4	0,1
		<p><b>Vlad Cârlescu</b>, Florin Breabăn, Gheorghe Prisăcaru, Gelu Ianuș, Maria Cazacu, <i>Electromechanical Strain Response of PDMS/TiO<sub>2</sub>/SiO<sub>2</sub> at Variable Electric Fields</i>, MATERIALE PLASTICE 50, No. 2, 2013, pp. 141-145, <b>FI=0,8</b></p> <p><b>2*3*(0,2+0,8)/5</b></p>	P1.2	1,2
		<p><b>Vlad Cârlescu</b>, Florin Breabăn, Dumitru Olaru, Gheorghe Prisăcaru, <i>Comparative Study of Electromechanical Response in Some Dielectric Elastomers</i>, Journal of Optoelectronics and Advanced Materials, Vol. 13, No. 8, August 2011, pp. 986-991, <b>FI=0,5</b></p> <p><b>2*3*(0,2+0,5)/4</b></p>	P1.2	1,05
		<p><b>Vlad Cârlescu</b>, Dumitru Olaru, Gheorghe Prisăcaru, Maria Cazacu, <i>Transverse strain response measurements of some dielectric elastomer polymers</i>, Proceedings of the 15<sup>th</sup> International Conference Modern Technologies, Quality and Innovation – ModTech 2011 – New face of TMCR, 25-27 May 2011, Vadul lui Vodă – Chișinău, Republic of Moldova, pp. 177-180</p> <p><b>2*3*(0,2+0)/4</b></p>	P1.2	0,3
		<p><b>Vlad Cârlescu</b>, Florin Breabăn, Dumitru Olaru, Gheorghe Prisăcaru, <i>A Technique for Dynamic Characterization of Dielectric Elastomers</i>, Proceedings of 2<sup>nd</sup> International Conference on Innovations, Recent Trends and Challenges in Mechatronics, Mechanical Engineering and New</p>	P1.2	0,3

	High-Tech Products Development (MECAHITECH'10), SEP 23-24, 2010, pp. 398-400 <b>2*3*(0,2+0)/4</b>		
	<b>A2.2 Articole și publicații științifice BDI<sup>[4]</sup> neincluse la A2.1</b>	N3	11
	G Ianuș, D Cojocaru, M C Opreșan, <b>V Cârlescu</b> and D N Olaru, <i>Friction models for grease lubricated ball-race contacts</i> , IOP Conf. Series: Materials Science and Engineering 997 (2020) 012012	N3.2	1
	C M Oprisan , B Chiriac , <b>V Cârlescu</b> and D N Olaru, <i>Influence of the stiffness and the speed on the stick-slip process</i> , IOP Conf. Series: Materials Science and Engineering 997 (2020) 012016	N3.2	1
	<b>V Cârlescu</b> , C M Oprisan, G Ianuș and D N Olaru, <i>Evaluation of friction behaviour on human finger skin considering precision grip task</i> , IOP Conf. Series: Materials Science and Engineering 997 (2020) 012007	N3.1	1
	C Stescu, D Chicet, C Munteanu, C Croitoru and <b>V Cârlescu</b> , <i>Machining of thermal sprayed coatings – a case study for self-fluxing powder</i> , IOP Conf. Series: Materials Science and Engineering 572 (2019) 012051	N3.2	1
	<b>Cârlescu V.</b> , Olaru D.N., Prisăcaru G., Opreșan C., Știrbu R.Ș., Machado J., <i>Influence of the Indentation Speed on Viscoelastic Behavior of the Human Finger</i> , In: Machado J., Soares F., Veiga G. (eds) Innovation, Engineering and Entrepreneurship HELIX 2018, Lecture Notes in Electrical Engineering, vol 505., 2019, pp. 143–150, Springer, Cham	N3.1	1
	<b>Vlad Cârlescu</b> , Mihai Adrian Rusu, Gheorghe Prisăcaru, Emanuel Miron, José Machado and Dumitru Olaru, <i>Behavior of the Elastomers Used in Prehension Systems for Small Cylindrical Objects</i> , CONTROLO 2016, Lecture Notes in Electrical Engineering 402 (2017), 495-505	N3.1	1
	Mihai Adrian Rusu, Daniela Ioniță, <b>Vlad Cârlescu</b> , Gheorghe Prisăcaru, Dumitru Olaru, <i>Characterization of Some Types of Polymers by Friction Behaviour</i> , The Romanian Review Precision Mechanics, Optics & Mechatronics 2015, Issue 48, 110-116; ISSN 1584-5982	N3.2	1
	Alexandru BARNEA, Mihai Adrian RUSU, Cezar OPRISAN, <b>Vlad CARLESCU</b> , Gheorghe PRISACARU and Dumitru OLARU, <i>Friction Between Cylindrical Objects and Prehension Elastomer Fingers</i> , The Romanian Review Precision Mechanics, Optics & Mechatronics 2015, Issue 48, pp. 219-223; ISSN 1584-5982	N3.2	1
	<b>CARLESCU Vlad</b> , PRISACARU Gheorghe and OLARU N. Dumitru, <i>FEM Simulation on Uniaxial Tension of Hyperelastic Elastomers</i> , Applied Mechanics and Materials Vol. 659 (2014) pp. 57-62	N3.1	1
	<b>Vlad Cârlescu</b> , Petru Marian Cârlescu, Dumitru Olaru, Gheorghe Prisăcaru, <i>Modeling and Simulation of The Electromechanical Response in Planar Electroactive Polymer Actuators</i> , The Romanian Review Precision Mechanics, Optics & Mechatronics 2011, No. 40, 209-212; ISSN 1584-5982	N3.1	1
	Florin Breabăn, <b>Vlad Cârlescu</b> , Dumitru Olaru, Gheorghe Prisăcaru, J. Coutte, <i>Laser scanning vibrometry applied to non-destructive testing of electro-active polymers</i> , Scientific Bulletin Series D: Mechanical Engineering, Volume 73, Issue 2, 2011, 171-180	N3.2	1
	<b>A2.3 Brevete de invenții indexate</b>	P2	-
	<b>A2.4 Produse, tehnologii, platforme și servicii inovative (validate conform procedurilor specifice unităților de învățământ superior sau de cercetare)</b>	N4	-
	<b>A2.5 Monografiile/ cărți de specialitate<sup>[1]</sup>, format tipărit/ electronic (min. 100 pag.)</b>	N4	1
	Gelu Ianuș, Vistrian Mătieș, Gheorghe Prisăcaru, Carmen Bujoreanu Cristel Știrbu, Mihaela Rodica Bălan, Ana Tufescu, Vasile Ciprian Stamate, <b>Vlad Cârlescu</b> , <i>Mecanică Fină și</i>	N4.4	1

		<i>Mecatronică, vol. 2 Mecatronică</i> , editura Tipografia Centrală, Chișinău, 2022 , 384 pg, ISBN 978-5-88554-129-9		
3	Recunoașterea și impactul activității - RIA (A3)	<b>A3.1 Atragere resurse financiare prin granturi/ proiecte/ contracte terți</b>	<b>S</b>	<b>13,489</b>
		Contract tip RO-MD nr. 2SOFT/1.1/64/2020 din cadrul programului "Joint Operational Programme Romania – Republic of Moldova 2014 – 2020", titlu proiect „Cross Border Cooperation in Mecatronics Engineering Education”, acronim CBCinMEE Beneficiar principal: Universitatea Tehnică a Moldovei (UTM) Beneficiar secundar: Universitatea Tehnică "Gheorghe Asachi" din Iași (TUIASI) Director proiect: conf.dr.ing. Gelu Ianus, TUIASI Valoare anuală 2021 / 2022 / 2023: 393551,98 / 196510,11 / 74517,15 RON) Echipa proiect: 10 membri Funcția în proiect: Master Development Specialist 2 (curs mediu euro 2021 / 2022 / 2023: 4,9204 / 4,9315 / 4,9465 RON) <b><math>0.1 \cdot (393551,98/4,9204 + 196510,11/4,9315 + 74517,15/4,9465) = 13489,629</math> EUR</b>	S2	13,489
		Contract tip PN-III-P1-1.1-TE-2021-0156, UEFISCDI, titlu proiect Silicone-based modular artificial sensing skin for MMOD impact damage detection and evaluation system in spacecraft, acronym SilArtSkin Beneficiar: Institutul de Chimie Macromoleculară "Pentru Poni" din Iași (ICMPP) Perioada: 05.2020 – 05.2024 (24 luni) Director proiect: dr. Bele Adrian Valoare proiect: 450000 RON (93750 Euro) Echipa proiect: 8 membri Funcția în proiect: Cercetător în mașini și instalații mecanice CSIII (cercetător postdoctoral)		
		<b>A3.2 Prezentarea/ Diseminarea rezultatelor: prezență la manifestări științifice în calitate de autor/ co-autor de lucrări, profesor invitat</b>	<b>N5</b>	<b>29</b>
		The 10 <sup>th</sup> International Conference on Advanced Concepts in Mechanical Engineering ACME 2022, June 9-10, 2022, Iași, România <a href="https://mec.tuiasi.ro/acme-2022-conference-program/">https://mec.tuiasi.ro/acme-2022-conference-program/</a>	N5	1
		International Conference on Innovative Research - EUROINVENT ICIR 2022, 26–27 May 2022, Iasi, Romania <a href="http://www.euroinvent.org/conference/wp-content/uploads/2022/05/ICIR_2022.pdf">http://www.euroinvent.org/conference/wp-content/uploads/2022/05/ICIR_2022.pdf</a>	N5	1
		10 <sup>th</sup> International Conference on Tribology – BALKANTRIB '20, May 20 – 22, 2021, Belgrade, Serbia <a href="http://balkantrib.mas.bg.ac.rs/docs/final%20programme.pdf">http://balkantrib.mas.bg.ac.rs/docs/final%20programme.pdf</a>	N5	1
		The 25 <sup>th</sup> INNOVATIVE MANUFACTURING ENGINEERING & ENERGY, INTERNATIONAL CONFERENCE, IManEE, October 21-23, 2021, Iasi, Romania <a href="http://www.2021.imane.ro/">http://www.2021.imane.ro/</a>	N5	1
		1st International Conference on Innovation in Engineering, ICIE 2021, June 28-30, 2021, Guimarães, Portugal <a href="https://archive.icieng.eu/2020/">https://archive.icieng.eu/2020/</a>	N5	1
		The 9 <sup>th</sup> International Conference on Advanced Concepts in Mechanical Engineering ACME 2020, June 4-5, 2020, Iași, România <a href="http://www.mec.legacy.tuiasi.ro/acme2020/files/Conference%20Program%20Outline.pdf">http://www.mec.legacy.tuiasi.ro/acme2020/files/Conference%20Program%20Outline.pdf</a>	N5	1



	International Conference on Innovative Research - EUROINVENT ICIR 2019, 16–17 May 2019, Iasi, Romania <a href="http://www.euroinvent.org/cat/ICIR2019.pdf">http://www.euroinvent.org/cat/ICIR2019.pdf</a>	N5	1
	The 11 <sup>th</sup> International Conference on Materials Science and Engineering, BraMat 2019, 13 – 16 March 2019, Braşov, Romania	N5	1
	The 14 <sup>th</sup> International Conference on Tribology ROTRIB'19, September 19 -21, 2019, Cluj-Napoca, Romania <a href="https://iopscience.iop.org/issue/1757-899X/724/1">https://iopscience.iop.org/issue/1757-899X/724/1</a>	N5	1
	3 <sup>rd</sup> Conference on Innovation, Engineering and Entrepreneurship, Regional HELIX 2018, June 27-29, 2018, Guimaraes, Portugal <a href="https://link.springer.com/conference/helix">https://link.springer.com/conference/helix</a>	N5	1
	The 8 <sup>th</sup> International Conference on Advanced Concepts in Mechanical Engineering ACME 2018, June 7-8, 2018, Iaşi, România <a href="http://mec.legacy.tuiasi.ro/acme2018/files/Conference%20Program%20Outline.pdf">http://mec.legacy.tuiasi.ro/acme2018/files/Conference%20Program%20Outline.pdf</a>	N5	1
	The 7 <sup>th</sup> International Conference on Computational Mechanics and Virtual Engineering COMEC 2017, 16-17 November 2017, Braşov, Romania <a href="https://sites.google.com/site/comec2017brasov/final-programme?tmpl=%2Fsystem%2Fapp%2Ftemplates%2Fprint%2F&amp;showPrintDialog=1">https://sites.google.com/site/comec2017brasov/final-programme?tmpl=%2Fsystem%2Fapp%2Ftemplates%2Fprint%2F&amp;showPrintDialog=1</a>	N5	1
	The 7 <sup>th</sup> International Conference on Advanced Concepts in Mechanical Engineering ACME 2016, June 9-10, 2016, Iaşi, România <a href="http://www.mec.legacy.tuiasi.ro/ro/acme2016/files/Conference%20Program%20Outline.pdf">http://www.mec.legacy.tuiasi.ro/ro/acme2016/files/Conference%20Program%20Outline.pdf</a>	N5	1
	INTERNATIONAL CONFERENCE OF APPLIED SCIENCES Chemistry and Chemical Engineering – CISA 2016, 10 <sup>th</sup> EDITION, June 2 -4, 2016, BACĂU, ROMANIA	N5	1
	International Conference of Mechanical Engineering (ICOME 2015), October 8 - 9, 2015, Craiova, Romania <a href="https://main.scientific.net/book/current-solutions-in-mechanical-engineering/978-3-0357-0039-8/ebook">https://main.scientific.net/book/current-solutions-in-mechanical-engineering/978-3-0357-0039-8/ebook</a>	N5	1
	The 6 <sup>th</sup> International Conference on Computational Mechanics and Virtual Engineering COMEC 2015, 15-16 October 2015, Braşov, Romania	N5	1
	7 <sup>th</sup> International Conference on Innovations, Recent Trends and Challenges in Mechatronics, Mechanical Engineering and New High-Tech Products Development MECAHITECH'15, 10 - 11 September 2015, Bucharest, Romania	N5	1
	The 6 <sup>th</sup> International Conference on Advanced Concepts in Mechanical Engineering ACME 2014, June 12-13, 2014, Iaşi, România <a href="https://www.scientific.net/AMM.659.57">https://www.scientific.net/AMM.659.57</a>	N5	1
	The 17 <sup>th</sup> International Conference TEHNOMUS New Technologies and Products in Machines Manufacturing Technologies, May 17-18, 2013, Suceava, România <a href="http://www.fim-old.usv.ro/conf_1/tehnomusjournal/pagini/journal2013/files/Cuprins_final_2013.pdf">http://www.fim-old.usv.ro/conf_1/tehnomusjournal/pagini/journal2013/files/Cuprins_final_2013.pdf</a>	N5	1
	The 5 <sup>th</sup> International Conference on Advanced Concepts in Mechanical Engineering ACME 2012, June 14-15, 2012, Iaşi, România <a href="http://mec.legacy.tuiasi.ro/acme2012/Conferenceprogram.html">http://mec.legacy.tuiasi.ro/acme2012/Conferenceprogram.html</a>	N5	1
	THE 3 <sup>rd</sup> INTERNATIONAL CONFERENCE ON DIAGNOSIS AND PREDICTION IN	N5	1

	MECHANICAL ENGINEERING SYSTEMS – DIPRE'12, May 31 – June 1 <sup>st</sup> 2012, Galați, Romania		
	3 <sup>rd</sup> International Conference on Innovations, Recent Trends and Challenges in Mechatronics, Mechanical Engineering and New High-Tech Products Development MECAHITECH'11, 22 - 23 September 2011, Bucharest, Romania <a href="https://incdmtm.ro/editura/imagini/Proceedings_of_MECAHITECH2011.pdf">https://incdmtm.ro/editura/imagini/Proceedings_of_MECAHITECH2011.pdf</a>	N5	1
	The 15 <sup>th</sup> International Conference Modern Technologies, Quality and Innovation – ModTech 2011 – New face of TMCR, 25-27 May 2011, Vadul lui Vodă – Chișinău, Republic of Moldova <a href="http://www.modtech.tuiasi.ro/2011/technical_program_overview.pdf">http://www.modtech.tuiasi.ro/2011/technical_program_overview.pdf</a>	N5	1
	2 <sup>nd</sup> International Conference on Innovations, Recent Trends and Challenges in Mechatronics, Mechanical Engineering and New High-Tech Products Development MECAHITECH'10, 23 - 24 September 2010, Bucharest, Romania <a href="https://incdmtm.ro/editura/imagini/Proceedings%20of%20MECAHITECH%202010.pdf">https://incdmtm.ro/editura/imagini/Proceedings%20of%20MECAHITECH%202010.pdf</a>	N5	1
	The 4 <sup>th</sup> International Conference on Advanced Concepts in Mechanical Engineering ACME 2010, June 17-18, 2010, Iași, România <a href="http://mec.legacy.tuiasi.ro/acme_2010/Conferenceprogram.html">http://mec.legacy.tuiasi.ro/acme_2010/Conferenceprogram.html</a>	N5	1
	The 11 <sup>th</sup> International Conference on Tribology ROTRIB'10", November 4-7, 2010, Iași, România <a href="http://www.rotrib10.tuiasi.ro/">http://www.rotrib10.tuiasi.ro/</a>	N5	1
	2 <sup>nd</sup> International Conference on e-Health and Bioengineering - EHB 2009, 17-18 <sup>th</sup> September, 2009, Iași-Constanța, Romania	N5	1
	1 <sup>st</sup> International Conference on Innovations, Recent Trends and Challenges in Mechatronics, Mechanical Engineering and New High-Tech Products Development MECAHITECH'09, 8-9 October 2009, Bucharest, Romania <a href="https://incdmtm.ro/editura/imagini/publicati/meca1.jpg">https://incdmtm.ro/editura/imagini/publicati/meca1.jpg</a>	N5	1
	The 13 <sup>th</sup> International Conference - Modern Technologies, Quality and Innovation MODTECH 2009 - New face of TMCR, 21 – 23 May 2009, Iași, România	N5	1
	<b>A3.3 Citări în publicații BDI<sup>[4]</sup> (se exclude autocitățile)</b>	<b>C</b>	<b>260,626</b>
	<b>Articol citat:</b> Gelu Ianus, Denis Cojocaru, Vlad Carlescu, Ana Tufescu and Dumitru N. Olaru, Grease lubrication of miniature ball bearings, Proc. of 25 <sup>th</sup> INNOVATIVE MANUFACTURING ENGINEERING & ENERGY, INTERNATIONAL CONFERENCE, IMANEE, 21-23 October, 2021, Iasi, IOP Conf. Series: Materials Science and Engineering 1235 (2022) 012052 <b>Citare:</b> Yongkang An, Shijun Ji and Ji Zhao, Achieving significant burst motion based on epicycloid induction principle for stick-slip piezoelectric actuator, IEEE Transactions on Industrial Electronics, VOL. 70, NO. 9, SEPTEMBER 2023, 9301-9311 <b>FI=7.7 (2022)</b> <a href="https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=9923584">https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=9923584</a>	C1	8,7
	<b>Articol citat:</b> C M Oprisan, B Chiriac, V Carlescu and D N Olaru, Friction forces on human finger skin, IOP Conf. Series: Materials Science and Engineering 724 (2020) 012059 <b>Citare:</b> Scott T. Lovald, Maysam B. Gorji, Michelle Chen, Nikita Pak, Developing failure criteria for laceration injury of dermal tissue, Journal of the Mechanical Behavior of Biomedical Materials	C1	4,9

		144 (2023) 105986 <b>FI=3.9 (2022)</b> <a href="https://doi.org/10.1016/j.jmbbm.2023.105986">https://doi.org/10.1016/j.jmbbm.2023.105986</a>		
		<b>Articol citat:</b> C M Oprisan , B Chiriac , V Cârlescu and D N Olaru, Influence of the stiffness and the speed on the stick-slip process, IOP Conf. Series: Materials Science and Engineering 997 (2020) 012016 <b>Citare:</b> A. Calin, A. Tudor, M. Stoica, K.A. Subhi, The friction effects in the stick-slip phenomena of the human skin, Biotribology 33-34, 2023, 100236 <a href="https://doi.org/10.1016/j.biotri.2023.100236">https://doi.org/10.1016/j.biotri.2023.100236</a>	C1	1
		<b>Articol citat:</b> V. Bulbuc, V. Paleu, B. Pricop, M. Popa, V. Carlescu, N. Cimpoesu, and L.G. Bujoreanu, Effects of Dynamic Loading under Extreme Conditions on Wear Resistance of T105Mn120 Castings for Railway Safety Systems, Journal of Materials Engineering and Performance (2021) 30:7128–7137 <b>Citare:</b> Alexander Balitskii et al., Influence of Hydrogen-Containing Fuels and Environmentally Friendly Lubricating Coolant on Nitrogen Steels' Wear Resistance for Spark Ignition Engine Pistons and Rings Kit Gasket Set, November 2021 Energies 14 (22) 7583, <b>FI=3.2 (2022)</b> <a href="https://doi.org/10.3390/en14227583">https://doi.org/10.3390/en14227583</a>	C1	4,2
		<b>Articol citat:</b> SIMONA-NICOLETA MAZURCHEVICI, BOGDAN PRICOP, BOGDAN ISTRATE, ANDREI-DANUT MAZURCHEVICI, VLAD CARLESCU, CONSTANTIN CARAUSU, DUMITRU NEDELCU, Technological Parameters Effects on Mechanical Properties of Biodegradable Materials Using FDM, Mater. Plast. 57 (2) 2020, 215 – 227 <b>Citări:</b> Harshit K. Dave , Ashish R. Prajapati , Shilpesh R. Rajpurohit , Naushil H. Patadiya & Harit K. Raval, Investigation on tensile strength and failure modes of FDM printed part using in-house fabricated PLA filament, Advances in Materials and Processing Technologies 8(1), 2022 <b>FI=2.2 (2022)</b> <a href="https://doi.org/10.1080/2374068X.2020.1829951">https://doi.org/10.1080/2374068X.2020.1829951</a> Doina Frunzaverde, Vasile Cojocaru, Nicoleta Bacescu, Costel-Relu Ciubotariu, Calin-Octavian Miclosina, Raul Rusalin Turiac, Gabriela Marginean, The Influence of the Layer Height and the Filament Color on the Dimensional Accuracy and the Tensile Strength of FDM-Printed PLA Specimens, Polymers 2023, 15(10), 2377 <b>FI=5 (2022)</b> <a href="https://doi.org/10.3390/polym15102377">https://doi.org/10.3390/polym15102377</a> Vasile Cojocaru , Doina Frunzaverde, Calin-Octavian Miclosina and Gabriela Marginean, The Influence of the Process Parameters on the Mechanical Properties of PLA Specimens Produced by Fused Filament Fabrication—A Review, Polymers 2022, 14(5), 886 <b>FI=5 (2022)</b> <a href="https://doi.org/10.3390/polym14050886">https://doi.org/10.3390/polym14050886</a> MOHAMMED RAFFIC N., GANESH BABU K., RAJASEKARAN SAMINATHAN, HAITHAM HADIDI, Flexural Modulus Enhancement and Minimization of Printing Time and Part Weight for PET-G, Using Taguchi-GRA-TOPSIS Techniques, Mater. Plast., 59 (3), 2022, 109-127 <b>FI=0,8 (2022)</b>	C6	19,8

		<a href="https://doi.org/10.37358/MP.22.3.5610">https://doi.org/10.37358/MP.22.3.5610</a> Amrita, Aluri Manoj and Ramesh Chandra Panda, Biodegradable Filament for Three-Dimensional Printing Process: A Review, Eng. Sci., 2022, 18, 11–19 <a href="https://dx.doi.org/10.30919/es8d616">https://dx.doi.org/10.30919/es8d616</a> Ivan Palinkas, Jasmina Pekez, Eleonora Desnica, Aleksandar Rajic, Dorian Nedelcu, Analysis and Optimization of UAV Frame Design for Manufacturing from Thermoplastic Materials on FDM 3D Printer, Mater. Plast., 58 (4), 2021, 238-249 <b>FI=0,8 (2022)</b> <a href="https://doi.org/10.37358/MP.21.4.5549">https://doi.org/10.37358/MP.21.4.5549</a>		
		<b>Articol citat:</b> Panțuru, M., <b>Cârlescu, V.</b> , Chicet, D., Răileanu, L., Munteanu, C., Evaluation of adhesion - Cohesion of some TBCS used for internal combustion engine valves using scratch method, UPB Scientific Bulletin, Series B: Chemistry and Materials Science 81(2), 2019, pp. 215-224 <b>Citare:</b> Turcu R.N., Pencea I., Chisuiu G., Manoliu V., Botan M., Brânzei M., Niculescu F., Popescu-Argeș A.C., Ioan M., Sfât C.E., Roughness and wear resistance modifications induced by cyclic high temperature shocks upon a micro-composite refractory enamel, UPB Scientific Bulletin, Series B: Chemistry and Materials Science 82(4), 2020, pp. 223-234 <a href="https://www.scientificbulletin.upb.ro/rev_docs_arhiva/full54f_233590.pdf">https://www.scientificbulletin.upb.ro/rev_docs_arhiva/full54f_233590.pdf</a>	C1	1
		<b>Articol citat:</b> Cârlescu V., Olaru D.N., Prisăcaru G., Opreșan C., Știrbu R.Ș., Machado J., Influence of the Indentation Speed on Viscoelastic Behavior of the Human Finger, Lecture Notes in Electrical Engineering, vol 505., 2019, pp. 143–150 <b>Citare:</b> Saekwang Nam, Katherine J Kuchenbecker, Optimizing a Viscoelastic Finite Element Model to Represent the Dry, Natural, and Moist Human Finger Pressing on Glass, May 2021, IEEE Transactions on Haptics 14(2), 2021, pp. 303-309 <b>FI=2.9 (2022)</b> DOI: 10.1109/TOH.2021.3077549	C1	3,9
		<b>Articol citat:</b> CRISTINA ANGELA GHIORGHE, GIANINA IOVAN, VLAD CARLESCU, BOGDAN ISTRATE, GALINA PANCU, SORIN ANDRIAN, Comparative Evaluation of Hardness and Elasticity Modulus of Tooth-Colored Materials for Dental Restoration, REVISTA DE CHIMIE, Vol. 68, Issue 11, November 2017, 2623-2627 <b>Citări:</b> Meltem Mert Eren, Gunce Ozan, Zuhail Yildirim Bilmez, Aliye Tugce Gurcan, Yasemin Yucel Yucel, Comparison of restorative materials and surface alterations after prebiotic and probiotic beverages: A nanoindentation and SEM study, Microscopy Research and Technique 85(2), 2022, pp. 499–509 <b>FI=2.5 (2022)</b> <a href="https://doi.org/10.1002/jemt.23923">https://doi.org/10.1002/jemt.23923</a> Luca, O., Vitalariu, A., Cioloca, C.H., Tatarciuc, M., Popa, D.D., Studies on the abrasive wear behaviour of the direct restorative dental materials, MATERIALE PLASTICE Volume 56, Issue 3, 2019, 625-628 <b>FI=1.517 (2019)</b> <a href="https://doi.org/10.37358/MP.19.3.5242">https://doi.org/10.37358/MP.19.3.5242</a> Jyotisman Borah, M. Chandrasekaran, and L. Selvarajan, Taguchi-Based Experimental	C3	6,317

		Investigation and Modeling, of 3D-Printed PEEK Parts as Biomedical Implants using Fused Deposition Modeling for Improving Mechanical Strength and Surface Quality, Journal of Materials Engineering and Performance, December 2023 <b>FI=2.3 (2022)</b> DOI: 10.1007/s11665-023-09036-4		
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**Data:**  
**Candidat**  
**Cârlescu Vlad**