

FIȘA PENTRU VERIFICAREA STANDARDELOR MINIMALE

Domeniul fundamental: *"Științe Inginerești"*

Comisia de specialitate: *"Inginerie mecanică, mecatronică și robotică"*

conf.dr.ing. Butnariu Silviu Luis

Nr. crt.	Criterii de evaluare	Minim de îndeplinit (puncte)	Contribuție principală	Contribuție complementară	Valori calculate
1.	Criteriul CDI <i>Activitate de cercetare științifică, dezvoltare tehnologică și inovare</i>	Minim 10 puncte, din care minim 6 puncte din criteriul CDI-ART (Articole științifice publicate în reviste de specialitate cotate ISI sau în reviste/volume indexate ISI sau BDI)	23,16	45,760	68,92
2.	Criteriul DID <i>Activitate didactică și profesională</i>	Minim 10 puncte, din care minim 6 puncte din DID- MSC (Manuale-suport curs, format tipărit sau format electronic)	8,68	13,00	21,680
3.	Criteriul RIA <i>Recunoașterea și impactul activității</i>	Minim 10 puncte Contribuție principală (minim 60%) în calitate de director grant/proiect	21,30	28,534	49,834
TOTAL		30 puncte			140,434

Criteriul CDI - Activitate de cercetare științifică, dezvoltare tehnologică și inovare

Indicatori CDI	Descriere	Punctaj	Observații	Punctaj
CDI-ART (min. 60% din punctaj standard minimal)	Articole științifice publicate în reviste de specialitate cotate ISI, sau în reviste/volume indexate ISI sau BDI	1 articol = FI + ΣFI_al_citarilor 1 articol = $FI_{articol}^* + \sum FI_{citare}^*$ $FI^* \equiv 0.1 + \text{Factor Impact}$	FI = factorul de impact ISI, FI = 0.1 pentru articole BDI respectiv FI=0 pentru alte tipuri de publicatii	23,16
			Din numărul de citări se exclud autocitările	
CDI-BRV	Brevete de invenție	1 brevet de invenție internațional = 3 puncte 1 brevet de invenție național = 1 punct		0
				1
CDI-MON	Monografii de specialitate sau capitole în monografii de specialitate	1 punct = 10 pagini contribuție monografie în editură de prestigiu din străinătate* 1 punct = 50 pagini contribuție editură națională	Springer	8,80
			Monografiile naționale trebuie să fie incluse în depozitul legal al Bibliotecii Naționale	35,96
Standard minimal profesor universitar / abilitare		10 puncte		68,92

Criteriul CDI-ART

		Articol	FI articol	FI* articol	$\sum FI^*$ citare	Punctaj articol
<u>1</u>		S. Butnariu , F. Gîrbacia, A. Orman, Methodology for 3D reconstruction of objects for teaching virtual restoration, International Journal of Computer Science Research and Application, ISSN/EISSN: 20129564, 20129572 Year: 2013 Volume: 03 Issue: 01 Pages: 16-21, Publisher: INREWI Publications, http://www.ijcsra.org/current-issue/v3i1 , Ebsco, DOAJ, Google Scholar	0	0,1	2,635	2,735
	<u>Citare 1.1</u>	Chetan Katoch, Close Range Photogrammetric Applications for 3-D realistic reconstruction of objects using still images, Thesis of Master of Science in Geo-information Science and Earth Observation, University of Twente, Enschede, Olanda http://scholar.google.ro/scholar?cluster=8734817111988767246&hl=ro&as_sdt=0,5&sciodt=0,5 Google Scholar	0	0,1		
	<u>Citare 1.2</u>	Cs. Antonya, Force Feedback in String Based Haptic Systems, 2013 International Conference on Virtual and Augmented Reality in Education, Procedia Computer Science, doi:10.1016/j.procs.2013.11.011 http://www.sciencedirect.com/science/article/pii/S1877050913012167 Elsevier, ScienceDirect	0	0,1		
	<u>Citare 1.3</u>	Gede, Matyas ; Meszaros, Janos , Digital Archiving and On-line Publishing of Old Relief Models, CARTOGRAPHIC JOURNAL Volume: 50 Issue: 3 Pages: 293-299 DOI: 10.1179/1743277413Y.0000000064 , aug. 2013 http://www.maneyonline.com/doi/abs/10.1179/1743277413Y.0000000064 , Web of science	0,424	0,524		

<u>Citare 1.4</u>	Scott, Jonathan, Richard Laing, and Graeme Hogg, <i>Built Heritage Digitization: Opportunities Afforded by Emerging Cloud Based Applications</i> , <i>Cloud Computing Technology and Science (CloudCom)</i> , 2013 IEEE 5th International Conference on. Vol. 2. IEEE, 2-5 dec. 2013, p. 88-93, doi 10.1109/CloudCom.2013.109 http://ieeexplore.ieee.org/xpl/abstractReferences.jsp?arnumber=6735401 , IEEE, Google Scholar	0	0,1		
<u>Citare 1.5</u>	Cavas-Martínez, F.; Pérez-Sánchez, C.A.; Adrián-Sáez, J.; Cañavate, F.J.F.; Nieto, J.; Fernández-Pacheco, D.G., <i>Use of digital images for three-dimensional reconstruction of mechanical components</i> , 18th International Congress on Project Management and Engineering Alcañiz, 16-18th July 2014 http://scholar.google.ro/scholar?oi=bibs&hl=ro&cites=11393825234894159484 , Google Scholar	0	0,1		
<u>Citare 1.6</u>	Marcello Carrozzino, Chiara Evangelista,, Caterina Bay Franco Tecchia, Dario Matteoni, Massimo Bergamasco, <i>An immersive information system for the communication of therestoration of Simone Martini's Polyptich</i> , <i>Journal of Cultural Heritage</i> , 2014, Available online 29 December 2014 http://www.sciencedirect.com/science/article/pii/S1296207414001708 , Web of science	1,111	1,211		
<u>Citare 1.7</u>	Camba Jorge D., Contero Manuel , <i>From reality to augmented reality: Rapid strategies for developing marker-based AR content using image capturing and authoring tools</i> , <i>Frontiers in Education Conference (FIE)</i> , 2015. 32614 2015. IEEE, 21-24 Oct. 2015, Camino Real El Paso, El Paso, TX, USA http://ieeexplore.ieee.org/xpl/abstractAuthors.jsp?arnumber=7344162 , DOI: 10.1109/FIE.2015.7344162 , Print ISBN: 978-1-4799-8454-1, IEEE	0	0,1		
<u>Citare 1.8</u>	Mila Koeva, <i>3D modelling in architectural photogrammetry</i> , https://www.researchgate.net/publication/290181410_3D_modelling_in_architectural_photogrammetry DOI: 10.13140/RG.2.1.4975.1128, PhD Thesis, Google Scholar	0	0,1		
<u>Citare 1.9</u>	Sussan Leigh House, <i>Analysis of the application of digital photogrammetry in historic building documentation</i> , Thesis submitted to the graduate school in partial fulfillment of the requirements for the degree master of science historic preservation, Ball State University, Muncie, Indiana http://s3.amazonaws.com/academia.edu.documents/46258089/Analysis_of_the_Application_of_Digital_Photogrammetry_in_Historic_Building_Documentation.pdf?AWSAccessKeyId=AKIAJ56TQJRTWSMTNPEA&Expires=1465720077&Signature=pmsuu4B4gNGJijMf%2FllaLYbzxew%3D&response-content-disposition=inline%3B%20filename%3DANALYSIS_OF_THE_APPLICATION_OF_DIGITAL_P.pdf Google Scholar	0	0,1		
Citare 1.10	Jonathan L. Carrivick, Mark William Smith, Duncan J. Quincey, <i>Structure from Motion in the Geosciences</i> , Article · July 2016; DOI: 10.1002/9781118895818.ch4;, Publisher: Wiley-Blackwell, pp.97-123 https://www.researchgate.net/publication/305420465_Structure_from_Motion_in_the_Geosciences	0	0,1		
Citare 1.11	Jorge D. Camba ; Alejandro Bonnet De Leon ; Jorge de la Torre ; José Luis Saorín ; Manuel Contero, <i>Application of low-cost 3D scanning technologies to the development of</i>	0	0,1		

		educational augmented reality content, <i>Frontiers in Education Conference (FIE)</i> , 2016 IEEE, DOI: 10.1109/FIE.2016.7757673, ISBN: 978-1-5090-1790-4 http://ieeexplore.ieee.org/abstract/document/7757673/references				
2	S.Butnariu, F.Gîrbacia, <i>The command of a virtual industrial robot using a dedicated haptic interface</i> , ModTech 2013, publicat in Advanced Materials Research Vol. 837 (2014) pp 543-548, © (2014) Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/AMR.837.543 ISSN: 1662-8985 Ttp.net, Scopus, CPX, CSA, ISI, IEE http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=UA&search_mode=GeneralSearch&qid=3&SID=Z11niTfVdVj5t5QoJyC&page=1&doc=3	0	0,1	0,624	0,724	
	Citare 2.1 R. Boboc, A. Dumitru, C. Antonya , Point-and-Command Paradigm for Interaction with Assistive Robots, International Journal of Advanced Robotic Systems, Int J Adv Robot Syst, 2015, 12:75 doi: 10.5772/60582 http://cdn.intechopen.com/pdfs-wm/48590.pdf Web of science	0,524	0,624			
3	S.Butnariu, F.Gîrbacia , <i>High Quality 3D Restoration of Photographed Structures using V.R. Technologies</i> , IMM 2013 Hong Kong, publicat in Applied Mechanics and Materials Vol. 464 (2014) pp 391-398 © (2014) Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/AMM.464.391 Ttp.net, Scopus, CPX, CSA, ISI, IEE http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=UA&search_mode=GeneralSearch&qid=3&SID=Z11niTfVdVj5t5QoJyC&page=1&doc=4	0	0,1	0	0,1	
4	F. Gîrbacia; S. Butnariu; Orman, A. Petre, C. Postelnicu, Virtual restoration of deteriorated religious heritage objects using augmented reality technologies , European Journal of Science and Theology Volume: 9 Issue: 2 Pages: 223-231 http://www.ejst.tuiasi.ro/Files/37/23_Girbaciaetal.pdf Web of science, Scopus	0,389	0,489	4,086	4,675	
	Citare 4.1 I. Rubino, J. Xhembulla, A. Martina, A. Bottino, G. Malnati, MusA: Using Indoor Positioning and Navigation to Enhance Cultural Experiences in a Museum, Sensors 2013, 13, 17445-17471; doi:10.3390/s131217445 http://www.mdpi.com/1424-8220/13/12/17445 Web of science, SRI=1,4	1,953	2,053			
	Citare 4.2 A.Martina, <i>Virtual Heritage: new technologies for edutainment</i> , PhD Thesis, Dottorato in Ingegneria Informatica e dei Sistemi, XXV ciclo, Politecnico di Torino http://porto.polito.it/2541502/ Google Scholar	0	0,1			
	Citare 4.3 Emmanuel Durand, Frederic Merienne, Christian Pere, Patrick Callet, <i>Ray-on, an On-Site Photometric Augmented Reality Device</i> , Journal on Computing and Cultural Heritage (JOCCH), doi>10.1145/2629485 http://dl.acm.org/citation.cfm?id=2629485&prelayout=tabs ACM, Web of science	0	0,1			
	Citare 4.4 Nadege Zarrouati-Vissiere , <i>Augmented reality: the fusion of vision and navigation.</i> , Ecole Nationale Supérieure des Mines de Paris, 2013. English. <NNT : 2013ENMP0061>.<pastel-00961962> PhD Thesis https://pastel.archives-ouvertes.fr/pastel-00961962 Google Scholar	0	0,1			
	Citare 4.5 Paola Di Giuseppantonio Di Franco, Justin L. Matthews,	1,533	1,633			

		<p>Teenie Matlock , <i>Framing the past: How virtual experience affects bodily description of artefacts</i>, <i>Journal of Cultural Heritage</i>, Volume 17, January–February 2016, Pages 179–187, DOI: 10.1016/j.culher.2015.04.006 http://www.sciencedirect.com/science/article/pii/S1296207415000850 Elsevier</p>				
	Citare 4.6	<p>Inagaki, Takuya; Motoyama, Kiyofumi, <i>Onsite experience of past exhibitions using augmented reality technology and display of sculpture</i>, <i>SGEM2014 CONFERENCE ON ARTS, PERFORMING ARTS, ARCHITECTURE & DESIGN</i>, Vol. 1, No. SGEM2014 Conference Proceedings, ISBN 978-619-7105-30-08/ ISSN 2367-5659, September 1-9, 2014, Vol. 1, 195-202 pp. doi:10.5593/sgemsocial2014/B41/S13.022 http://sgemsocial.org/ssgemlib/spip.php?article905 Web of Knowledge</p>	0	0,1		
	Citare 4.7	<p>Bhattacharya, Bhaskar , <i>Automatic generation of augmented reality guided assembly instructions using expert demonstration</i>, Iowa State University, ProQuest Dissertations Publishing, 2016. http://search.proquest.com/openview/cd18bddd4c0af778a83e01e7a670bb71/1?pq-origsite=gscholar&cbl=18750&diss=y</p>	0	0,1		
5		<p>S. Butnariu, F.Gîrbacia, <i>Methodology for the identification of needles trajectories in robotic brachytherapy procedure using VR technology</i>, Optirob 2013, publicat in Applied Mechanics and Materials Vol. 332 (2013) pp 503-508, © (2013) Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/ AMM.332.503 Web of Science, Scopus, Ttp.net, CPX, CSA, ISI, IEE http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=UA&search_mode=GeneralSearch&qid=3&SID=Z11niTfVdVj5t5QoJyC&page=1&doc=2</p>	0	0,1	3,43	3,53
	Citare 5.1	<p>Galdau, B.; Plitea, N.; Vaida, C.; Covaciu, F, <i>Design and control system of a parallel robot for brachytherapy</i>, IEEE International Conference on Automation, Quality and Testing, Robotics, 22-24 May 2014, Cluj Napoca, doi 10.1109/AQTR.2014.6857873 http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6857873&url=http%3A%2F%2Fieeexplore.ieee.org%2Fexpls%2Fabs_all.jsp%3Farnumber%3D6857873</p>	0	0.1		
	Citare 5.2	<p>Shaoli Liu, Zeyang Xia, Jianhua Liu, Jing Xu, He Ren, Tong Lu, Xiangdong Yang, <i>Automatic Multiple-Needle Surgical Planning of Robotic-Assisted Microwave Coagulation in Large Liver Tumor Therapy</i> , Automatic Multiple-Needle Surgical Planning of Robotic-Assisted Microwave Coagulation in Large Liver Tumor Therapy. PLoS ONE 11(3): e0149482. doi:10.1371/journal.pone.0149482 http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0149482 Web of science</p>	3,23	3,33		
6		<p>S. Butnariu, F.Gîrbacia, <i>Development of a natural user interface for intuitive presentations in educational process</i>, Proceedings of 8th International Scientific Conference eLearning and Software for Education, 2012 https://www.cceol.com/search/article-detail?id=203546 Web of science, ProQuest</p>	0	0,1	0,7	0,8
	Citare 6.1	<p>Antonya, Cs., <i>Accuracy of Gaze Point Estimation in Immersive 3D Interaction Interface Based on Eye Tracking</i> , 12th International Conference on Control, Automation,</p>	0	0,1		

		Robotics and Vision (ICARCV) Location: Guangzhou, Peoples R. China, Dec 05-07, 2012 http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6485315&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D6485315 Web of science				
	<u>Citare 6.2</u>	Jinuk Kim, Sehoon Kim, Kwangjin Hong, David Jean, Keechul Jung, Presentation Interface Based on Gesture and Voice Recognition, Vol. Multimedia and Ubiquitous Engineering, DOI 10.1007/978-3-642-54900-7_11, Print ISBN 978-3-642-54899-4, Online ISBN 978-3-642-54900-7, Series Title Lecture Notes in Electrical Engineering http://link.springer.com/chapter/10.1007%2F978-3-642-54900-7_11 Springer	0	0,1		
	<u>Citare 6.3</u>	Minjae Park, Joohee Kang, Seongwon Park and Kwangsu Cho, A Natural User Interface for E-learning Learners: Focused on the Automatic Speed Control of Multimedia Materials, International Journal of Multimedia and Ubiquitous Engineering; Vol.9, No.7 (2014), pp.347-358 http://dx.doi.org/10.14257/ijmue.2014.9.7.29 http://connection.ebscohost.com/c/articles/97818463/natural-user-interface-e-learning-learners-focused-automatic-speed-control-multimedia-materials Open Access, Ebsco	0	0,1		
	<u>Citare 6.4</u>	Douglas dos Santos Ferreira, Interacao Natural por Meio de Gestos para Apoio a Docentes no Processo de Ensino em Saude , Universidade Federal da Paraiba, Dissertacao de Mestrado, ed. Joao Pessoa 2014 http://sistemas.ufpb.br/sigaa/public/programa/noticias_desc.jsf?lc=lc=lc=lc=en_US&id=1879&noticia=20504039 Google Scholar	0	0,1		
	<u>Citare 6.5</u>	Warda Ikram, Yoonji Jeong, Byeonggwon Lee, Kyhyun Um, Kyungeun Cho, Smart Virtual Lab Using Hand Gestures, Advanced Multimedia and Ubiquitous Engineering Lecture Notes in Electrical Engineering Volume 352, 2015, pp 165-170 http://link.springer.com/chapter/10.1007/978-3-662-47487-7_25 Springer	0	0,1		
	<u>Citare 6.6</u>	Wardhany, Vivien Arief; Kurnia, Muhammad Hendrick; Sukaridhoto, Sri trusta; Sudarsono, Amang; Pramadihanto, Dadet , Smart presentation system using hand gestures and Indonesian speech command, Electronics Symposium (IES), 2015 International, Surabaya, Indonesia, 29-30 Sept. 2015, Pages: 68 - 72, DOI: 10.1109/ELECSYM.2015.7380816 IEEE Conference Publications, Print ISBN: 978-1-4673-9344-7 http://ieeexplore.ieee.org.am.enformation.ro/xpl/articleDetails.jsp?arnumber=7380816&newsearch=true&queryText=Smart%20presentation%20system%20using%20hand%20gestures%20and%20Indonesian%20speech%20command IEEE	0	0,1		
	<u>Citare 6.7</u>	Hazem Kathem Qattous: TeachMe, a Programming by Example Customizable Gesture Recognition System, International Journal of Computer Science and Network Security, VOL.16 No.12, December 2016,	0	0,1		

		http://search.ijcsns.org/07_book/html/201612/201612009.htm http://paper.ijcsns.org/07_book/201612/20161209.pdf				
7	F. Girbacia, S. Butnariu , <i>An innovative approach to teaching mechanism using augmented reality technologies</i> , Proceedings of 8 th International Scientific Conference eLearning and Software for Education, 2012 Web of science, ProQuest http://search.proquest.com/openview/4c901a30be32cdc38eff017a82292ad5/1?pq-origsite=gscholar	0	0,1	0,2	0,3	
	<u>Citare 7.1</u> Cs. Antonya, <i>Force Feedback in String Based Haptic Systems</i> , 2013 International Conference on Virtual and Augmented Reality in Education, Procedia Computer Science http://www.sciencedirect.com/science/article/pii/S1877050913012167 Elsevier, ScienceDirect	0	0,1			
	<u>Citare 7.2</u> Cs. Antonya, <i>Hybrid Dynamic Model for Haptic Systems with Planar Mechanisms</i> , The 6th IEEE International Conference on Robotics, Automation and Mechatronics (RAM) http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6758579&url=http%3A%2F%2Fieeexplore.ieee.org%2Fexpls%2Fabs_all.jsp%3Farnumber%3D6758579 IEEE Library, ISI, EI Compendex	0	0,1			
8	T. Butnaru, F. Girbacia, S. Butnariu , A. Beraru, D. Talaba, <i>An approach for teaching mechanisms using haptic systems</i> , Proceedings of ICVL 2011 (Print ISSN 1844 - 8933), The 6th International Conference on Virtual Learning , Web of science, WikiCFP, Google http://www.icvl.eu/2011/disc/icvl/documente/pdf/work/ICVL_Workshop_paper02.pdf http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=Z11niTfVdVj5t5QoJyC&page=1&doc=1	0	0,1	0,6	0,7	
	<u>Citare 8.1</u> Dorin-Mircea Popovici, Felix G. Hamza-Lup, <i>Haptic feedback systems in education</i> , The 9 th International Scientific Conference eLearning and software for Education Bucharest, April 25-26, 2013 http://cerva.ro/publication/haptic-feedback-systems-in-education/ Web of science, Google Scholar	0	0,1			
	<u>Citare 8.2</u> E. Butilă, Gh. Mogan, <i>Learning to design mechanical transmission with gears using web interface</i> , 3rd World Conference on Information Technology (WCIT-2012) Vol 03 (2013) 1093-1098, 14-16 November 2012, University of Barcelona, Spain. http://scholar.google.ro/citations?view_op=view_citation&hl=en&user=EdG6rW8AAAAJ&citation_for_view=EdG6rW8AAAAJ:eq2jaN3J8jMC Open Journal Systems, Google Scholar	0	0,1			
	<u>Citare 8.3</u> Felix G. Hamza-Lup, D.M. Popovici, C. Bogdan, <i>Haptic feedback systems in medical education</i> , Journal of Advanced Distributed Learning Technology, vol.1, nr.2 http://jadlet.com/index.php/jadlet/article/view/4 Open Journal Systems, Google Scholar	0	0,1			
	<u>Citare 8.4</u> Majid H Koul, Subir K Saha, M Manivannan , <i>Teaching Mechanism Dynamics using a Haptic Device</i> , Proceedings of the 1st International and 16th National Conference on Machines and Mechanisms (iNaCoMM2013), IIT Roorkee, India, Dec 18-20 2013 http://www.academia.edu/5703362/	0	0,1			

		<i>Teaching Mechanism Dynamics using a Haptic</i> Google Scholar				
	<u>Citare 8.5</u>	James Jose, Nagarajan Akshay, Rao R. Bhavani, <i>Learning Elementary Physics through Haptic Simulations</i> , ICONIAAC '14 Proceedings of the 2014 International Conference on Interdisciplinary Advances in Applied Computing Article No. 27, ACM New York, ISBN: 978-1-4503-2908-8 doi>10.1145/2660859.2660937 http://dl.acm.org/citation.cfm?id=2660937 ACM	0	0,1		
	Citare 8.6	D.M. Popovici, <i>Virtual environments for education, training and cultural heritage</i> , Teza de abilitare, http://www.unitbv.ro/Portals/31/Abilitare/Teze/Teza/teza%20abilitare%20ENG%20Popovici%20DM%20rev%202.pdf Google Scholar	0	0,1		
<u>9</u>		S. Butnariu , <i>Transmission error in synchronous belt drives</i> , Balkan Journal of Mechanical Transmissions, Volume 1 (2011), Issue 1, pp. 18-21, ISSN 2069-5497 , Google Scholar http://www.bjmt.pub.ro/1106.pdf	0	0,1	0	0,1
<u>10</u>		C. Antonya, F. Barbuceanu, Z. Rusak, D. Talaba, S. Butnariu , <i>Obstacle avoidance in simulated environment using eye tracking technologies</i> , ASME International Design Engineering TECHNical Conferences and Computers and Information in ENGINEering Conference, Proceedings, vol 2, pts A and B Pages: 1581-1590 http://proceedings.asmedigitalcollection.asme.org/proceeding.aspx?articleid=1649398 Web of science, Scopus	0	0,1	0	0,2
	10.1	Bunz, E., Chadalavada, R T., Andreasson, H., Krug, R., Schindler, M. et al. (2016), <i>Spatial Augmented Reality and Eye Tracking for Evaluating Human Robot Interaction</i> . In: <i>Proceedings of RO-MAN 2016 Workshop: Workshop on Communicating Intentions in Human-Robot Interaction</i> http://www.diva-portal.org/smash/record.jsf?pid=diva2%3A1071024&dswid=-9127	0	0,1		
<u>12</u>		S. Butnariu, D. Talaba, <i>Advanced Approaches Using VR Simulations for Teaching Mechanisms</i> , Eucomes 2010, Mechanisms and Machine Science, vol 5, New Trends in Mechanism Science, 2010, Declarat la CDI-MON , Springer http://link.springer.com/chapter/10.1007/978-90-481-9689-0_60	0	0	0,2	0,2
	<u>Citare 12.1</u>	Cs. Antonya, <i>Hybrid Dynamic Model for Haptic Systems with Planar Mechanisms</i> , The 6th IEEE International Conference on Robotics, Automation and Mechatronics (RAM) IEEE Library, ISI, EI Compendex http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6758579&url=http%3A%2F%2Fieeexplore.ieee.org%2Fexpls%2Fabs_all.jsp%3Farnumber%3D6758579	0	0,1		
	<u>Citare 12.2</u>	E. Butilă, Gh. Mogan, <i>Learning to design mechanical transmission with gears using web interface</i> , 3 rd World Conference on Information Technology (WCIT-2012) Vol 03 (2013) 1093-1098, 14-16 November 2012, University of Barcelon, Spain. http://scholar.google.ro/citations?view_op=view_citation&hl=en&user=EdG6rW8AAAAJ&citation_for_view=EdG6rW8AAAAJ:eq2jaN3J8jMC Open Journal Systems, Google Scholar	0	0,1		
<u>13</u>		S. Butnariu , <i>Aspects of developement of planetary mechanism using synchronous belts drive</i> , Annals of DAAAM for 2008 & Proceedings	0	0,1	0	0,1

	of the 19th International DAAAM Symposium Book Series: Annals of DAAAM and Proceedings Pages: 181-182 Published: 2008 Web of science https://www.researchgate.net/publication/259656446_Aspects_of_development_of_planetary_mechanism_using_synchronous_belts_drive				
14	S. Butnariu , D. Talaba, <i>Virtual prototyping in design of synchronous belts drives</i> , Int. J. of Design Engineering, 2008 Vol.1, No.4, pp.380 - 395 , ERA, Gale, CSA, Inspec, Scirus, Google Scholar http://www.inderscienceonline.com/doi/abs/10.1504/IJDE.2008.024788	0	0,1	0	0,1
15	S. Butnariu , <i>Synchronous Belts Fracture Analysis using MBS Method</i> , Buletinul Universității de Petrol Gaze, Ploiești, seria tehnică, vol. LXIII, nr.1 / 2011 , EBSCO, CNCSIS B+, Google Scholar http://web.a.ebscohost.com/abstract?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=12248495&AN=74295872&h=v2%2fBQ7eliOTygyIPvtA9dvZKmWQJzqgHNwr8renLydBORel3%2fVQOQ1bvE5Au5i7ozbUY0%2bXyC6WfDuXR2yFK0g%3d%3d&crl=c&resultNs=AdminWebAuth&resultLocal=ErrCrlNotAuth&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d12248495%26AN%3d74295872	0	0,1	0	0,1
16	Gh. Mogan, S. Butnariu , <i>Analiza cu elemente finite. Aplicatii in CATIA</i> , Ed. Universității Transilvania. https://www.researchgate.net/publication/260035274_Mogan_Gh_Butnariu_S_Analiza_cu_elemente_finite_Aplicatii_in_CATIA_Ed_Universitatii_Transilvania_ISBN_978-973-598-159-4_2007 Declarat la criteriul DID.	0	0	1,404	1,404
Citare 16.1	<i>M.T. Lateș, R.S. Lateș, A. Jula, M. State, Finite Element Analysis of the whisper h80 wind turbine's tower, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Volume X (XX), 2011, NR2, ISBN 1583-0691 , CNCSIS B+, Google Scholar</i> http://imtuoradea.ro/auo.fmte/article.php?v1=2011-2	0	0,1		
Citare 16.2	<i>Moldovean, Gh., Butuc, B., Velicu, R, Shafts design of a gear based azimuthal tracked photovoltaic platform , ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL Volume: 10 Issue: 9 Pages: 1291-1298 Published: SEP'11 , Web of science, Scopus</i> http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol10/no9/14_374_Moldovean_11.pdf	1,004	1,104		
Citare 16.3	<i>Urdea, M., Static analysis for hardy coupling, Journal of industrial design and engineering graphics, volume 9, issue 1, july 2014 , CNCSIS B+, Google Scholar</i> http://www.sorging.ro/ro/revista/volume-9-issue-no-1-2014/static-analysis-for-hardy-coupling	0	0,1		
Citare 16.4	<i>Stroe, I., Loading Cell for the Measurement of Forces and Torques in the Prehensile Joint of Industrial Robots, Paripex - Indian Journal of Research, Vol.4., Issue 12, December 2015, ISSN - 2250-1991</i> http://worldwidejournals.in/ojs/index.php/pijr/article/view/3459 Google Scholar, DJOF, CiteFactor	0	0,1		
17.	M. Urdea, S. Butnariu , <i>Consideration About Elastic Couplings Modeled in CATIA</i> , Innovative Manufacturing Engineering Conference, May 29-30, 2014, Chișinău-Republic of MOLDOVA Web of science, Scopus, Ttp.net, http://www.scientific.net/AMM.657.760 http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=N2MZS1b4uAWC1efeCfM&page=1&doc=1	0	0,1	0	0,1

18.	C. Antonya, S. Butnariu , C. Pozna, <i>Parameter computation of the hand model in virtual grasping</i> , 5 th IEEE Conference on Cognitive Infocommunications, CogInfo 2014 , IEEE http://ieeexplore.ieee.org/document/7020440/?reload=true&arnumber=7020440	0	0,1	0	0,1
19.	S. Butnariu , F. Gîrbacia, A. B. Şupială, <i>An approach to teaching Machine Tools using Virtual Reality technologies</i> , Proceedings of ICVL 2014 (ISSN 1844-8933, ISI Proceedings) - the 9th International Conference on Virtual Learning, Models & methodologies, technologies, software solutions www.icvl.eu/ https://www.scribd.com/doc/243333879/Proceedings-of-ICVL-2014-ISSN-1844-8933	0	0,1	0	0,1
20.	F. Gîrbacia, B. Gherman, S. Butnariu , N. Plitea, D. Talabă and D. Pîslă, <i>Virtual Planning of Needle Trajectories using a Haptic Interface for a Brachytherapy Parallel Robot: an evaluation study</i> , 22th International Conference on Robotics, ROBOTICS'2014 (October 23th-25th, 2014, Bucharest, Romania), Applied Mechanics and Materials (Volume 762), DOI:10.4028/www.scientific.net/AMM.762.155 http://www.scientific.net/AMM.762.155 ; ttp.net,	0	0,1	0	0,1
21.	F. Gîrbacia, S. Butnariu , D. Voinea, Tolea B., Gîrbacia T., Pîslă D.: <i>A Virtual Reality System for Pre-Planning of Robotic-Assisted Prostate Biopsy</i> , Applied Mechanics and Materials Vol 772 (2015) pp 585-590, © (2015) Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMM.772.585 http://www.ttp.net/978-3-03835-502-1/11.html , ISI, Optirob 2015	0	0,1	0	0,1
22.	D. Voinea, S. Butnariu , <i>Design of a Scoliosis Monitoring System using Inertial Sensors</i> , Applied Mechanics and Materials Vol 772 (2015) pp 597-602, © (2015) Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMM.772.597 http://www.ttp.net/978-3-03835-502-1/11.html , ISI, Optirob 2015	0	0,1	0	0,1
23.	F. Gîrbacia, T. Gîrbacia, S. Butnariu , <i>Design review of CAD models using a nui leap motion sensor</i> , Journal of Industrial Design and Engineering Graphics (JIDEG), Volume 7 issue 1, June 2015 http://www.sorging.ro/ro/revista/volume-10-special-issue-fascicle-3/design-review-of-cad-models-using-a-nui-leap-motion-sensor ; Index Copernicus, DOAJ, EBSCO, ProQuest.	0	0,1	0	0,1
24.	C. Antonya, S. Butnariu , H. Beles, <i>Geometric identification of a four-bar linkage from noisy tracking data</i> , Conference paper: The 14th IFToMM World Congress, At Taipei, Taiwan DOI: 10.6567/IFToMM.14TH.WC.OS2.012 http://www.iftomm2015.tw/IFToMM2015CD/PDF/OS2-012.pdf	0	0,1	0	0,1
25.	D. Pîslă, B. Gherman, F. Gîrbacia, C. Vaida, S. Butnariu , T. Gîrbacia, N. Plitea, <i>Optimal Planning of Needle Insertion for Robotic-assisted Prostate Biopsy</i> , Advances in Robot Design and Intelligent Control, Advances in Intelligent Systems and Computing Volume 371, 2016, pp 339-346 , Date: 08 Aug 2015 http://link.springer.com/chapter/10.1007/978-3-319-21290-6_34 DOI: 10.1007/978-3-319-21290-6_34; Series ISSN: 2194-5357 Declarat la criteriul MON.	0	0	0,1	0,1
Citare 25.1	Doina Pîslă, Darius Ani, Calin Vaida, Bogdan Gherman, Paul Tucan, Nicolae Plitea, BIO-PROS-2: <i>An innovative parallel robotic structure for transperineal prostate biopsy</i> , Published in: 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), DOI: 10.1109/AQTR.2016.7501308, http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=7501308&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D7501308	0	0,1		

26.	S. Butnariu , A.S. Nica, G. Mogan, G. Mologhianu, C. Antonya, <i>An algorithm to calculate the spine posture using a tracking mobile device</i> , poster + abstract, Journal of Rehabilitation Medicine, Vol.48, Issue 55, aug. 2016, Abstract for The 10 th International Society of Physical Rehabilitation World Congress ISPRM 2016, Kuala Lumpur, 29 May-2 June, 2016. DOI: 10.2340/16501977-2139. In curs de indexare in WoS. http://www.medicaljournals.se/jrm/content/?volume=48&issue=55	1,595	0,1	0	1,695
27.	C. Antonya, S. Butnariu , C. Pozna, <i>Real-time representation of the human spine with absolute orientation sensors</i> , The 14 th International Conference on Control, Automation, Robotics and Vision, ICARCV 2016, November 13 –15, 2016, Phuket, Thailand IEEE, http://icarcv.org/2016/home.asp ; http://ieeexplore.ieee.org/document/7838745/	0	0,1	0	1,32
	27.1 Tibor Stanko, Stefanie Hahmann, Georges-Pierre Bonneau, Nathalie Saguin-Sprynski. <i>Shape from sensors: curve networks on surfaces from 3D orientations</i> . Computers and Graphics, Elsevier, 2017, https://doi.org/10.1016/j.cag.2017.05.013	1,12	1,22		
28.	S. Butnariu , Gh. Mogan, Cs Antonya, F. Gîrbacia, <i>A new approach to diagnosis and rehabilitation in spine diseases</i> , VRIC 2016, 18th ed. Conference Laval Virtual 23-27 March 2016, http://www.laval-virtual.org/en/scientific-conferences/vric/vric-2015.html , ACM http://dl.acm.org/citation.cfm?id=2927951&CFID=906640832&CFTOKEN=52898778	0	0,1	0	0,1
29.	G.-D. Voinea, S. Butnariu , Gh. Mogan, <i>Measuring and geometric modelling of human spine posture for medical rehabilitation purposes using a wearable monitoring system based on inertial sensors</i> , Sensors (ISSN 1424-8220), 2016, 16(12), Special Issue - Body Worn Behavior Sensing. http://www.mdpi.com/journal/sensors/special_issues/body_wbs	2,677	0,1	0	2,777
30.	S. Butnariu , A. Georgescu, F. Gîrbacia, <i>Using a natural user interface to enhance the ability to interact with econstructed virtual heritage environments</i> , Informatica, Vol 40, No 3 (2016) , ACM http://www.informatica.si/index.php/informatica/article/view/1429	0	0,1	0	0,1
31.	P. Tucan, C. Vaida, S. Butnariu, D. Pîsla, <i>Prioritization of technical characteristics of a spine posture monitoring device</i> , Acta Technica Napocensis, Series: Applies Mathematics, Mechanics, and Engineering, Vol 59, No 4 (2016), www.atna-mam.utcluj.ro/index.php/Acta/article/view/813	0	0,1	0	0,1
32.	Butnariu, S. , Gîrbacia, T.: <i>An Analysis On The Prostate Deformation During Brachytherapy Needle Insertion</i> , Proceedings of PRASIC 2016, published in Buletinul Universitatii Transilvania din Brasov.	0	0,1	0	0,1
33.	Gîrbacia, T., Gîrbacia, F., Butnariu, S. , Gherman, B., Vaida, C., Pîslă , D.: <i>Development of a Virtual Reality Application for Planning of Robotic Prostate Transperineal Biopsy</i> , Proceedings of PRASIC 2016, published in Buletinul Universitatii Transilvania din Brasov.	0	0,1	0	0,1
34.	S. Butnariu , T. Gîrbacia and F. Gîrbacia, <i>An Analysis on Tissue Deformation during Robotic Biopsy Needle Insertion</i> , The 6-th edition of the IEEE International Conference on e-Health and Bioengineering, EHB 2017, 22-24 June 2017, Sinaia, Romania	0	0,1	0	0,1
35.	G.D. Voinea, S. Butnariu , <i>Wearability Assessment of an Equipment for Spine Posture Monitoring</i> , The 6-th edition of the IEEE International Conference on e-Health and Bioengineering, EHB 2017, 22-24 June 2017, Sinaia, Romania	0	0,1	0	0,1
TOTAL CDI-ART					23,16

Criteriul CDI-BRV

	Denumire	Punctaj
1.	Butnariu S. , Butila E., Talaba D., Sistem haptic pentru simularea funcționării mecanismelor articulate și modul de utilizare a acestuia, RO129033 (A0) — 2013-11-29 http://apps.webofknowledge.com/am.enformation.ro/full_record.do?colName=DIIDW&recordID=2013W66402&log_event=no&page=1&qid=12&log_event=yes&viewType=fullRecord&SID=X1xqUn59Dxsxzd7qgG&product=UA&doc=6&search_mode=GeneralSearch	1
	TOTAL CDI-BRV	1

Criteriul CDI-MON

	Denumire	nr. pag.	Punctaj
	Edituri naționale		
1.	S. Butnariu , Transmisii prin curele sincrone, Ed. Universității Transilvania, 2009, ISBN 978-973-598-495-3	265	5,30
2.	Mogan, Gh., Butnariu, S. , Gruender, W., Kuchar, P., <i>Organe de mașini. Teorie-Proiectare-Aplicații</i> , Ed. Universității Transilvania din Brașov, ISBN 978-606-19-0069-5 (print), ISBN 978-606-19-0070-1 (CD), 2012.	265	5,30
3.	Mogan, Gh., Butnariu, S. , <i>Organe de mașini. Teorie-Proiectare-Aplicații</i> , editia a II-a, Ed. Universității Transilvania din Brașov, ISBN 978-606-19-0312-2 (CD), 2013.	300	6,00
4.	Mogan, Gh., Butnariu, S. , <i>Modelarea și Analiza cu Metoda Elementelor Finite în Inginerie. Teorie și Aplicații practice (sistem integrat)</i> , Ediția I, editura:Editura Universitatii Transilvania din Brasov isbn:978-606-19-0311-5 An Aparitie:2014 NrAutori:2 TotalNrPagini:478, http://simef.rrv.ro (student/mogan)	478	9,56
5.	Mogan, Gh., Butnariu, S. , <i>Organe de mașini. Teorie-Proiectare-Aplicații (sistem integrat)</i> , editia a III-a, Ed. Universității Transilvania din Brașov, ISBN 978-606-19-0712-0 (CD), 2015. http://mg.rrv.ro/ (student/mogan)	490	9,80
	Total edituri naționale		35,96
	Edituri internaționale		
1.	B. Gherman, T. Girbacia, D. Cocorean, C. Vaida, S. Butnariu , N. Plitea, D. Talaba, D. Pisla, Virtual Planning of Needle Guidance for a Parallel Robot Used in Brachytherapy, Chapter in: New Trends in Medical and Service Robots, Volume 38 of the series Mechanisms and Machine Science, Springer International Publishing, pp 109-120, DOI: 10.1007/978-3-319-23832-6_9 http://link.springer.com/chapter/10.1007%2F978-3-319-23832-6_9	12	1,2
2.	C. Antonya, S. Butnariu , H. Beles, Parameter estimation from motion tracking data, Digital Human Modeling. Applications in Health, Safety, Ergonomics and Risk Management: Ergonomics and Health, Lecture Notes in Computer Science Volume 9185, 2015, pp 113-121 http://link.springer.com/chapter/10.1007/978-3-319-21070-4_12 , DOI: 10.1007/978-3-319-21070-4_12	9	0,9
3.	D.Pisla, B. Gherman, F. Girbacia, C. Vaida, S. Butnariu , T. Girbacia, N. Plitea, Optimal Planning of Needle Insertion for Robotic-assisted Prostate Biopsy, Advances in Robot Design and Intelligent Control, Advances in Intelligent Systems and Computing Volume 371, 2016, pp 339-346, Date: 08 Aug 2015 http://link.springer.com/chapter/10.1007/978-3-319-21290-6_34 DOI: 10.1007/978-3-319-21290-6_34; Series ISSN: 2194-5357	8	0,8
4.	S. Butnariu , C. Antonya, Correction method for spine flexion tracking with markers, Chapter in New Trends in Medical and Service Robots, Volume 39 of the series Mechanisms and Machine Science pp 265-275 http://link.springer.com/chapter/10.1007/978-3-319-30674-2_20 DOI:10.1007/978-3-319-30674-2_20; Print ISBN: 978-3-319-30673-5 Online ISBN: 978-3-319-30674-2	11	1,1

5.	S. Butnariu , D. Talaba, Advanced Approaches Using VR Simulations for Teaching Mechanisms, Eucomes 2010 Chapter in New Trends in Mechanism Science, Vol. 5 of the series Mechanisms and Machine Science pp 519-526, http://link.springer.com/chapter/10.1007%2F978-90-481-9689-0_60	8	0,8
6.	S. Butnariu , Strategy for Optimizing the Synchronous Belt Drives Design, SYROM 2009: Proceedings of the 10 th IFTOMM International Symposium on Science of Mechanisms and Machines, 2009 Pages: 495-501 DOI: 10.1007/978-90-481-3522-6_40, http://link.springer.com/chapter/10.1007%2F978-90-481-3522-6_40	7	0,7
7.	Gh. D. Voinea , C. Postelnicu, S. Butnariu , Challenges Involved in the Design of an e-Health Application for a Wearable Scoliosis Monitoring System, Chapter in HCI International 2016 – Posters' Extended Abstracts, Volume 618 of the series Communications in Computer and Information Science pp 339-344, DOI 10.1007/978-3-319-40542-1_56, http://link.springer.com/chapter/10.1007/978-3-319-40542-1_56	5	0,5
8.	D.I. Furnea, S. Butnariu , New Approaches in Designing a Race Car Chassis for an Engineering Competition, CONAT 2016 International Congress of Automotive and Transport Engineering, pp 110-119, DOI 10.1007/978-3-319-45447-4_12, ISBN 978-3-319-45446-7, Springer International Publishing, 2016. http://link.springer.com/chapter/10.1007/978-3-319-45447-4_12	10	1
9.	Alex. Bogdan, S. Butnariu , About Uncontrollable Reactions of the Driver Due to Skin Mechanical Stimuli, Chapter in CONAT 2016 International Congress of Automotive and Transport Engineering, pp 737-745, DOI 10.1007/978-3-319-45447-4_81, Print ISBN 978-3-319-45446-7, Springer International Publishing, 2016. http://link.springer.com/chapter/10.1007/978-3-319-45447-4_81	9	0,9
10.	F. Gîrbacia, D. Pîslă, S. Butnariu, B. Gherman, T. Gîrbacia, N. Plitea, An Evolutionary Computational Algorithm for Trajectory Planning of an Innovative Parallel Robot for Brachytherapy, Chapter in New Advances in Mechanisms, Mechanical Transmissions and Robotics, Volume 46 of the series Mechanisms and Machine Science pp 427-435 01 Oct. 2016, DOI 10.1007/978-3-319-45450-4_43, ISBN 978-3-319-45449-8 http://link.springer.com/chapter/10.1007/978-3-319-45450-4_43	9	0,9
	Total edituri internaționale		8,8
	TOTAL CDI-MON		44,76

Criteriul DID - Activitate didactică și profesională

Indicatori DID	Descriere	Punctaj	Observații	Punctaj
DID-MS (min. 60% din punctaj standard minimal)	Manuale suport curs, format tipărit sau format electronic	1 punct = 50 pagini	Candidatul trebuie sa fie autor principal (autor unic sau primul autor) al manualului. Pentru formatul electronic calitatea de autor principal este certificată de conducerea departamentului	8,68
DID-LAB	Standuri/laboratoare pentru activități didactice realizate / dezvoltate de candidat, cu lucrări de laborator elaborate de candidat și incluse în îndrumător laborator format tipărit sau format electronic	1 punct = 1 lucrare de laborator cu infrastructură realizată/dezvoltată de candidat	Pentru standurile sau laboratoarele didactice, calitatea de dezvoltator este certificată de conducerea departamentului	13,00
Standard minimal profesor universitar / abilitare		10 puncte		21,68

Criteriul DID-MS

	Denumire	nr. pag.	Punctaj
1.	Butnariu S., <i>Analysis of mechanical structures using finite element method, lecture notes</i> , ISBN 978-606-19-0311-5 (CD), Ed. Universitatii Transilvania din Brasov, 2013.	184	3,68
2.	Butnariu, S., <i>VR technologies for scanning, 3D reconstruction and tracking -lecture notes-</i> , suport de curs, CD, ISBN: 978-973-131-340-5, Ed. Lux Libris, 2016	250	5,00
TOTAL DID-MS			8,68

Criteriul DID-LAB

	Denumire	Punctaj
1.	Mogan, Gh., Butnariu, S., <i>Analiza cu elemente finite. Aplicatii in CATIA</i> , Ed. Universității Transilvania, ISBN 978-973-598-159-4, 2007. http://toread.utcb.ro/opac/bibliographic_view/3130;jsessionid=585428D5BCE284F2CBED39CF92182A3C	
1.1	Analiza statică liniară a elementelor de tip captor tensometric http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_01.pdf	1
1.2	Analiza statică liniară a elementelor elastice metalice din tablă http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_02.pdf	1
1.3	Analiza statică liniară a elementelor elastice metalice din sârmă http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_03.pdf	1
1.4	Analiza statică liniară a elementelor elastice nemetalice http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_04.pdf	1
1.5	Analiza statică liniară a structurilor din bare http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_05.pdf	1
1.6	Analiza statică a elementelor componente ale structurilor mecanice de susținere asamblate http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_06.pdf	1
1.7	Analiza statică a structurilor mecanice de susținere asamblate http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_07.pdf	1

2	Butnariu, S., Mogan, Gh., <i>Analiza cu elemente finite în ingineria mecanică.. Aplicații practice în ANSYS</i> , Ed. Universității Transilvania, ISBN 978-606-19-0474-7 (print), 2014 http://www.unitbv.ro/press/Inpress.aspx	
2.1	Arcuri elicoidale solificate la compresiune http://portal.unitbv.ro/Portals/0/UserFiles/User296/AEF-A_11_Arcuri_elicoidale_solificate_la_comprimare.pdf	1
2.2	Arcuri elicoidale solificate la torsiune http://portal.unitbv.ro/Portals/0/UserFiles/User296/AEF-A_12_Arcuri_elicoidale_solificate_la_torsiune.pdf	1
2.3	Elemente elastice nemetalice http://portal.unitbv.ro/Portals/0/UserFiles/User296/AEF-A_13_Elemente_elastice_nemetalice.pdf	1
2.4	Analiza statică a structurilor din bare http://portal.unitbv.ro/Portals/0/UserFiles/User296/AEF-A_14_Analiza_statica_a_structurilor_din_bare.pdf	1
2.5	Vibrațiile și frecvențele proprii ale structurilor din bare http://portal.unitbv.ro/Portals/0/UserFiles/User296/AEF-A_15_Vibratii_proprii.pdf	1
2.6	Analiza statică a mecanismelor cu bare http://portal.unitbv.ro/Portals/0/UserFiles/User296/AEF-A_16_Analiza_statica_a_mecanismelor_cu_bare.pdf	1
TOTAL DID-LAB		13

Criteriul RIA - Recunoașterea și impactul activității

Indicatori RIA	Descriere	Punctaj	Observații	Punctaj
RIA-GRA	Director sau responsabil partener grant internațional	1 punct = 10000 EUR	<ul style="list-style-type: none"> Calitatea de director sau responsabil partener este certificată de reprezentantul legal al instituției în cadrul căreia a fost derulat grantul sau contractual 	22,500
	Director sau responsabil partener grant național	1 punct = 50000 RON		27,334
RIA-CTR	Director contract cu beneficiar din mediul economic internațional	1 punct = 2000 EUR	<ul style="list-style-type: none"> Sunt luate în considerare sumele încasate exclusiv de instituția în care a fost derulat grantul (la proiectele tip consorțiu se consideră suma alocată instituției) <p>Punctajul pentru sumele prevăzute la RIA-GRA și RIA-CTR este de 0.25 puncte pentru membru în echipă, în loc de 1 punct pentru director / responsabil partener</p>	0
	Director contract cu beneficiar din mediul economic național	1 punct = 10000 RON		0
Standard minimal profesor universitar / abilitare		10 puncte		49,834

Criteriul RIA-GRA

Nr. crt.	Denumire proiect	Funcția în proiect	Valoare proiect / partener	Punctaj
1.	SPINE - Sistem de diagnosticare și terapie a afecțiunilor coloanei vertebrale, perioada: 2014-2017 Parteneriate 2013, finanțator: UEFISCDI Cod proiect: PN-II-PT-PCCA-2013-4-1596 – Nr contractului: 227/2014 (coordonator UTBv)	Director proiect	590.504 lei	11,81
2.	Brahiterapia asistată robotică, o abordare inovativă în terapia cancerelor inoperabile, perioada: 2012-2016 finanțator: PCCA Tip 2, UEFISCDI, Nr. Contract: 173/2012 (coordonator UT Cluj)	Responsabil partener	300.000 lei	6
3.	Nou sistem haptic de tip exoschelet pentru robotică și automată spațială – EXORAS 13/2012 (coordonator UT Cluj) Cercetare - Agentia Spatiala Romana (ROSA) 2012, perioada 2012 - 2015	Responsabil partener	174.000 lei	3,49
4.	Virtual Reality in Product Design and Robotics (VEGA), perioada: 2005-2008 finanțator: Comisia Europeana, activitate 1 an / 3 ani, buget 1/3 Nr Contract: FP6 - SSA Project AC, 16565	Membru / 1 an	900.000 euro	7,5
5.	VIRPE - realitate virtuală pentru ingineria produsului, perioada: 2006-2009, finanțator: CEEX M2, Nr Contract: II-5920/2006	Membru / 1 an	487.952 lei	0,813
6.	A network for rapid and sustainable ICT regional adoption INTERREG IVC, DigitalCities, http://www.digital-cities.eu/ , perioada: 2009-2012, finanțator: Comisia Europeana, INTERREG IVC, Nr. Contract: 0299R	membru	180.000 eur	4,50
7.	ROBOCORE - Biopsia prostatei asistată robotică, o metodă inovativă de mare precizie, perioada: 2014-2017 finanțator: UEFISCDI, Parteneriate 2013, http://cester.utcluj.ro/robocore/index.html , Contract 247 / 2014	membru	150.000 lei	0,75
8.	NaviEyes - Intelligent Driver Assistant for Smartphones perioada: 2014-2017 finanțator: UEFISCDI Nr. Contract: 240 din 01/07/2014 (PN-II-PT-PCCA-2013-4-2023) Parteneriate 2013	membru	894.250 lei	4,471
9.	eHeritage - Expanding the Research and Innovation Capacity in Cultural Heritage Virtual Reality Applications, Horizon 2020 – Twinning, perioada 2015-2018.	membru	420.000 eur	10,5
	TOTAL			49,834