

Fișa de verificare

privind îndeplinirea condițiilor minime în conformitate cu grila de evaluare a comisiei CNATDCU – Inginerie Industrială și Management

Nr. crt.	Domeniul activităților	Tipul activităților	Categorii și restricții	Subcategorii	Indicatori	Realizări	Punctaj
0	1	2	3	4	5	6	7
1	Activitatea didactică/ profesională (A1)						141.25
						Punctaj minim profesor – 130 puncte	
		1.1 Cărți și capitole în cărți de specialitate				Total subcategorie 1.1	65.60
			1.1.1 Cărți/capitole ca autor	1.1.1.1 internaționale	nr. pagini/(5*nr. autori)	Total subcategorie 1.1.1.1	4.5
1	Motoc Luca D. , Oltean I. D. - <i>Conductive polymeric composite material's behaviour under various loading conditions</i> , DAAAM International Scientific Book 2008, ISBN 3-901509-69-0, ISSN 1726-9687, Ed. B. Katalinic, Publisher DAAAM International Viena						0.8
2	Șoica A., Motoc Luca D. , Lache S., Țăruleșcu S. - <i>Aspects concerning of the automotive-pedestrian collision</i> , DAAAM International Scientific Book 2008, ISBN 3-901509-69-0, ISSN 1726-9687, Ed. B. Katalinic, Publisher DAAAM International Viena						0.7
3	Curtu I., Motoc Luca D. – <i>Theoretical and experimental approach of multi-phase composite materials</i> , DAAAM International Scientific Book 2009, ISBN 978-3-901509-71-1, ISSN 1726-9687, Ed. B. Katalinic, Publisher DAAAM International Viena						1.4
4	Motoc Luca D. , Ciofoaia V. – <i>Predicting, measuring and tailoring thermal properties of morphological and structural modified polymeric composite materials</i> , Engineering the future, Ed. L. Dudas, ISBN 978-953-307-210-4, Sciyo, http://www.sciyo.com , 2010.						1.6
5	Curtu I., Stanciu D. M., Tomar I., Motoc Luca D. <i>Composite materials with application in the sound barrier structures</i> , The automotive and the environment, Cambridge Scholars, 2011, pg. 507-518						0.55
				1.1.1.2 naționale	nr. pagini/(10*nr. autori)	Total subcategorie 1.1.1.2	61.10
1	Motoc Luca D. - <i>Echipamente de prelucrarea optică a informațiilor</i> , Ed. Universității Transilvania din Brașov, ISBN 973-635-143-2, 2003 (233 pag).						23.3
2	Motoc Luca D. – <i>Materiale compozite cu pulberi: analiză, modelare, fabricare și testare ultrasonică nedistructivă</i> , Ed. Universității Transilvania din Brașov, ISBN 973-635-527-6, 2005 (250 pag).						25
3	Curtu I., Motoc Luca D. – <i>Micromecanica materialelor compozite. Modele teoretice</i> , Ed. Universității Transilvania din Brașov, ISBN 978-973-598-469-4 9, 2009 (206 pag).						12.8

		1.2 Material didactic/Lucrări didactice	1.2.1 Manuale didactice/monografii		nr. pagini/(20*nr. autori)	Total subcategorie 1.2.1	11.25
1	Motoc Luca D. , Bejinaru Gh., Pop A., Novac M. – <i>Materiale și semifabricate optice. Sticla optică</i> , Ed. Universității Transilvania din Brașov, ISBN 973-635-515-2, 2005 (180 pag).						2.25
2	Motoc Luca D. – <i>Metoda elementului finit</i> , Ed. RISOPRINT, Cluj-Napoca, ISBN 978-973-53-1978-6, 2016 (180 pag).						9
			1.2.2 Îndrumare de laborator/aplicații		nr. pagini/(25*nr. autori)	Total subcategorie 1.2.2	14.40
1	Motoc Luca D. – <i>Programarea în C++. Aplicații</i> , Ed. Universității Transilvania din Brașov, ISBN 978-973-598-183-9, 2007 (160 pag).						6.4
2	Motoc Luca D. – <i>Cercetare operațională. Aplicații în inginerie</i> , Ed. Universității din Oradea, ISBN 978-606-10-1466-8, 2015 (200 pag).						8
		1.4 Dezvoltare de noi discipline	Titular		10	Total subcategorie 1.4	50
1	<i>Materiale compozite</i> – Licență, Știința Materialelor						10
2	<i>Cercetare operațională</i> – Licență, Inginerie Economică în Domeniul Mecanic						10
3	<i>Roboți industriali (Robotică)</i> - Licență, Inginerie Economică în Domeniul Mecanic						10
4	<i>Sisteme optice computerizate</i> – Licență, Optometrie						10
5	<i>Optica geometrică și optica fizică</i> – Licență, Optometrie						10
2	Activitatea de cercetare (A2)						534.625
	Punctaj minim profesor – 230 puncte						
		2.1 Articole în Reviste cotate ISI Thomson Reuters și în volume indexate ISI Proceedings	Minim 8 articole pentru profesor din care 2 în reviste	Total subcategorie 2.1			309.65
				2.1.1 Reviste cotate ISI Thomson Reuters	(30+10*fact. Impact)/(nr. autori)	Total subcategorie 2.1.1	161.43
1	Curtu, I. and D.L. Motoc , <i>Theoretical - Experimental Comparisons of Multi-phase Composite Materials Elastic Coefficients Retrieved from Tensile, Compressive and Bending Tests. Influencing Factors</i> . Materiale Plastice, 2008. 45 (4): p. 366-371. http://apps.webofknowledge.com http://revmaterialeplastice.ro/pdf/CURTU%20I.pdf .						19.365

2	Oltean, D.I., et al., <i>Electrical properties of metallic iron particle reinforced polymeric composite materials</i> . Journal of Optoelectronics and Advanced Materials, 2008. 10 (12): p. 3328-3331., http://joam.inoe.ro , http://apps.webofknowledge.com	11.923				
3	Motoc, D.L. , I. Oltean, and V. Luca, <i>Tailoring the multiphase composite materials' electrical properties</i> . Journal of Optoelectronics and Advanced Materials, 2010. 12(8): p. 1795-1798. . http://apps.webofknowledge.com	11.373				
4	Motoc, D.L. and N. Dadirlat, <i>Particle size and structural composition influences on overall CTE behavior of recycled polymeric</i> . Metalurgia International, 2011. 16 (4): p. 149-152. http://apps.webofknowledge.com	15.420				
5	Motoc, D.L. , A.P. Pop, and G.B. Mihoc, <i>A perspective in sizing the main influencing factors on the thermal properties of different metal/non-metal powders</i> . Metalurgia International, 2011. 16 (4): p. 97-100. http://apps.webofknowledge.com	10.28				
6	Vlase, S. Teodorescu-Drăghicescu, H., Motoc, D.L. , Scutaru, M.L., Serbina, L., Călin, M.R. <i>Behavior of multiphase fiber-reinforced polymers under short time cyclic loading</i> . Optoelectronics and Advanced Materials-Rapid Communications, 2011. 5 (3-4): p. 419-423. http://apps.webofknowledge.com	6.608				
7	Purcarea, R., D.L. Motoc , and M.L. Scutaru, <i>Mechanical behavior of a thin nonwoven polyester mat subjected to three-point bend tests</i> . Optoelectronics and Advanced Materials-Rapid Communications, 2012. 6 (1-2): p. 214-217. http://apps.webofknowledge.com	11.34				
8	Motoc, D.L. , J. Ivens, and N. Dadirlat, <i>Coefficient of thermal expansion evolution for cryogenic preconditioned hybrid carbon fiber/glass fiber-reinforced polymeric composite materials</i> . Journal of Thermal Analysis and Calorimetry, 2013. 112 (3): p. 1245-1251. http://apps.webofknowledge.com	17.353				
9	Motoc, D.L. , S.F. Bou, and R.B. Gimeno, <i>Effects of fibre orientation and content on the mechanical, dynamic mechanical and thermal expansion properties of multi-layered glass/carbon fibre-reinforced polymer composites</i> . Journal of Composite Materials, 2015. 49 (10): p. 1211-1221. http://apps.webofknowledge.com , http://jcm.sagepub.com/content/early/2014/04/22/0021998314532151.abstract	14.190				
10	Motoc Luca D. , Ferrandiz BOU S., Pop P. A., <i>Particle reinforced composites's elastic properties retrieval by aid of laser generated ultrasound waves</i> , Journal of Optoelectronics and Advanced Materials, 2015. 17(7-8): p. 1032-1037, ISSN 1454-4164	11.43				
11	Pop P. A., Motoc Luca D. , <i>Experimental research about characterization of novel porous composites with special applications</i> , Journal of Optoelectronics and Advanced Materials, 2015. 17(7-8): p. 943-951, ISSN 1454-4164.	17.15				
12	Motoc, D.L. and I. Curtu, <i>Dynamic Mechanical Analysis of Multiphase Polymeric Composite Materials</i> . Materiale Plastice, 2009. 46 (4): p. 462-466. http://www.revmaterialeplastice.com/pdf/MOTOC%20LUCA%204.pdf . http://apps.webofknowledge.com	15				
			2.1.2 Volume indexate ISI Proceedings	25/(nr. autori)	Total subcategorie 2.1.2	148.22
1	Oltean, I.D. and D.L. Motoc , <i>Experimental research approaches of few electrical properties in case of metallic particles reinforced polymeric composite materials</i> . Proceedings of the 10th International Conference on Optimization of Electrical and Electronic Equipment, Vol I: Electrotechnics, ed. M. Cernat, A. Nicolaide, and I. Margineanu. 2006. 165-168. http://info-optim.ro/history.php ; http://apps.webofknowledge.com	12.5				
2	Teodorescu, H., et al., <i>Some averaging methods in the micromechanics of composite materials with periodic structure</i> . ACMOS '08: Proceedings of the 10th Wseas International Conference on Automatic Control, Modelling and Simulation, ed. M. Demiralp, et al. 2008. 210-214. . http://apps.webofknowledge.com	6.25				

3	Teodorescu, H., et al., <i>Mechanical behavior of an advanced sandwich composite structure</i> . New Aspects of Engineering Mechanics, Structures, Engineering Geology, ed. M.K. Nikolinakou, et al. 2008. 280-285. . http://apps.webofknowledge.com	4.20
4	Teodorescu-Draghicescu, H., et al., <i>On the Elastic Properties of Some Advanced Composite Laminates Subjected to Off-Axis Loading Systems</i> . Proceedings of the 1st Wseas International Conference on Materials Science, ed. D.K. Yfantis, et al. 2008. http://www.wseas.us/e-library/conferences/2008/bucharest2/material/materials00.pdf . http://apps.webofknowledge.com	5
5	Pirna, I., et al., <i>Flexural Rigidity Evaluation of a New Sandwich Structure With Nonwoven Polyester Mat</i> . Proceedings of the 11th Wseas International Conference on Automatic Control, Modelling and Simulation, ed. M. Demiralp, N.A. Baykara, and N.E. Mastorakis. 2009. 234-239. . http://apps.webofknowledge.com	3.6
6	Teodorescu-Draghicescu, H., et al., <i>On the Elastic Constants of a Fibre-Reinforced Composite Laminate</i> . Proceedings of the 2nd Wseas International Conference on Engineering Mechanics, Structures and Engineering Geology, ed. N.E. Mastorakis, O. Martin, and X.J. Zheng. 2009.155-158. http://www.wseas.org/multimedia/books/2009/rodos/EMESEG.pdf . http://apps.webofknowledge.com	5
7	Teodorescu-Draghicescu, H., et al., <i>A Homogenization Method for Pre-Impregnated Composite Materials</i> . World Congress on Engineering 2009, Vols I and II, ed. S.I. Ao, et al. 2009. 1563-1568. http://www.iaeng.org/publication/WCE2009/WCE2009_pp1563-1568.pdf . http://apps.webofknowledge.com	5
8	Teodorescu-Draghicescu, H., et al., <i>Some advanced symmetric composite laminates subjected to off-axis loading systems. A STIFFNESS EVALUATION</i> , in <i>Proceedings of the 13th International Conference Modern Technologies, Quality and Innovation: Modtech 2009 - New Face of TMCR</i> , D. Nedelcu, L. Slatineanu, and S. Mazuru, Editors. 2009. p. 647-650. http://apps.webofknowledge.com http://modtech.tuiasi.ro/2009/publication/T/Teodorescu_Draghicescu_Horatiu_A2.pdf	5
9	Motoc, D.L. , et al., <i>Multiphase Polymeric Composite Materials CTE Variation with Extreme Environmental Conditions</i> . Materiale Plastice, 2010. 47 (2): p. 236-239 http://www.linknovate.com/publication/multiphase-polymeric-composite-materials-ce-variation-with-extreme-environmental-conditions-2086643/ . http://apps.webofknowledge.com	8.333
10	Motoc, D.L. , N. Dadirlat, and H. Teodorescu, <i>Novel Multiphase Polymeric Composite Structures with Improved CTE Designed for Heating Elements</i> . New Aspects of Fluid Mechanics, Heat Transfer and Environment, ed. N. Mastorakis, V. Mladenov, and Z. Bojkovic. 2010. 358-360. http://www.wseas.org/multimedia/books/2010/Taipei/FH.pdf . http://apps.webofknowledge.com	8.333
11	Teodorescu-Draghicescu, H., et al., <i>Thermal Behaviour of a Thin Sandwich Composite Structure With Nonwoven Polyester Mat Core</i> . New Aspects of Fluid Mechanics, Heat Transfer and Environment, ed. N. Mastorakis, V. Mladenov, and Z. Bojkovic. 2010. 345-350. http://www.wses.org/multimedia/boos/2010/Taipei/FH.pdf . http://apps.webofknowledge.com	5
12	Ferrandiz Bou, S., et al., <i>Adapting to the new ECTS programme. Comparison of the evolution of the materials course in Romania and Spain</i> . Inted2011: 5th International Technology, Education and Development Conference, 2011: p. 4027-4033. http://library.iated.org/view/FERRANDIZBOU2011ADA . http://apps.webofknowledge.com	6.25
13	Ferrandiz Bou, S., et al., <i>Evaluation of the materials course in the new ects programme. Comparison of Romania and Spain experience</i> . Edulearn12: 4th International Conference on Education and New Learning Technologies, 2012: p. 6458-6465. http://apps.webofknowledge.com	6.25

14	Motoc, D.L. <i>Dynamic mechanical characterization of CG/GF hybrid reinforced polymeric composite structures</i> . Proceedings of the ASME 11th Biennial Conference on Engineering Systems Design and Analysis, 2012, Vol 3. 2013. 27-32. http://apps.webofknowledge.com				25	
15	Motoc, D.L. , S. Vlase - <i>Micromechanical based simulation and experimental approaches in. The thermal conductivities assessment of hybrid polymeric composite materials</i> . Proceedings of the ASME 11th Biennial Conference on Engineering Systems Design and Analysis, 2012, Vol 3. 2013. 21-26. http://apps.webofknowledge.com				12.5	
16	Oltean, I.D., D.L. Motoc , <i>About Electromagnetic Behaviour of Composite Materials with Iron Powder</i> . 2013 8th International Symposium on Advanced Topics in Electrical Engineering. 2013. http://apps.webofknowledge.com http://ieeexplore.ieee.org/xpls/abs_all.jsp?anumber=6563460&tag=1				12.5	
17	Motoc Luca, D. , et al., <i>A comparison approach on predicted and retrieved mechanical properties of Ni foams</i> . Metalurgia International, 2013. 18 : p. 69-72. http://apps.webofknowledge.com				6.25	
18	Pop, M.A., Motoc Luca D. et. al., <i>CTE assessment of various glass fibre reinforced polymer composite architectures</i> . Metalurgia International, 2013. 18 : p. 131-134. http://apps.webofknowledge.com				5	
19	Motoc Luca D. , Pop P. A., Ferrandiz Bou S., Dadirlat N., <i>Tailoring thermal properties of hybrid glass fibers/carbon fibers reinforced polymeric composites</i> , Proccedings of ASME Congress & Exposition Denver, USA, Nov. 11-17, 2011, ASME Book Group Authors, vol 8, p. 607-612, http://apps.webofknowledge.com				6.25	
		2.2 Articole în reviste și manifestări științifice indexate în alte baze de date internaționale	Minim 8 articole profesor	15/nr. autori	Total subcategorii 2.2	106.25
1	Motoc Luca, D. , <i>Hybrid particle/fiber polymer based composites analysis based on DMA data vs. material property predictions</i> . Applied Mechanics and Materials 2014: p. 101-106. http://www.scientific.net/AMM.659.101				15	
2	Motoc Luca, D. and T. Bedo, <i>An estimate of thermo-physical changes in hybrid basalt/glass fibres reinforced polymer composites</i> . Advanced Engineering Forum, 2015. 13 : p. 23-28. http://www.scopus.com , http://www.scientific.net/				7.5	
3	Motoc Luca D. , Soica A. – <i>Mechanical behaviour of 3-phase polymeric composites subjected to static loading conditions</i> , Proceedings of the 6th International Conference of DAAAM Baltic, Industrial Engineering, Editor R.Kyttner, 23-26 aprilie 2008, Tallin, Estonia, ISBN 978-9985-59-783-5, pp. 507-512, http://www.scopus.com				7.5	
4	Motoc Luca D. , Teodorescu Drăghicescu H. - <i>Fillers' content influence on the mechanical properties of the glass mat reinforced polymeric composite</i> , The 19th International DAAAM Symposium "Intelligent Manufacturing & Automation: Focus on Next Generation of Intelligent Systems and Solutions", 22-25th October 2008, Trnava, Slovakia, ISSN 1726-9679, ISBN 978-3-901509-68-1, p. 0913-0914. http://www.scopus.com				7.5	
5	Oltean, I. D, Motoc Luca D. – <i>Conductive polymeric composites behaviour under various loading conditions</i> , Proceedings of the 6th International Conference of DAAAM Baltic, Industrial Engineering, Editor R.Kyttner, 23-26 aprilie 2008, Tallin, Estonia, ISBN 978-9985-59-783-5, pp. 513-518, http://www.scopus.com				7.5	
6	Cerbu, C., D. Motoc Luca , and V. Ciofoaia. <i>Advantages of the using of the poliester resin to manufacturing of the composite materials based on wood flour</i> . in <i>Annals of DAAAM and Proceedings of the International DAAAM Symposium</i> . 2009. http://www.scopus.com				5	

7	Motoc Luca D. – <i>Effects of particle content and post-curing thermal treatment on the effective modulus of multi-phase composite materials</i> , Proceedings to the 20th International DAAAM Symposium "Intelligent Manufacturing & Automation: Theory, Practice & Education", 25-28 noiembrie 2009, Viena, Austria, ISSN 1726-9679, ISBN 978-3-901509-70-4, p. 0163-0164. http://www.scopus.com					15	
8	Motoc Luca D. , Cerbu C., Șoica A. – <i>Static vs. dynamic elastic moduli of multiphase polymeric composite materials</i> , Proceedings to the 20th International DAAAM Symposium "Intelligent Manufacturing & Automation: Theory, Practice & Education", 25-28 noiembrie 2009, Viena, Austria, ISSN 1726-9679, ISBN 978-3-901509-70-4, p. 0907-0908., http://www.scopus.com					5	
9	Șoica A., Țirulescu S., Motoc Luca D. – <i>Influence of bumper design on pedestrian injuries</i> , Proceedings to the 20th International DAAAM Symposium "Intelligent Manufacturing & Automation: Theory, Practice & Education", 25-28 noiembrie 2009, Viena, Austria, ISSN 1726-9679, ISBN 978-3-901509-70-4, p. 0145-0146. http://www.scopus.com					5	
10	Stanciu M. D., Curtu I., Motoc Luca D. - <i>Determination of the acoustic characteristics of the ligno-cellulose plates by non-invasion method</i> , Proceedings to the 20th International DAAAM Symposium" Intelligent Manufacturing & Automation: Theory, Practice & Education", 25-28 noiembrie 2009, Viena, Austria, ISSN 1726-9679, ISBN 978-3-901509-70-4, p. 1799-1800. http://www.scopus.com					5	
11	Motoc Luca, D. and C. Cerbu. <i>Quantifying porosity influence on metallic particle reinforced composite properties</i> . in <i>WCE 2010 - World Congress on Engineering</i> 2010. http://www.scopus.com					5	
12	Motoc Luca D. et. al. – <i>A micromechanical based approach for dynamical properties evaluation in case of polymeric composite materials</i> , Proceedings of the International Conference of DAAAM Baltic Industrial Engineering, 2010, http://www.scopus.com					5	
13	Teodorescu H., Vlase S., Motoc Luca D. , Chiru A. <i>Thermal response of a thin sandwich composite structure</i> , Engineering Letters, 18(3), 2010.					3.75	
14	Motoc Luca D. Pop P. A. <i>Thermal properties of novel carbon and glass fibers based hybrid composite for printed circuit boards</i> , Annals of the Oradea University, Fascicle of Management and Technological Engineering, vol. X(XX), no. 3, 2011, p. 1.18-1.22, ISSN 1583-0691 (Ulrich's, Index Copernicus, Google Scholar)					7.50	
15	Pop, A. P., Bejinaru Mihoc Gh., Motoc Luca D. – <i>About mechanical characteristics of optical glass</i> , Annals of University of Oradea, Fascicle of Management and Technological Engineering, ISSN 1583-0691, Volume XXI (XI), 2012/2, p. 4.112-4.119, 2012, (Ulrich's, Index Copernicus, Google Scholar) http://imtuoradea.ro/auo.fmte/2012.v2.machines.engineering.technologies.php					5	
		2.3 Articole in extenso în reviste/proceedings naționale/internaționale neindexate				Total subcategorie 2.3	35.165
				2.3.1 Articole in extenso în reviste neindexate	6/(nr. autori)	Total subcategorie 2.3.1	16.5
1	Motoc Luca D. <i>Provocări și perspective în procesul de fabricare a lentilelor cu suprafețe asferice</i> , "CREATIVITATE, INVENTICĂ, ROBOTICĂ", Buletinul AGIR, nr. 1, p. 68-71, 2012, http://www.buletinulagir.agir.ro .					6	

2	Motoc Luca D. <i>Noi valențe în analiza multiscalară neliniară a structurilor mecanice fabricate din materiale compozite</i> , Buletinul AGIR, no. 2, 2013, p. 79-82, http://www.buletinulagir.agir.ro .	6
3	Sturzu A, Luca-Motoc D. <i>Theoretical eye models comparison based on MTF evolution</i> . Bulletin of the Transilvania University of Brasov, Ser I Eng Sci. 2011; 4(53):33-8.	3
4	Geaman V, Pop MA, Motoc Luca D , Radomir I. <i>Tribological properties of thermal spray coatings</i> . European Scientific Journal. 2013.	1.5
	2.3.2 Articole proceedings neindexate	4/(nr. autori)
		Total subcategorii 2.3.2
		18.665
1	Motoc Luca D. , Pop A. P., Bejinaru G. - <i>Sizing the cryogenic conditioning on the CTE and Young modulus in case of polymeric multiphase composites</i> , MSEC 2010 – International Manufacturing Science and Engineering Conference, ASME 2010, Oct. 12-15, Erie, USA, ISBN 978-0-7918-3887-7, http://www.asme.org/	1.333
2	Motoc Luca D. , Curtu I., Campeanu M. – <i>Environmental effects on multiphase polymeric composite materials thermal properties</i> , ECCM14 - Proceedings to the 14 th European Conference on Composite Materials, June 7-10 2010, Budapest, Hungary, ISBN 978-963-313-008-7, http://eccm14.pt.bme.hu	1.333
3	Motoc Luca D. , Teodorescu Drăghicescu H. <i>A mixed micromechanical approach for predicting the hybrid multiphase composites' elastic moduli</i> , Proceedings to the Advanced Composite Materials Engineering and Advanced in Human Body Protection to Vibrations COMAT 2008, vol. 1, p.153-156.	2
4	Motoc Luca D. , Luca M. <i>Developing and characterizing new multiphase composite materials for automotive brake</i> , Proceedings to the 11 th International Congress on Automotive and Transport Engineering CONAT 2010, vol. VI, p. 215-222, http://www.conat.ro/index.php/conat/2010	2
5	Motoc Luca D. , Olteanu I., Luca M. <i>Predicting, measuring and tailoring electrical properties for new composite materials used in automotive sensors</i> , Proceedings to the 11 th International Congress on Automotive and Transport Engineering CONAT 2010, vol. VI, p. 223-229, ISSN 2069-0401 http://www.conat.ro/index.php/conat/2010	1.333
6	Motoc Luca D. – <i>FEM based simulation of injected bone shaped PP based composite materials</i> , The 4 th International Conference on Advanced Composite Materials Engineering, COMAT 2012, 18 th -20 th October 2012, Braşov, vol. 3, p. 764-768, ISBN 978-973-131-162-3, http://auto.unitbv.ro/ocs/index.php/comat/comat2012 .	4
7	Mitu, L., Motoc Luca D. - <i>Assessing the main influencing factors on the thermal properties of the polymeric composite materials</i> , ModTech International Conference - New face of TMCR, Modern Technologies, Quality and Innovation - New face of TMCR , 24-26 May 2012, p., ISBN 978-973-131-162-3, Sinaia, Romania, http://www.modtech.tuiasi.ro/	2
8	Mitu, L., Motoc Luca D. , Bejinaru Mihoc, Gh., Geaman, V. – <i>Drilling precision analysis of the polymeric composite materials</i> , ModTech International Conference - New face of TMCR, Modern Technologies, Quality and Innovation - New face of TMCR , 24-26 May 2012, Sinaia, Romania, http://www.modtech.tuiasi.ro/	1
9	Motoc Luca D. Pop P. A. <i>Thermal properties of novel carbon and glass fibers based hybrid composite for printed circuit boards</i> , Annals of the Oradea University, Fascicle of Management and Technological Engineering, vol. X(XX), no. 3, 2011, p. 1.18-1.22, ISSN 1583-0691, http://imtuoradea.ro/auo.fmte/2011.v2.machines.engineering.technologies.php	1.333

10	Motoc Luca D. , Ferandiz S., Balart R – <i>Thermal conductivity of hybrid CF/FF epoxy based composite materials</i> , The 40th International Conference on Mechanics of Solids, Acoustics and Vibrations ICMSAV 2016 & The 6th International Conference on Advanced Composite Materials Engineering COMAT 2016, 24-25 Nov. 2016, Braşov, p. 135, https://sites.google.com/site/comat2016/						1.333
11	Vlase S., Itu C., Motoc Luca D. , Munteanu V. – <i>Increasing the stiffness of composites using carbon fibers</i> , The 40th International Conference on Mechanics of Solids, Acoustics and Vibrations ICMSAV 2016 & The 6th International Conference on Advanced Composite Materials Engineering COMAT 2016, 24-25 Nov. 2016, Braşov, p. 135, https://sites.google.com/site/comat2016/						1
		2.4 Proprietate intelectuală, brevete de invenție și inovație, etc.				Total subcategorie 2.4	10
				2.4.2 naționale	20/nr. autori	Rezistor reglabil cu element rezistiv din material compozit piezorezistiv nr. RO 123411 B1 autori: Olteanu I. D., Motoc Luca D. , 2012	10
		2.5 Granturi/proiecte câștigate prin competiție	Total subcategorie 2.5				73.56
			2.5.1 Director/responsabil	2.5.1.2 naționale	10*val/(10 mii euro*nr. ani)	Total subcategorie 2.5.1	45.56
1	CNCSIS AT 172/2004 - <i>Analiza, fabricarea, modelarea și testarea ultrasonică nedistructivă a unor structuri de materiale compozite ranforsate cu particule în vederea conceperii unui mediu de inginerie concurentă</i> , 2004-2005, CNCSIS AT (33000 lei/7333.33 euro)						3.67
2	PNII IDEI 108/2007 – <i>Cercetări avansate privind dezvoltarea unor structuri hibride de materiale compozite polimere cu proprietăți fizice și mecanice performante</i> , 2007-2010, CNCSIS (565500 lei/125666.7 euro)						41.89
			2.5.2 Membru în echipă	2.5.2.2 naționale	2*nr. ani participare în proiect	Total subcategorie 2.5.2	28
1	ELI-NP 2016 <i>Proiectarea sistemului mecanic a laserului de mare putere de pe platforma Măgurele</i> Laser beam delivery systems, http://www.eli-np.ro/ro/						2
2	PNII IDEI 601/2009 – <i>Cercetări privind comportarea mecanică a unor structuri compozite și nano-compozite hibride ranforsate cu particule, țesături și materiale reciclate în condiții agresive de mediu</i> , 2009-2011, CNCSIS (377 796.23 lei)						6
3	PNII IDEI 130/2007 – <i>Influența profilului caroseriei asupra vătămării pietonilor</i> (300 000 lei)						6
4	INOVARE 267/2008 – <i>Mașină multifuncțională pentru sortarea și mărunțirea deșeurilor polimere compozite și realizarea unei fracții de reciclat de înaltă calitate destinată reutilizării în procesul de fabricație</i> (79 000 lei)						8

5	CNCSIS AT 423/2003 – Contribuții la modelarea și simularea funcției vizuale în vederea protezării și ortezării, 2003-2004 (11000 lei).					4	
6	CNCSIS AT 169/2004 – Studiul teoretic și experimental al accidentelor de circulație de tipul autoturism pieton, 2004-2005 (32000 lei).					4	
3	Recunoașterea și impactul activității (A3)					369.5	
					Punctaj minim profesor – 70 puncte		
		3.1 Citări în reviste ISI și BDI	Total subcategorie 3.1			114.5	
				3.1.1 Citări în reviste ISI	10/nr. autori articol citat	Total subcategorie 3.1.1	102.918
Curtu, I. and D.L. Motoc, Theoretical - Experimental Comparisons of Multi-phase Composite Materials Elastic Coefficients Retrieved from Tensile, Compressive and Bending Tests. Influencing Factors. Materiale Plastice, 2008. 45(4): p. 366-371. http://apps.webofknowledge.com/http://revmaterialeplastice.ro/pdf/CURTU%20I.pdf					Andrei, G., et al., On wear Behaviour of a Composite Class with Micro-Nano Adding Particles and PA Matrix. Materiale Plastice, 2010. 47(3): p. 356-363.	2	
					Cerbu, C., et al., Effects of the Wood Species on the Mechanical Characteristics in Case of Some E-glass Fibers/Wood Flour/Polyester Composite Materials. Materiale Plastice, 2010. 47(1): p. 109-114	2	
					Cîrciumaru, A., et al., Electrical Conductivity of Fabric Based Filled Epoxy Composites. Materiale Plastice, 2009. 46(2): p. 211-214.	2.5	
					Iliescu, N., A. Hadăr, and S.D. Pastramă, Combined Researches for Validation of a New Finite Element for Modelling Fiber Reinforced Laminated Composite Plates. Materiale Plastice, 2009. 46(1): p. 91-94.	3.33	
					Tabacu S., Hadar A., Marinescu D., Balasoiu V., Numerical procedures for the improvement of the structural response of thermoplastic manufactured parts, Materiale Plastice, 2009. 46(2): p. 192-197.	2.5	
					Lin, J.-z. and Q.-h. Zhang, Three-dimensional Fiber Orientation of Fiber Suspensions Flowing through a Rotating Curved Expansion Duct. Fibers and Polymers, 2014. 15(2): p. 364-372.	5	

	Mitu, L.G., et al., <i>Experimental research concerning the plastic materials behavior in medical engineering</i> . Metalurgia International, 2013. 18 : p. 127-130.	2.5
	Pop, M.A., et al., <i>CTE assessment of various glass fibers reinforced polymer composite architectures</i> . Metalurgia International, 2013. 18 : p. 131-134. http://apps.webofknowledge.com	2.5
	Bera S., Udayabhanu G., Narayan R., Kumar Rout T. <i>Sol-gel process for anti-corrosion</i> , Journal of research updates in Polymer Science, 2013, vol. 2, pg. 209-231	2.5
	Stănescu M, Bolcu D., Ciuca I., Bayer M. - <i>The nonlinear mechanical behaviour of composite materials reinforced with carbon fiber weaves</i> , Materiale Plastice, 2010, 41(7).	2.5
	Keyoonwoung W., Guo Yi, Kubuchi M., Aoki S., Sakai T., <i>Corrosion behavior of three nanoclay dispersion methods of epoxy/organoclay nanocomposites</i> , International Journal of Corrosion, 2012 (7).	2
	Maries GRE, Chira D, Novac O, Sirghie C, Chambre DR, Tomescu D. <i>The Influence of the Processing Temperature by Injection and of Subsequent Pressure on Some Mechanical Properties of HDPE, PMMA, PC plus FABS, Through Methods of Determining the Flexural Properties</i> . Mater Plast. 2016;53(3):458-64.	1.666
	Mitu LG, Rosca IC, Ferrandiz Bou S. Ultra-high molecular weight polyethylene UHMWPE behaviour in injection molding processes. Metal Int. 2013;18:103-6.	3.333
	Pop, M.A., Motoc Luca D. et. al., <i>CTE assessment of various glass fibre reinforced polymer composite architectures</i> . Metalurgia International, 2013. 18 : p. 131-134. http://apps.webofknowledge.com	2
Oltean, D.I., et al., <i>Electrical properties of metallic iron particle reinforced polymeric composite materials</i> . Journal of Optoelectronics and Advanced Materials, 2008. 10 (12): p. 3328-3331., http://joam.inoe.ro , http://apps.webofknowledge.com	Edwards, M., et al., <i>Measurement of the dielectric, conductance and pyroelectric properties of MWCNT: PVDF nanocomposite thin films for application in</i>	2.5

	<i>infrared technologies. Infrared Sensors, Devices, and Applications III</i> , 2013. 8868 . October 2013	
	Edwards, M.E., et al., <i>Characterization of polymeric composite films with MWCNT and Ag nanoparticles. Infrared Sensors, Devices, and Applications II</i> , 2012. 8512 Proceedings of SPIE 8512:851203 · October 2012	2.5
	Edwards M et al. <i>Determining the electrical mechanism of the surface resistivity property of doped polyvinyl alcohol (PVA) and the pyroelectric property of polyvinylidene difluoride (PVDF) thin films</i> Proceedings of SPIE. 9609. Bellingham: Spie-Int Soc Optical Engineering; 2015.	1.333
Motoc, D.L. and I. Curtu, <i>Dynamic Mechanical Analysis of Multiphase Polymeric Composite Materials</i> . Materiale Plastice, 2009. 46 (4): p. 462-466. http://apps.webofknowledge.com http://www.revmaterialeplastice.com/pdf/MOTOC%20LUCA%204.pdf .	Circiu, I., et al., <i>Theoretical analysis and experimental researches regarding the asymmetrical fluid flow applied in aeronautics</i> . Advances in Materials Science and Engineering, 2015	2
	Ionita, M. and I.V. Branzoi, <i>Multiscale molecular modeling and laboratory investigation of polypyrrole-polyaniline composite</i> . Materiale Plastice, 2010. 47 (2): p. 184-188.	5
	Tabacu, S., et al., <i>Hexahedral finite elements mesh eneration method with applications to plastics parts</i> . Materiale Plastice, 2010. 47 (1): p. 94-102.	2
	Zhang, W., et al., <i>Temperature-dependent mechanical properties and model of magnetorheological elastomers</i> . Industrial & Engineering Chemistry Research, 2011. 50 (11): p. 6704-6712.	2.5
Vlase, S., et al., <i>Behavior of multiphase fiber-reinforced polymers under short time cyclic loading</i> . Optoelectronics and Advanced Materials-Rapid Communications, 2011. 5 (3-4): p. 419-423. http://apps.webofknowledge.com	Heitz, T., et al., <i>Advanced T700/XB3585 UD carbon fibers-reinforced composite</i> . Journal of Optoelectronics and Advanced Materials, 2014. 16 (5-6): p. 568-573.	1.666
	Modrea, A., et al., <i>Properties of advanced new materials used in automotive engineering</i> . Optoelectronics and Advanced Materials-Rapid Communications, 2013. 7 (5-6): p. 452-455.	1.666

	Niculita, C., <i>Mechanical behavior of epoxy 1050_GBX300L-1250 glass fabric laminates subjected to three-point bend tests</i> . Optoelectronics and Advanced Materials-Rapid Communications, 2012. 6 (3-4): p. 487-490.	2
	Niculita, C., <i>Mechanical behavior of carbon fibre-reinforced epoxy/plain200 prepregs subjected to three-point bend tests</i> . Optoelectronics and Advanced Materials-Rapid Communications, 2012. 6 (3-4): p. 504-507.	2
	Scutaru, M.L., et al., <i>Advanced HDPE with increased stiffness used for water supply networks</i> . Journal of Optoelectronics and Advanced Materials, 2015. 17 (3-4): p. 484-488.	2.5
	Stanciu, A., et al., <i>Mechanical behavior of CSM450 and RT800 laminates subjected to four-point bend tests</i> . Optoelectronics and Advanced Materials-Rapid Communications, 2012. 6 (3-4): p. 495-497.	2
	Teodorescu-Draghicescu, H., et al., <i>New Advanced Sandwich Composite with twill weave carbon and EPS</i> . Journal of Optoelectronics and Advanced Materials, 2013. 15 (3-4): p. 199-203.	2
	Vlase, S., et al., <i>Behavior of a new Heliopol/Stratimat300 composite laminate</i> . Optoelectronics and Advanced Materials-Rapid Communications, 2013. 7 (7-8): p. 569-572.	1.666
	Vlase, S., et al., <i>Advanced polylyte composite laminate material behavior to tensile stress on weft direction</i> . Journal of Optoelectronics and Advanced Materials, 2012. 14 (7-8): p. 658-663.	2.5
	I. Szava, S. Vlase, Botond GP, I. Munteanu, Ionescu R.. <i>Evaluation of the clean softwood components' longitudinal Young's moduli by means of overall measurements</i> . Wood Res. 2015;60(4):555-66.	2

	Modrea A, Teodorescu F, Rosu D. <i>Tensile tests on four layers CSM600 glass fibers-reinforced Poly lite 440-M888 polyester resin</i> . In: Moldovan L, editor. 8th International Conference Interdisciplinarity in Engineering, Inter-Eng 2014. Procedia Technology. 19. Amsterdam: Elsevier Science Bv; 2015. p. 284-90.	3.333
Purcarea, R., D.L. Motoc , and M.L. Scutaru, <i>Mechanical behavior of a thin nonwoven polyester mat subjected to three-point bend tests</i> . Optoelectronics and Advanced Materials-Rapid Communications, 2012. 6 (1-2): p. 214-217. http://apps.webofknowledge.com	Scutaru, M.L., et al., <i>Advanced HDPE with increased stiffness used for water supply networks</i> . Journal of Optoelectronics and Advanced Materials, 2015. 17 (3-4): p. 484-488. http://apps.webofknowledge.com	2.5
	Vlase, S., et al., <i>Behavior of a new Heliopol/Stratimat300 composite laminate</i> . Optoelectronics and Advanced Materials-Rapid Communications, 2013. 7 (7-8): p. 569-572. http://apps.webofknowledge.com	1.666
	Vlase, S., et al., <i>Advanced polylite composite laminate material behavior to tensile stress on weft direction</i> . Journal of Optoelectronics and Advanced Materials, 2012. 14 (7-8): p. 658-663.	2.5
Motoc, D.L. , J. Ivens, and N. Dadirlat, <i>Coefficient of thermal expansion evolution for cryogenic preconditioned hybrid carbon fiber/glass fiber-reinforced polymeric composite materials</i> . Journal of Thermal Analysis and Calorimetry, 2013. 112 (3): p. 1245-1251. http://apps.webofknowledge.com	Reben, M. and M. Sroda, <i>Influence of fluorine on thermal properties of lead oxyfluoride glass</i> . Journal of Thermal Analysis and Calorimetry, 2013. 113 (1): p. 77	5
	Shen, X.-J., et al., <i>Improved cryogenic interlaminar shear strength of glass fabric/epoxy composites by graphene oxide</i> . Composites Part B-Engineering, 2015. 73 : p. 126-131.	1.666
	Shi, X.-P., et al., <i>Simulation and Experiment of Damage Evolution on Composite Structure in Hydro/Thermal/Mechanical Coupled Environment</i> . Fibers and Polymers, 2014. 15 (10): p. 2175-2180.	2
	Swolfs, Y., L. Gorbatikh, and I. Verpoest, <i>Fibre hybridisation in polymer composites: A review</i> . Composites Part a-Applied Science and Manufacturing, 2014. 67 : p. 181-200.	3.333

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Sturzu A, Luca-Motoc D.	<i>Theoretical eye models comparison based on MTF evolution.</i>	Bulletin of the Transilvania University of Brasov, Ser I Eng Sci. 2011;4(53):33-8.				Petković D, Shamshirband S, Anuar NB, Md Nasir MHN, Pavlović NT, Akib S. <i>Adaptive neuro-fuzzy prediction of modulation transfer function of optical lens system.</i> <i>Infrared Physics & Technology</i> . 2014;65:54-60.	1.666
						Petković D, Shamshirband S, Pavlović NT, Anuar NB, Kiah MLM. <i>Modulation transfer function estimation of optical lens system by adaptive neuro-fuzzy methodology.</i> <i>Optics and Spectroscopy</i> . 2014;117(1):121-31.	2
						Petković D, Shamshirband S, Saboohi H, Ang TF, Anuar NB, Rahman ZA, et al. <i>Evaluation of modulation transfer function of optical lens system by support vector regression methodologies – A comparative study.</i> <i>Infrared Physics & Technology</i> . 2014;65:94-102.	1.428
				3.1.2 Citări reviste BDI	5/nr. autori articol citat	Total subcategorii 3.1.2	11.582
Luca V., Motoc Luca D. , Oltean I. D. –	<i>Multiphase composite materials elastic modulus non-destructive assesment</i> , Proceedings of the 2nd WSEAS International Conference on Engineering Mechanics, Structures and Engineering Geology EMESEG'09, 22-24 iulie 2009, Rhodes, Grecia, pp. 192-195, ISBN 978-960-474-101-4, ISSN 1790-2769					Popescu N., Zamfir S., Anghelina V., Rusănescu C., <i>Processing by P/M route and characterization of new ecological Aluminum Matrix Composites (AMC)</i> , International Journal of Mechanics 4(3), 2010.	1.250
Geaman V, Pop MA, Motoc Luca D , Radomir I.	<i>Tribological properties of thermal spray coatings.</i> European Scientific Journal. 2013.					Marilse Araque-Pabón, Gabriel Peña-Rodríguez, Fabio Vargas-Galvis <i>Desempeño mecánico y tribológico de baldosas cerámicas de arcilla roja recubiertas por proyección térmica a partir de alumina</i> , vol. 18 (35), 2015.	1.666

Motoc, D.L. , S.F. Bou, and Balart R.G., <i>Effects of fibre orientation and content on the mechanical, dynamic mechanical and thermal expansion properties of multi-layered glass/carbon fibre-reinforced polymer composites</i> . Journal of Composite Materials, 2015. 49 (10): p. 1211-1221. http://apps.webofknowledge.com , http://jcm.sagepub.com/content/early/2014/04/22/0021998314532151.abstract					Circiu I., Luculescu D, Prisacariu V, Mihai E, et al. <i>Theoretical Analysis and Experimental Researches regarding the Asymmetrical Fluid Flow Applied in Aeronautics</i> . Advances in Materials Science and Engineering. 2015;2015:9.	1	
Oltean, D.I., et al., <i>Electrical properties of metallic iron particle reinforced polymeric composite materials</i> . Journal of Optoelectronics and Advanced Materials, 2008. 10 (12): p. 3328-3331., http://joam.inoe.ro , http://apps.webofknowledge.com					P. Guggilla, M. Edwards, <i>Dielectric, Conductance and Pyroelectric Characterization of MWCNT:PVDF Nanocomposite Thin Films for Multiple Device Applications</i> , International Journal of Composite Materials, Vol. 6 No. 5, 2016, pp. 145-151. doi: 10.5923/j.cmaterals.20160605.01.	2.5	
Teodorescu H., Vlase S., Motoc Luca D. , Chiru A. <i>Thermal response of a thin sandwich composite structure</i> , Engineering Letters, 18(3), 2010.					Száva I, Modrea A, Gálfi B-P, Munteanu AR. Glass Fabric-reinforced Polyte 440-M888 Composite Laminated Subjected to Tensile Load on Warp Direction. Procedia Technology. 2015;19:254-9.	1.25	
					Modrea A, Gheorghe V, Sandu V, Teodorescu-Draghicescu H, Mihalica M, Scutaru ML. Study of a New Composite Material Rt800 Reinforced with Polyte 440-M888 in Endurance Conditions. Procedia Technology. 2016;22:182-6.	1	
					Galfi B-P, Ionescu RD, Munteanu R, Secara E. RT500/RT800 Sandwich Composite Laminate with COREMAT Subjected to Bending Tests. Procedia Technology. 2015;19:239-46	1.25	
					Modrea A, Teodorescu F, Rosu D. Tensile Tests on Four Layers CSM600 Glass Fibers-reinforced Polylite 440-M888 Polyester Resin. Procedia Technology. 2015;19:284-90.	1.666	
		3.2 Prezentări invitate în plenul unor manifestări științifice naționale și internaționale și profesor invitat			Total subcategorie 3.2	40	
				3.2.1 internaționale	20	Total subcategorie 3.2.1	40

1	Aprilie 17-25, 2012, Universitatea din Valencia, Computer Aided Design and Manufacturing Master degree class - <i>Challenging the classical path: new approaches in polymer based composites modelling and simulation</i>					20	
2	30 Septembrie 2013, PYCO Fraunhofer Research Institution for Polymeric Materials and Composites and Brandenburg Technical University at Cottbus - <i>Polymer reinforced composites: an engineering perspective</i>					20	
		3.3 Membru în comitete științifice, organizator de manifestări științifice/Recenzent pentru reviste și manifestări naționale și internaționale indexate ISI			Total subcategorie 3.3	136	
				3.3.1 ISI	10	Textile Research Journal (TRJ), Sage Recenzor 2016 (TRJ-16-0293, TRJ-16-0419)	20
						Journal of Thermal Analysis and Calorimetry Recenzor 2015 (JTAC-D-15-01716)	10
						Journal of Polymer Engineering Recenzor 2016 (POLYENG.2016.0362)	10
						Advanced Materials Research (ISI Proceedings) Recenzor 2015 (978-0-0003-314-7_510, 978-0-0003-314-7_570, 978-0-0003-314-7_610, 978-0-0003-314-7_660)	40
						Conferinta DAAAM 2009, 25-28 nov. 2009, Viena, Austria, Member in DAAAM Reviewing Committee și în DAAAM International Program Committee.	20
						Conferinta DAAAM 2010, 20-23 nov. 2010, Zadar, Croația, Member in DAAAM Reviewing Committee și în DAAAM International Program Committee.	20
				3.3.2 BDI	8	Conferința Internațională COMAT 2016, Universitatea Transilvania din Brașov, membru în comitetul de organizare	8
						Conferința Internațională BRAMAT 2015, Universitatea Transilvania din Brașov, membru în comitetul de organizare	8
		3.4 Experiența de management, analiză și evaluare în cercetare și/sau învățământ		3.4.2 Membru	2*ani desfășurare	Total subcategorie 3.4.2	38

1	Membru comisii licență, disertație (după ultima promovare, 2003-2016)						28
2	Evaluator proiecte de cercetare competiții naționale, comisia Inginerie, CNC SIS, 2009						2
3	Evaluator extern, teză doctorat, Martie 2011, Universitatea Politehnică din Valencia – <i>Using natural based plasticizers to obtain flexible PVC low environmental impact</i> , doctorand – Octavio Angle Fenollar Gimeno, Coordinatori: Juan Lopez Martin, Rafael Antonio Balart Gimeno						2
4	Evaluator extern, teză doctorat, Martie 2012, Universitatea Politehnică din Valencia – <i>Structural optimization of topological defined morphological structures using genetic algorithms</i> , doctorand - Samuel Sánchez Caballero , Coordinatori: Vicente Jesus Seguí Llinares, Jose Enrique Crespo Amorós y Miguel Ángel Sellés Cantó						2
5	Evaluator ARACIS, Universitatea Politehnică din București, 2016						2
6	Evaluator ARACIS, Universitatea din Târgu Jiu, 2016						2
	Criterii opționale						21
	Total subcategorii 3.5 și 3.6						
		3.5 Premii	3.5.4 premii naționale în domeniu		5	Premiul pentru cea mai bună lucrare publicată în 2008, Revista de Chimie și revista Materiale Plastice	5
		3.6 Membru în academii, organizații, asociații profesionale de prestigiu, etc.	3.6.4 Asociații profesionale	3.6.4.1 internaționale	5	American Society of Mechanical Engineering (ASME), New York, USA (din 2012)	5
				3.6.4.2 naționale	3	Asociația Română de Biomateriale	3
						Asociația Română de Mecatronică	3
			3.6.5 Organizații în domeniul educației și cercetării	3.6.5.2 Membru	5	ARACIS, Comisia Științe Inginerești II, C11, subcomisia Științe Inginerești aplicate http://pfe.aracis.ro/inscriere/registru/lista_c_d/13/69/	5

Total punctaje cumulate/criterii minime

Nr. crt.	Domeniul de activitate/Indicatori	Punctaj minimal	Punctaj realizat
1	Activitatea didactică/profesională (A1)	130	141.5
2	Activitatea de cercetare (A2)	230	534.625
3	Recunoașterea impactului activității (A3)	70	369.5
TOTAL		430	1045.375