

Îndeplinirea standardelor minimale CNATDCU

Criterii CNATDCU – COMISIA INGINERIE INDUSTRIALĂ ȘI MANAGEMENT

Prof. dr. ing. Antal Tiberiu Alexandru

A1 - Activitate didactica si profesionala

A 1.1.1.2	Cărți de specialitate (3 autor unic, 2 coautor)	Punctaj
1.	TIUCĂ, T., PRECUP, T., ANTAL, T. , Dezvoltarea aplicațiilor cu AutoCAD și AutoLISP, Editura Promedia Plus Computers, 1995, p. 303, ISBN 973-96862-2-2.	10.1
2.	ANTAL Tiberiu Alexandru , Limbajul C ANSI, Editura RISOPRINT, 2001, p. 253, ISBN 973-656-065-1.	25.3
3.	ANTAL Tiberiu Alexandru , Visual BASIC pentru ingineri, Editura RISOPRINT, 2003, p.244, ISBN 973-656-514-9.	24.4
4.	ANTAL Tiberiu Alexandru , Proiectarea paginilor Web cu HTML, VBScript și ASP - ediția a II-a, Editura RISOPRINT, 2006, p.264, ISBN 973-751-349-5.	26.4
5.	Adalbert ANTAL, Gheorghe KEREKES, Tiberiu ANTAL , Ovidiu TATARU, Horia GORGOI, Zahnradgetriebe – Transmisii cu roți dințate, 2004, p. 221, UTPRES, ISBN 973-662-142-1.	4.42
A 1.2.1	Manuale didactice (2 autor unic, 2 coautor)	
1.	MARCU, V., ORLANDEA, C., ANTAL, T. , Wordperfect pentru documente tehnice, Editura DACIA, 1994, p. 166, ISBN 973-350520-X.	2.76
2.	MARCU, V., ANTAL, T. , MORAR, S., PLITEA, D., LUPEA, L, BERTEAN, M., Informatică tehnică, volumul I, At. de multiplicare al Univ. Tehnice Cluj-Napoca, 1995, p.321.	2.675
3.	ANTAL Tiberiu Alexandru , Microsoft Access 97 și 2000 în 14 cursuri, Editura Toderesco, 2000, p. 299, ISBN 973-99779-6-0.	14.95
4.	ANTAL Tiberiu Alexandru , Proiectarea paginilor Web cu HTML, VBScript și ASP, Editura RISOPRINT, 2003, p.224, ISBN 973-656-361-8.	11.2
A 1.2.2	Îndrumătoare de laborator (2 autor unic, 2 coautor)	
1.	MARCU, V., ANTAL, T. , BOTA, D., AutoCAD - Îndrumător de laborator, At. de multiplicare al Univ. Tehnice Cluj-Napoca, 1995, p.104.	1.386
2.	MARCU, V., ARGHIR, M., MORAR, S., ANTAL, T. , Informatică tehnică, vol. 1 - Lucrări de laborator, At. de multiplicare al Univ. Tehnice Cluj-Napoca, 1995, p.83.	0.83
3.	ANTAL, T. A. , Elemente de Java cu Jdeveloper - îndrumător de laborator, Editura UTPRES, 2013, p.150, ISBN: 978-973-662-827-6.	6
4.	ANTAL, T. A. , Java - Inițiere - îndrumător de laborator, Editura UTPRES, 2013, p. 246, ISBN: 978-973-662-832-0.	9.84
A 1.4	Dezvoltarea de noi discipline	
1.	Baze de date, titular de curs, în statul de funcții 2006-2007 al Catedrei de Mecanică și Programare, post conf. 11, an 3 secția I.M. (Inginerie Mecanică).	10
2.	Web Design, titular de curs, în statul de funcții 2008-2009 al Catedrei de Mecanică și Programare, post conf. 11, an 5, secția I.M. (Inginerie	10

	Mecanică).	
3.	Limbaje de programare obiectuale, în statul de funcții 2009-2010 al Catedrei de Mecanică și Programare, post conf. 11, an 1, secția Master Roboti.	10
		170.261 (minim 130)

A2 - Activitate de cercetare

A 2.1	Articole în Reviste cotate ISI sau volume indexate ISI Proceedings	Punctaj
1.	ANTAL, T. A. , A new algorithm for helical gear design with addendum modification, MECHANIKA, Nr. 3(77), 2009, Kaunas University of Technology, Vilnius Gediminas Technical University, and the Lithuanian Academy of Sciences, p.53-57, ISSN 1392 - 1207. 2008 Factor impact 0.4 – ISI.	34
2.	ANTAL T. A. , Worm gears with optimized main geometrical parameters and their efficiency, MECHANIKA, Issue: 1, Pages: 62-65, Published: 2010, ISSN: 1392-1207. 2009 Impact Factor 0.780. -ISI	37.8
3.	ANTAL, T .A. , A new algorithm for cylindrical worm gears dimensioning based on the hydrodynamic lubrication conditions between the teeth flanks, MECHANIKA, Issue: 4, Pages: 400-403, Published: 2011, ISSN: 1392-1207. 2010 Impact Factor 1.144 - ISI	41.44
4.	Carmen Anca Huniadi, Ovidiu L. POP, TIBERIU ALEXANDRU ANTAL , Florin Stamatian, The effects of Ulipristal on Bax/Bcl-2, Cytochrome C, Ki-67 and Cyclooxygenase-2 expression in a rat model with surgically induced endometriosis, European Journal of Obstetrics & Gynecology and Reproductive Biology, 2013, PII: S0301-2115(13)00167-X, DOI:10.1016/j.ejogrb.2013.03.022, ISSN: 0301-2115, 2013 Impact Factor: 1.974 – ISI	12.43
5.	ANTAL Tiberiu Alexandru , Addendum modification of spur gears with equalized efficiency at the points where the meshing stars and ends, MECHANIKA, Issue: 6 , Pages: 480-485, DOI: 10.5755/j01.mech.21.6.12480, 2015 (published in 2016), 2014 Impact Factor: 0.292 – ISI.	32.92
6.	ANTAL Tiberiu Alexandru , ANTAL Adalbert, Geometrical dimensions of helical gears with equalized relative velocities at the beginning and the ending of the meshing, Computational Kinematics, Andres Kecskemethy, Andres Muller Editors, Springer-Verlag, 2009, p. 385-392, Springer-Verlag, ISBN 978-3-642-01946-3, Duisburg, Germany, DOI: 10.1007/978-3-642-01947-0. –ISI Pro	12.5
7.	ANTAL Tiberiu Alexandru , Efficiency of crossed helical gears with equalized sliding coefficients, Annals of DAAAM for 2009 & Proceedings of 20th DAAAM International Symposium, Volume 20, No. 1, ISSN 1726-9679, ISBN 978-3-901509-70-4, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, EU, 2009, p. 1017-1018.	25
8.	ANTAL Tiberiu Alexandru , ANTAL Adalbert, A method for the determination of the geometrical dimension of the helical gears with increased lifetime, Published in: Digital Ecosystems and Technologies, 2009. DEST '09. 3rd IEEE International Conference on, Publication Date: 1-3 June 2009, On page(s): 530-533, Location: Istanbul, Turkey, ISBN: 978-1-4244-2345-3, Digital Object Identifier: 10.1109/DEST.2009.5276781. – ISI Pro	12.5
9	ANTAL Tiberiu Alexandru , ANTAL Adalbert, Helical Gear Dimensions in the Case of the Minimal Equalized Specific Sliding, The 10th, IFToMM International Symposium on Science of Mechanisms and Machines, SYROM'09, October 12 - 15, 2009, Braşov, Romania. (in Editura Springer-Verlag GmbH, Editor: Visa Ion, ISBN 978-90-481-3521-9). ISI Pro	12.5

10.	ANTAL Tiberiu Alexandru , ANTAL Adalbert, Determination of the geometrical dimensions of the helical gears with addendum modifications based on the specific sliding equalization model, In: Advanced Techniques in Computing Sciences and Software Engineering, Khaled Elleithy Editors, Springer Netherlands, 2010, 85-90, DOI: 10.1007/978-90-481-3660-5_15. ISI Pro	12.5
A 2.2	Articole în reviste si volume indexate BDI	
1.	Carmen Anca Huniadi, TIBERIU ALEXANDRU ANTAL , Florin Stamatian, The effects of Ulipristal on surgically induced endometriosis in a rat model, Gineco.ro 28 (2/2012).	5
2.	ANTAL Tiberiu Alexandru , ANTAL Adalbert, Cylindrical worm gears with improved main parameters, In: New Trends in Mechanism Science, Analysis and Design, Series: Mechanisms and Machine Science, Vol. 5, D. Pisla et al. (Eds.) Springer Science+Business Media B.V. 2010, p. 625-632.	7.5
3.	Tiberiu Alexandru Antal , Adalbert Antal, Mariana Arghir, Determination of the addendum modification at helical gears, at the points where the meshing starts and ends, based on the relative velocity equalization criterion, Proceedings in Applied Mathematics and Mechanics – WILEY ONLINE LIBRARY - PAMM Journal, Volume 8, Issue 1, p.10965-10966 - December 2008 (10003-10988), Published Online: Feb 26 2009 1:06AM, DOI: 10.1002/pamm.200810965, ISSN: 1617-7061.	5
4.	ANTAL, T .A. , GUI's in JDeveloper, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 52, Vol. IV, 2009, p.27-32, ISSN 1221-5872 (http://journals.indexcopernicus.com/passport.php?id=4755).	15
5.	ANTAL Tiberiu Alexandru , ANTAL Adalbert, The use of genetic algorithms for the design of mechatronic transmissions with improved operating conditions, 3rd International Conference on Human System Interaction May, University of IT and Management in Rzeszow, Poland, 13-15, 2010, IEEE Xplore (http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=5514588&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D5514588).	7.5
6.	ANTAL, T .A. , Programming AutoCAD using JAWIN from Java in JDeveloper, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 53, Vol. III, 2010, p.481-486, ISSN 1221-5872.	15
7.	ANTAL Tiberiu Alexandru , ANTAL Adalbert, A design method of crossed axes helical gears with increase uptime and efficiency, In: New Trends in Mechanism Science, Analysis and Design, Series: Mechanisms and Machine Science, Vol. 5, D. Pisla et al. (Eds.) Springer Science+Business Media B.V. 2010, p. 641-648	7.5
8.	ANTAL, T .A. , Some aspects of graphical process simulation in Visual Basic, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 55, Vol. I, 2012, p.51-56, ISSN 1221-5872.	15
9.	ANTAL, T .A. , A design method of the cylindrical worm gears, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 56, Vol. II, 2013, p.299-302, ISSN 1221-5872	15
10.	Antal T. A. , The power lost by friction, between the teeth flanks, for	15

	cylindrical spur gears, at the points where the meshing stars and ends, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 57, Vol. 1, 2014, p.7-10, ISSN 1221-5872.	
11.	ANTAL, T. A. , Addendum modification of cylindrical spur gears with equalized powers lost by friction between the teeth flanks at the points where the meshing stars and ends, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 57, Vol. 3, 2014, p.329-334, ISSN 1221-5872.	15
12.	ANTAL, T.A. , Programming Canvas X pro 16 using scripting technologies, ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 58, Issue II, 2015, pp.151-156, ISSN 1221-5872. – BDI (http://www.atna-mam.utcluj.ro/index.php/Acta/article/view/532).	15
A 2.3	Articole în reviste/conferințe naționale/internaționale neindexate	
1.	ANTAL, A., ANTAL, T. , A csavarkerekek számítása kiegyenlített relativ csúszásra. Conferință Internațională de Inginerie Mecanică - OGÉT '99 - VII. Országos Gépész Találkozó, Felixfürdő, 1999. április 23-25., p.60-63, ISBN 9739203426.	2
2.	ANTAL, T. A. , Planar mechanism synthesis using genetic algorithms, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics. No. 42, Vol. II, 1999, p.55-60, U. T. PRESS - The Technical University from Cluj-Napoca, Romania, ISSN 1221-5872.	6
3.	ANTAL, A., ANTAL, T. A. , A computer program for the sliding equalizing at the helical gears, The 8-th Symposium on Mechanisms and Mechanical Transmissions - with international participation, p.17-22, 19-22 October 2000, Timișoara, România, ISBN: 973-585-179-2; 973-585-181-4.	2
4.	ANTAL, B., MIKES, I., ANTAL, T. A. , A kúpkerekek fogazása metszőkerékkel, OGÉT '2001 - IX. Országos Gépész Találkozó. Kolozsvár. 2001. április 26-28, p.31-37, ISSN 1454-0746.	1.3
5.	MIKES, I., ANTAL, T. A. , A marási mélység meghatározása ferdefogú evolvens-kúpkerekek esteben. OGÉT '2002 - X. Szekelyudvarhely. 2002. április 25-28, p.195-199, ISSN 1454-0746.	2
6.	ANTAL, B., MIKES, I., ANTAL, T. A. , Kúpkerekek fogazása csigamaróval. OGÉT '2002 - X. Szekelyudvarhely. 2002. április 25-28, p.36-40, ISSN 1454-0746.	1.3
7.	BOJAN, ȘT., ANTAL, T. , TĂTARU, O., BÂRLEANU, C., The determination of the imaginary rack-bar in the case of the spur gearing with curved directrix. Lucrările științifice ale Simpozionului Internațional "Universitaria ROPET 2002" - Inginerie Mecanică 2. 17-19 octombrie 2002, Petroșani, p.249-252, Editura FOCUS, ISBN 973-8435-22-6.	1
8.	ANTAL, A., ANTAL, T. A. , Studiul angrenării unui melc cilindric cu o roată dințată conico-evolventică. PRASIC '02 - Lucrările celui de al VII-lea SIMPOZION NAȚIONAL CU PARTICIPARE INTERNAȚIONALĂ, BRȘAOV, 7-8 noiembrie 2002, Vol. I - Mecanisme și Tribologie, p.249-252, Editura UNIVERSITĂȚII TRANSILVANIA din BRAȘOV, ISBN 973-635-064-9.	2
9.	BOJAN, ȘT., TĂTARU, O., BÂRLEANU, C., ANTAL, T. , The equation of the teeth flanks surfaces of the curved spur wheels determination. PRASIC '02 - Lucrările celui de al VII-lea SIMPOZION NAȚIONAL CU PARTICIPARE INTERNAȚIONALĂ, BRAȘOV, 7-8 noiembrie 2002, Vol. II - Organe de	1

	maşini. Transmisii mecanice, p.261-264, Editura UNIVERSITĂȚII TRANSILVANIA din BRAȘOV, ISBN 973-635-064-9.	
10.	BOJAN, ȘT., ANTAL, T., CĂZILĂ, A., TURCU, I., Determination of the meshing equation at the curved spur wheels generation (processing). PRASIC '02 - Lucrările celui de al VII-lea SIMPOZION NAIONAL CU PARTICIPARE INTERNAȚIONALĂ, BRAȘOV, 7-8 noiembrie 2002, Vol. II - Organe de maşini. Transmisii mecanice, p.251-256, Editura UNIVERSITĂȚII TRANSILVANIA din BRAȘOV, ISBN 973-635-064-9.	1
11.	ANTAL, T. A., Mechanism displacement analysis with AutoLisp in AutoCAD, Series: Applied Mathematics and Mechanics, Nr. 45, 2002, U. T. PRESS - The Technical University form Cluj-Napoca, Romania, p.19-24, ISSN 1221-5872.	6
12.	BOJAN, ȘT., ANTAL, T., TĂTARU, O., TURCU, I., Programme for the determination of the imaginary rack-bar in the case of the spur gearing with curved directrix, Acta Technica Napocensis, Series: Applied Mathematics and Mecanics, Nr. 45, 2002, U. T. PRESS - The Technical University form Cluj-Napoca, Romania, p.135-140, ISSN 1221-5872.	1.5
13.	ANTAL, T. A., The traverse of a tree stored using the relational data model, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 46, Vol. 1, 2003, p.25-30, ISSN 1221-5872.	6
14.	ANTAL, T. A., ASP component for database access developed in Visual BASIC, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 46, Vol. 1, 2003, p.31-40, ISSN 1221-5872.	6
15.	ANTAL, A., ANTAL, T. A., Ferdefogu kupkerekerek fogazasa metszokerekkel / Tothing with wheel-cutter of the helical bevel gears, OGÉT 2003, 11th International Conference in Mechanical Engineering, Cluj, 8-11 May 2003, p. 15-18, ISBN 973-86097-2-0.	2
16.	BOJAN, ȘT., BÎRLEANU, C., SUCALĂ, F., ANTAL, T., Generating the cylindrical gear with curve teeth. Machine tool for this proceeding. MTeM 2003. 6th International Conference Modern Technologies in Manufacturing, Technical University from Cluj-Napoca, 2-4 October 2003, p.57-60, ISBN 973-656-490-8.	1
17.	ANTAL, T. A., Utilization of the relational databases in the storage and retrieval of mechanisms. Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 47, Vol. IV, 2004, p.7-14, ISSN 1221-5872.	6
18.	ANTAL, T. A. , ANTAL B., Worm gears main parameters design algorithm, Revista Műszaki Szemle, 29 szám, p.3-8, 2005, ISSN 1454-0746.	3
19.	ANTAL Tibor Sándor , ANTAL Béla, Program for optimized calculation of the cylindrical worm gears load bearing capacity. 13th International Conference in Mechanical Engineering , OGÉT 2005, Satu Mare, April 28 - May 1, 2005, p. 21-25, ISBN: 973-7840-03-8.	3
20.	ANTAL, T .A. , An object based approach to planar mechanisms simulation, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 48, Vol. I, 2005, p.37-44, ISSN 1221-5872.	6
21.	ANTAL, T .A. , Aspects concerning code reusability in planar mechanisms simulation, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 48, Vol. I, 2005, p.45-50, ISSN 1221-5872.	6

22.	ANTAL, T .A. , Accessing ORACLE data from Microsoft Access using ODBC and ADO, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 48, Vol. IV, 2005, p.235-242, ISSN 1221-5872.	6
23.	ANTAL, T .A. , Data access methods from Visual BASIC to Oracle, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 48, Vol. IV, 2005, p.243-252, ISSN 1221-5872.	6
24.	ANTAL, T. A. , CSIBI, V., Mechanism generation in SolidEdge from Visual Basic, Revista Műszaki Szemle, 32 szám, p.3-8, 2005, ISSN 1454-0746.	3
25.	ANTAL Tibor Sándor , ANTAL Béla. Computational algorithm for the design of the good efficiency wormgears. 14th International Conference in Mechanical Engineering. OGÉT 2006, Tg. Mures, April 27 - 30, 2006, p. 30-33, ISBN(10): 973-7840-10-0.	3
26.	ANTAL, T .A. , Midlet Implementation using Eclipse, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 49, Vol. I, 2006, p.27-36, ISSN 1221-5872.	6
27.	ANTAL, T .A. , Using MathCAD for the sliding equalization, at the points where the gearing starts and ends, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 49, Vol. V, 2006, p.51-56, ISSN 1221-5872.	6
28.	Adalbert ANTAL, Horia GORGOI, Tiberiu Alexandru ANTAL . The generation of the surfaces for the leadscrew with threaded planetary rollers, ADEMS '07 - The 1st International Conference "Advanced Engineering in Mechanical Systems" - Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 50, vol. II, 2006, p.241-244, ISSN 1221-5872.	2
29.	ANTAL, T .A. , An object oriented implementation for the study of the sliding equalization, at the points where the gearing starts and ends, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 50, Vol. I, 2007, p.33-38, ISSN 1221-5872.	6
30.	ANTAL, T .A. , Using Oracle JDeveloper 10g to build a Microsoft Access database Java interface, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 50, Vol. VII, 2007, p.33-38, ISSN 1221-5872.	6
31.	ANTAL Tibor Sándor , ANTAL Béla. The calculus of the sliding coefficients between the teeth surfaces at space meshing gear. 15th International Conference in Mechanical Engineering. XV OGÉT 2007, Kolozsvár, publicată în revista Műszaki Szemle, 38 szám, p.41-44, 2007, ISSN 1454-0746.	3
32.	ANTAL Tiberiu Alexandru , ANTAL Adalbert, A method for choosing the specific addendum modification at helical spur gears, 16th International Conference in Mechanical Engineering, XVI OGÉT 2008, Braşov, publicat în revista Műszaki Szemle, p.32-37, 1-4 mai, 2008, ISSN 1454-0746.	3
33.	ANTAL, T .A. , ANTAL, A., The study of the specific sliding at helical gears for different axle angles with matlab, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 51, Vol. II, 2008, p.51-56, ISSN 1221-5872.	6
34.	ANTAL, T .A. , ANTAL, A., An object oriented model for the study of the specific addendum modifications based on the sliding and relative	6

	velocities equalization at helical gears, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 51, Vol. II, 2008, p.45-50, ISSN 1221-5872.	
A 2.5.1.2	Granturi naționale câștigate prin competiție - Director	
1.	Grant de cercetare AT, numărul 7067 GR/2001 încheiat între MEC prin CNCIS și UTC-N, tema B11, fază unică. MODEL DE DATE CU IMPLEMENTARE PENTRU ANALIZA și SINTEZA MECANISMELOR PRIN ALGORITMI GENETICI. Valoare pe anul 2001: 28.550.000 lei (≈ 1018 Euro la cursul 28000).	2.036
2.	Grant de cercetare A, tema A2, nr. contract 27702/2005. Metodă generală pentru determinarea alunecărilor specifice între flancurile dinților, în cazul angrenajelor. 2005-2007, Valoare totală: 44.000 RON. (≈ 13000 Euro la cursul 36000).	8.66
A 2.5.2.1.	Granturi internaționale câștigate prin competiție – Membru (responsabil IT)	
1.	Proiect internațional de cercetare Elveția – România – Serbia 2011-2014 (Programul Scopes 2009 - 2014): „Creative Alliance in Research and Education focused on Medical and Service Robotics”, IZ74Z0_13736, Scopes International IP Grant, Coordonator Romania: Doina Pîslă (60.000 Euro)	12
A 2.5.2.2.	Granturi naționale câștigate prin competiție - Membru	
1.	Contract de cercetare științifică nr. 5003C/1994, tema B22 intitulat: Analiza mecanică și proiectarea constructivă asistată de calculator a mașinilor textile din fabricația S.C. MAFIR din Cluj-Napoca. Responsabil de contract: Prof. dr. ing. Marcu V.	2
2.	Contract de cercetare nr. 3003/1994, tema C32: Cercetări privind proiectarea tunurilor electronice pentru sudarea cu fascicul de electroni, faza 1/1994. Responsabil de contract: Șef lucrări ing. Tătaru O.	2
3.	Contract de cercetare nr. 3003/1994, tema C30: Studii, cercetări și programe pentru analiza sistemelor și structurilor mecanice, faza 1994. Responsabil de contract: Prof. dr. ing. Marcu V.	2
4.	Contract de cercetare nr. 3003/1994, tema C26: Interfețe specializate pentru comanda asistată de calculator a servomotoarelor electrice, faza 1/1994. Responsabil de contract: Conf. dr. ing. Nagy K.	2
5.	Contract CNSIS nr. 7003/97, fază unică: Studii și cercetări privind angrenajele cu dinți după arc de cicloidă. Director: Prof. dr. ing. ANTAL Adalbert.	2
6.	Contract MEN nr. 33830/99, tema 8/465, fază unică: Studii și cercetări privind geometria și cinematica angrenajelor conice, generate cu freză melc sau cuțit roată. Director: Prof. dr. ing. ANTAL Adalbert	2
7.	Grant numărul 44, cod CNCIS 1208, nr. contract 34970/2001, cu MEC prin CNCIS: Cercetări privind proiectarea angrenajelor interioare utilizând metode moderne de proiectare, rapid prototyping și achiziții de date pentru imagini. Director: Conf. dr. ing. Tătaru Ovidiu	2
8.	Cercetări privind proiectarea angrenajelor interioare utilizând metode moderne de proiectare, rapid prototyping și achiziții de date pentru imagini. - Proiectarea unor angrenaje interioare pentru realizarea lor prin rapid prototyping, contract nr. 33531/2002 cu MEC, Tema 18. Director: Conf. dr. ing. Tătaru Ovidiu	2
9.	Cercetări privind proiectarea angrenajelor interioare utilizând metode	2

	moderne de proiectare, rapid prototyping și achizii de date pentru imagini.- Tehnici moderne în proiectarea angrenajelor, Tema 32, Cod CNC SIS 729 din contractul nr. 33532 din 01.07.2003, beneficiar Ministerul Educației Naționale. Director: Prof. dr. ing. Tătaru Ovidiu.	
10.	Grant cercetare tip A - Analiza și dezvoltarea unor structuri de microroboti cu cinematica paralel și implementarea unor algoritmi de testare a performanțelor acestora, 2005-2007 cod CNC SIS A772. Valoarea încasată pe 2007: 39400 RON. Director: Prof. Dr. Ing. Pîslă Doina Liana.	6
11.	Promovarea cercetărilor și a participării la programe europene în domeniul roboților paraleli cu aplicații în chirurgie, 2006-2008, grant CEE X-M3 nr. 184/2006. Director: Prof. Dr. Ing. Pîslă Doina Liana	4
12.	Sistem computerizat de monitorizare a poluării prin sunete și vibrații în aglomerările urbane, abreviat SICOMSUV, grant CEE X nr. 129/2006. Director: Prof. Dr. Ing. Mariana ARGHIR	2
13.	Grant cercetare tip PN2 11016/2007, 2007-2010, Dezvoltarea multidisciplinară de roboți chirurgicali bazați pe structuri paralele inovative. Director: Prof. Dr. Ing. Pîslă Doina Liana.	6
14.	Concepte moderne conform cu reglementările europene specifice privind ecologia transportului de suprafață, abreviat ECOT, grant CEE X nr. 751/2006. Director: Prof. Dr. Ing. Mariana ARGHIR	2
15.	Proiect de cercetare complex PN II parteneriate derulare 92080/ 2008 – 2011 HEPSIM – Dezvoltarea inovativa a unui sistem virtual pentru e-learning în chirurgia laparoscopica hepatică. Director proiect UTCN, Pîslă Doina	6
		565.886 (minim 230)

A3 - Recunoașterea și impactul activității

A3.1.1	Citări în reviste ISI	Punctaj
1.	<p>A new algorithm for helical gear design with addendum modification</p> <p>Locul citării:</p> <p>2009</p> <p>1. Evaluation of gear power losses from experimental test data and analytical methods Author(s): Lazarz, B.; Wojnar, G.; Madej, H.; et al. Source: MECHANIKA Issue: 6 Pages: 56-63 Published: 2009 2009 Impact Factor: 0.78</p> <p>2010</p> <p>2. Real-time parameter identification for highly coupled nonlinear systems using adaptive particle swarm optimization Author(s): Sahraei, B. Ranjbar; Nemati, A.; Safavi, A. A. Source: MECHANIKA Issue: 6 Pages: 43-49 Published: 2010 2011 Impact Factor: 1.114</p> <p>2012</p> <p>3. Research on genetic algorithm-based rapid design optimization Author(s): Tong Yifei; He Yong; Gong Zhibing; et al. Source: MECHANIKA Issue: 5 Pages: 569-573 DOI: 10.5755/j01.mech.18.5.2700 Published: 2012 2011 Impact Factor: 1.311</p> <p>4. Title: Kinematic modelling of a 5-DOF hybrid parallel robot for laparoscopic surgery Author(s): Pisla, Doina; Gherman, Bogdan; Vaida, Calin; et al. Source: ROBOTICA Volume: 30 Pages: 1095-1107 DOI: 10.1017/S0263574711001299 Part: Part 7 Published: DEC 2012 2012 Impact Factor: 1.032</p>	40
2.	<p>Worm gears with optimized main geometrical parameters and their efficiency</p> <p>Locul citării:</p> <p>2012</p> <p>1. Modeling and diagnostics of vertical axis rotary system driven by multi gear drive Author(s): Barzdaitis, Vytautas; Grigoniene, Jurgita; Mazeika, Pranas; et al. Source: JOURNAL OF VIBROENGINEERING Volume: 14 Issue: 1 Pages: 171-177 Published: MAR 2012 2012 Impact Factor: 0.43</p> <p>2013</p> <p>2. Structural design and kinematics of a new parallel reconfigurable robot Author(s): Plitea, Nicolae; Lese, Dorin; Pisla, Doina; et al.</p>	40

	<p>Source: ROBOTICS AND COMPUTER-INTEGRATED MANUFACTURING Volume: 29 Issue: 1 Pages: 219-235 DOI: 10.1016/j.rcim.2012.06.001 Published: FEB 2013 2013 Impact Factor: 1.173</p> <p>3. Pisla, D., Gherman, B., Vaida, C., Suci, M., Plitea, N., An active hybrid parallel robot for minimally invasive surgery, (2013) Robotics and Computer-Integrated Manufacturing, 29 (4), pp. 203-221. http://www.scopus.com/inward/record.url?eid=2-s2.0-84886774726&partnerID=40&md5=d6ca9923ef8db061fe8b378546e17e04</p> <p>4. Pisla, D., Szilaghyi, A., Vaida, C., Plitea, N. Kinematics and workspace modeling of a new hybrid robot used in minimally invasive surgery (2013) Robotics and Computer-Integrated Manufacturing, 29 (2), pp. 463-474. http://www.scopus.com/inward/record.url?eid=2-s2.0-84868544749&partnerID=40&md5=a38f3643a8a27db0274d5338f5dad4bf</p>	
3.	<p>A new algorithm for cylindrical worm gears dimensioning based on the hydrodynamic lubrication conditions between the teeth flanks</p> <p>Locul citării:</p> <p>2012</p> <p>1. Pisla, D., Gherman, B., Vaida, C., Plitea, N. Kinematic modelling of a 5-DOF hybrid parallel robot for laparoscopic surgery (2012) Robotica, 30 (7), pp. 1095-1107. http://www.scopus.com/inward/record.url?eid=2-s2.0-84860840257&partnerID=40&md5=6f2a9bb475cd148ad729e7d1dd9dc1fb</p> <p>2013</p> <p>2. Pisla, D., Szilaghyi, A., Vaida, C., Plitea, N. Kinematics and workspace modeling of a new hybrid robot used in minimally invasive surgery (2013) Robotics and Computer-Integrated Manufacturing, 29 (2), pp. 463-474. http://www.scopus.com/inward/record.url?eid=2-s2.0-84868544749&partnerID=40&md5=a38f3643a8a27db0274d5338f5dad4bf</p> <p>3. Pisla, D., Gherman, B., Vaida, C., Suci, M., Plitea, N. An active hybrid parallel robot for minimally invasive surgery (2013) Robotics and Computer-Integrated Manufacturing, 29 (4), pp. 203-221. http://www.scopus.com/inward/record.url?eid=2-s2.0-84886774726&partnerID=40&md5=d6ca9923ef8db061fe8b378546e17e04</p> <p>4. Plitea, N., Lese, D., Pisla, D., Vaida, C. Structural design and kinematics of a new parallel reconfigurable robot (2013) Robotics and Computer-Integrated Manufacturing, 29 (1), pp. 219-235. http://www.scopus.com/inward/record.url?eid=2-s2.0-84866363529&partnerID=40&md5=3fc36bf34220915df7f40723fe0e36ad</p>	40

4.	<p>Lucrare citată: Carmen Anca Huniadi, Ovidiu L. POP, TIBERIU ALEXANDRU ANTAL, Florin Stamatian, The effects of Ulipristal on Bax/Bcl-2, Cytochrome C, Ki-67 and Cyclooxygenase-2 expression in a rat model with surgically induced endometriosis, <i>European Journal of Obstetrics & Gynecology and Reproductive Biology</i>, 2013, PII: S0301-2115(13)00167-X, doi:10.1016/j.ejogrb.2013.03.022, ISSN: 0301-2115. (http://www.journals.elsevier.com/european-journal-of-obstetrics-and-gynecology-and-reproductive-biology/), 5-Year Impact Factor: 1.839 - ISI</p> <p>Locul citării:</p> <p>2013</p> <p>1. Whitaker, L.H.R., Williams, A.R.W., Critchley, H.O.D., Selective progesterone receptor modulators, <i>Current Opinion in Obstetrics and Gynecology</i>, 26 (4), pp. 237-242, 2014, ISSN 1040-872X. – ISI, 2013 Impact Factor: 2.370, 2013 5-Year Impact Factor: 2.275.</p> <p>2. Merviel, P., Lourdel, E., Sanguin, S., Gagneur, O., Cabry, R., Nasreddine, A., Interest of selective progesterone receptor modulators in endometriosis [Intérêt actuel des selective progesterone receptor modulators (SPRM) dans l'endomé triose], (2013) <i>Gynecologie Obstetrique Fertilité</i>, 41 (9), pp. 524-528, ISSN: 1297-9589. Impact Factor: 0.581, 5-Year Impact Factor: 0.559 – ISI</p> <p>2014</p> <p>3. Cohen, J., Naoura, I., Castela, M., (...), Darai, E., Aractingi, S., Pregnancy affects morphology of induced endometriotic lesions in a mouse model through alteration of proliferation and angiogenesis, <i>European Journal of Obstetrics Gynecology and Reproductive Biology</i>, Volume 183, 1 December 2014, Pages 70-77. – ISI, 2013 Impact Factor: 1.627, 2013 5-Year, Impact Factor: 1.942</p> <p>4. Chen, Y.-Z., Wang, J.-H., Yan, J., Liang, Y., Zhang, X.-F., Zhou, F. Increased expression of the adult stem cell marker Musashi-1 in the ectopic endometrium of adenomyosis does not correlate with serum estradiol and progesterone levels. (2014) <i>European Journal of Obstetrics Gynecology and Reproductive Biology</i>, 173 (1), pp. 88-93. DOI: 10.1016/j.ejogrb.2013.11.025 – ISI, 2014 Impact Factor: 1.695, 2014 5-Year, Impact Factor: 1.974</p> <p>2015</p> <p>5. Goyeneche, A.A., Telleria, C.M., Antiprogestins in gynecological diseases, (2015) <i>Reproduction</i>, 149 (1), pp. R15-R33, Latest impact factor: 3.262, 5-year impact factor: 3.616 – ISI, SSN 1470-1626 (print); 1741-7899 (online). http://www.reproduction-online.org/</p> <p>6. Quaas, A.M., Weedin, E.A., Hansen, K.R., On-label and off-label drug use in the treatment of endometriosis, (2015), <i>Fertility and Sterility</i>, 103 (3), pp. 612-625. DOI: 10.1016/j.fertnstert.2015.01.006.</p> <p>2016</p>	17.5
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5.	<p>Lucrare citată: ANTAL Tiberiu Alexandru, ANTAL Adalbert, The use of genetic algorithms for the design of mechatronic transmissions with improved operating conditions, 3rd International Conference on Human System Interaction May, University of IT and Management in Rzeszow, Poland, 13-15, 2010, IEEE Xplore (http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=5514588&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D5514588).</p> <p>Locul citării:</p> <p>1. Yue, H.-J., Liu, Y.-F., Ma, M.-Y., Xu, X.-Y., Wang, S.-H. Scheme optimization of AT shifting element based on genetic algorithm (2015) Journal of Central South University, 22 (2), pp. 539-545. DOI: 10.1007/s11771-015-2553-3. ISI – 2014 Journal Impact Factor: 0.520, 2014 5 Year Impact Factor: 0.603.</p>	5
A 3.1.1	Citări în reviste indexate BDI	
1.	<p>Lucrare citată: Visual Basic pentru ingineri.</p> <p>Locul citării:</p> <p>1. METHOD TO DETERMINE THE MINIMAL KINEMATIC STRUCTURES OF THE MACHINING CENTERS Ioan Gheorghe VUȘCAN, Radu Mircea MORARIU-GLIGOR, Ancuța MIRCEA Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 55, Vol. II, 2012, ISSN 1221-5872.</p> <p>2. LOGICIELS AUXILIAIRES A L'ANALYSE ENERGETIQUE DES INSTALLATIONS DE COMBUSTION Cristina Daniela Deac, Radu Mircea Morariu -Gligor, Ioan Biris Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Nr. 53, Vol. I, 2010, ISSN 1221-5872.</p>	10
2.	<p>Lucrare citată: Carmen Anca Huniadi, Ovidiu L. POP, TIBERIU ALEXANDRU ANTAL, Florin Stamatian, The effects of Ulipristal on Bax/Bcl-2, Cytochrome C, Ki-67 and Cyclooxygenase-2 expression in a rat model with surgically induced endometriosis, European Journal of Obstetrics & Gynecology and Reproductive Biology, 2013, PII: S0301-2115(13)00167-X, doi:10.1016/j.ejogrb.2013.03.022, ISSN: 0301-2115. (http://www.journals.elsevier.com/european-journal-of-obstetrics-and-gynecology-and-reproductive-biology/), 5-Year Impact Factor: 1.839 - ISI</p> <p>Locul citării:</p> <p>1. Simpson, P.D., McLaren, J.S., Rymer, J., Morris, E.P., Minimising</p>	1.25

	menopausal side effects whilst treating endometriosis and fibroids (2015) Post reproductive health, 21 (1), pp. 16-23. DOI: 10.1177/2053369114568440 – BDI (http://min.sagepub.com/content/21/1/16.short).	
3.	Lucrare citată: Determination of the addendum modification at helical gears, at the points where the meshing starts and ends, based on the relative velocity equalization criterion Locul citării: 1. Design of Spur Gear and its Tooth profile Mr. A. Gopichand, Prof. A.V.N.L. Sharma, K. Pavan Kumar, K. Sainath, I. Aravind / International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622 www.ijera.com Vol. 2, Issue 2, Mar-Apr 2012, pp.820-827	1.66
4.	Lucrare citată: A new algorithm for cylindrical worm gears dimensioning based on the hydrodynamic lubrication conditions between the teeth flanks Locul citării: 1. Influencia de la lubricación en la eficiencia de engranajes de tornillo sinfín//Influence of oil lubrication on cylindrical worm gear efficiency G González-Rey - Ingeniería Mecánica, 2012 - ingenieriamecanica.cujae.edu.cu http://scielo.sld.cu/scielo.php?pid=S1815-59442013000100002&script=sci_arttext	5
5.	Lucrare citată: Worm gears with optimized main geometrical parameters and their efficiency Locul citării: 1. Influencia de la lubricación en la eficiencia de engranajes de tornillo sinfín//Influence of oil lubrication on cylindrical worm gear efficiency G González-Rey - Ingeniería Mecánica, 2012 - ingenieriamecanica.cujae.edu.cu http://scielo.sld.cu/scielo.php?pid=S1815-59442013000100002&script=sci_arttext	5
6.	Lucrare citată: A new algorithm for cylindrical worm gears dimensioning based on the hydrodynamic lubrication conditions between the teeth flanks Locul citării: 1. Optimal selection of addendum modification coefficients of involute cylindrical gears. Li, X. , Jiang, S., Zeng, Q. Journal of Computers (Finland) Volume 8, Issue 8, 2013, Pages 2156-2161. ISSN: 1796203X. DOI: 10.4304/jcp.8.8.2156-2161. http://ojs.academypublisher.com/index.php/jcp/article/view/jcp080821562161	5
7.	Lucrare citată: A new algorithm for helical gear design with addendum modification.	5

	<p>Locul citării:</p> <p>1. S. Padmanabhan, V. Srinivasa Raman, P. Asokan, Subramaniam Arunachalam, Tom Page, Design optimisation of bevel gear pair, 2011, International Journal of Design Engineering, Volume 4, Issue 4, DOI: 10.1504/IJDE.2011.048133. http://www.inderscienceonline.com/doi/abs/10.1504/IJDE.2011.048133.</p>	
8.	<p>Lucrare citată: Carmen Anca Huniadi, Ovidiu L. POP, TIBERIU ALEXANDRU ANTAL, Florin Stamatian, The effects of Ulipristal on Bax/Bcl-2, Cytochrome C, Ki-67 and Cyclooxygenase-2 expression in a rat model with surgically induced endometriosis, European Journal of Obstetrics & Gynecology and Reproductive Biology, 2013, PII: S0301-2115(13)00167-X, doi:10.1016/j.ejogrb.2013.03.022, ISSN: 0301-2115. (http://www.journals.elsevier.com/european-journal-of-obstetrics-and-gynecology-and-reproductive-biology/), 5-Year Impact Factor: 1.839 - ISI</p> <p>Locul citării:</p> <p>2013</p> <p>1. Thomas, Michael A. "Ulipristal Acetate: Ready for Prime Time?." (2013). http://www.ctcfp.org/wp-content/uploads/September-2013-OB-GYN-Clinical-Alert.pdf</p> <p>2014</p> <p>1. Advances ARID1A gene GPR30 gene in endometriosis "Chinese Journal of Clinical Obstetrics and Gynecology" 2014 6 Tong Zhou Caixia Xiuqin Baotou Medical College, Baotou 014060 Central Hospital of Obstetrics and Gynecology. 周彩霞, and 佟秀琴. "ARID1A 基因与 GPR30 基因在子宫内膜异位症中的研究进展." 中国妇产科临床杂志 6 (2014): 563-566. http://www.cqvip.com/qk/87726x/201406/663062923.html</p> <p>2015</p> <p>1. Establish allogeneic Sprague-Dawley rats endometrial endometriosis animal model. "Chinese Journal of Clinical CHILD (electronic version)" 2015 Section 3 Affiliated Hospital Cui Jinxiu Guzhen Peng Liu Zhihui Li Fangfang Binzhou Medical College 256600. 崔金秀, et al. "同种异体 Sprague-Dawley 大鼠子宫内膜异位症动物模型的建立." 中华妇幼临床医学杂志 (电子版) 11.3 (2015): 94-97. http://www.cqvip.com/qk/88364x/201503/665255792.html</p> <p>2. Blocking MAPK pathway on ectopic endometrial stromal cells NF-κB, Bel-2 and p21 expression. "Guangdong medicine" 2015 Section 6 First Affiliated Hospital of Ho Ying Liu Xiaojuan Wang Hong, Hebei North University, Zhangjiakou, Hebei Obstetrics and Gynecology 075 000. 刘晓娟, 贺英, and 王虹. "阻断 MAPK 信号通路对异位子宫内膜间质细胞 NF-κB, Bel-2 和 p21 表达的影响." 广东医学 36.6 (2015): 865-868.</p>	6.25

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A 3.3	Recenzent pentru manifestări științifice internaționale indexate ISI	
1.	Recenzent conferință internațională indexată ISI - Human System Interactions, 2009.	10
2.	Recenzent conferință internațională indexată ISI – EUCOMES 2010	10
3.	Recenzent conferință internațională indexată ISI - Human System Interactions, 2010.	10
4.	Recenzent conferință internațională indexată ISI - ICSOB 2010.	10
		221.66 (minim 70)

18.IV.2016

Prof. dr. ing. ANTAL Tiberiu Alexandru