

FIȘA DE ÎNDEPLINIRE A STANDARDELOR MINIMALE OBLIGATORII PENTRU OBTINEREA ABILITĂRII - INGINERIE MECANICĂ, MECATRONICĂ ȘI ROBOTICĂ

dr. ing. Cristian Ștefan DUMITRIU

A1. Activitatea didactică și profesională – DID

A 1.1 Manuale suport de curs	Format tipărit/ electronic (min 100p)	N1.1. • C. Ș. Dumitriu , A. Bărbulescu, Știința materialelor. Suport de curs pentru învățământul superior, Editura Sitech, Craiova, 2022, 110 p. (ISBN 978-606-11-8122-3)	1
		N1.2. • A. Bărbulescu, C. Ș. Dumitriu , <i>Bazele statistice ale Teoriei Fiabilității</i> , Editura Sitech, Craiova, 2022, 146 pag. (ISBN 978-606-11-8120-9).	1
	Format electronic disponibil pe platforma universității	N1.3. • C. Ș. Dumitriu , Hidraulică. Note de curs.	1
A 1.2 Material didactic/ Dezvoltare laboratoare, aplicații	Standuri laborator certificate de directorul de departament	N2.1. • stand privind studiul la impact cu suprafețe înclinate • stand pentru verificarea și calibrarea traductorilor tensometrici	2
	Aplicație informatică educațională	N2.3. • Două aplicații – una în VBA și una GA - pentru Linear Nesting (două articole publicate, dintre care unul ISI) • Aplicație în VBA - Freeboard calculus (articol publicat) • Aplicație în Matlab - Climate Analyser (articol ISI publicat) • Aplicație în VBA pentru calculul normei de irigație	5

A2. Activitatea de cercetare științifică, dezvoltare tehnologică și inovare - CDI

A2.1	P1.1. Autor corespondent/prim autor (n≤3)	Total	49,636
Articole și publicații științifice indexate	• A. Bărbulescu, L. Barbeș, C. Ș. Dumitriu* , Computer-aided methods for molecular classifications, <i>Mathematics</i> , 10(9) , 2022, 1543, https://doi.org/10.3390/math10091543 FI 2,258	2*2,458	4,916
	• A. Bărbulescu, C. Ș. Dumitriu* , On the Connection between the GEP Performances and the Time Series Properties, <i>Mathematics</i> , 9(16) , 2021, 1853, https://doi.org/10.3390/math9161853 FI 2,258	2*2,458	4,916

WOS	A. Bărbulescu, C. Ș. Dumitriu*, Modeling the Voltage Produced by Ultrasound in Seawater by Stochastic and Artificial Intelligence Methods, <i>Sensors</i>, 22(3), 2022, 1089, https://doi.org/10.3390/s22031089 FI 3,576	2*3,776	7,552
	C. Șerban, C. Ș. Dumitriu*, A. Bărbulescu, Solving Single Nesting Problem Using a Genetic Algorithm, <i>Analele Științifice ale Universității Ovidius din Constanța, Matematică</i>, 30(2), 2022, 259-272; DOI:0.2478/auom-2022-0029 FI 1,045	2*1,245	2,490
	A. Bărbulescu, C. Ș. Dumitriu*, N. Popescu-Bodorin, Assessing Atmospheric Pollution and Its Impact on the Human Health, <i>Atmosphere</i>, 13, 2022 FI 2,686	2*2,886	5,772
	A. Bărbulescu, L. Barbeș, C. Ș. Dumitriu*, Impact of soil pollution on melliferous plants, <i>Toxics</i>, 10, 2022, 239; https://doi.org/10.3390/toxics10050239 FI 4,146	2*4,346	8,692
	A. Bărbulescu, L. Barbeș, C. Ș. Dumitriu*, Assessing the water pollution of the Brahmaputra River using water quality indexes, <i>Toxics</i>, 9(11), 2021, 297; https://doi.org/10.3390/toxics9110297 FI 4,146	2*4,346	8,692
	A. Bărbulescu, C. Ș. Dumitriu*, Assessing the water quality by statistical methods, <i>Water</i>, 13(8), 2021, 1026, https://doi.org/10.3390/w1308102 FI 3,103	2*3,303	6,606
	P1.2 Autor corespondent/prim autor (n≥4)	Total	10,338
	Al-Taani, Y. Nazzal, F. Howari, J. Iqbal, N. Bou-Orm, C. M. Xavier, A. Bărbulescu, M. Sharma, C. Ș. Dumitriu*, Contamination Assessment of Heavy Metals in Agricultural Soil, in the Liwa Area (UAE), <i>Toxics</i>, 9(3), 2021, 53, https://doi.org/10.3390/toxics9030053 FI 4,146	6*4,346/9	2,897
	M. Mihăilescu, A. Negrea, M. Ciopec, P. Negrea, N. Duțeanu, I. Grozav, P. Svera, C. Vancea, A. Bărbulescu, C. Ș. Dumitriu*, Full factorial design for gold recovery from industrial solutions, <i>Toxics</i>, 9(5), 2021, 111, https://doi.org/10.3390/toxics9050111 FI 4,146	6*4,346/10	2,607
	Y. H. Nazzal, A. Bărbulescu, F. Howari, A. A. Al-Taani, J. Iqbal, C. M. Xavier, M. Sharma, C. Ș. Dumitriu*, Assessment of metals concentrations in soils of Abu Dhabi Emirate using pollution indices and multivariate statistics, <i>Toxics</i>, 9(5), 2021, 95, https://doi.org/10.3390/toxics9050095 FI 4,146	6*4,346/8	3,260
	Y. Nazzal, N. Bou Orm, A. Bărbulescu, F. Howari, M. Sharma, A. Badawi, A. A. Al-Taani, J. Iqbal, F. El Ktaibi, C. M. Xavier, C. Ș. Dumitriu*, Study of atmospheric pollution and the health risk assessment A case study for Sharjah and Ajman Emirates (UAE), <i>Atmosphere</i>, 12, 2021, 1442, https://doi.org/10.3390/atmos12111442 FI 2,686	6*2,886/11	1,574
	P1.3 Coautor (n≤3)	Total	2,906
	A. Bărbulescu, L. Barbeș, C. Ș. Dumitriu, Computer-aided classification of new psychoactive substances, <i>Journal of Chemistry</i>, vol. 2021, Art. ID 4816970, 11 pag. https://doi.org/10.1155/2021/4816970 FI 2,506		2,706
	F. Postolache, C. Ș. Dumitriu, Reshaping the LMS IT Architecture and Educators Methodology through		0,200

	Blended Learning Approach, 2021 13th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 2021, pp. 1-6, doi:10.1109/ECAI52376.2021.9515134 WOS		
A2.2 Articole și publicații științifice BDI	N3.1 – Autor corespondent/prim autor		6
	• C. Ș. Dumitriu, F. Dragomir, Modeling the signals collected in cavitation field by stochastic and Artificial intelligence methods, 2021 13th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 2021, pp.1-4, doi:10.1109/ECAI52376.2021.9515016. WOS • C. Șerban, A. Bărbulescu, C. Ș. Dumitriu*, A new GA-IDW approach for interpolating the precipitation, WRE2021, 1-4 Nov.2021, IOP Conference Series: Earth and Environmental Science, 958, 2022, 012006, doi:10.1088/1755-1315/958/1/012006. WOS • F. Aonofriesei, A. Bărbulescu, C. Ș. Dumitriu*, Statistical analysis of morphological parameters of microbial aggregates in the activated sludge from a wastewater treatment plant for improving its performances, Romanian Journal of Physics, 66(7-8), 2021, 809. WOS - FI 1.888 Q3 • A. Bărbulescu, C. Ș. Dumitriu*, C. Maftei, On the Probable Maximum Precipitation method, Romanian Journal of Physics, 67, 2022, 801. WOS - FI 1.888 Q3 • A. Bărbulescu, C. Ș. Dumitriu*, I. Ilie, S.-B. Barbeș. Influence of Anomalies on the Models for Nitrogen Oxides and Ozone Series, Atmosphere, 13, 2022, 558, https://doi.org/10.3390/atmos13040558. WOS - FI 2.686 Q3 • A. Bărbulescu, L. Barbeș, C.S. Dumitriu*, Study of the additives for polymeric materials by Cheminformatics methods, IOP Conference Series: Materials Science and Engineering, 1242, 2022, 12003, doi:10.1088/1757-899X/1242/1/012003. SCOPUS		
	N.3.2 – Coautor		6
	• A. Bărbulescu, C. S. Dumitriu, ARIMA and Wavelet-ARIMA Models for the Signal Produced by Ultrasound in Diesel, 2021 25th International Conference on System Theory, Control and Computing (ICSTCC), 2021, pp. 671-676, doi:10.1109/ICSTCC52150.2021.9607321. WOS • A. Bărbulescu, C. Ș. Dumitriu, Assessing the Fractal Characteristics of Signals in Ultrasound Cavitation, 2021 25th International Conference on System Theory, Control and Computing (ICSTCC), 2021, pp. 677-681, doi:10.1109/ICSTCC52150.2021.9607168. WOS • A. Bărbulescu, C. Ș. Dumitriu, F. Dragomir, Detecting Aberrant Values and Their Influence on the Time Series Forecast, 2021 International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME), 2021, pp.1-5, doi:10.1109/ICECCME52200.2021.9591085. WOS • A. Bărbulescu, L. Barbeș, C. Ș. Dumitriu, Statistical Assessment of the Water Quality Using Water Quality Indicators - Case study from India, in Water Safety, Security and Sustainability. Advanced Sciences and Technologies for Security Applications, A. Vaseashta, C. Maftei (eds.), Springer, 2021, pp. 599-613, https://doi.org/10.1007/978-3-030-76008-3_26. (ISBN 978-3-030-76007-6). WOS		

	A. Bărbulescu, F. Postolache, C. Ș. Dumitriu, Estimating the precipitation amount at regional scale using a new tool, <i>Climate Analyzer, Hydrology</i>, 8(3), 2021, 125, https://doi.org/10.3390/hydrology8030125 WOS F. Dragomir, C. S. Dumitriu, A. Bărbulescu, Recommendation systems - modeling abusive clauses in e-commerce, <i>2021 International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME)</i>, 2021, doi:10.1109/ICECCME52200.2021.9590828 WOS		
A2.3.	P2.2 Brevete de naționale invenții indexate OSIM	Total	2,100
Brevete de naționale invenții	C.S. Dumitriu, Patent no RO 118409-B (30.05.2003) Dispozitiv de masurat pescajul FI=0,5 A. Bărbulescu, V. Mârza, C. Ș. Dumitriu, Patent no RO 123086-B1 (30.09.2010), Installation and method for measuring and determining the effects produced by cavitation in ultrasound field in stationary and circulating media (FI=0,5)	2(0,2+0,5) 0,2+0,5	1,400 0,700
A2.5.	N4.3 Coordonator/prim autor		
Monografii specialitate	C. Ș. Dumitriu, A. Bărbulescu, <i>Studii privind alajele cu bază de cupru folosite în construcțiile de nave – Modelarea pierderilor de masă în diferite medii</i>, Sitech, Craiova, 2007, 137 pag (ISBN 978-873-746-660-0).		
	N4.4 Coautor		
	L. Barbeș, C. Ș. Dumitriu, <i>Polymeric Composite Materials</i>, Lambert Academic Publishing, 2021, 140 pag. (ISBN 978-620-4-19941-2).		

A3. Recunoașterea și impactul activității – RRIA

P2.2	Responsabil proiect cercetare pentru Partenerul 3 (SC Utilnavorep SA)
Atragerea de resurse financiare prin granturi/proiecte/contracte terți	➤ Contract: 21-001/14.09.2007 - <i>Centrală electrică hidropneumatică acționată de valuri</i>. Finanțare: Buget de Stat – Autoritatea Națională pentru Cercetare Științifică. Program: 4 - Parteneriate în domeniile prioritare. Direcția de cercetare: 2 – Energie. Perioada de derulare: 14.09.2007 - 14.09.2009. Contractor: INCDIE ICPE-CA (Director de proiect: Gheorghe Samoilescu) ➤ Contract: 22-001/2011 - <i>Simulare numerică și interpretare date experimentale obținute pe CHPV</i>. Finanțare: Buget de Stat – Autoritatea Națională pentru Cercetare Științifică. Program: 4 - Parteneriate în domeniile prioritare. Direcția de cercetare: 2 – Energie. Perioada derulare 2010 – 2011 (finalizat la data de 30.11.2011) Valoarea totală a celor doua contracte pentru Partenerul 3, SC Utilnavorep, a fost de 750000 lei = 223 880 euro (1 euro = 3,35 lei la 1 oct. 2007) Manager proiecte câștigate prin licitație cu parteneri industriali ➤ Contract nr. 34429/12.2004: <i>Șalupe maritime portuare</i> (licitație publică). Beneficiar: C.N. Administrația Porturilor Maritime S.A., Constanța. Valoare: 4.412.520 lei fără TVA = 1.152.084 euro fără TVA (1 euro = 3,83 lei la 1 dec. 2004) ➤ Contract nr. 57/10.2007: <i>Ponton Bac Motor Tehnologic</i> (licitație publică). Beneficiar: C. N. „Transelectrica” S.A. București, Suc. Constanța. Valoare: 149.980 lei fără TVA = 44.776 euro fără TVA (1 euro = 3,35 lei la 1 oct. 2007)

	➤ Contract nr. 359/11.2008: <i>Navă de măsurători topohidrografice pe canalele Dunăre – Marea Neagră și Poarta Alba – Midia Năvodari, inclusiv proiectare</i> (licitație publică). Beneficiar: C. N. Administrația Canalelor Navigabile S.A., Constanța. Valoare: 3.073.153 lei fără TVA = 835.096 euro fără TVA (1 euro = 3,68 lei la 1 nov. 2008) ➤ Contract nr. 1601/04.2021- în desfășurare. Acord - cadru de prestare de <i>Servicii de mentenanță preventivă și mentenanță corectivă pentru echipamente și instalații din ecluze, stații de pompare și galerii de ape mari</i> (licitație publică). Beneficiar: C.N. Administrația Canalelor Navigabile S.A., Constanța. Valoare estimată pe 4 ani: 37.046.110 lei fără TVA. Contract subsecvent pe anul I: 1606/06.2021, valoare: 4.109.985 lei fără TVA = 835.860 lei (1 euro = 4.92 lei al 2 iunie 2021) ➤ Contract nr. 955/2013 – în desfășurare: <i>Proiectare și execuție – Modernizare ecluze. Echipamente și instalații</i> (licitație publică). Beneficiar: C. N. Administrația Canalelor Navigabile S.A., Constanța. Finanțat în cadrul programului Operațional în cadrul Programului Operațional Infrastructură Mare, cod SMIS2014+121106 (finalizare 31.12.2021). Valoare partener SC Utilnavorep SA: confidențial – Manager proiect din 10/2020 ➤ Acord Contractual nr. 955/2013: <i>Proiectare și execuție - Modernizare ecluze echipamente și instalații</i>, cod proiect SMIS2014+121106 - Asistență tehnică din partea proiectantului SC HIDROTIM SA Timișoara. Membru proiect cercetare ➤ Grant CNCSIS 902/2007, 2008 – <i>Studii privind materialele metalice folosite în construcțiile de nave - Modelarea pierderilor de masă în diferite medii</i> (director proiect Alina Barbulescu) - 81570 lei (24.350 euro, la curs de 1 euro = 3.35lei la 1 oct 2007).
Prezentarea/diseminarea rezultatelor: prezența la manifestări științifice în calitate de autor/co-autor	1. 6th Balkan Conference on Operational Research, Tessaloniki, 22 – 25.05.2002 – Articol publicat în Proceedings ➤ C. Ș. Dumitriu, A. Bărbulescu, <i>Freeboard program development</i>, T4B2, 9p. 2. Pannonia Applied Mathematical Meetings, Constanța, Romania, 2002 Articol publicat ➤ A. Bărbulescu, C. Maftai, C.S. Dumitriu, The modeling of the climatic process that participates at the sizing of an irrigation system, <i>Bull. for Applied & Computer Mathematics (CII-2048)</i>, Technical University of Budapest, 2002, pp. 11 – 20 (ISSN 0133 – 3526) 3. The 7th Balkan Conference on Operational Research, Constanța, 25 - 28.05.2005 – Articol publicat in Proceedings (ISBN 973 – 8303 – 69 – 9) ➤ C. Ș. Dumitriu, A. Bărbulescu, <i>A method for the single direction nesting computation</i> 4. Workshop on Fractal Analysis, September, 11 - 17, 2005, in Stockhausen/Eisenach (Germany), https://users.fmi.uni-jena.de/~cfa/cfa-p.shtml. 5. Conference on Dynamical Systems and Applications, 5—10 July 2004, Antalya, Turkey – Articol publicat: ➤ N. Costea, C. Ș. Dumitriu, Considerations on the Study of the Errors in the Mathematical Model of the Lag Propagation, 2004 - <i>Dynamical Systems and Applications</i>, H. Akca, V. Covachev, A. Boucherif, A (eds.), GBS Publishers & Distributors (India), Delhi, 2004, pp. 273 -281 (ISBN 81-89476-00-9) 6. Theodor Angheluță 2004 - Cluj-Napoca, The 9th International Conference on Applied Mathematics and Computer Science,

Universitatea Tehnică din Cluj-Napoca, Baisoara, 3 – 6 iunie 2004 -- Articol publicat:

- A. Bărbulescu, **C. Ș. Dumitriu**, On the freeboard calculus, *Automation, Computers, Applied Mathematics*, vol.13, no.3, 2004, pp. 13 – 20.

7. Mathematical Modelling of Environmental and Life Sciences Problems, 4th Workshop, Sept. 2005, Constanța, Romania -- Articol publicat:

- A. Bărbulescu, **C. Ș. Dumitriu**, *Mathematical aspects of the study of the cavitation in liquids*, in Series on Mathematical Modelling of Environmental and Life Sciences Problems, Proceedings of the 4th Workshop, Sept. 2005, Constanța, Romania, S. Ion, G. Marinoshi, C. Popa (eds.), Editura Academiei Române, București, 2006, pp. 7-15.

8. Anniversary Symposium "INCEMC – 10 years of existence ", 19 - 20 April 2007, Timișoara, Romania - Articol publicat:

- A. Bărbulescu, **C. Ș. Dumitriu**, Models of the mass loss of some copper alloys, *Chem. Bull. Politehnica University (Timișoara)*, vol. 52 (66), 1-2, 2007, pp. 120-123

9. 13th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 01 July - 03 July 2021, Pitești, Romania, 2021 (ECAI 2021) - Articolele publicate:

- **C. Ș. Dumitriu**, F. Dragomir, Modeling the signals collected in cavitation field by stochastic and Artificial intelligence methods, *2021 13th International Conference on Electronics, Computers and Artificial Intelligence (ECAI)*, 2021, pp. 1-4, doi: 10.1109/ECAI52376.2021.9515016.
- F. Postolache, **C. Ș. Dumitriu**, Reshaping the LMS IT Architecture and Educators Methodology through Blended Learning Approach, *2021 13th International Conference on Electronics, Computers and Artificial Intelligence (ECAI)*, 2021, pp. 1-6, doi: 10.1109/ECAI52376.2021.9515134

10. 25th International Conference on System Theory, Control and Computing, Iasi, Romania, October 20-23, 2021, ICSTCC 2021.

Articolele publicate:

- A. Bărbulescu, **C. S. Dumitriu**, ARIMA and Wavelet-ARIMA Models for the Signal Produced by Ultrasound in Diesel, *2021 25th International Conference on System Theory, Control and Computing (ICSTCC)*, 2021, pp. 671-676, doi: [10.1109/ICSTCC52150.2021.9607321](https://doi.org/10.1109/ICSTCC52150.2021.9607321).WOS
- A. Bărbulescu, **C. Ș. Dumitriu**, Assessing the Fractal Characteristics of Signals in Ultrasound Cavitation, *2021 25th International Conference on System Theory, Control and Computing (ICSTCC)*, 2021, pp. 677-681, doi: [10.1109/ICSTCC52150.2021.9607168](https://doi.org/10.1109/ICSTCC52150.2021.9607168).

11. Conferința Internațională *Present Issues of Global Global Economy* (PIGE), Editia a XVIII, 1-3 iulie 2021, Constanta. Romania -

Articolele publicate:

- A. Bărbulescu, **C. Ș. Dumitriu**, Markov Switching Model for Financial Time Series, *Ovidius University Annals, Economic Sciences Series*, vol. XXI, Issue 1, 2021, pp. 193-198.
- A. Bărbulescu, **C. Ș. Dumitriu**, Artificial intelligence models for financial time series, *Ovidius University Annals, Economic*

	Sciences Series, vol. XXI, Issue 1, 2021, pp.685-690. 12. International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME 2021) - Articole publicate: ➤ A. Bărbulescu, C. Ș. Dumitriu, F. Dragomir, Detecting Aberrant Values and Their Influence on the Time Series Forecast, 2021 <i>International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME)</i>, 2021, pp.1-5, doi:0.1109/ICECCME52200.2021.9591085 ➤ F. Dragomir, C. S. Dumitriu, A. Bărbulescu, Recommendation systems - modeling abusive clauses in e-commerce, 2021 <i>International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME)</i>, 2021, doi:10.1109/ICECCME52200.2021.9590828 13. The 7th International Conference on Water Resource and Environment (WRE 2021), 1-4 November 2021, online - Articol publicat: ➤ C. Șerban, A. Bărbulescu, C. Ș. Dumitriu, A new GA-IDW approach for interpolating the precipitation, WRE2021, 1-4 Nov. 2021, <i>IOP Conference Series: Earth and Environmental Science</i>, 958, 2022, 012006, doi:10.1088/1755-1315/958/1/012006. 14. CIBV 2021 – 4-5 November 2021, online - https://cibv.unitbv.ro/program ➤ A. Bărbulescu, C. Ș. Dumitriu, Monthly precipitation field generation. Case study ➤ A. Bărbulescu, C. Ș. Dumitriu, On the mass loss of some materials in special conditions 15. Conferința internațională "Global Economy Under Crisis" (GEUC), Ediția a X-a Data: 16-17 decembrie 2021, Constanța, Romania - Articol publicat: ➤ A. Bărbulescu, C. Ș. Dumitriu, Statistical Analysis of the Impact of Application of the European Union Rules on the Number of Death from Traffic Accidents and the CO Pollution, "Ovidius" University Annals, Economic Sciences Series, vol.XXI, Issue 2/ 2021, pp. 64-70.	
Citări în publicații BDI	Articol citat	Articol care citează
	A. Al-Taani, Y. Nazzal, F. Howari, J. Iqbal, N. Bou-Orm, C. M. Xavier, A. Bărbulescu, M. Sharma, C. Ș. Dumitriu , Contamination Assessment of Heavy Metals in Agricultural Soil, in the Liwa Area (UAE), <i>Toxics</i> , 9(3) , 2021,53, https://doi.org/10.3390/toxics9030053	• W.W.M. Emam, K.M. Soliman, Geospatial analysis, source identification, contamination status, ecological and health risk assessment of heavy metals in agricultural soils from Qallin city, Egypt. <i>Stochastic Environmental Research and Risk Assessment</i>, 2021, https://doi.org/10.1007/s00477-021-02097-8. FI 3,379
		• M. H. Kabir, M. H. Rashid, Q. Wang, W. Wang, S. Lu, S. Yonemochi, Determination of Heavy Metal Contamination and Pollution Indices of Roadside Dust in Dhaka City, Bangladesh, <i>Processes</i>, 9(10), 2021, 1732. https://doi.org/10.3390/pr9101732. FI 2,847
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Condiții minime și obligatorii

Domeniul de activitate		Indicatori	Obligatorii	Realizați
ACTIVITATEA DIDACTICĂ/ PROFESIONALĂ (A1)	A1.1	N1	2	2
		N1.1	1	1
		N1.3	1	1
	A1.2	N2	4	7
		N2.1.	2	2
ACTIVITATEA DE CERCETARE (A2)	A2.1 + A2.3	P1+P2	10	64,980
		P1	6	59,974
	A2.2	N3	10	12
		N3.1	5	6
	A2.4 + A2.5	N4	2	2
		N4.3	1	1
RECUNOAȘTEREA IMPACTULUI ACTIVITĂȚII (A3)	A3.1	S1+S2	50	3.116,046
	A3.2	N5	10	15
	A3.3	C	25	235,547

Semnătura,
Dumitriu Cristian Stefan

