FISA DE AUTOEVALUARE

alcătuită în conformitate cu prevederile fişei de evaluare generală a standardelor universităţii, din Anexa 1 din Metodologia de Concurs pentru ocuparea posturilor didactice si de cercetare în Universitatea "Alexandru Ioan Cuza" din Iaşi

CRITERII	DESCRIPTORI	PUNCTAJE ACORDATE
I. ACTIVITATEA DE CERCETARE (70%)	**1.** Articole ştiinţifice publicate *in extenso* în reviste cotate *Web of Science* cu factor de impact	(60 puncte x factor de impact + 25) / număr autori
	2. Articole ştiinţifice publicate *in extenso* în reviste indexate *Web of Science* fără factor de impact	20 puncte / număr autori
	3. Articole ştiinţifice publicate *in extenso* în reviste indexate BDI	15 puncte / număr autori
	4. Articole ştiinţifice publicate *in extenso* în volumele conferinţelor	indexate ISI: 30 puncte / număr autori
		indexate în BDI: 15 puncte / număr autori
		alte categorii: 5 puncte / număr autori
	5. Cărţi ştiinţifice publicate (doar prima ediţie)	edituri academice internaţionale: 100 puncte la 100 pagini / număr autori
		alte edituri internaţionale: 70 puncte la 100 pagini / număr autori
		edituri academice naţionale: 50 puncte la 100 pagini / număr autori
		alte edituri naţionale: 20 puncte la 100 pagini / număr autori
	6. Cărţi ştiinţifice traduse şi publicate în edituri din străinătate	100 puncte la 100 pagini / număr autori
	7. Coordonarea şi editarea de volume, traduceri şi antologii	edituri academice internaţionale: 60 puncte / număr autori
		alte edituri internaţionale: 40 puncte / număr autori
		edituri academice naţionale: 30 puncte / număr autori
		alte edituri naţionale: 15 puncte / număr autori
	8. Articole publicate în dicţionare şi enciclopedii	edituri academice internaţionale: 30 puncte / număr autori
		alte edituri internaţionale: 20 puncte / număr autori
		edituri academice naţionale: 15 puncte / număr autori
		alte edituri naţionale: 5 puncte / număr autori
	9. Contracte de cercetare ştiinţifică în instituţii academice (universităţi, institute ale Academiei Române, institute naţionale de cercetare, institute de cercetare din străinătate, alte	contracte internaţionale – director: 100 puncte pentru fiecare 100.000 Euro
		contracte internaţionale – membru: 100 puncte pentru fiecare 100.000 Euro / numărul membrilor echipei de cercetare

	categorii de institute academice)	contracte naţionale – director: 50 puncte pentru fiecare 500.000 lei
		contracte naţionale – membru: 50 puncte pentru fiecare 500.000 lei /numărul membrilor echipei de cercetare
	10. Contracte de cercetare în mediul de afaceri şi sectorul public	organizaţii internaţionale: 100 puncte pentru fiecare 100.000 Euro
		firme multinaţionale: 100 puncte pentru fiecare 100.000 Euro
		firme naţionale: 50 puncte pentru fiecare 500.000 Euro
		organizaţii administrative naţionale: 40 puncte pentru fiecare 500.000 Euro
		alte organizaţii publice de nivel naţional: 30 puncte pentru fiecare 500.000 Euro
	11. Brevete	internaţionale: 100 puncte / număr de autori
		naţionale: 30 puncte / număr autori
	12. Citări şi recenzii ale lucrărilor ştiinţifice	reviste de specialitate din străinătate: (10 + 20 x factor de impact) / număr autori, pentru fiecare citare
		reviste de specialitate din ţară: (5 + 10 x factor de impact) / număr autori, pentru fiecare citare
		monografii academice din străinătate: 50 puncte / număr autori, pentru fiecare citare
		monografii academice din ţară: 25 puncte / număr autori, pentru fiecare citare
	13. Lucrări susţinute în calitate de invitat la manifestări ştiinţifice (conferinţe, congrese, simpozioane, seminarii şi ateliere de lucru)	străinătate: 25 puncte pentru fiecare activitate
		ţară: 10 puncte pentru fiecare activitate
	14. Profesor/cercetător invitat la universităţi/institute de cercetare	străinătate: 25 puncte pentru fiecare activitate
		ţară: 10 puncte pentru fiecare activitate
	15. Editor/Membru în *Editorial Board* & *Advisory Board*	reviste cotate *Web of Science*: editor, 30 puncte pentru fiecare revistă; membru, 20 puncte pentru fiecare revistă
		reviste internaţionale şi alte reviste ale Universităţii: editor, 15 puncte pentru fiecare revistă; membru, 10 puncte pentru fiecare revistă
	16. Premii internaţionale obţinute printr-un proces de selecţie	100 puncte / categorie / număr persoane
	17. Premii ale Academiei Române	50 puncte / categorie / număr persoane
	18. Alte premii naţionale ale instituţiilor culturale	20 puncte / categorie / număr persoane
	19. Participări la manifestări ştiinţifice	internaţionale: preşedinte comitet organizare/consiliu ştiinţific, 25 puncte pentru fiecare activitate; membru comitet organizare/consiliu ştiinţific, 15 puncte

		pentru fiecare activitate; moderator de panel, 15 puncte pentru fiecare activitate; raportor pe secţiuni/paneluri, 10 puncte pentru fiecare activitate
		naţionale: preşedinte comitet organizare/consiliu ştiinţific, 15 puncte pentru fiecare activitate; membru comitet organizare/consiliu ştiinţific, 5 puncte pentru fiecare activitate; moderator de panel, 5 puncte pentru fiecare activitate; raportor pe secţiuni/paneluri, 2 puncte pentru fiecare activitate
II. ACTIVITATEA DIDACTICĂ (30%)	**1.** Tratate şi manuale universitare	30 puncte la 100 pagini / număr de autori
	2. Proiecte didactice (înfiinţare/dotare laboratoare licenţă, master, săli workshop, biblioteci proprii facultăţilor, departamentelor, laboratoarelor şi grupurilor de cercetare)	40 puncte pentru fiecare activitate
	3. Materiale suport curs, seminar, lucrări practice şi programe analitice detaliate	10 puncte pentru fiecare activitate
	4. Organizare de aplicaţii şi practică de specialitate	5 puncte pentru fiecare activitate

I. ACTIVITATEA DE CERCETARE (70%)

1. Articole ştiinţifice publicate in extenso în reviste cotate Web of Science cu factor de impact

(60 puncte x factor de impact + 25) /număr autori

[1] Dumitru, I; Astefanoaei, I; Cimpoesu, D; Stancu, A, Magnetic behavior of Joule-heated magnetic core-shell nanowires with positive magnetostrictive core material, APPL SURF SCI, vol. 352, pp. 54-59, (2015) 10.1016/J.APSUSC.2015.03.055

autori=4 IF=2.112 UAIC I.1(ISI)=37.930 nr.citari=0 UAIC I.12 (Citari)=0.000

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autori=6 IF=1.826 UAIC I.1(ISI)=22.427 nr.citari=1 UAIC I.12 (Citari)=7.753

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[4] Dumitru, I; Cimpoesu, D; Stancu, A, Measurements on Real and Imaginary Parts of Transverse Susceptibility of Particulate System, IEEE T MAGN, vol. 50(11), art.no. 6101104, (2014) 10.1109/TMAG.2014.2331176
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[5] Durneata, D; Hempelmann, R; Caltun, O; Dumitru, I, High-Frequency Specific Absorption Rate of CoxFe1-xFe2O4 Ferrite Nanoparticles for Hipertermia Applications, IEEE T MAGN, vol. 50(11), art.no. 5201104, (2014) 10.1109/TMAG.2014.2324011
autori=4 IF=1.422 UAIC I.1(ISI)=27.580 nr.citari=0 UAIC I.12 (Citari)=0.000
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[6] Astefanoaei, I; Dumitru, I; Chiriac, H; Stancu, A, Controlling temperature in magnetic hyperthermia with low Curie temperature particles, J APPL PHYS, vol. 115(17), art.no. 17B531, (2014) 10.1063/1.4868709

[6.1] Zorbas, G; Samaras, T, A study of the sink effect by blood vessels in radiofrequency ablation, COMPUT BIOL MED, vol. 57, pp. 182-186, , (2015) 10.1016/J.COMPBIOMED.2014.12.014

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autori=4 IF=2.210 UAIC I.1(ISI)=39.400 nr.citari=1 UAIC I.12 (Citari)=8.310
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IF CITARE: 1.789
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[12] Aldrigo, M; Costanzo, A; Masotti, D; Baldisserri, C; Dumitru, I; Galassi, C, Numerical and experimental characterization of a button-shaped miniaturized UHF antenna on magneto-dielectric substrate, INT J MICROW WIREL T, vol. 5(3), pp. 231-239, (2013) 10.1017/S1759078713000445

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[15.1] Huang, SR; Lin, KF; Don, TM; Chiu, WY; Lin, MF, Fabrication and Characterization of UV-crosslinkable Thermoresponsive Composite Fibers with Magnetic Properties, J POLYM SCI POL CHEM, vol. 53(18), pp. 2152-2162, , (2015) 10.1002/POLA.27684

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[15.2] Panthi, G; Park, M; Kim, HY; Park, SJ, Electrospun polymeric nanofibers encapsulated with nanostructured materials and their applications: A review, J IND ENG CHEM, vol. 24, pp. 1-13, , (2015) 10.1016/J.JIEC.2014.09.011

IF CITARE: 2.145

[15.3] Sangsanoh, P; Supaphol, P, Poly(3-hydroxybutyrate)/magnetite Composite Nanofibers Obtained Via Combined Electrospinning and Ammonia Gas-enhancing In Situ Co-precipitation: Preparation and Potential Use in Biomedical Applications, CHIANG MAI J SCI, vol. 41(3), pp. 676-690, , (2014)

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[15.4] Huang, SR; Lin, KF; Lee, CF; Chiu, WY, Synthesis and Properties of Thermoresponsive Magnetic Polymer Composites and Their Electrospun Nanofibers, J POLYM SCI POL CHEM, vol. 52(6), pp. 848-856, , (2014) 10.1002/POLA.27067

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[15.5] Wei, W; Yue, XG; Zhou, Y; Wang, Y; Chen, Z; Zhu, M; Fang, JY; Jiang, ZH, Novel ternary Fe3O4@polyaniline/polyazomethine/polyetheretherketone crosslinked hybrid membranes: fabrication, thermal properties and electromagnetic behaviours, RSC ADV, vol. 4(22), pp. 11159-11167, , (2014) 10.1039/C3RA47709F

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and PVC/CoFe2O4/CoO Nanofibers Produced by Electrospinning Technique, IEEE T MAGN, vol. 47(11), pp. 4511-4516, (2011) 10.1109/TMAG.2011.2158109

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IF CITARE: 1.148

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autori=3 IF=1.422 UAIC I.1(ISI)=36.773 nr.citari=2 UAIC I.12 (Citari)=51.360

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IF CITARE: 1.604

autori=5 IF=0.516 UAIC I.1(ISI)=11.192 nr.citari=1 UAIC I.12 (Citari)=8.416

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IF CITARE: 0.000

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IF CITARE: 2.107

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IF CITARE: 1.489

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autori=6 IF=3.842 UAIC I.1(ISI)=42.587 nr.citari=10 UAIC I.12 (Citari)=73.803

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autori=2 IF=1.826 UAIC I.1(ISI)=67.280 nr.citari=0 UAIC I.12 (Citari)=0.000

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IF CITARE: 3.767

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IF CITARE: 1.282

autori=3 IF=3.767 UAIC I.1(ISI)=83.673 nr.citari=5 UAIC I.12 (Citari)=87.613

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IMPACT FACTOR TOTAL (TOTI ANII) = 18.967

Punctaj realizat din lucrari publicate in reviste = 1461.072

5. Cărți științifice publicate (doar prima ediție)

edituri academice naționale:
50 puncte la 100 pagini / număr autori

		nr. pagini	nr. autori	punctaj
1	Ovidiu F. Calțun, Virgil Valceanu, Marcel Feder, Mircea Palamaru, Alexandra Iordan, Georgiana Dascalu, Ceatrice NEgulescu, Ioan Dumitru, Horia Chiriac, Nicoleta Lupu, Luminita Hrib, Monica Caldararu, Cornel Minteanu, *Ferite de cobalt magnetostrictive*, ISBN 978-973-034-144, Editura Universității "Al. I. Cuza", Iași, 2009	172	13	6,61

Punctaj realizat din carti stiintifice I.5 = 6,61

9. Contracte de cercetare științifică în instituții academice (universități, institute ale Academiei Române, institute naționale de cercetare, institute de cercetare din străinătate, alte categorii de institute academice)

contracte naționale – director: 50 puncte pentru fiecare 500.000 lei

		Valoare (lei)	punctaj
1	Studiul comportarii in microunde a sistemelor de nanofire magnetic nesaturate - PN-II-RU-TE-2012-3-0449, UEFISCDI, 26/26.04.2013, director proiect Ioan Dumitru	750.000	75

Punctaj realizat din contracte de cercetare I.9 = 75

12. Citări și recenzii ale lucrărilor științifice

reviste de specialitate din străinătate: (10 + 20 x factor de impact) / număr autori, pentru fiecare citare

reviste de specialitate din țară: (5 + 10 x factor de impact) / număr autori, pentru fiecare citare

Punctaj realizat din citari conform tabelului anterior I.12 = 2870.005

TOTAL PUNCTAJ REALIZAT DIN ACTIVITATEA DE CERCETARE: 4412.68

II. ACTIVITATEA DIDACTICĂ (30%)

2. Proiecte didactice (înființare/dotare laboratoare licență, master, săli workshop, biblioteci proprii facultăților, departamentelor, laboratoarelor şi grupurilor de cercetare)
40 puncte pentru fiecare activitate

Laboratorul de Fizica Materialelor Magnetice
- Instalatie pentru determinarea coeficientului de magnetostrictiune (martie-aprilie, 2007)
- Instalatie pentru masurarea ciclului de histerezis utilizand metoda VSM
- Instalatie pentru determinarea coeficientului magnetoelectric
Laboratorul de Fizica Informatica - Inalta frecventa
- Instalatie de masurare a susceptibilitatii transversale
- Instalatie de rezonanta feromagnetica
- Masuratori de parametri de transmisie/reflexie in ghiduri coaxiale
- Masuratori de permitivitate dielectrica in cavitati rezonante

Punctaj II.2: 7×40=280

3. Materiale suport curs, seminar, lucrări practice şi programe analitice detaliate
10 puncte pentru fiecare activitate

Suport de curs pentru:
- Prelucrarea datelor fizice si metode numerice
- Sisteme de achizitie si de procesare a datelor

Lucrări practice pentru:
- Fizica Fenomenelor Magnetice, Master Materiale Avansate. Nanotehnologii, anul 1

Programe analitice detaliate pentru:
- Metode fizice de diagnoză în protecția mediului, Master Stiinte, anul 2
- Metode avansate de programare, Master Materiale Avansate. Nanotehnologii, anul 1
- Programare JAVA, Fizica Informatica, anul 3
- Metode numerice si de simulare in fizica, Fizica, Fizica Informatica, anul 3
- Metodica rezolvării problemelor de fizică, Fizica, anul 1
- Metodologia cercetarii stiintifice, Master Stiinte, anul 1

Punctaj II.3: 12×9=108

TOTAL PUNCTAJ REALIZAT DIN ACTIVITATEA DIDACTICĂ: 388

TOTAL PUNCTAJ AUTOEVALUARE: 0,7*4412.68 + 0,3*388 = 3205,27

29 octombrie 2019
conf. dr. Ioan Dumitru