				Fișa de verificare a îndeplinirii standardelor minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior și gradelor profesionale de cercetare-dezvoltare	
				cf. Anexa nr. 16 – COMISIA INGINERIE INDUSTRIALĂ ȘI MANAGEMENT din OM nr. 6560/2012 publicat în Monitorul Oficial, Partea I, nr. 890 din 27/12/2012 și Nr. 890 bis/27.XII.2012	
				Propunere de definiții privind structura activității candidatului Breaz Radu-Eugen	
Nr. crt.	Domeniul activităților	Tipul activităților	Categorii și restricții	Subcategorii	Indicatori unitari K_{pi}
1.	Activitatea didactică și profesională (A1)	1.1 Cărți și capitole în cărți de specialitate	1.1.1 Cărți/capitole ca autor	1.1.1.1 internaționale	
				1.1.1.2 naționale	
				Breaz, R.E., Tera, M, *Tehnici de programare manuală și asistată de calculator a echipamentelor CNC*, Editura Universității "Lucian Blaga" din Sibiu, 2016, ISBN 978-606-12-1294-1, 200 pag., 2016	10
				Breaz, R.E., *Automatizări industriale*, Editura Universității "Lucian Blaga" din Sibiu, 2007, ISBN 978-973-739-535-1, 250 pag., 2007	25
				Morar, L., **Breaz, R.**, Câmpean, E., *Programarea manuală și asistată de calculator a echipamentelor numerice*, Editura Casa Cărții de Știință, ISBN 978-606-17-0508-5, Cluj-Napoca, 402 pag., 2014	13.4
				Măties, V. – coordonator, *Platforma națională de mecatronică: fundamentul programelor educaționale și de formare continuă în societatea cunoașterii*, Editura UT Press, Cluj Napoca, 2016, ISBN 978-606-737-148-2, co-autor al capitolului *Mecatronica în cadrul Universității "Lucian Blaga" din Sibiu*, 10 pag, doi autori	0.5

		1.1.2 Cărți ca editor		
	1.2 Material didactic / lucrări practice	1.2.1 Manuale didactice/monografii – minim 2 ca prim autor pt profesor	**Breaz, R.E.,** *Programarea echipamentelor CNC*, curs, format electronic, 150 pag.	7.5
			Breaz, R.E., *Echipamente alternative cu comandă numerică*, curs, format electronic, 200 pag.	10
			Breaz, R.E., Bogdan, L., *Automatizări în sisteme de producție*, Editura Universității "Lucian Blaga"din Sibiu, 2003, ISBN 973-651-719-5, 226 pag., 2003	5.65
			Telea, D., Popp, I.O., **Breaz, R.E.,** *Masini, echipamente si strategii in sisteme flexibile de productie*, Editura Universității "Lucian Blaga"din Sibiu, ISBN 978-973-739-794-2 Sibiu, 598 pag., 2009	9.96
		1.2.2 Îndrumare de laborator/aplicații; profesor minim 2 prim autor	**Breaz, R.E.,** Tera M., Automatizări industriale: aplicații, Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-606-12-0092-42, 138 pag., 2010	2.76
			Breaz, R.E., Tera M., Teoria sistemelor și reglaj automat - aplicații, Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-606-12-0093-1, 118 pag., 2010	2.36
			Cofaru, N., **Breaz R.E.,** *Programarea și exploatarea mașinilor unelte cu comandă numerică*, Editura Universității „Lucian Blaga" din Sibiu, 2006, ISBN (10) 973-739-274-4, ISBN(13) 978-973-739-274-9, 120 pag., 2006	2.4
			Fetche, V., Barsan, I., Telea, D., **Breaz, R.E.,** *Programarea numerică a mașinilor-unelte – aplicații*, Editura Universitatii "Lucian Blaga"din Sibiu, 1997, ISBN 973-9261-63-9, 332 pag., 1997	1.66
	1.3 Coordonare de programe de studii, organizare și coordonare programe de formare continuă și proiecte educaționale	Director/responsabil/preșe dinte	Responsabil specializare Mașini-unelte și sisteme de producție	15
			Specializarea Mecatronică (licență), responsabil dosar acreditare (2016), Specializarea Mecatronică (licență) – limba engleză, responsabil dosar autorizare provizorie (2015)	15
			Specializarea Structura, programarea și mentenanța sistemelor CNC (master), responsabil dosar acreditare (2007)	15
			Responsabil modul formare continuă program POSDRU/39/3.2/G/22512	15
			Responsabil tehnic program POSDRU/156/2.1/G/137094	15

		1.4 Dezvoltare de noi discipline	Titular	*Programarea echipamentelor CNC*, an III Informatică industrială, suport de curs şi îndrumar de laborator în format electronic, elaborate în cadrul programului POSDRU/87/1.3/S/60891, Şcoala universitară de formare iniţială şi continuă a personalului didactic şi a trainerilor din domeniul specializărilor tehnice şi inginereşti", DidaTec (2010-2013)	10
				Echipamente alternative cu comandă numerică, an I master Sisteme CAD/CAM/CAE în deformarea plastică, suport de curs şi îndrumar de laborator în format electronic	10
				Operarea şi interfaţarea sistemelor CNC, an II master Sisteme şi tehnologii inteligente de fabricaţie, suport de curs şi îndrumar de laborator în format electronic	10
				Maşini cu comandă numerică în sisteme inteligente de maşini, an II master Sisteme şi tehnologii inteligente de fabricaţie, suport de curs şi îndrumar de laborator în format electronic	10
		1.5 Proiecte educaţionale (ERASMUS, Leonardo etc)	Director/responsabil		
2.	Activitate de cercetare (A2)	2.1 Articole în Reviste cotate ISI Thomson Reuters şi în volume indexate ISI Proceedings	Minim 8 articole pentru Profesor din care 2 în reviste	O. Bologa, **R.E. Breaz**, S.G. Racz, *A Fuzzy-based Decision Support Tool for Engineering Curriculum Design*, International Journal of Computers Communications & Control, Volume: 10 Issue: 6 (December), pp. 803-811, ISSN 1841-9836, (FI 0.746/2015), **autor corespondent**, http://univagora.ro/jour/index.php/ijccc/article/view/2071/581	12.49
				Oleksik, V., Pascu, A., Mara, D., Bologa, O., Racz, G, **Breaz, R.**, *Influence of geometric parameters on strain and thickness reduction in incremental forming process*, The 13th Conference on Metal Forming, Toyohashi - Japan, September 19-22, 2010, published on Journal "Steel Research International", Vol. 81 (2010), Special Edition, nr. 9, Publishing Company: Verlag Stahleisen Gmbh, ISBN 978-3-514-00754-1, pp. 930-933, 2010, (FI 0.453/2010)	5.76
				Oleksik, V., Bologa, O., **Breaz, R.**, Racz, G., Găvruş, A., *Numerical simulations and experimental researches regards the precision of the incremental forming process*, The 12th Conference on Metal Forming, Krakow - Poland, September 21-24 2008, published on Journal "Steel Research International", No. 79 (2008), Special Edition, Volume 1, Publishing Company: Verlag Stahleisen Gmbh, ISBN 978-3-514-00754-3, pp. 591-594, 2008, (FI 0.344/2008)	6.69
				Bologa, O., **Breaz, R.E**, Racz, S.G., Crenganis, M., *Decision-making Tool for Moving from 3-axes to 5-axes CNC Machine-tool*, lucrare prezentată la 4th International Conference on Information Technology and Quantitative Management (ITQM 2016), publicată în Procedia Computer Science, Volume 91, 2016, pp. 683–689, **autor corespondent**, http://dx.doi.org/10.1016/j.procs.2016.07.171	6.25

					Bologa, O., **Breaz, R.E**, Racz, S.G., Crenganis, M., *Using the Analytic Hierarchy Process (AHP) in Evaluating the Decision of Moving to a Manufacturing Process Based Upon Continuous 5 Axes CNC Machine-tools*, lucrare prezentată la 4th International Conference on Information Technology and Quantitative Management (ITQM 2016), publicată în Procedia Computer Science, Volume 91, 2016, pp. 184–192, **autor corespondent,** http://dx.doi.org/10.1016/j.procs.2016.07.056	6.25
					A.L. Chicea, **R.E. Breaz**, O. Bologa, M. Tera, *Increasing the Quality of Mechatronics Study Programme at "Lucian Blaga" University of Sibiu*, 7th International Conference on Education and New Learning Technologies, 6-8 July, 2015, Barcelona, Spain, ISBN 978-84-606-8243-1, ISSN 2340-1117, pp. 5062-5068, http://library.iated.org/view/CHICEA2015INC	6.25
					Tera, M., Bologa, O., **Breaz, R.E.**, Racz, S.G., *Contributions Regarding Incremental Forming Process of Bimetallic Sheets*, Innovative Manufacturing Engineering International Conference, (IManE 2014), Chisinău, Moldova 29-30 May 2014, Applied Mechanics and Material, Applied Mechanics and Materials, ISSN 1660-9336, Vol 657, pp. 178-182, doi: 10.4028/www.scientific.net/AMM.657.178	6.25
					Cotigă, C., Racz, S.G., Bologa, O., **Breaz, R.E**, *Researches Regarding the Usage of Titanium Alloys in Cranial Implants*, Innovative Manufacturing Engineering International Conference, (IManE 2014), Chisinău, Moldova 29-30 May 2014, Applied Mechanics and Materials, ISSN 1660-9336, Vol 657, pp. 173-177, doi: 10.4028/www.scientific.net/AMM.657.173	6.25
					Crenganis, M., **Breaz, R.E.**, Racz, G., Bologa, O., *Inverse Kinematics for a 7 DOF Robotic Arm Using the Redundancy Circle and ANFIS Models*, Innovative Manufacturing Engineering International Conference, (IManE 2014), Chisinau, Moldova 29-30 May 2014, Applied Mechanics and Materials, ISSN 1660-9336, Vol 657, pp. 823-828, doi: 10.4028/www.scientific.net/AMM.657.823	6.25
					Chicea, A., **Breaz, R.E.**, Gîrjob, C., Biris, C., Bologa, O., *Combining Engineering and Medical Knowledge for Manufacturing Medical Devices Using CAD/CAE/CAM Techniques*, 7th International Conference of Education, Research and Innovation, 17-19 November, 2014, Seville, Spain, ISBN 978-84-617-2484-0, ISSN 2340-1095, pp. 388-397, https://library.iated.org/view/CHICEA2014COM	5
					Tirnovean, S., **Breaz, R.E.**, Tera, M., Bologa, O., Racz, S.G., *Teaching CAD/CAE/CAM Techniques for CNC Profiling and Punching Machines at Master Level*, 7th International Conference of Education, Research and Innovation, 17-19 November, 2014, Seville, Spain, ISBN 978-84-617-2484-0, ISSN 2340-1095, pp. 479-486, https://library.iated.org/view/TIRNOVEAN2014TEA	5
					Breaz, R.E, Bologa, O., Racz, S.G., *Mechatronics – A Study Program Required By The Industry*, International Technology, Education and Development Conference INTED 2014, 10-12 March 2014, Valencia, Spain, ISBN 978-84-616-8412-0 / ISSN 2340-1079, 2014, pp. 4123-4131, https://library.iated.org/view/BREAZ2014MEC	8.33

					Muresan, G., Morar, L., **Breaz, R.E.**, *Teaching CAM Techniques and CNC Programming in Technical Universities – An Integrated Approach*, International Technology, Education and Development Conference INTED 2014, 10-12 March 2014, Valencia, Spain, ISBN 978-84-616-8412-0 / ISSN 2340-1079, 2014, pp. 4115-4122, https://library.iated.org/view/MURESAN2014TEA	8.33
					Breaz, R., Bologa, O., Tera, M., Racz, G., *Determination of Technological Forces in the Incremental Forming Process*, Applied Mechanics and Materials Vol. 371 (2013), © (2013) Trans Tech Publications, Switzerland, 2013, ISBN 978-3-03785-786-1, pp. 133-137, doi:10.4028/www.scientific.net/AMM.371.133, 2013	6.25
					Chera, I., Bologa, O., Racz, G., **Breaz, R.**, *Robot-Forming – An Incremental Forming Process using an Industrial Robot by means of DELMIA software package*, 17th International Conference on Innovative Manufacturing Engineering, IManE 2013, Iasi, Romania, 23-24 May 2013, Applied Mechanics and Materials Vol. 371 (2013), © (2013) Trans Tech Publications, Switzerland, 2013, ISBN 978-3-03785-786-1, pp. 416-421, doi:10.4028/www.scientific.net/AMM.371.416, 2013	6.25
					Crenganis, M., **Breaz, R.E.**, Racz, G.S., Bologa, O.C., *Inverse Kinematics of a 7 DOF Manipulator using Adaptive Neuro-Fuzzy Inference Systems*, 12th International Conference on Control, Automation, Robotics and Vision, (ICARCV 2012), Guangzhou, China December 5-7, 2012, ISBN 978-1-4673-1870-9, pp. 1232-1237, 2012, DOI 10.1109/ICARCV.2012.6485351, http://www.icarcv.org/2012/	6.25
					Breaz, R.E., Tirnovean, S., Biris, C., Bologa, O.C., *Improving the Dynamic Behavior and Working Accuracy of the CNC Laser Cutting Machines*, 12th International Conference on Control, Automation, Robotics and Vision, (ICARCV 2012), Guangzhou, China December 5-7, 2012, ISBN 978-1-4673-1870-9, pp. 1642-1647, 2012, DOI 10.1109/ICARCV.2012.6485437	6.25
					Tera, M., Deac, C., Oleksik, V., Bologa, O., **Breaz, R.**, Biris, C., *Comparative Study by Numerical Analysis on the Formability of Deep-Drawn Tailor-Welded Blanks*, Advanced Materials Research, Trans Tech Publications LTD, Laublsrutistr 24, CH-8717 STAFA-Zurich, Switzerland Volume: 463-464, DOI: 10.4028/www.scientific.net/AMR.463-464.582, ISSN 1022-6680, ISBN: 978-3-03785-363-4, pp. 582-586, 2012	4.16
					Breaz, R.E., Bologa, O.C., Tera, M., Deac, C., *Low-cost motion control solution for industrial manufacturing systems*, 9th IEEE International Conference on Industrial Informatics (INDIN), pp. 280 – 285, E-ISBN 978-1-4577-0433-8, Print ISBN: 978-1-4577-0435-2, ISSN1935-4576, Lisabona, 26-29 July, 2011	6.25
					Beck, W., Schupp, P., Bologa, O., **Breaz, R.**, Racz, G., Ionescu, F., *Mathematical Model for Aiding the Decision of Changing the Curriculum for Higher Education in the Industrial Engineering Domain*, ICERI 2010 International Conference of Education, Research and Innovation, 15-17 November, Madrid, Spain, 2010, ISBN 978-84-614-2439-9, pp. 6535-6542, http://library.iated.org/view/BECK2010MAT	4.16

				Schupp, P., Beck, W., Bologa, O., **Breaz, R.**, Racz, G., Ionescu, *Determining the Ratio between the Disciplines for Mechatronics Study Programme*, ICERI 2010 International Conference of Education, Research and Innovation, 15-17 November, Madrid, Spain, 2010, ISBN 978-84-614-2439-9, pp. 6543-6552, http://library.iated.org/view/SCHUPP2010DET	4.16
				Breaz, R.E., Bologa, O.C., Racz, G.S., Oleksik, V.S., Girjob, C., *Simulation approach for improving CNC milling machines accuracy for single axis motion*, ISIE 2010, 2010 IEEE International Symposium on Industrial Electronics, Bari, Italy, 4-7 July 2010, pp. 1760 - 1764, ISBN 978-1-4244-6390-9 2010	5
				Breaz, R.,E., Bologa, O., Biris, Cristina, Racz, G., Girjob, Claudia, Oleksik, V., *Method for Improving the Contouring Accuracy for CNC Profiling Machines at the Shop Floor Level*, The 7th IEEE International Conference on Industrial Informatics, INDIN 2009, 24-26 iunie 2009, Cardiff, Marea Britanie, pp. 813-818, ISBN 978-1-4244-3760-3, ISSN 1935-4576, IEEE Catalog Number: CFP09INI-CDR	4.16
				Bologa O. Beck, W., Schupp P., **Breaz R.**, Racz G., Ionescou F., *A decision algorithm for optimizing the specialty curricula in machine tools and production systems engineering studies*, 5th Balkan Region Conference on Engineering and Business Education & 2nd International Conference on Engineering and Business Education, Sibiu, Romania, 15 - 17 October, 2009, pp. 330-335, ISBN 978-973-739-848-2	4.16
				Oleksik, V., Bologa, O., **Breaz, R.E.**, Racz, G., *Comparison between the numerical simulations of incremental sheet forming and conventional stretch forming process*, The 11th ESAFORM Conference on Material Forming, 23-25 April 2008, Lyon, France, Published in International Journal of Material Forming, ISSN 1960-6206 (Print) 1960-6214 (Online), Springer Paris DOI: 10.1007/s12289-008-0153-6, Vol. 1 (2008), Supplement 1, paper 433, pp. 1187-1190, 2008, http://www.springerlink.com/content/w287608252515270/	6.25
				Breaz, R. E., Bologa, O. C., Racz, G. S., Oleksik, V., *Motion Control Systems for Machine Tools – a Mechatronic Approach by Means of Simulation*, IEEE International Symposium on Industrial Electronics, 30 iunie – 2 iulie 2008, Cambridge, Marea Britanie, pp. 2072-2077, ISBN 978-1-4244-1666-0, IEEE Catalog Number: CFP08ISI-CDR, Library of Congress: 2007936380	6.25
		2.2 Articole în reviste şi volumele unor manifestări ştiinţifice indexate în alte baze de date internaţionale	Minim 8 pentru profesor	Crenganiş, M., **Breaz, R.**, Racz, G., Bologa, O, *Adaptive neuro-fuzzy inference system for kinematics solutions of redundant robots*, 6th International Conference on Computers Communications and Control (ICCCC), Oradea, 2016, pp. 271-276, (IEEE Explore), DOI: 10.1109/ICCCC.2016.7496773	3.75
				M. Tera, **R.E. Breaz**, O. Bologa, S.G. Racz, *Developing a Knowledge Base about the Technological Forces within the Asymmetric Incremental Forming Process*, Key Engineering Materials, vol. 651, pp. 1115-1121, (Scopus), 10.4028/www.scientific.net/KEM.651-653.1115, 2015	3.75
				O. Bologa, **R.E. Breaz**, A.L. Chicea, S.G. Racz, *Using Serial Industrial Robots in CNC Milling Procesess*, ICMS 2015, Iaşi, Buletinul Insitutului Politehnic din Iaşi,	3.75

					Secţia Construcţii de Maşini, Tomul LXI (LXV), Fasc. 3, ISSN 1011-2855, pp. 21-28, (Index Copernicus, Ulrich's Database), 2015	
					R.E. Breaz, O. Bologa, *Researches Regarding the Use of Fuzzy Controllers within CNC Feed Drives*, Applied Mechanics and Materials, vol. 772, pp. 229-234, (Index Copernicus, CSA, INSPEC, EBSCO, ProQuest) 10.4028/www.scientific.net/AMM.772.229, 2015	7.5
					A.L. Chicea, **R.E. Breaz**, O. Bologa, *Building 3D Geometric and Kinematic Models of Five-Axis Machine-Tools for Manufacturing Prosthetic Devices*, Applied Mechanics and Materials (IMANE 2015), vol. 809-810, pp. 1004-1009, (Index Copernicus, CSA, INSPEC, EBSCO, ProQuest) 10.4028/www.scientific.net/AMM.809-810.1004	5
					O. Bologa, **R.E. Breaz**, S.G. Racz, *Method for estimating the manual nesting process efficiency for profiling machines, based upon image processing techniques*, (MTEM 2015), Cluj-Napoca, Applied Mechanics and Materials, Vol. 808, pp. 86-91, (Index Copernicus, CSA, INSPEC, EBSCO, ProQuest), Nov. 2015, doi: 10.4028/www.scientific.net/AMM.808-86	5
					Crenganis, M., **Breaz, R.E.**, Racz, G., Bologa, O., *Inverse Kinematics for a 7 DOF Robotic Arm Using the Redundancy Circle and Fuzzy Models*, ISSN 1660-9336, Applied Mechanics and Materials, Vol 555, (Index Copernicus, CSA, INSPEC, EBSCO, ProQuest), pp. 320-326, doi: 10.4028/www.scientific.net/AMM.555.320	3.75
					Chera, I., Bologa, O., Racz, G, **Breaz, R.E.**, *Experimental Researches Regarding Strain Measurement of Incrementally Formed Sheet Metal Parts Done Using an Industrial Robot*, 9th International Conference on Modeling and Optimization of the Aerospace, Robotics, Mechatronics, Machines-Tools, Mechanical Engineering and Human Motricity Fields, OPTIROB 2014,Mangalia, Romania, 26-29 June 2014, Applied Mechanics and Materials, ISSN 1660-9336, Vol 555, pp. 300-305, (Index Copernicus, CSA, INSPEC, EBSCO, ProQuest), doi: 10.4028/www.scientific.net/AMM.555.300	3.75
					Biriş, C., **Breaz, R.E.**, Gîrjob, C., Chicea, A., *Researches Regarding Optimising the Contouring Precision of CNC Laser Cutting Machines*, 9th International Conference on Modeling and Optimization of the Aerospace, Robotics, Mechatronics, Machines-Tools, Mechanical Engineering and Human Motricity Fields, OPTIROB 2014,Mangalia, Romania, 26-29 June 2014, Applied Mechanics and Materials, Vol 555, pp. 580-585, (Scopus, Index Copernicus, CSA, INSPEC, EBSCO, ProQuest), 10.4028/www.scientific.net/AMM.555.580	3.75
					Cotigă, C., Bologa, O., Racz, S.G., **Breaz, R.E**, *Method for Manufacturing Custom-Shaped Prosthetic Parts from Titanium Alloys by Incremental Forming Using Industrial Robots*, 9th International Conference on Modeling and Optimization of the Aerospace, Robotics, Mechatronics, Machines-Tools, Mechanical Engineering and Human Motricity Fields, OPTIROB 2014,Mangalia, Romania, 26-29 June 2014, Applied Mechanics and Materials, Vol 555, pp. 575-579, (Scopus, Index Copernicus, CSA, INSPEC, EBSCO, ProQuest) 10.4028/www.scientific.net/AMM.555.575	3.75

				Tera, M., Bologa, O., **Breaz, R.E.**, Racz, S.G., *Theoretical and Experimental Researches Regarding Multilayer Materials Used for Incremental Forming*, 9th International Conference on Modeling and Optimization of the Aerospace, Robotics, Mechatronics, Machines-Tools, Mechanical Engineering and Human Motricity Fields, OPTIROB 2014,Mangalia, Romania, 26-29 June 2014, Applied Mechanics and Materials, Vol 555, pp. 413-418, (Scopus, Index Copernicus, CSA, INSPEC, EBSCO, ProQuest 10.4028/www.scientific.net/AMM.555.413	3.75
				Chicea, A.L., **Breaz, R.E**, Bologa, O., Racz, *Using Serial Industrial Robots and CAM Techniques for Manufacturing Prosthetic Devices*, (ICAMAT 2014), Applied Mechanics and Materials, Vol 762, pp. 313-318, (Index Copernicus, CSA, INSPEC, EBSCO, ProQuest 10.4028/www.scientific.net/AMM.762.313	3.75
				Tera, M, Breaz, R.E., Bologa, O., Racz, G., *Using a CNC Milling Machine for Incremental Forming*, Proceedings in Manufacturing Systems, Volume 9, Issue 2, 2014, ISSN 2067-9238, pp. 99-104, (Ulrich's Database, Index Copernicus, Research Bible), http://www.icmas.eu/Journal_archive_files/Vol_9-Issue2_2014_PDF/99-104_Tera.pdf,	3.75
				Mureşan, G., Morar, L., **Breaz, R.E.**, Contributions Regarding the Use of a CAM Software Solution In Multi-Axes Machining, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Vol. 57, Issue I, March, 2014, Technical University of Cluj-Napoca, pp. 93-98, http://atna-mam.utcluj.ro/index.php/Acta/article/view/187/183	5
				Mureşan, G., Morar, L., **Breaz, R.E.**, *Researches Regarding the Assessment of Manufacturing Accuracy of Numerically Controlled Machine-Tools*, Academic Journal of Manufacturing Engineering, Vol 12, Issue 1/2014, ISSN 1583-7904, 2014 (Scopus, Ulrich's Database, Index Copernicus), pp.14-19, http://www.eng.upt.ro/auif/Lucrari_PDF_2014_1/2_AJME_Muresan_14-19.pdf	5
				Mureşan, G., Morar, L., **Breaz, R.E.**, *The Influence of Tool Trajectories Upon the Accuracy Of The Manufacturated Parts*, Academic Journal of Manufacturing Engineering, Vol 12, Issue 1/2014, ISSN 1583-7904, 2014, (Scopus, Ulrich's Database, Index Copernicus), pp.62-67, http://www.eng.upt.ro/auif/Lucrari_PDF_2014_1/10_AJME_Muresan_62-67.pdf	5
				Breaz, R., Bologa, O., Tera, M., Racz, G., *Computer Assisted Techniques for the Incremental Forming Technology*,18th IEEE International Conference on Emerging Technologies & Factory Automation, September 10-13, Cagliari, Italy (Scopus, IEEE Explore)	3.75
				Breaz, R., Biriş, C., Bologa, O, Tîrnovean, S., *Studying the Behavior of CNC Laser Cutting Machines in the Contouring Regime*, Proceedings in Manufacturing Systems, Volume 8, Issue 3, ISSN 2067-9238, 2013, pp. 165-170, (Ulrich's Database, Index Copernicus, Research Bible) http://www.icmas.eu/Volume8_Issue3_2013.htm#pp._165-170	3.75

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					Bologa, O., Racz, G., **Breaz, R.**, Crenganiş, M., *Comparative study regarding the generation of circular profiles through cutting*, Welding and Material Testing, year XXII, Nr. 2/2013, ISSN 1453-0392, 2013,pp. 19-23, (CSA, Weldasearch, IIS Data), http://www.bid-isim.ro/	3.75
					Chera, I., Bologa, O., Racz, G., **Breaz, R.** and Crenganiş, M., *FEM Researches Regarding Incremental Forming Process*, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Volume XXII (XII), Nr. 2013/1, ISSN 1583-0691, 2013, pp. 53-38, (Ulrich's Database, Index Copernicus, ICAAP), http://imtuoradea.ro/auo.fmte/files-2013-v1/Chera%20Ionut%201.pdf	3
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					Crenganiş, M., **Breaz, R.**, Racz, G., Bologa, O., *The Kinematic Solution of a Redundant Robotic Arm Using Matlab Simmechanics and ANFIS Models*, Buletinul Institutului Politehnic din Iaşi, Secţia Construcţii de Maşini, Tomul LIX (LXIII), Fascicula 3, ISSN 1011-2855, 2013, pp. 33-40, (Ulrich's Database, Index Copernicus)	3.75
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					Crenganiş, M., Bologa, O., **Breaz, R.**, Racz, G., *The Inverse Kinematics Solutions of a 7 DOF Robotic Arm Using Fuzzy Logic*, Bulletin of the Polytechnic Institute of Iaşi, Vol. LVII(LXI), Fascicle 4 - Machine Constructions, pp. 74-82, ISSN 1011-2855, Iaşi, 2011 (Index Copernicus)	3.75
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		2.3 Articole in extenso în Reviste /Proceedings naţionale /internaţionale neindexate	Se admit maxim 2 articole la aceeaşi ediţie	**Breaz, R.E.**, Bologa, O., Racz, G., Oleksik, V., *Improving CNC machine tools accuracy by means of the circular test and simulation*, Proceedings of the International Conference on Manufacturing Systems – ICMaS 2010, Bucharest, november, 2010, publicată în Proceedings in Manufacturing Systems, vol.5, no. 3, 2010, Editura Academiei Romane, ISSN 2067-9238, pp. 157-162, 2010	1.5
				Beck, W., Schupp, P., Bologa, O., **Breaz, R.**, Racz, G., Ionescu, F. 2009, *Using a Neuro-fuzzy model to Calculate the Optimal Ratio Between Disciplines from Various Fields for Mechatronics Specialization*, International Technology, Education and Development Conference INTED 2009, 9-11 March 2009, Valencia, Spain, ISBN 978-84-612-7578-6, 2009 (http://library.iated.org/view/SCHUPP2009USI)	0.66
				Schupp, P., Beck, W., Bologa, O., **Breaz, R.**, Racz, G., Ionescu, F. 2009, *Using Fuzzy Logic Approach for Optimizing the Specialty Curricula in Engineering Studies*,	0.66

					International Technology, Education and Development Conference INTED 2009, 9-11 March 2009, Valencia, Spain, ISBN 978-84-612-7578-6, 2009 (http://library.iated.org/view/BECK2009USI)	
					Chicea, Anca, Bologa, O., **Breaz, R.**, Racz, G., 2009, Interpolation algorithms Simulation by Means of MATLAB SIMULINK Software Package, Proceedings of the 4rd International Conference on Manufacturing Science and Education/ MSE Sibiu 2009, Volume I, June, 2009, ISSN 1843 – 2522, pp. 241-244, 2009	0.66
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					Bologa, O., **Breaz, R. E.**, Biris, Cristina, *The Mathematical Model of a Feed Drive From a Profiling Machine*, Academic Journal of Manufacturing Engineering, Volume 6, Issue 4/2008, Editura Politehnica, Timisoara, ISSN 1583-7904, pp. 12-16, 2008	2
					Breaz, R. E., Bologa, O. C., Racz, G. S., Gîrjob, C., Biriş, C., *Determination of the Kinematic Dependencies Between the Movements for a Retrofitted Hob Sharpenining Machine*, Proceedings of the International Conference on Manufacturing Systems – ICMaS, Bucharest, 13-14 November, 2008, Published by Editura Academiei, ISSN 1842-3183, pp. 213-218, 2008	0.8
					Racz, G. S., Bologa, O. C., **Breaz, R. E.**, Gîrjob, C., *Comparative Study Regarding the Linking Elements in the Finite Elements Models*, Proceedings of the International Conference on Manufacturing Systems – ICMaS, Bucharest, 13-14 November, 2008, Published by Editura Academiei, ISSN 1842-3183, pp. 363-366, 200	1

		2.4 Proprietate intelectuală, brevete de invenţie şi inovaţie, etc.	2.4.1 internaţionale		
			2.4.2 naţionale		
		2.5 Granturi /proiecte câştigate prin competiţie	2.5.1 Director /responsabil - Minim 2D sau 4R pentru profesor	2.5.1.1 internaţionale	
				2.5.1.2 naţionale	
				Cercetări privind realizarea unor sisteme mecatronice inteligente cu control al mişcării destinate sistemelor flexibile de fabricaţie şi montaj / (2004 – 130 mil lei şi continuare 2005 – 130 mil lei), cod CNCSIS 11, tema 1, beneficiar: Consiliul Naţional al Cercetării Ştiinţifice din Învăţământul Superior (C.N.C.S.I.S.) -	3.5
				Realizarea unui sistem modularizat reconfigurabil de comandă numerică prin calculator personal pentru maşini unelte şi utilaje de prelucrare / (2002 – 55 mil lei şi continuare 2003 – 36 mil lei) program cod. 380, tema 92, beneficiar: Consiliul Naţional al Cercetării Ştiinţifice din Învăţământul Superior (C.N.C.S.I.S.)	2.5
				Cercetări privind realizarea unor sisteme de control ale mişcării multiaxiale comandate prin calculator / (2000 – 21 mil lei şi continuare 2001 – 15 mil lei), programul tema B3, beneficiar Agenţia Naţionala pentru Ştiinţă, Tehnologie şi Inovare (A.N.S.T.I.)	1.25
			2.5.2 Membru în echipă	2.5.2.1 internaţionale	
				Promoting and Supporting Implementation of Biogas-Polygeneration: A systematic Approach Towards Sustainable Energy Consumption in Romania, FP 6 Specific Support Action – ProBioPol, Call identifier: FP6-2005-TREN-4, No. 038387, Coordonator: AGIMUS GmbH – Germania, Partener: AGIR – Filiala Sibiu	4
				2.5.2.2 naţionale	
				Sisteme agabaritice de control al mişcării plane şi spaţiale utilizabile în industria autovehiculelor, AGAMIS, PNCDI II - Programul 4 – Parteneriate in domenii prioritare 72-206/2008, (2008-2011), beneficiar: Centrul Naţional de Management Programe	8
				Tehnologie integrată de evaluare şi compensare a erorilor sistemelor de prelucrare (TINCOMP), PNCDI II - Programul 4 – Parteneriate in domenii prioritare 71-011/2007, (2007-2010), beneficiar: Centrul Naţional de Management Programe	8
				Dezvoltarea infrastructurii de cercetare a unui laborator pentru testarea materialelor avansate utilizate în producţia de caroserii auto (TESTMAT), PNCDI II - Programul 2 – Capacităţi 124 CPI/200, 2007-2008, beneficiar: Autoritatea Naţională pentru Cercetare Ştiinţifică	4
				Materiale, tehnologii şi echipamente pentru profilări plane şi spaţiale (MATEPROF), CEEX Nr. 130/2006, A.M.C.S.I.T. – Universitatea „Politehnica" din Bucureşti, (2006-	6

				2008), beneficiar: Agenţia Managerială de Cercetare Ştiinţifică, Inovare şi Transfer Tehnologic	
				Tehnologii avansate de încălzire rapidă în infraroşu a matriţelor pentru prelucrare la cald, CEEX Nr. 217/2006, A.M.C.S.I.T. – Universitatea „Politehnica" din Bucureşti, (2006-2008), Beneficiar: Agenţia Managerială de Cercetare Ştiinţifică, Inovare şi Transfer Tehnologic	6
				Metode de modelare, simulare şi producţie virtuală bazată pe tehnologia informaţiei şi comunicării dedicată noii generaţii de sisteme de prelucrare reconfigurabile, CEEX Nr. 22/2005 – INFOSOC Bucureşti, (2005-2007), beneficiar: INFOSOC	8
				Sisteme inteligente de prelucrare prin deformare plastică la rece în construcţie modulară (SINTDEF), CEEX, A.M.C.S.I.T. – Universitatea „Politehnica" din Bucureşti, Nr. 24/2005 (2005-2007), beneficiar: Agenţia Managerială de Cercetare Ştiinţifică, Inovare şi Transfer Tehnologic	6
				Modernizarea maşinilor de rectificat şi ascuţit din fabricaţia şi exploatarea partenerilor industriali prin echiparea cu sisteme de comandă numerică, Nr. 1841 / 2003, 2003-2005, Agenţia Managerială pentru Cercetare Ştiinţifică Inovare şi Transfer Tehnologic, AMCSIT Politehnica Bucureşti	6
		2.6 Coordonare /dezvoltare laborator / centru cercetare (dacă este didactic punctajul se cuantifică o singură dată)	Responsabil	Dezvoltare laborator Maşini-unelte cu comandă numerică, echipat cu centrul de prelucrare prin frezare CNC Haas MiniMill, centrul de prelucrare cu 5 axe comandate numeric General Numeric, sistemele modulare de control al mişcării cu 3 axe, dispozitivul pentru testarea preciziei de conturare la mersul în gol al maşinilor-unelte CNC tip Renishaw QC 10. Laboratorul face parte din structura Centrului de Studii şi Cercetări pentru Deformări Plastice, recunoscut de Universitatea "Lucian Blaga" din Sibiu (http://centers.ulbsibiu.ro/cscdp/index.html)	40
3.	Recunoaşterea şi impactul activităţii (A3)	3.1 Citări în reviste ISI şi BDI		**3.1.1 ISI**	
				Eduard Hryha, Ruslan Shvab, Martin Bram, Martin Bitzer, Lars Nyborg, *Surface Chemical State of Ti powders and its Alloys: Effect of Storage Conditions and Alloy Composition*, Applied Surface Science (2016), http://dx.doi.org/10.1016/j.apsusc.2016.01.046, ISSN: 0169-4332 citează: Cotigă, C., Racz, S.G., Bologa, O., **Breaz, R.E**, *Researches Regarding the Usage of Titanium Alloys in Cranial Implants*, Applied Mechanics and Materials, Vol 657, pp. 173-177	2.5

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					Zhao, G., Zhang, Q., Jiang, J., *Study on Biaxial Linkage for Full-Closed AC Servo System with Modeling and Experiment*, Advanced Science Letters, Volume 4, Numbers 6-7, June/July 2011, DOI: 10.1166/asl.2011.1510, p. 2009-2014(6) citează: **Breaz, R.E.**, Bologa, O., Oleksik, V., Racz G., *Computer Simulation for the Study of CNC Feed Drives Dynamic Behavior and Accuracy*, The IEEE Region 8 EUROCON 2007, International Conference on "Computer as a tool" Warsaw University of Technology, Warsaw, Poland, September 9-12, doi: 10.1109/EURCON.2007.4400575, pp. 2229-2233, 2007	2.5
					3.1.2 BDI	
					Hatefi, Shahrokh; Ghahraei, Omid; Bahraminejad, Behzad, *Design and Development of a Novel CNC Controller for Improving Machining Spee*d, Majlesi Journal of Electrical Engineering, v. 10, n. 1, mar. 2016. ISSN 2345-3796, http://www.mjee.org/index/index.php/ee/article/view/1835 (jurnal indexat Ebsco, IET, DOAJ, ProQuest, Copernicus, getCited, Ulrich's International Periodicals Directory, citefactor, SIF), citează: **Breaz, R.E.**, Bologa, O., Oleksik, V., Racz G., *Computer Simulation for the Study of CNC Feed Drives Dynamic Behavior and Accuracy*, The IEEE Region 8 EUROCON 2007, International Conference on "Computer as a tool" Warsaw University of Technology, Warsaw, Poland, September 9-12, doi: 10.1109/EURCON.2007.4400575, pp. 2229-2233, 2007	1.25

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					Duan Jinjun, Gan Yahui, Dai Xianzhong, Xu Xiang, Cao Pengfei, *Method of inverse kinematics solution for a redundant manipulator based on manipulability*, Journal of Huazhong University of Science and Technology (Natural Science Edition), 2015, v.43; No.393(S1), pp. 45-48+57,(indexare Google Scholar), ISSN 1671-4512, citează lucrarea: Crenganiş, M., **Breaz, R.**, Racz, G., Bologa, O., *The Inverse Kinematics Solutions of a 7 DOF Robotic Arm Using Fuzzy Logic*, The 7th IEEE Conference on Industrial Electronics and Applications (ICIEA 2012), Singapore, July 18-20 2012, ISBN 978-1-4577-2118-2, pp. 518 – 523, 2012, DOI 10.1109/ICIEA.2012.6360783, http://www.ieeeiciea.org/2012/	1.25
					Diego A. Alonso S., John E. Gil D., Fredy H. Martínez S., *Prototipo de máquina fresadora CNC para circuitos impresos*, Revista Tekhnê, Universidad Distrital Francisco José de Caldas, Bogota, Columbia, Enero - Junio 2015, Vol. 12, No. 1, pp. 23– 38, (indexare Google Scholar), ISSN 1692-8407, http://revistas.udistrital.edu.co/ojs/index.php/tekhne/article/view/10439/11456, citează lucrarea: **Breaz, R.**, Racz, G., Bologa, O., Oleksik, V., *Motion Control of Medium Size CNC Machine-Tools - A Hands-on Approach*, The 7th IEEE Conference on Industrial Electronics and Applications (ICIEA 2012), Singapore, July 18-20 2012, ISBN	1.25

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				Jayson P. Rogelio and Renann G. Baldovino, *A PC–Based Controller for the Computer Numerically-Controlled (CNC) LASER Machine*, Proceedings of the International MultiConference of Engineers and Computer Scientists 2015 Vol I, IMECS 2015, March 18 - 20, 2015, Hong Kong, ISBN 978-988-19253-2-9, published in Lecture Notes in Engineering and Computer Science (jurnal indexat Scopus, CiteFactor, ISSN 2078-0958 (Print); ISSN 2078-0966 (Online), http://www.iaeng.org/publication/IMECS2015/IMECS2015_pp242-247.pdf, citează lucrarea: **Breaz, R.,E.,** Bologa, O., Biris, Cristina, Racz, G., Girjob, Claudia, Oleksik, V., *Method for Improving the Contouring Accuracy for CNC Profiling Machines at the Shop Floor Level*, The 7th IEEE International Conference on Industrial Informatics, INDIN 2009, 24-26 iunie 2009, Cardiff, Marea Britanie, pp. 813-818, ISBN 978-1-4244-3760-3, ISSN 1935-4576	0.83
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		3.2 Prezentări invitate în plenul unor manifestări naţionale şi internaţionale şi Profesor invitat (exclusiv ERASMUS)		**3.2.1 internaţionale**	
				Prezentarea în plenul Conferinţei International Conference on Manufacturing Systems ICMaS 2010, Bucureşti, 11-12 noiembrie 2010 a lucrării: Breaz, R.E., Bologa, O., Racz, G., Oleksik, V., *Improving CNC machine tools accuracy by means of the circular test and simulation*, Proceedings of the International Conference on Manufacturing Systems – ICMaS 2010, Bucharest, november, 2010, publicată în Proceedings in Manufacturing Systems, vol.5, no. 3, 2010, Editura Academiei Romane, ISSN 2067-9238, pp. 157-162 http://edition2010.icmas.eu/Program_ICMAS_2010.pdf	10
				3.2.2. naţionale	

		3.3 Membru în colectivele de redacție sau comitete științifice al revistelor și manifestărilor științifice / recenzor pentru reviste și manifestări naționale și internaționale indexate ISI		**3.3.1 ISI**	
				Recenzor IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM), edițiile 2014, 2015	10
				Recenzor International Conference Optimization of the Intelligent and Automation Systems, OPTIROB, edițiile 2013, 2014	10
				3.3.2 BDI	
				Recenzor 8th IFAC Conference on Manufacturing Modelling, Management and Control, 2016, Troyes, France	8
				Recenzor IFAC Symposium on Information Control in Manufacturing, ediția 2015 (INCOM 2015), Ottawa, Canada	8
				Recenzor International Conference on Manufacturing Systems, Iași, edițiile 2011, 2013, 2015	8
				Recenzor International Conference on Mechanical Engineering Robotics and Aerospace, ICMERA, edițiile 2013, 2014, 2015, 2016	8
				Recenzor International Conference Optimization of the Intelligent and Automation Systems, OPTIROB, edițiile 2015, 2016	8
				Recenzor The 7th IEEE Conference on Industrial Electronics and Applications (ICIEA 2012), Singapore, July 18-20, 2012	8
				Recenzor ICERI2009, the 2nd International Conference of Education, Research and Innovation Madrid (Spain), on 16th, 17th and 18th of November, 2009	8
				3.3.3 naționale și internaționale neindexate	
				Recenzor The 3rd International Polymer Processing Conference, Sibiu, 7-8 noiembrie 2013	5
		3.4 Experiența de management, analiza și evaluare în cercetare și/sau învățământ		**3.4.1 conducere**	
				3.4.2 membru	
		3.5 Premii		3.5.1 Academia Română	

				3.5.2 ASA, AOSR, academii de ramură și CNCSIS	
				3.5.3 premii internaționale	
				3.5.4 premii naționale în domeniu	
		3.6 Membru în academii, organizații, asociații profesionale de prestigiu, naționale și internaționale, apartenență la organizații în domeniul educației și cercetării	3.6.1 Academia Română		
			3.6.2 ASA, AOSR și academii de ramură		
			3.6.3 conducere asociații profesionale	**3.6.3.1 internaționale**	
				3.6.3.2 naționale	
			3.6.4 Asociații profesionale	**3.6.4.1 internaționale**	
				Membru VDI (Verein Deutscher Ingineure, din 2001)	
				Membru IEEE (din 2006)	5
				Membru IEEE Industrial Electronics Society (din 2006)	5
				Membru IEEE Control Systems Society (din 2014)	5
				Membru IEEE Robotics and Automation Society (din 2015)	5
					5
				3.6.4.2 naționale	
				Membru AGIR (Asociația Generală a Inginerilor din România	
				Membru SRAIT (Societatea Română de Automatică și Informatică Tehnică)	3
					3
			3.6.5 Organizații în domeniul educației și cercetării	**3.6.5.1 conducere**	
				3.6.5.2 membru	
				Membru ARACIS	
					5

Condiții minimale (A)			
Nr. crt.	Categorie		
	Domeniu de activitate	Condiții profesor	Punctaj candidat
1.	Activitate didactică/profesională (A1)	Minim 130 puncte	206.19
2.	Activitate de cercetare (A2)	Minim 230 puncte	439.3
3.	Recunoașterea impactului activității (A3)	Minim 70 puncte	164.06
Total		Minim 430 puncte	809.55