

FISA INDIVIDUALA DE CALCUL A INDICATORILOR C2.1 si C2.2

Domeniul: INGINERIE MECANICA, MECATRONICA SI ROBOTICA

Cadrul didactic: **Unguresan Paula Veronica**
 Functia: **Sef de lucrari**
 Departamentul: **Inginerie Mecanica**
 Facultatea: **Mecanica**

Indicatorul C2.1 - Calitatea resursei umane

Criteriul CDI			Criteriul DID			Criteriul RIA		
Indicatori cu contribuție principală (obligatorie) în criteriu								
Rezultate și comunicări publicate ca articole științifice (CDI-ART)	Minim CNATDCU	Punctaj	Manuale - suport curs, format tipărit sau format electronic (DID- MSC)	Minim CNATDCU	Punctaj	Management proiecte: a) Director grant național sau internațional, sau responsabil partener în consorțiu (RIA-GRA); b) Director contracte cu beneficiari din mediul economic (RIA-CTR)	Minim CNATDCU	Punctaj
	3	37.44		3	12.52		3	3.36
Indicatori cu contribuție complementară în criteriu								
a) Brevete de invenție (CDI-BRV)	2	1.60	a) Laboratoare / standuri pentru activități didactice (DID-LAB)	2	2.00	Activitate de cercetare – dezvoltare – inovare în cadrul granturilor / proiectelor	2	11.10
b) Produse, tehnologii și servicii inovative (CDI-PTS)			b) Platforme informatice educaționale (DID-PIE)					
c) Monografiile de specialitate (CDI-MON)								
TOTAL	5	39.04		5	14.52		5	14.46

Scorul obținut la indicatorul C2.1: **13.604**

Indicatorul C2.2 - Impactul activității științifice

Baza de date	Web of Knowledge	Scopus	Google Scholar
h-index	2	2	3

Scorul obținut la indicatorul C2.2: **2.20**

Decan
Prof. dr. ing. Cristian Dudesco

Director departament
Prof. dr. ing. Dan Opruța

Candidat
S.I. dr.ing. Paula Unguresan

CRITERIUL CDI

CDI-ART

Nr. Crt	Referința bibliografică	Factor impact	Punctaj
A1	Florin BODE, Corina GIURGEA, Victor HODOR, Paula UNGURESAN, <i>Investigation of the non-reactive flow in a swirling burner</i> , Journal Mechanika, ISSN 1392-1207, pag.42-47, Nr.5(79), 2009, WOS:000271802000006, http://zurnalas.mechanika.ktu.lt/files/mech579/Bode579.pdf http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=4&SID=4D8JCphtZzQ96pSO2Yg&page=1&doc=13	0.780	0.880
C1-A1	Sinkunas, S.; Kiela, A.; Maciulevicius, J., <i>Research of Heat Transfer in the Entrance Region of Infinite Film Flow</i> , 415-419, MECHANIKA 2010: PROCEEDINGS OF THE 15TH INTERNATIONAL CONFERENCE 2010, (Scopus, Web of Science) http://apps.webofknowledge.com/ux4ll8xu6v.useaccesscontrol.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=2&SID=4D8JCphtZzQ96pSO2Yg&page=1&doc=1 WOS:000290894100079	-	0.100
C2-A1	J. R. Gatabi, I. R. Gatabi, M. Soltani, P. Mohammadi, M. Dabbag, <i>An improved measurement algorithm for increasing the accuracy of sing-around type ultrasonic flow meters</i> , MECHANIKA Issue: 2 Pages: 209-213 Published: 2012 WOS:000303788600014 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=19&SID=4D8JCphtZzQ96pSO2Yg&page=1&doc=1 http://dx.doi.org/10.5755/j01.mech.18.2.1560	-	0.100
A2	Paula UNGURESAN, Florin BODE, Mugur BALAN, Andrei CECLAN, <i>Analysys of the cogeneration implementation potential into an existing saturated steam boiler industrial plant</i> , Revista Termotehnica, ISSN-L 1222-4057, online ISSN 2247-1871, issue 1/2011, pag. 104-109, Romania; http://www.agir.ro/buletine/981.pdf (BDI: INDEX COPERNICUS INTERNATIONAL, ACADEMIC KEYS, getCITED)	-	0.100
A3	Mugur BĂLAN, Paula UNGUREȘAN, Florin BODE, Andrei CECLAN, Lorentz JÄNTSCHI, <i>Study of energy recovery options at a Wistra ceramoc insulators oven</i> , National Conference of Thermodynamics with International Participation 26-28 May 2011, Craiova, Revista Termotehnica (Supliment), ISSN-L 1222-4057, online ISSN 2247-1871, nr 1/2011, Romania http://www.revistatermotehnica.agir.ro/files/1_2011_Energie.pdf (BDI: INDEX COPERNICUS INTERNATIONAL, ACADEMIC KEYS, getCITED)	-	0.100

A4	Lavinia Socaciu, Paula Veronica Unguresan, <i>Using the Analytic Hierarchy Process to Prioritize and Select Phase Change Materials for Comfort Application in Buildings</i> - Mathematical Modelling in Civil Engineering, Volume 10, Issue 1, Pages 21–28, ISSN (Online) 2066-6934, DOI: 10.2478/mmce-2014-0003, April 2014	-	0.100
C1-A4	Lavinia Socaciu, Oana Giurgiu, Daniel Banyai, Mihaela Simion, PCM selection using AHP method, Energy Procedia 85 (2016) 489 – 497 ,	-	0.100
C2-A4	Lavinia Socaciu, Oana Giurgiu, Mihaela Simion, PCM Selection Using AHP Method to Maintain Thermal Comfort of the Vehicle Occupants, Energy Procedia 85 (2016) 489 – 497	-	0.100
A5	Lavinia Socaciu, Angela Plesa, Paula Unguresan, Oana Giurgiu, <i>Review on phase change materials for building applications</i> Leonardo Electronic Journal of Practices and Technologies, ISSN 1583-1078, Issue 25, July-December 2014,p. 179-194	-	0.100
A6	Marcu, I. L., Unguresan P., Nascutiu L., (2009): <i>Aspects Regarding the Alternating Flow Driven Hydraulic Systems</i> , Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium, 25-28th November 2009, Vienna, Austria, pag, 0155-0156, ISSN 1726-9679, ISBN 978-3-901509-70-4, Katalinic, B. (Ed.), Published by DAAAM International Vienna, Vienna (2009). http://connection.ebscohost.com/c/articles/47080571/aspects-regarding-alternating-flow-driven-hydraulic-systems	-	0.100
C1-A6	N Petrescu, S Mircea, A Tronac, E Manole, (2014): <i>Some Mathematical Considerations on the Natural Protection of the Danube Delta Coastal Zone in Romania</i> , in Procedia Engineering, Volume 69, 2014, pag. 1372–1380, ISSN: 1877-7058, doi:10.1016/j.proeng.2014.03.131, http://www.sciencedirect.com/science/article/pii/S1877705814003774#	-	0.100
C2-A6	Daniel Banyai, Ioana Sfarlea, Dan Opruta, Experimental research on variable hydraulic resistors of servo-hydraulic valves,Energy Procedia 85 (2016) 44 – 51, doi:10.1016/j.egypro.2015.12.273	-	0.100
A7	Plesa, Angela, Opruta D., Teborean I., Unguresan, Paula, <i>Some practical aspects regarding the flow in a plate and fins heat exchanger</i> , Experimental Fluid mechanics 2006,Proceedings, pg.157-160, ISSN 80-7372-141-4; http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=4&SID=Q2IF7zujV6fnlfzTehQ&page=1&doc=3	-	0.100

A8	Madarasan, T., Unguresan, Paula, Contributions regarding the exergetic analysis of heat exchangers, Revista Termotehnica nr.1-2/2006, An X, nr.1-2/2006, http://www.revistatermotehnica.agir.ro/numar_revista.php?id=70 ; http://www.agir.ro/buletine/1221.pdf . (BDI: INDEX COPERNICUS INTERNATIONAL, ACADEMIC KEYS, getCITED)	-	0.100
C1-A8	Sit M.L., Sit B.M., Burciu V.I., Ioişer A.M., <i>Heat pump gas cooler control using criterion of minimum exergy losses</i> , Journal: Problems of the regional energetics, Academy of Science of Moldova, №: 2(25) 2014, ISSN 1857-0070; http://journal.ie.asm.md/assets/files/01_02_25_2014.pdf	-	0.100
C2-A8	Hornet Mircea, Nastac Cristian, CALCULATION OF PERFORMANCE INDICATORS FOR HEAT PIPES RECOVERY UNITS WHICH OPERATE IN GAS-GAS MODE, Bulletin of the Transilvania University of Braşov • Vol. 5 (54) - 2012 Series 1: Special Issue No. 1. ISSN- 2062-2127	-	0.100
A9	V. HODOR, T. MADARASAN, R. BALAN, Paula UNGURESAN, Cercetari privind realizarea unor regimuri termice impuse in schimbatoarele de caldura lichid-lichid, Revista Termotehnica nr.1/2002, ISSN-L 1222-4057, 2 numere pe an BDI: INDEX COPERNICUS INTERNATIONAL, ACADEMIC KEYS, getCITED Online: ISSN 2247-1871, http://www.agir.ro/buletine/1147.pdf	-	0.100
A10	Angela Plesa, Dan Opruta, Monica Balcau, Paula Unguresan, Mathematical model for air flow in heat exchanger sinusoidal fins, Revista Termotehnica, Nr.2/2009, pg.22-25, ISSN-L 1222-4057, BDI: INDEX COPERNICUS INTERNATIONAL, ACADEMIC KEYS, getCITED Online: ISSN 2247-1871, http://www.agir.ro/buletine/549.pdf	-	0.100
A11	Paula Ungureşan, Dorin Petreuş, Adrian Pocola, Mugur Bălan, Potential of Solar ORC and PV Systems to Provide Electricity under Romanian Climatic Conditions, Energy Procedia. Volume 85, January 2016, Pages 584–593, doi:10.1016/j.egypro.2015.12.248	-	0.100
C1-A11	Christos Tzivanidis, Evangelos Bellos, Kimon A. Antonopoulos, Energetic and financial investigation of a stand-alone solar-thermal Organic Rankine Cycle power plant, Energy Conversion and Management, Volume 126, 15 October 2016, Pages 421–433	4.801	4.901
C2-A11	Rodolfo Taccani. John Besong Obi. Maurizio De Lucia. Diego Micheli. Giuseppe Toniato. Development and Experimental Characterization of a Small Scale Solar Powered Organic Rankine Cycle (ORC), Energy Procedia Volume 101, November 2016, Pages 504-511	-	0.100
C3-A11	Raluca Porumb, Bogdan Porumb, Mugur Balan, Numerical Investigation on Solar Absorption Chiller with LiBr-H2O Operating Conditions and Performances, Energy Procedia Volume 112, March 2017, Pages 108–117	-	0.100

A12	Bogdan Porumb, Paula Ungureșan, Lucian Fechete Tutunaru, Alexandru Șerban, Mugur Bălan, A Review of Indirect Evaporative Cooling Operating Conditions and Performances, Energy Procedia, Volume 85, January 2016, Pages 452–460, doi:10.1016/j.egypro.2015.12.226	-	0.100
C1-A12	Yi Chen, Honhxing Yang, Yimo Luo, Experimental study of plate type air cooler performances under four operating modes, BUILDING AND ENVIRONMENT, Volume 104, 1 August 2016, Pages 296–310	3.394	3.494
C2-A12	Yi Chen, Hongxing Yang, Yimo Luo, Parameter sensitivity analysis and configuration optimization of indirect evaporative cooler (IEC) considering condensation, Applied Energy, Volume 194, 15 May 2017, Pages 440–453	5.746	5.846
C3-A12	Octavian Pop, Lucian Fechete Tutunaru, Mugur Balan, Numerical Model for Solidification and Melting of PCM Encapsulated in Spherical Shells, Energy Procedia Volume 112, March 2017, Pages 336–343	-	0.100
A13	Bogdan Porumb, Paula Ungureșan, Lucian Fechete Tutunaru, Alexandru Șerban, Mugur Bălan, , A Review of Indirect Evaporative Cooling Technology, Energy Procedia, Volume 85, January 2016, Pages 461–471, doi:10.1016/j.egypro.2015.12.228	-	0.100
C1-A13	Yi Chen, Honhxing Yang, Yimo Luo, Experimental study of plate type air cooler performances under four operating modes, BUILDING AND ENVIRONMENT, Volume 104, 1 August 2016, Pages 296–310	3.394	3.494
C2-A13	Yi Chen, Hongxing Yang, Yimo Luo, Parameter sensitivity analysis and configuration optimization of indirect evaporative cooler (IEC) considering condensation, Applied Energy, Volume 194, 15 May 2017, Pages 440–453	5.746	5.846
C3-A13	Zeynab Emdadi , Nilofar Asim , Mohd Ambar Yarmo, Roslinda Shamsudin , Masita Mohammad and Kamaruzaman Sopian , Green Material Prospects for Passive Evaporative Cooling Systems: Geopolymers, Energies 2016, 9(8), 586, doi:10.3390/en9080586	2.077	2.177
C4-A13	Octavian Pop, Lucian Fechete Tutunaru, Mugur Balan, Numerical Model for Solidification and Melting of PCM Encapsulated in Spherical Shells, Energy Procedia Volume 112, March 2017, Pages 336–343	-	0.100
C5-A13	Rajat Subhra Dasa, Sanjeev Jain, Experimental investigations on a solar assisted liquid desiccant cooling system with indirect contact dehumidifier, Solar Energy, Volume 153, 1 September 2017, Pages 289–300, https://doi.org/10.1016/j.solener.2017.05.071	3.685	3.785
A14	M Simion, L Socaciu, P Unguresan, Factors which Influence the Thermal Comfort Inside of Vehicles, Energy Procedia Volume 85, January 2016, Pages 472–480	-	0.100

C1-A14	Miloš Fojtlín, Jan Fišer, Jan Pokorný, Aleš Povalač, Tomáš Urbanec, Miroslav Jícha, An innovative HVAC control system: Implementation and testing in a vehicular cabin, Journal of Thermal Biology Available online 13 April 2017 In Press, Corrected Proof — Note to users	1.621	1.721
C2-A14	Lajunen, A., "Energy Efficiency and Performance of Cabin Thermal Management in Electric Vehicles," SAE Technical Paper 2017-01-0192, 2017, doi:10.4271/2017-01-0192.	-	0.100
C3-A14	C.C.Goh ^{1,2} , L.M.Kamarudin, S.Shukri, N.S.Abdullah ,A.Zakaria, Monitoring of Carbon Dioxide (CO ₂) Accumulation in Vehicle Cabin, Conference: 2016 3rd International Conference on Electronic Design (ICED), August 2016 DOI: 10.1109/ICED.2016.7804682	-	0.100
A15	F. Bode, V. Hodor, T. Madarasan, P. Ungureșan, "Investigation on turbulence related to a swirling burner within its back pressure combustion chamber", Scientific Bulletin of the Politehnic University of Timisoara, Transaction on Mechanics, ISSN 1224-6077	-	0.000
C1-A15	Mircea DIUDEA, Victor HODOR, FLUID-DYNAMIC ANALYSIS IN VEHICLE DESIGN, Archives > Vol 56, No 4 (2013) http://atna-mam.utcluj.ro/index.php/Acta/article/view/115 ;	-	0.100
C2-A15	Mircea Mrenes, Geometrical study for a private burner mixing pipe." Annals of DAAAM & Proceedings (2010), ISSN: 1726-9679	-	0.100
C3-A15	Mircea Mrenes, Simulation of gas flow in a private burner mixing pipe, Annals of DAAAM & Proceedings (2010), ISSN: 1726-9679	-	0.100
A16	Victor HODOR, Florin BODE, Paula UNGUREȘAN, Claudiu RATIU, CFD first prediction in designing a 50 kW swirling burner within its combustion chamber, Scientific Bulletin of the Politehnica University of Timisoara, Transaction on Mechanics, Vol.52, issue 3, ISSN 1224-6077, 2007 http://eng.upt.ro/buletin/numere/2007/2007_03.pdf	-	-
C1-A16	Adi Surjosatyo , Pembakaran Gas Hasil Gasifikasi Biomassa di Premixed Gas Burner dengan Metoda 3D Computational Fluid Dynamic, Jurnal Teknik Mesin, Vol 12, No 1 (2010), ISSN 1410-9867; http://jurnalmesin.petra.ac.id/index.php/mes/article/view/18037/17944 ;	-	0.100

A17	Victor Hodor, Florin Bode, Teodor Madarasan, Paula Unguresan, CFD prediction of a burner gasodynamic geometry within its back pressure combustion chamber, Proceedings on 2nd workshop on vortex dominated flows achievements and open problems, Scientific Bulletin of Politehnica Univ. of Timisoara, Transactions on Mechanics, http://mh.mec.upt.ro/accord%2Dfluid/workshop2006/docs/L20.pdf Tom51(65) Fascic3, Issue, pg.135-141, ISSN 1224-6077, Bucharest, Jun30-01, 2006	-	-
C1-A17	Mircea Mrenes, Geometrical study for a private burner mixing pipe." Annals of DAAAM & Proceedings (2010), ISSN: 1726-9679	-	0.100
C2-A17	Mircea Mrenes, Simulation of gas flow in a private burner mixing pipe, Annals of DAAAM & Proceedings (2010), ISSN: 1726-9679	-	0.100
A18	Ungureșan Paula Veronica, Porumb Raluca Andrada, Petreuş Dorin, Pocola Adrian George, Pop Octavian Gabriel, Bălan Mugur Ciprian"Assessments about orientation of façades for active solar energy applications in different climatic conditions " Journal of Energy Engineering, Impact factor 1.895, Challenging energy issues in transition economies; the case of Romania (accepted for publication)	1.895	1.995
			37.439

CDI-BRV

Nr. Crt	Brevete de inventie	Tip	Punctaj
1		National	
2		Internat.	
3			

Total punctaj criteriul CDI-BRV 0.000

CDI-MON

Nr. Crt	Monografiile sau capitole în monografiile de specialitate	Nr. pag.	Punctaj
1	Paula Unguresan, Exergoeconomic analysis of an internal combustion engine cogeneration system, in Developments in Mechanical Engineering, Vol.4, Gdansk University of Technology Publishers, ISBN 978-83-7348-301-9, p.171-187, 2010	16	1.600

2

Total punctaj criteriul CDI-MON 1.600

Total punctaj criteriul CDI 39.04

CRITERIUL DID

DID-MSD

Nr. Crt	Manuale suport de curs	Pagini	Punctaj
1	Florin Bode, Paula Unguresan, Combustie si instalatii de ardere, Editura UT Pres, 2015, ISBN 978-976-662-998-3	446	8.92
2	Paula Unguresan Florin Bode, Termodinamica aplicata, UT Press, 2017, ISBN 978-606-737-248-9, format electronic, pe CD	180	3.60
Total punctaj criteriul CDI-MSD			12.52

DID-MSD

Nr. Crt	Standuri/laboratoare pentru activități didactice	Indrumator /pag	Punctaj
1	<i>Coautor Indrumator lucrari de laborator-1. Madarasan, T., Apahidean, B., Ghiran, I., Teborean, I., Balan, M., Unguresan, Paula, B.Duma, F.Bode - Indrumator pentru lucrari de termotehnica si masini termice, Editura Toderco, Cluj-Napoca, 2006, ISBN 973-7695-17-8, in format electronic, pe CD.</i>	-	1
2	Dezvoltare stand de laborator- Stand pentru studiul transferului de căldură și masă(Balan Mugur, Pocola Adrian, Unguresan Paula), 2016-2017	-	1
Total punctaj criteriul CDI-MSD			2.00

Total punctaj criteriul DID

14.52

CRITERIUL RIA

RIA – Contribuție principală în calitate de director proiect/grant

Nr. crt	Titlul proiectului/grantului / Perioada / Beneficiar	Tip proiect	Valoare totală	Valoare incasata	Punctaj
1	<i>Cercetari privind optimizarea exergetica a ciclurilor termodinamice, cu aplicatie in instalatiile termoenergetice cu cogenerare , Grant CNCISIS TD nr. 250, Director de proiect, perioada 2004-2006.</i>	RIA-GRA	13000 (RON)	13000	0.260
2	<i>Pilot study concerning the bibliographical syntesis of indirect evaporative cooling, Director de contract, Proiect de cercetare cu mediul economic international, EMEA - Thermal Management -Emerson Network Power, Bologna Area, Italy, 2013</i>	RIA-CTR	6200 (Euro)	6200	3.100

Total punctaj criteriul RIA - indicatori principali 3.360

RIA – Contribuție complementara - membru echipă cercetare grant/proiect

Nr. crt	Titlul proiectului/grantului / Perioada / Beneficiar	Tip proiect	Valoare totală	Valoare incasata	Punctaj
1	<i>Advanced strategies for high performance indoor Environmental Quality in Operating Rooms – EQUATOR, PN-II-PT-PCCA-2011-3.2-1212, Grant PARTENERIATE of the Romanian National Authority for Scientific Research, CNCS – UEFISCDI, 2012-2016, Numar contractare UEFISCDI: 92/2012 Director proiect: dr.ing. Ilinca Nastase UTCB,</i>	RIA-GRA	570000 (RON)	383792	1.919
2	<i>Control and numerical analysis of combustion instability using acoustic analogy, Grant CNCISIS IDEI, nr. 1071/2007, 2007-2010, director proiect dr.ing. Victor Hodor</i>	RIA-GRA	995000 (RON)	770000	3.850
3	<i>Hidrodinamica vartejurilor si aplicatii, Grant CNCISIS A- consortiu, cod CNCISIS 33, participare in calitate de membru, perioada 2004-2007, Director Prof. Dr. Ing. Romeo Susan-Resiga, responsabil UTCN Prof. Dr. Ing. Vaida Liviu</i>	RIA-GRA	2000000 (RON)	47400	0.237

4	<i>Studii privind utilizarea combustibililor pe baza de uleiuri vegetale ca si sursa de energie regenerabila pentru fermele agricole, PN II-21046, EnergoEcoFarm, 2007-2010</i>	RIA-GRA	1975500.0	1018805.0	5.094
---	---	---------	-----------	-----------	-------

Total punctaj criteriul RIA - indicatori complementari 11.100

Total punctaj criteriul RIA

14.460