Universitatea
Transilvania
din Brașov

Îndeplinirea standardelor minimale

Candidat: Conf. univ. dr. ing. COSTIUC Liviu

Fișa de calcul a îndeplinirii
Standardelor minimale pentru conferirea titlurilor didactice din invatamantul superior, a gradelor profesionale de cercetare-dezvoltare, a calității de conducător de doctorat și a atestatului de abilitare, conform OMENCS_6129_2016, Anexa 17

Condiții minimale și obligatorii						
Domeniul de activitate		**Indicatori**	**Conferențiar**	**Profesor**	**CSII**	**CSI**
Activitatea didactică / profesională (A1)	A1.1	N1	2	2	Nu se aplică	Nu se aplică
		N1.1	0	1		
		N1.3	1	1		
	A1.2	N2	3	4		
		N2.1	1	2		
Activitatea de cercetare (A2)	A2.1 + A2.3	P1+P2	5	10	5	10
		P1	3	6	3	6
	A2.2	N3	8	10	8	10
		N3.1	3	5	3	5
	A2.4 + A2.5	N4	1	2	1	2
		N4.3	0	1	0	1
Recunoașterea impactului activității (A3)	A3.1	S1 + S2	10	50	10	50
	A3.2	N5	5	10	5	10
	A3.3	C	10	25	10	25

unde:
P 1 = P1.1 + P1.2 + P1.3 + P1.4; P2 = P2.1 + P2.2;
N1 = N1.1 + N1.2; N2 = N2.1 + N2.2 + N2.3; N3 = N3.1 + N3.2;
N4 = N4.1 + N4.2 + N4.3 + N4.4.

Domeniul de activitate		Indicatori	Condiții minime profesor	Punctaj îndeplinit
„Activitate didactică și profesională” (DID-A1)	A 1.1. Manual, suport de curs	N1	2	**3**
		N1.1.	1	**2**
		N.1.3.	1	**10**
	A 1.2. Material didactic, dezvoltare de laboratoare/aplicații	N 2.	4	**6**
		N 2.1.	2	**3**
„Activitate de cercetare științifică” (CDI A2)	A 2.1. + A 2.3. Articole și publicații științifice indexate web of science (WOS)+Brevete și invenții indexate	P1 + P2	10	***10,62***
		P1	6	***10,62***
		P2		***0***
	A 2.2. Articole și publicații BDI neincluse la A.2.1.	N3.	10	**10**
		N3.1.	5	**5**
	A 2.4.+A 2.5. Produse, tehnologii, platforme inovative+ Monografii/carti de specialitate	N4.	2	**4**
		N4.3	1	**1**

Domeniul de activitate		Indicatori	Condiții minime profesor	Punctaj îndeplinit
Recunoașterea și impactul activității" (RIA-A3)	A 3.1. Atragere resurse financiare prin granturi/proiecte/contracte terți	S1+S2	50	**234.764**
	A 3.2. Prezentarea/Diseminarea rezultatelor, prezență la manifestări științifice în calitate de autor/co-autor de lucrări, profesor invitat	N5	10	**10**
	A 3.3. Citări în publicații BDI (se exclud autocitările)	C	25	**375,149**

Data: 01.11.2024

Candidat,
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Fișa de verificare a criteriului

„Activitate didactică și profesională" (DID - A1)

Standarde minimale pentru domeniile științifice "Inginerie mecanică, mecatronică și robotică"

Criteriul DID „Activitate didactică și profesională" (DID - A1)

Manuale, suport de curs conform fișei de concurs	A 1.1.	Format tipărit/electronic, min. 100 pag.	Coordonator/ Prim autor	N 1.1. = număr
			Co-autor	N 1.2. = număr
		Format electronic disponibil pe platforma universității / departamentului/ autor		N 1.3. = număr
Material didactic/dezvoltare laboratoare/aplicații	A 1.2.	Standuri laborator (construcție/modernizări certificate de directorul de departament		N 2.1. = număr
		Îndrumar laborator, carte/aplicații, format tipărit sau electronic, (autor/co-autor)		N 2.2. = număr
		Aplicatie informatică educațională		N 2.3. = număr

DID -A1.1.

Nr. crt.	**Manuale, suport de curs conform fișei de concurs**	Punctaj
	A 1.1.	
1 A 1.1.	**Costiuc L.** (2013) ***Termotehnică și mașini termice- suport de curs*** - format electronic- Ed. Universității Transilvania din Brașov, ISBN:978-606-19-0330-6, NrPagini: 275 Link... **https://drive.unitbv.ro/s/8Ez86HaoPCJSGzY**	N 1.1.=1
2 A 1.1	**Costiuc L.**, Ungureanu V.B (2014) ***Mecanica fluidelor-Fluid mechanics - suport de curs bilingv*** - format electronic- Ed. Universității Transilvania din Brașov ISBN:978-606-19-0492-1, NrPagini: 553 **Link...https://drive.unitbv.ro/s/HY9cntgA2YxmrKA**	N 1.1.=1
3 A 1.1.	**Costiuc L.** (2013-2018) ***Informatică aplicată - suport de curs*** pentru ID-FR anul I- format electronic, ISBN:978-973-598-593-6, nr. pag. 75, **Link . https://drive.unitbv.ro/s/WL3zxRFTKkLGMyc**	N 1.3.=1
4 A 1.1.	**Costiuc L.** (2013) ***Programarea calculatoarelor și limbaje de programare - suport de curs*** pentru ID-FR anul I - format electronic- ISBN:978-973-598-593-6, nr. pag. 152, **Link ... https://drive.unitbv.ro/s/ekcDHLALw4ZXJX3**	N 1.3.=1
5 A 1.1.	**Costiuc L.**, Ungureanu V.B. (2015) ***Termotehnică și mașini termice- suport de curs*** pentru ID-FR anul III - format electronic- ISBN:978-973-598-593-6, NrPagini: 164 **Link ... https://drive.unitbv.ro/s/sBLY68Nby3DmN3t**	N 1.3.=1
6 A 1.1.	**Costiuc L.** (2015) ***Schimb de căldură și masă - suport de curs*** pentru ID-FR anul IV - format electronic- ISBN:978-973-598-593-6, NrPagini: 158 **Link ... https://drive.unitbv.ro/s/SkR6okm46atWWSb**	N 1.3.=1

7 A 1.1.	Ungureanu V.B. **L.Costiuc**, Țârulescu R.(2015) ***Mecanica fluidelor-Curs și lucrări aplicative - suport de curs și aplicații*** - format electronic- Ed. Universității Transilvania din Brașov, ISBN:978-606-19-0696-3, NrPagini:402 **Link...** https://drive.unitbv.ro/s/QPAqsReNJqs7YKd	N 1.2.=1
8 A 1.1.	**Costiuc L**. (2018) ***Termotehnică și mașini termice- suport de curs*** e-Learning pentru IF- facultatea SIM, PS: ISI+IS, anul II - format electronic- NrPagini: 180 **Link...** https://drive.unitbv.ro/s/g3ZDdLKXqaweFe2	N 1.3.=1
9 A 1.1.	**Costiuc L**. (2018) ***Termotehnică - suport de curs*** e-Learning pentru IF- facultatea DPM, PS: DI+IPMI+ISER, anul II - format electronic- NrPagini: 175 **Link...** https://drive.unitbv.ro/s/Db9TqS9srLeSKgA	N 1.3.=1
10 A 1.1.	**Costiuc L**. (2018) ***Termotehnică și mașini termice- suport de curs*** e-Learning pentru IF- facultatea IM, PS:AR, anul III - format electronic- NrPagini: 275 **Link...** https://drive.unitbv.ro/s/WwMmk2joyPaCA67	N 1.3.=1
11 A 1.1.	**Costiuc L**. (2018) ***Fenomene de transfer - suport de curs*** e-Learning pentru IF- facultatea AT, PS:IPA+CEPA, anul II - format electronic- NrPagini: 170 **Link...** https://drive.unitbv.ro/s/Mpaj6C3b4HBwXf2	N 1.3.=1
12 A 1.1.	**Costiuc L**. (2018) ***Acționări pneumatice și hidraulice - suport de curs*** e-Learning pentru IF- facultatea IM, PS:IM, IM-FR, anul III - format electronic- NrPagini: 125 **Link...** https://drive.unitbv.ro/s/oHf4cZmHGMmSfe9	N 1.3.=1
13 A 1.1.	**Costiuc L**. (2018) ***Termodinamică aplicată - suport de curs*** e-Learning pentru IF- facultatea IM, PS:IM, anul IV - format electronic- NrPagini: 170 **Link...** https://drive.unitbv.ro/s/9Ed8eLZ8qRyLtps	N 1.3.=1
		N.1.1.= 2; N.1.2.= 1, N.1.3.= 10 ***TOTAL A.1.1. N1= 3***

A.1.2. DID

Material didactic/dezvoltare laboratoare/aplicații		
1 A 1.2.	**Costiuc L.** (2015) **Transmiterea căldurii în bare – Laboratorul de Termotehnică** **Link...** https://drive.unitbv.ro/s/ZNGxe4snaPEcLMg	N 2.1.=1
2 A 1.2.	**Costiuc L.** (2010) **:Proprietățile termodinamice ale aerului umed – Laboratorul de Termotehnică, Link**... https://drive.unitbv.ro/s/ZNGxe4snaPEcLMg	N 2.1.=1
3 A 1.2.	**Costiuc L.** (2008) **: Puterea calorica a combustibilor solizi– Laboratorul de Termotehnică, Link...** https://drive.unitbv.ro/s/ZNGxe4snaPEcLMg	N 2.1.=1

4 A 1.2	**Costiuc L.**, Costiuc I. (2001) ***Termotehnică şi maşini termice, Culegere de probleme,*** Ed.Evrika, Brăila, publ.ZIGOTTO Galați(cod CNCSIS 262), ISBN:973-8052-59-9, nr. pag.100 **Link...** **https://drive.unitbv.ro/s/4bababqbGZzbjM3f**	N 2.2.=1
5 A 1.2	V.B. Ungureanu, Gh.Băcanu, D. Şova, V.Sandu, **L.Costiuc** (2010) ***Termodinamică. Aplicații practice / Thermodynamics. Practical works, suport bilingv*** - format electronic- Ed. Universității Transilvania din Brașov, ISBN: 978-973-598-832-6, NrPagini: 404 **Link...** **https://drive.unitbv.ro/s/QPAqsReNJqs7YKd**	N 2.2.=1
6 A 1.2	Şova M., **Costiuc L.**, Șova D., ş.a. , (2004) ***Lucrări practice de termotehnică, mașini și instalații termice*** - format tipărit- Universitatea Tranilvania Braşov, NrPagini: 127 **Link...** **https://drive.unitbv.ro/s/QPAqsReNJqs7YKd**	N 2.2.=1
7 A 1.2.	Ungureanu V.B. **L.Costiuc**, Țârulescu R.(2015) ***Mecanica fluidelor-Curs și lucrări aplicative - suport de curs și aplicații*** - format electronic- Ed. Universității Transilvania din Brașov, ISBN:978-606-19-0696-3, NrPagini:402 **Link...** **https://drive.unitbv.ro/s/QPAqsReNJqs7YKd**	N 2.2.=1
	N2.1= 3; N2.2= 4, ***Total A.1.2***	***N2= 7***

A.1.2. DID

Criteriu		Indicatori	Condiții minime profesor	Punctaj îndeplinit
Activitatea didactică și profesională **A1**	A 1.1.	N1	2	**3**
		N1.1.	1	**2**
		N.1.3.	1	**10**
	A 1.2.	N 2.	4	**7**
		N 2.1.	2	**3**

Se poate constata faptul că în punctajul pentru criteriul „Activitatea didactică/profesională**" (A1), în conformitate cu prevederile Anexei nr. 6129/2016 la Ordinul Ministrului, îmi permit să apreciez că CRITERIUL DE EVALUARE A1 ESTE ÎNDEPLINIT.**

Data: 01.11.2024

Candidat,
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Fișa de verificare a criteriului
„Activitate de cercetare științifică" (CDI-A2)

Standarde minimale pentru domeniile științifice "Inginerie mecanică, mecatronică și robotică":

Criteriul CDI „Activitate de cercetare științifică" (CDI A2)

Articole și publicații științifice indexate WOS, unde n este nr. autori; FI este factorul de impact	A 2.1.	Autor corespondent/prim autor	n< 3	P 1.1.= 2*(0,2+FI)
			n>4	P 1.2.= 2*3*(0,2+FI)/n
		Co-autor	n< 3	P 1.3.= 0.2+FI
			N>4	P 1.4.= 3*(0,2+FI)/n
Articole și publicații științifice BDI neincluse la A 2.1.	A 2.2.	Autor corespondent/prim autor		N 3.1. = număr
		Co-autor		N 3.2. = număr
Brevete invenții indexate	A 2.3.	Internationale indexate WOS - Derwent Innovation		P 2.1 =același calcul cu A2.1. cu FI=2
		Naționale indexate OSIM		P 2.2 =același calcul cu A2.1. cu FI=0,5
Produse, tehnologii, platforme și servicii inovative (validate conform procedurilor specifice unităților de învățământ sau de cercetare)	A 2.4.	Coordonator/Prim autor		N 4.1. = număr
		Co-autor		N 4.2. = număr
Monografii, cărți de specialitate tipărite sau format electronic (min. 100 pag)	A 2.5.	Coordonator/Prim autor		N 4.3. = număr
		Co-autor		N 4.4. = număr

A 2.1. CDI-ART WOS

Nr. crt.	Titlul articolului	Punctaj
A 2.1. articole publicate în reviste cotate WOS		
Articole tip P1.1.		
1. P1.1.	Costiuc I., Chiru A., **Costiuc L.(autor correspondent)**, A Review of Engine's Performance When Supercharging by a PressureWave Supercharger, Energies, 2022, **15(8),** 2721, https://doi.org/10.3390/en15082721, (IF-2021=3.252, SRI-2020=0.598), https://www.mdpi.com/1996-1073/15/8/2721	**P1.1=2*(0.2+3.252)= 6.904**
	Total P1.1	**6.904**
2. P1.4.	Balteș L., **Costiuc L.**, Pațachia S., Țierean H.M., Differential Scanning Calorimetry as a tool for determination of morphological features of the recycled polypropylene, Journal of Thermal Analysis and Calorimetry, **138**, 2399-2408 (2019) issn:1388-6150, (IF-2021=4.755, Q1, SRI-2020=0.876), DOI: 10.1007/s10973-019-08679-7, WOS:000499703500004, https://link.springer.com/article/10.1007/s10973-019-08679-7	**P.1.4=3*(0.2+4.755)/4 = 3.716**
	Total P1.4.	**3.716**
P.1.1=6.904, P.1.2=0.0, P.1.3=0.0, P.1.4=3.716 TOTAL A 2.1= 10.62 puncte (100% realizate în ultimii 5 ani, 2018-2023)		

A 2.2. CDI-ART BDI

Articole și publicații științifice BDI neincluse la A 2.1. (WOS și SCOPUS)		
Articole A2.2, tip N3.1.		
1 A 2.2.	**Costiuc L.,** M. Tierean, L. Baltes, S. Patachia, *Research on the Heat of Combustion of the Plastic Waste Materials*, Environmental Engineering & Management Journal, **14**(6), (2015), pp.1295-1302, BDI:Web of Science, FI-2015=1,334/SRI-2020=0,165, **WOS:000360500200007**, http://www.eemj.icpm.tuiasi.ro/pdfs/vol14/no6/7_1025_Costiuc_14.pdf	1
2 A 2.2.	**Costiuc L.,** L. Baltes, S. Patachia, M. Tierean, A. Lunguleasa, *Influence of reprocessing by melt-mixing and thermo-formation of polyolefin fractions, separated from wastes, on their calorific power,* Bulgarian Chemical Communications **50** (2018), pp.165-171, ISSN:0324-1130, BDI:**SCOPUS,** http://www.bcc.bas.bg/bcc_volumes/Volume_50_Special_G_2018/50G_PD_165-171.24.pdf	1
3 A 2.2.	Arădău D., **Costiuc L.(autor correspondent)**, *Optimization of the Refrigeration Machinery using R152a,* 1996 Proceedings International Conference: Research, Design and Construction of Refrigeration and Air Conditioning Equipments in Eastern Eupean Countries. MEETING of IIR COMMISSIONS B1, B2, E1 and E2, ISSN:0151-1637, BDI:Web of Science, **WOS:A1996BH97C00019**, **https://drive.unitbv.ro/s/JCS7x8CszfMqyAX**	1
4 A 2.2.	Bodolan C.**, Costiuc L.(autor corespondent),** Brătucu C., *A Theorethical Mathematical Model For Energy Balance In Greenhouses*, Bulletin of the Transilvania University of Braşov, Series II: Forestry - Wood Industry -Agricultural Food Engineering, Vol. 8 (57)–2015, pp.69-76, ISSN: 2065-2143, BDI:**SCOPUS**, **https://drive.unitbv.ro/s/9WTge3GkzxPzw5f**	1
5 A 2.2.	**Costiuc L.,** Popa, V., Şerban, A., Lunguleasa, A., Tierean, H.M., *Investigation on Heat of Combustion of Waste Materials*, Recent Advances in Urban Planning, Cultural Sustainability and Green Development, Int. Conf. on Urban Sustainability, Cultural Sustainability, Green Dev. Green Structures and Clean Cars, USCUDAR 2010, pp.165-168, ISSN: 1792-4781, BDI:**SCOPUS**, **Link ... https://drive.unitbv.ro/s/eE5Aje8AZxAJ3nB**	1
	Articole A2.2 **Total N.3.1.**	**5**

Articole A 2.2., tip N3.2.		
1 A2.2.	Popa, V., Serban, A., **Costiuc L.,** titlu:, *MicroCCHP System for a Detached Building with a Stirling Engine Like Prime Mover*: The Cooling Subsystem Analysis, revista:Recent Advances in Urban Planning, Cultural Sustainability and Green Development, Int. Conf. on Urban Sustainability, Cultural Sustainability, Green Dev. Green Structures and Clean Cars, USCUDAR 2010, pp.137-142, ISSN:1792-4781, BDI:**SCOPUS**, **Link... https://drive.unitbv.ro/s/R4xR9nYNcwpE99g**	1
2 A2.2.	Bodolan C.**, Costiuc L.,** Brătucu C., *Greenhouse Energy Management Simulation Model*, revista:Bulletin of the Transilvania University of Braşov, Series II: Forestry - Wood Industry - Agricultural Food Engineering, Vol. **9**(58) – 2016, pp. 51-58, ISSN: 2065-2135, BDI:**SCOPUS**, **https://drive.unitbv.ro/s/KxDLwL6JeqASwwi**	1
3 A2.2.	Popa V, **Costiuc L.,** Cuzic M., *Theoretical Study And Performance Analysis Of An Adsorption Chiller*, Book Series: Congres International du Froid-International Congress of Refrigeration, Volume: 23, Pages: 1123-1130, ISBN: 978-2-913-149-89-2, AnAparitie:2011, BDI:Web of Science , **WOS:000310485800151**, **https://drive.unitbv.ro/s/f6PNgdkeqPyHGdd**	1

4 A 2.2.	Panait T., Gheorghiu C, Uzuneanu K, **Costiuc L.,** *Thermo-economic criteria of energetical marine plants optimal design*, ECOS-2000 Proceedings, Volume 1, 2000, pages 199-204, ISBN: 90-36514-66-5, BDI: **WOS:000171764500013**, https://drive.unitbv.ro/s/PsAaaxdPsfPmyex	1
5 A 2.2.	Georgescu, S.V., Coşereanu, C., Fotin, A., Brenci, L.M., **Costiuc, L.,** *Experimental thermal characterization of timber frame exterior wall using reed strains as heat insulation materials*, Journal of Thermal Analysis and Calorimetry, AnAparitie:2019, BDI:Web of Science, FI-2021=4,755, Q1, SRI-2020=0,876 https://doi.org/10.1007/s10973-019-08325-2	1
6 A2.2.	Mazilu A, Costiuc L., NUMERICAL MODELLING OF HEAT TRANSFER IN ENGINE EXHAUST MANIFOLDS, Bulletin of the Transilvania University of Braşov, Vol.15(64) No.2, 2022 https://webbut.unitbv.ro/index.php/Series_I/article/view/5020 DOI:10.31926/but.ens.2022.15.64.2.3	1
	Articole A2.2 **Total N3.2.**	**6**
	N3.1=5; **N3.2=6,** **Total A.2.2: N3.1+N3.2= 11 puncte** ***(27% realizate în ultimii 5 ani, 2018-2023)***	

A 2.5. CDI-MON

Nr. crt.	**Titlul monografiei** (prim autor) ***tip N 4.3.***	Punctaj
1 A 2.5.	**Costiuc L.,** Costiuc I., titlu: **Poluarea mediului exterior**, Editura: Evrika, Brăila, publ. ZIGOTTO Galați (cod CNCSIS 262), ISBN:973-8052-59-9, AnAparitie:2001, NrAutori:2, TotalNrPagini:154, **Link...** **https://drive.unitbv.ro/s/f8sMFCA6XAdDegR**	1
	Titlul monografiei (co-autor) ***tip N 4.4.***	
2 A 2.5.	Mureșan M., Mihalcea M., Șerbănoiu N., Ungureanu V.B., **Costiuc L.,** titlu: **Utilizarea energiei solare,** editura Universității Transilvania Braşov, ISBN:978-973-635-748-0, AnAparitie:2006, NrAutori:5, TotalNrPagini:350, **Link...** **https://drive.unitbv.ro/s/QPAqsReNJqs7YKd**	1
2 A 2.5.	Lunguleasa A, Pațachia S., **Costiuc L.,** Ciobanu V., titlu: **Combustia ecologica a biomasei lemnoase,** editura: Transilvania University Press, isbn:978-973-598-194-5, AnAparitie:2007, NrAutori:4, TotalNrPagini:134, **Link...** **https://drive.unitbv.ro/s/QPAqsReNJqs7YKd**	1
2 A 2.5.	Lunguleasa A, **Costiuc L.,** Ciobanu V., titlu: **Ecological combustion of wooden biomass**, editura: Transilvania University Press, ISBN:978-973-598-384-0, AnAparitie:2008, NrAutori:3 TotalNrPagini:105, **Link...** **https://drive.unitbv.ro/s/QPAqsReNJqs7YKd**	1
	N 4.3.= 1 **N 4.4.= 3** **Total puncte CDI-MON: N 4 = 4**	

Domeniul de activitate		**Indicatori**	**Condiții minime profesor**	**Punctaj îndeplinit**
„Activitate de cercetare științifică"	A 2.1. + A 2.3. Articole și publicații științifice indexate web of science	P1 + P2	10	***10,62***

(CDI A2)	(WOS)+Brevete și invenții indexate	P1	6	***10,62***
		P2	-	***0***
	A 2.2. Articole și publicații BDI neincluse la A.2.1.	N3.	10	**10**
		N3.1.	5	**5**
	A 2.4. + A 2.5. Produse, tehnologii, platforme inovative+ Monografii/carti de specialitate	N4.	2	**4**
		N4.3	1	**1**

Se poate constata faptul că în punctajul pentru criteriul „Activitate de cercetare științifică" (A2), în conformitate cu prevederile Anexei nr. 6129/2016 la Ordinul Ministrului, îmi permit să apreciez că CRITERIUL DE EVALUARE A2 ESTE ÎNDEPLINIT.

Data: 01.11.2024

Candidat,
Conf. univ. dr. ing. COSTIUC Liviu

Fișa de verificare a criteriului

„Recunoașterea și impactul activității" (RIA - A3)

Standarde minimale pentru domeniile științifice "Inginerie mecanică, mecatronică și robotică":

Criteriul RIA „Recunoașterea și impactul activității" (RIA A3)

Atragere resurse financiare prin proiecte/granturi/contracte cu terți	A 3.1.	Director sau responsabil partener la grant/proiect câștigat prin competiție națională sau internațională	S1 [6] = sumă echivalentă în mii euro
		Membru în echipă la grant/proiect câștigat prin competiție națională sau internațională, proiecte/contracte cu terți	S2[7] = sumă echivalentă în mii euro
Prezentarea /Diseminarea rezultatelor:prezentate la manifestări științifice, în calitate de autor, co-autor la lucrări, profesor invitat	A 3.2.	Congrese/conferințe/workshop-uri internaționale, profesor invitat la universități/institute din străinătate	N 5 = număr
Citări în publicații BDI (se exclud autocitările)	A 3.3.	C1 - număr de citări SIF- suma factorilor de impact al publicațiilor WOS în care apar citările	C=C1+ SIF

RIA - Proiecte contracte A 3.1.

Nr. crt.	**Proiecte/granturi/contracte cu terți**	Punctaj
	A 3.1. Director sau responsabil partener la grant/proiect	
1 A 3.1.	NrContract: **POSDRU/22/2.1/G/40291, manager de proiect** titlu: *Facilitarea inserției pe piața muncii a studenților cu program de studiu în inginerie mecanică. Practica studentilor*, perioada:2010-2012, finantator: FSE POSDRU, NrAniDerulare:2, SumaFSE: 557100 lei, SumaUniv.încasată = 132768 lei, **S1**=132768/4,5/1000=**29,504,** **poz.6** din https://drive.unitbv.ro/s/RoXADyoAZYRdzYA	S1=29,504
2 A 3.1.	titlu: *Calcul de optimizare sistem de refrigerare,* perioada:2018, finantator: TATA Techologies, NrContract: **UTBv nr. 8771/12.07.2018**, NrAniDerulare:1 , Suma = 2220 EUR	S1=2,22
		Total S1:31,724
	A 3.1. Membru în echipă la grant/proiect	
3 A 3.1.	titlu: *Tehnologie ecologică de folosire eficientă și durabilă a biomasei lemnoase ca material combustibil regenerabil în vederea creării unei noi viziuni în domeniu*, perioada:2007-2008, finantator: CNCSIS 6GR, NrContract: **CNCSIS nr.945/2007,** Suma: 143000 lei, **S2**=132768/3,5/1000=**40,86**	S2= 40,86
4 A 3.1.	titlu: *Modelarea şi optimizarea proceselor din instalații termoenergetice navale pe baza unor criterii termoeconomice*, perioada:2000-2001, finantator: CNCSIS, NrContract: **CNCSIS nr.863/2000,** Suma= 10012,15 lei	S2= 0,5
5 A 3.1.	titlu: *Modelarea şi optimizarea proceselor din instalații termoenergetice navale pe baza unor criterii termoeconomice*, perioada:1999-2000, finantator: CNCSIS NrContract**:**	S2= 0,62

	CNCSIS nr.287/1999, NrAniDerulare:1, Suma= 12261 lei	
6 A 3.1.	titlu: *Cercetarea instalaților frigorifice cu comprimare mecanică de vapori cu agenți ecologici. Caracteristici dinamice de funcționare ale instalațiilor frigorifice cu comprimare mecanică de vapori cu agenți ecologici*, perioada:1999-2000, finantator: CNCSIS, NrContract: **CNCSIS nr.285, 1999,** NrAniDerulare:1, Suma=7000 lei	S2= 0,37
7 A 3.1.	titlu: *Cercetarea instalaților frigorifice cu comprimare mecanică de vapori cu agenți ecologici. Caracteristici statice de funcționare*, perioada:1998-1999, finantator: CNCSU, NrContract: **CNCSU nr.223, 1998,** NrAniDerulare:1 , Suma=7000 lei	S2= 0,37
8 A 3.1.	titlu: *Cercetarea instalațiilor frigorifice cu compresie mecanică de vapori cu agenți ecologici-Optimizarea termodinamică*, perioada:1997-1998, finantator: CNCSU, NrContract: **CNCSU nr.256, 1997,** NrAniDerulare:1, Suma=8000 lei	S2= 0,4
9 A 3.1.	titlu: *Cercetarea instalațiilor frigorifice cu compresie mecanică de vapori cu agenți ecologici-Termodinamica agenților ecologici și ciclurilor frigorifice*, perioada:1996-1997, finantator: CNSCU, NrContract: **CNSCU nr.1154, 1996,** NrAniDerulare:1, Suma=9000 lei	S2= 0,45
10 A 3.1.	titlu: Cofinantarea proiectului *Magnetic Sorting and Ultrasound Sensor Technologies for production of High Purity Secondary polyolefins from Waste*, 2012, finantator: Capacitati-cofinantare PC7, NrContract:**152EU/2012,** NrAniDerulare:1, Suma=23068 lei, **S2**=23608/4,5/1000=**29,504, https://drive.unitbv.ro/s/2W59FjyTwKP98EM**	S2= 5,25
11 A 3.1.	titlu: Grant international FP 7, "Magnetic Sorting and Ultrasound Sensor Technologies of Higth Purity Secondary Polyolefins from Waste", acronim W2Plastics, Nr 212782, Research area: ENV-2007-3.1.3-02, perioada:2008-2013, finantator: UE NrContract: **W2Plastics, Nr 212782** NrAniDerulare:5 , Suma = 139840,00 EUR, **https://drive.unitbv.ro/s/FtbrPZ2Z94n2jeF**	S2= 139,84
12 A 3.1.	titlu: *Monitorizarea variatiei puterii calorice a gazului metan*, perioada:2010, finantator: Terti, NrContract **UTBv nr.7517/08.06.2010,** Suma = 54729,88 lei **S2**=54729,88/4,5/1000=**12,16**	S2= 12,16
		Total S2 = 203,04
		S 1=31,724 *S 2=203,040* ***TOTAL A.3.1. = 234.764 puncte***

A.3.2. RIA - Conferințe/Congrese

Prezentarea/Diseminarea rezultatelor: prezentă la manifestări stiintifice (congrese/conferinte/workshopuri internationale) în calitate de autor/co-autor de lucrări, profesor invitat la universități/institute din străinătate		
1	**Source:** 1996 Proceedings International Compressor Engineering Conference at Purdue **Paper:** Friction Power in Sliding Vane Type Rotary Compressors **Author(s):** Arădău D., **Costiuc L.** **Publication date:** 1996 **Paper no.:**1357 https://docs.lib.purdue.edu/icec/1357/	N5=1
2	**Source:** 3th Conference on Ammonia Refrigeration Technology. Proceedings: Ohrid, North Macedonia, May 7-9, 2009.	N5=1

	Paper: Study of cooling production with a combined power and cooling thermodynamic cycle. **Author(s) :** Popa V., **Costiuc L.** **Publication date:** 2009/05/07 **Paper no.**: 1546 https://iifiir.org/en/fridoc/study-of-cooling-production-with-a-combined-power-and-cooling-26147	
3	**Source:** Proceedings of 1996 International Conference: Research, Design and Construction of Refrigeration and Air Conditioning Equipments in Eastern Eupean Countries. MEETING of IIR COMMISSIONS B1, B2, E1 and E2. **Paper** Optimization of the refrigeration machinery using R152a. **Author(s) :** Arădău D., **Costiuc L**. **Publication date:** 1996/09/10 https://iifiir.org/en/fridoc/optimization-of-the-refrigeration-machinery-using-r152a-15054	N5=1
4	**Source:** Proceedings of the 23rd IIR International Congress of Refrigeration: Prague, Czech Republic, August 21-26, 2011. Overarching theme: Refrigeration for Sustainable Development, ISBN 978-2-913-149-89-2. **Paper:** Theoretical study and performance analysis of an adsorption chiller. **Author(s) :** Popa V., **Costiuc L**., Cuzic M. **Publication date:** 2011/08/21 **Paper ID**: 319 https://iifiir.org/en/fridoc/theoretical-study-and-performance-analysis-of-an-adsorption-chiller-28173	N5=1
5	**Source:** The 12th European Symposium on Thermal Analysis and Calorimetry (ESTAC12), 27th and 30th of August 2018 in Brasov, Romania. **Paper:** Calorimetric Investigations on Raw and Reprocessed Plastic Wastes **Author(s): Costiuc L**., Balteș L., Pațachia S., Țierean M.H., Lunguleasa A. **Publication date:** 2018 **Paper ID**: PS2.139 https://www.unitbv.ro/en/research/scientific-events/scientific-events-2018/3759-estac12-12th-european-symposium-on-thermal-analysis-and-calorimetry-en.html	N5=1
6	**Source:** The 26th International Conference on Solid Waste Technology and Management, Philadelphia, PA U.S.A. March 27-30, 2011. **Paper:** Investigation on Energy Density of Plastic Waste Materials **Author(s): Costiuc L**., Balteș L., Pațachia S., Țierean M.H. **Publication date:** 2011 http://cemmlab.webhost.uic.edu/GSR-waste2011.pdf http://solid-waste.org/past-conferences-and-proceedings/proceedings/2011-2/	N5=1
7	**Source:** IOP Conference Series: Materials Science and Engineering, Volume 1220, The XXXI-st SIAR International Congress of Automotive and Transport Engineering Automotive and Integrated Transport Systems (AITS 2021), 28th-30th October 2021, Chisinau, Republic of Moldova perioada:2021 CoefM:Congress **Paper:** Numerical investigation of a pressure wave supercharger **Author(s) :** Costiuc I., **Costiuc L**. **Publication date:**2022 https://iopscience.iop.org/article/10.1088/1757-899X/1220/1/012023	N5=1

8	**Source:** IOP Conference Series: Materials Science and Engineering, Volume 1138, International Conference Civil Engineering and Building Services (CIBv 2020) 5th-6th November 2020, Brașov, Romania, http://cibv.unitbv.ro/ **Paper:** Freezing water simulations in isochoric systems – preliminary analysis IOP Conference Series: Materials Science and Engineering, Volume 1138, 2021 **Author(s) :** G A Beşchea, Ş I Câmpean, L M Scutaru, **L Costiuc** and A Şerban **Publication date**: 2021 **Paper ID**: 2021 *IOP Conf. Ser.: Mater. Sci. Eng.* **1138** 012003 https://iopscience.iop.org/article/10.1088/1757-899X/1138/1/012003/meta	N5=1
9	**Source:** International Conference on Urban Sustainability, Cultural Sustainability, Green Development Green Structures and Clean Cars, USCUDAR 2010, Malta, September 15-17, 2010. **Paper:** Investigation on Heat of Combustion of Waste Materials **Author(s): Costiuc, L.**, Popa, V., Şerban, A., Lunguleasa, A., Tierean, H.M. **Publication date**: 2010 In Recent Advances in Urban Planning, Cultural Sustainability and Green Development, pp.165-168 issn:1792-4781, https://drive.unitbv.ro/s/4GHLxnW9Q8ySqTn	N5=1
10	**Source:** International Conference „ECOIMPULS 2013 - Environmental Research and Technology" Nov. 7-8, 2013 – Politehnica University of Timisoara, Regional Business Center Timisoara, Romani **Paper:** Research on the Heat of Combustion of the Plastic Waste Materials **Author(s): Costiuc L.**, Țierean M.H., Pațachia S., Balteș L. **Publication date**: 2013 https://drive.unitbv.ro/s/H5jMnWztRqssZ6o	N5=1
		Total A.3.2 N5=10 puncte

A 3.3. RIA-Citări

Citări în publicații BDI (se exclud autocitările)			
Articol-1	**ISSN**	**FI**	**∑FI**
articol citat Aradau D., **Costiuc L.**, 1996. Friction power in sliding vane type rotary compressors. In: *Proceedings of Purdue Compressor Engineering Conference*, 907-912, 1996. http://docs.lib.purdue.edu/icec/1357/			**42.628**
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International Journal of Refrigeration, **131**, November 2021, Pages 592-603, https://doi.org/10.1016/j.ijrefrig.2021.08.004, **FI-2021=4.14**			
15. Wei ChongChoo, Kim TiowOoi, Analysis of the novel multi-vane Revolving Vane compressor – Investigation of vane chattering phenomenon through instantaneous working chamber pressure measurements, International Journal of Refrigeration, **Volume 134**, February 2022, Pages 207-218, https://doi.org/10.1016/j.ijrefrig.2021.11.020, **FI-2021=4.14**	0140-7007	4.140	
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18. N.A. Raykovskiy, G.I. Chernov, V.S. Evdokimov, A.M. Kalashnikov Omsk State Technical University, Omsk, 644050, Russia * , D. Kh. Sadvakasov, Power loss analysis in a new oil-free rotary vane compressor: Experimental investigation and mathematical modeling, **International Journal of Refrigeration, Volume 160, April 2024, Pages 298-311,** https://www.sciencedirect.com/science/article/pii/S0140700724000367	0140-7007	3.500	
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C=C1+ SIF=18+1.334+71,035		**90,369**	

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C=C1+ SIF=7+27,462		**34,462**	

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	∑FI	13.700	
C=C1+ SIF=4+3,2+13,70		**20,900**	

Articol-6	ISSN	FI	∑FI
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C=C1+ SIF=4,755+32,90		**37,655**	

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	∑FI	**52.249**	
C=C1+ SIF=12+4.755+52,249		**69,004**	

Total puncte RIA-CIT, A3.3 **C=60,628+62,131+90,369+34,462++20,9+37,655+69,004**
C=375.149
(la data înscrierii în concursul de abilitare)

Criteriu		Indicatori	Condiții minime profesor	Punctaj îndeplinit
Recunoașterea și impactul activității" (A3)	A 3.1.	S1+S2	50	**234.764**
	A 3.2.	N5	10	**10**
	A 3.3.	C	25	**375,149**

Se poate constata faptul că în punctajul pentru criteriul „Recunoașterea și impactul activității" (RIA A3) , în conformitate cu prevederile Anexei nr. 6129/2016 la Ordinul Ministrului, îmi permit să apreciez că CRITERIUL DE EVALUARE A3 ESTE ÎNDEPLINIT.

Data: 01.11.2024

Candidat,

Conf. univ. dr. ing. COSTIUC Liviu