

RAPORT DE AUTOEVALUARE A ACTIVITĂȚII PENTRU ANII 2021-2026

Numele și prenumele: **Benchea Marcelin**Funcția didactică: **Profesor universitar**Facultatea/Departamentul: **Mecanică/Inginerie Mecanică, Mecatronică și Robotică**

Raport sintetic pentru criteriile din Fișa de autoevaluare

Nr. crt.	Denumire criteriu	Cod	Punctaj
I	Performanțe didactice	Contribuții la modernizarea bazei materiale	A 5391.57
		Activități cu studenții	B 9880
II	Performanțe științifice	C	31529.9
III	Recunoaștere națională și internațională	D	1905

Raport detaliat pentru fiecare criteriu de evaluare

I. Performanțe didactice

A. Contribuții la modernizarea bazei materiale pentru activități didacticeA1 Editarea de cursuri universitare pentru discipline noi, needitate anterior în țară (**224 puncte**)

- în edituri consacrate (recunoscute de CNCIS), inclusiv din Chișinău (0.8p x nr. pag./nr. autori):

1. **Marcelin BENCHEA**, 2024, "*Sisteme Mecatronice la Autovehicule Hibrice și Electrice*", Editura Universității Tehnice "Gheorghe Asachi" din Iași, Iași, ISBN 978-973-621-551-3, 280 pg., 0.8·280=**224p**A2 Editarea de cursuri universitare proprii (**587 puncte**)

- în edituri consacrate (recunoscute de CNCIS), inclusiv din Chișinău (0.6p x nr. pag./nr. autori):

1. **Marcelin BENCHEA**, Flavian Farcaș, 2021, "*Mecatronics Automobilului. Echipamente de management și control*", Editura Politehnicum, Iași, ISBN 978-973-621-502-5, 165 pg., 0.6·165/2=**49.5p**2. **Marcelin BENCHEA**, Flavian Farcaș, 2021, "*Mecatronics Automobilului. Echipamente de siguranță și confort*", Editura Politehnicum, Iași, ISBN 978-973-621-503-2, 165 pg., 0.6·165/2=**49.5p**

- varianta electronică (0.4p x nr. pag./nr. autori):

1. **Marcelin BENCHEA**, "*Echipamente Mecatronice ale Automobilului*", notițe de curs pentru specializările de Mecatronică licență și master, 350 pg. (disponibil pe mec.tuiasi.ro), 0.4·350=**140p**2. **Marcelin BENCHEA**, 2021, suport de curs la disciplina *Elemente de Inginerie Mecanică* pentru studenții de anul 1 domeniul inginerie electrică de la facultatea de IEEIA, 250 pg., (disponibil pe edu.tuiasi.ro) 0.4·250=**100p**3. **Marcelin BENCHEA**, 2021, suport de curs la disciplina *Mecatronics Automobilului* pentru studenții de anul 4 specializarea de Mecatronică, 300 pg., (disponibil pe edu.tuiasi.ro) 0.4·300=**120p**4. **Marcelin BENCHEA**, 2023, suport de curs la disciplina *Sisteme mecatronice la autovehicule hibride și electrice* pentru studenții de master de anul 2 specializarea de Autovehicule Hibrice și Electrice, 320 pg., (disponibil pe edu.tuiasi.ro) 0.4·320=**128p**A3 Editarea de îndrumare de proiect, de laborator, culegeri de probleme (**255.8 puncte**)

- în edituri consacrate (recunoscute de CNCIS), inclusiv din Chișinău (0.6p x nr. pag./nr. autori):

1. **Marcelin BENCHEA**, Mihaela-Rodica Bălan, 2024, "*Construcția și calculul sistemelor de control al mișcării autovehiculelor - Îndrumar de laborator*", Editura Universității Tehnice "Gheorghe Asachi" din Iași, Iași, ISBN 978-973-621-539-1, 210 pg., 0.6·210/2=**63p**

- varianta electronică (0.4p x nr. pag./nr. autori):

1. **Marcelin BENCHEA**, 2021, suport pentru laborator la disciplina *Organe de mașini* - format electronic 56 pg., (7 lucrări de laborator disponibile pe mec.tuiasi.ro), 0.4·56=**22.4p**2. **Marcelin BENCHEA**, 2021, suport pentru laborator la disciplina *Tribologie* - format electronic 31 pg., (4 lucrări de laborator disponibile pe mec.tuiasi.ro), 0.4·31=**13.6p**3. **Marcelin BENCHEA**, 2021, "*Echipamente Mecatronice la Automobile. Îndrumar*", pentru specializările de Mecatronică licență și master, 165 pg. (disponibil pe mec.tuiasi.ro), 0.4·165=**66p**4. **Marcelin BENCHEA**, 2021, suport de laborator la disciplina *Mecatronics Automobilului* pentru studenții de anul 4 specializarea de Mecatronică, 150 pg., (disponibil pe edu.tuiasi.ro) 0.4·150=**60p**5. **Marcelin BENCHEA**, 2023, suport de aplicații la disciplina *Sisteme mecatronice la autovehicule hibride și electrice* pentru studenții de master de anul 2 specializarea de Autovehicule Hibrice și Electrice, 77 pg., (disponibil pe edu.tuiasi.ro) 0.4·77=**30.8p**

A5 Pregătirea unei discipline noi la studiile universitare de masterat (336 puncte)

1. 2023/2024 Sisteme Mecatronice la Autovehicule Hibride și Electrice, master anul 2 AHE, 6·28 ore=**168p**
2. 2023/2024 Echipamente Mecatronice la Automobile, master anul 2 Mecatronică Avansată, 6·28 ore=**168p**

A7 Lucrare nouă de laborator (2560 puncte)

- lucrare laborator nouă pe instalație existentă (80p/nr. autori)

1. Ambreiaje mecanice cu fricțiune și cutii de viteză
2. Senzori specifici și actuatori auto
3. Construcția și funcționarea sistemului de alimentare al motorului. Injecția de combustibil
4. Construcția și funcționarea sondei Lambda. Reglarea dozajului
5. Construcția și funcționarea sistemului de recirculare a gazelor arse. Supapa EGR
6. Construcția și funcționarea sistemului de suspensie activă
7. Construcția și funcționarea sistemului de frânare. Sistemul ABS
8. Construcția și funcționarea sistemului de frânare al utilităților. Sistemul EBS
9. Construcția și funcționarea sistemului de direcție. Direcții asistate
10. Construcția și funcționarea sistemului de siguranță activă. Sistemul ESP
11. Construcția și funcționarea sistemului de siguranță pasivă
12. Construcția și funcționarea sistemului de iluminare. Faruri adaptive
13. Construcția și funcționarea sistemului de ștergătoare cu senzor de ploaie
14. Construcția și funcționarea sistemului de asistență la parcare
15. Construcția și funcționarea sistemului de închidere centralizată
16. Structura unui autovehicul
17. Calculul sistemului de rulare al autovehiculelor
18. Elemente constructive ale sistemului de rulare. Construcția roților la autovehicule
19. Factori de influență asupra rezistenței la rulare. Aderența anvelopelor
20. Deteriorarea anvelopelor
21. Construcția sistemelor de direcție la autovehicule. Defecțiuni, întreținere și reparare
22. Construcții de sisteme de direcție asistată
23. Sistem de direcție asistată electric variabil
24. Elemente constructive pentru frânarea autovehiculelor
25. Construcția sistemului de frânare la autoturismele Dacia
26. Asistența sistemului de frânare
27. Elemente constructive utilizate la suspensia autovehiculelor
28. Tipuri constructive de suspensii la autovehicule
29. Construcția punții și suspensiei din față. Diagnosticare și întreținere
30. Construcția punții și suspensiei din spate. Diagnosticare și întreținere
31. Sistemul de climatizare auto
32. Sistemul de asistență avansată a conducătorului auto ADAS

total: 32·80=**2560p**

A8 Proiect de an la disciplină nouă (42 puncte)

1. 2023/2024 Sisteme Mecatronice la Autovehicule Hibride și Electrice, master anul 2 AHE, 3·14 ore=**42p**

A9 Dotare prin sponsorizare, alte activități extrabugetare și prin atragerea de fonduri bugetare (1186.77 puncte)

- echipamente, materiale (6p pt. 100Euro/nr. Autori din sponsorizare și alte activități extrabugetare;
3p pt. 100Euro/nr. Autori din fonduri bugetare)

1. 2021 - Modernizarea laboratorului "ORGANE DE MAȘINI" al Facultății de Mecanică prin Fundația Comunitară Iași: s-a achiziționat Standul de instruire practică în mecanică FESTO (Banc de lucru metalic cu blat din lemn, Stație de lucru cu motor de acționare și sisteme de siguranță, Transmisii mecanice cu lanțuri, curele și roți dințate, Cuplaje, Etanșări, Determinarea nivelului de zgomot și vibrație, etc. - 5 module) în valoare de 250000 ron + 5000 ron achiziție materiale, echipa de lucru - 7 membri (coordonator conf.dr.ing. Gelu Ianuș), 6·255000/4.92/100/7=**520.41p**

2. 2021 - Dotare laborator Cercetare și Pregătire Probe (Stand debitare probe metalografice) în valoare de 37000 ron, echipa de lucru - 6 membri (coordonator conf.dr.ing. Bogdan Istrate), 3·37000/4.92/100/6=**75.51p**

3. 2021 - Dotare laborator Vibrații Mecanice și Prelucrarea datelor experimentale (Elvis III - dispozitiv hardware programabil, placă de achiziții de date myRIO, Labview FDS 10 users, Labview Academic Site License Research 1 user) în valoare de 78651 ron, echipa de lucru - 3 membri (coordonator prof.univ.dr.ing. Carmen Bujoreanu), 3·78651/4.92/100/3=**321.03p**

4. 2022 - Dotare laborator Cercetare și Pregătire Probe (Nișă chimică pentru pregătirea probelor) în valoare de 49000 ron, echipa de lucru - 7 membri (coordonator conf.dr.ing. Bogdan Istrate), 3·49000/4.93/100/7=**85.71p**

5. 2022 - Dotare laborator Vibrații Mecanice și Prelucrarea datelor experimentale (Tub Kundt - dispozitiv pentru măsurări acustice; Aparat pentru studiul undelor staționare transversale; motor DC; Stand pentru experimente de oscilații mecanice și set de senzori; Stroboscop digital; Set pendul Wilberforce; Osciloscop) în valoare de 36521 ron, echipa de lucru - 3 membri (coordonator prof.univ.dr.ing. Carmen Bujoreanu), 3·36521/4.93/100/3=**149.07p**

6. 2023 - Dotare laborator Cercetare și Pregătire Probe (materiale biologice, consumabile laborator și tehnică de calcul) în valoare de 20237 ron, echipa de lucru - 7 membri (coordonator conf.dr.ing. Bogdan Istrate), $3 \cdot 20237 / 4.95 / 100 / 7 = 35.04p$

A11 Elaborarea documentației pentru acreditarea unei specializări, ierarhizare și evaluare universitară (**200 puncte**)

1. Evaluare/reacreditare specializarea de Construcții de Autovehicule în 2024, $600/3 = 200p$

B. Activități cu studenții

B5 Participarea la manifestări naționale didactico-metodice, pe discipline sau grupe de discipline (**100 puncte**)

1. Seminarul Național de Organe de Mașini „Ioan Drăghici” - SNOM 2021-2025

total: $5 \cdot 20 = 100p$

B6 Organizarea unei manifestări naționale didactico-metodice, pe discipline sau grupe de discipline (**300 puncte**)

1. Seminarul Național de Organe de Mașini „Ioan Drăghici” - SNOM 2023 Iași

2. Sesiunea Aniversară pentru 75 ani Facultatea de Mecanică 2023

total: $2 \cdot 150 = 300p$

B7 Îndrumare de proiect de diplomă/dizertație și doctorat, în afara normei (**6000 puncte**)

- îndrumare de proiect de diplomă/dizertație (40p/proiect)

1. 2021/2022 - Mecatronică - 8 studenți (1 în normă)

2. 2022/2023 - Mecatronică - 8 studenți (1 în normă)

3. 2023/2024 - Mecatronică - 7 studenți, MCTA și AHE - 2 studenți (1 în normă)

4. 2024/2025 - Mecatronică - 1 student, MCTA și AHE - 3 studenți (1 în normă)

5. 2025/2026 - Mecatronică - 2 studenți, MCTA și AHE - 4 studenți (1 în normă)

total: $30 \cdot 40 = 1200p$

- îndrumare doctorat (100p/doctorand/an)

Membru în comisiile de îndrumare a tezei de doctorat pentru doctoranzii: Stelian Cazan (2021-2023), Iovan-Dragomir Alina (2021-2023), Cornelia Paleu (2021-2024), Zamă Andrei (2024-2025), Adrian Ștefan (2021-2026), Ciubotariu Raul-George (2021-2026), Macovei Gheorghe (2021-2026), Chiriac Adelina-Elena (2022-2026), Isare Mariana (2022-2026), Vacaru-Carnaru Marius (2023-2026), Maftai Alexandru (2024-2026), Aburlăciței Radu-Dumitru (2025-2026), Apricopoaie Eugen-Cristian (2025-2026), Bujor Adrian (2025-2026), Miron Gabriel (2025-2026).

total: $48 \cdot 100 = 4800p$

B8 Organizarea de excursii de studiu cu studenții (**300 puncte**)

1. 30 mai 2022 - vizită la firma Nord Arin din Piatra-Neamț cu studenți din anul 4 (MCT+ROB)

2. 14-18 noiembrie 2022 - vizită la firme din Bacău, Brașov și Sibiu cu studenți din anii 3 și 4

3. 30 octombrie - 3 noiembrie 2023 - vizită la firme din Bacău, Brașov, Câmpina și Sibiu cu studenți din anul 3

total: $3 \cdot 100 = 300p$

B10 Participarea în comisiile pentru susținerea examenelor de diplomă și a dizertațiilor (**180 puncte**)

1. MCTA (master, secretar, membru), 3 comisii/an, 3 ani, $3 \cdot 3 \cdot 20 = 180p$

B12 Responsabil de granturi, membri în echipa de management și implementare, cu participarea studenților, elevilor (tip ROSE, Practeh, Practic, Școli de vară, proiecte educaționale, etc.). Formatori în cadrul programelor cu participarea studenților, elevilor (tip ROSE, Școli de vară, etc.). Coordonator de granturi pentru doctoranzi (**90 puncte**)

- Coordonator de granturi pentru doctoranzi (30p/grant): Aburlăciței Radu-Dumitru, Bujor Adrian-Cristian și Miron Gabriel-Petrișor 2025-2026, $3 \cdot 30 = 90p$

B13 Activitatea de tutoriat (**200 puncte**)

Îndrumător de grupă: 8206 în 5 ani, $5 \cdot 40 = 200p$

B14 Total punctaj (**820 puncte**)

Organizarea admiterii

- Membru comisie coordonatoare (200p/an): 2025, 2026 - $2 \cdot 200 = 400p$

- Membru comisie de înscriere (100p/an): 2021-2024 - $4 \cdot 100 = 400p$

Prezentarea facultății elevilor din licee în vederea înscrierii la admitere

- Prezentarea facultății la licee din Iași: Liceul Teoretic „Miron Costin”, 2023 - $1 \cdot 20 = 20p$

B15 Prezentarea laboratoarelor în cadrul vizitei elevilor de liceu (**600 puncte**)

Laborator cercetare - tribometru și profilometru - 3/an 2021-2026, $15 \cdot 20 = 300p$

Camera anecoică/laborator Vibrații - 3/an 2021-2026, $15 \cdot 20 = 300p$

B18 Organizarea de întâlniri ale studenților cu specialiști din industrie și cercetare (**700 puncte**)

1. Organizarea stagiului de practică la firma ASAM, pentru un grup de 15 studenți din anul 2, în 2022 și 2023.

2. Organizarea unei întâlniri cu ingineri de la firma Nord Arin, pentru un grup de studenți din anul 4, în 2022.

3. Organizarea unei întâlniri cu ingineri de la firma Aerostar, pentru un grup de studenți din anul 3 și 4, în 2022 și 2023.
4. Organizarea unei întâlniri cu ingineri de la firma Autoliv, pentru un grup de studenți din anul 3 și 4, în 2022 și 2023.
5. Organizarea unei întâlniri cu ingineri de la firma Preh Romania, pentru un grup de studenți din anul 3 și 4, în 2022
6. Organizarea unei întâlniri cu ingineri de la firma Continental Automotive Systems, pentru un grup de studenți din anul 3 și 4, în 2022.
7. Organizarea unei întâlniri cu ingineri de la firma Schaeffler, pentru un grup de studenți din anul 3, în 2023.
8. Organizarea unei întâlniri cu ingineri de la firma Neptun Gears, pentru un grup de studenți din anul 3, în 2023.
9. Organizarea unei întâlniri cu ingineri de la firma Marquardt, pentru un grup de studenți din anul 3, în 2023.
10. Organizarea unei întâlniri cu ingineri de la firma NTN Europe, pentru un grup de studenți din anul 3 și 4, în 2022 și 2023.

total: $14 \cdot 50 = 700p$

B19 Promovarea facultății în mass-media (90 puncte)

- promovare pe internet (30p/an promovare pe internet)

1. 2021 - Prezentare stand Festo/laborator Organe de mașini în Ziarul de Iași și pe tuiasi.ro

de la Facultatea de Mecanică.



https://www.tuiasi.ro/noutati/doua-laboratoare-tuiasi-modernizate-cu-aparatura-performanta-de-compania-borgwarner/

Universitatea Tehnică „Gheorghe Asachi” din Iași

Biblioteca Universității

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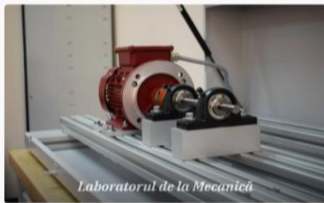
ales în contextul în care tehnologiile se adaptează și evoluează în permanență în industrie.



Laboratorul de la Mecanică



Laboratorul de la Mecanică



Laboratorul de la Mecanică



Gear Drive 1

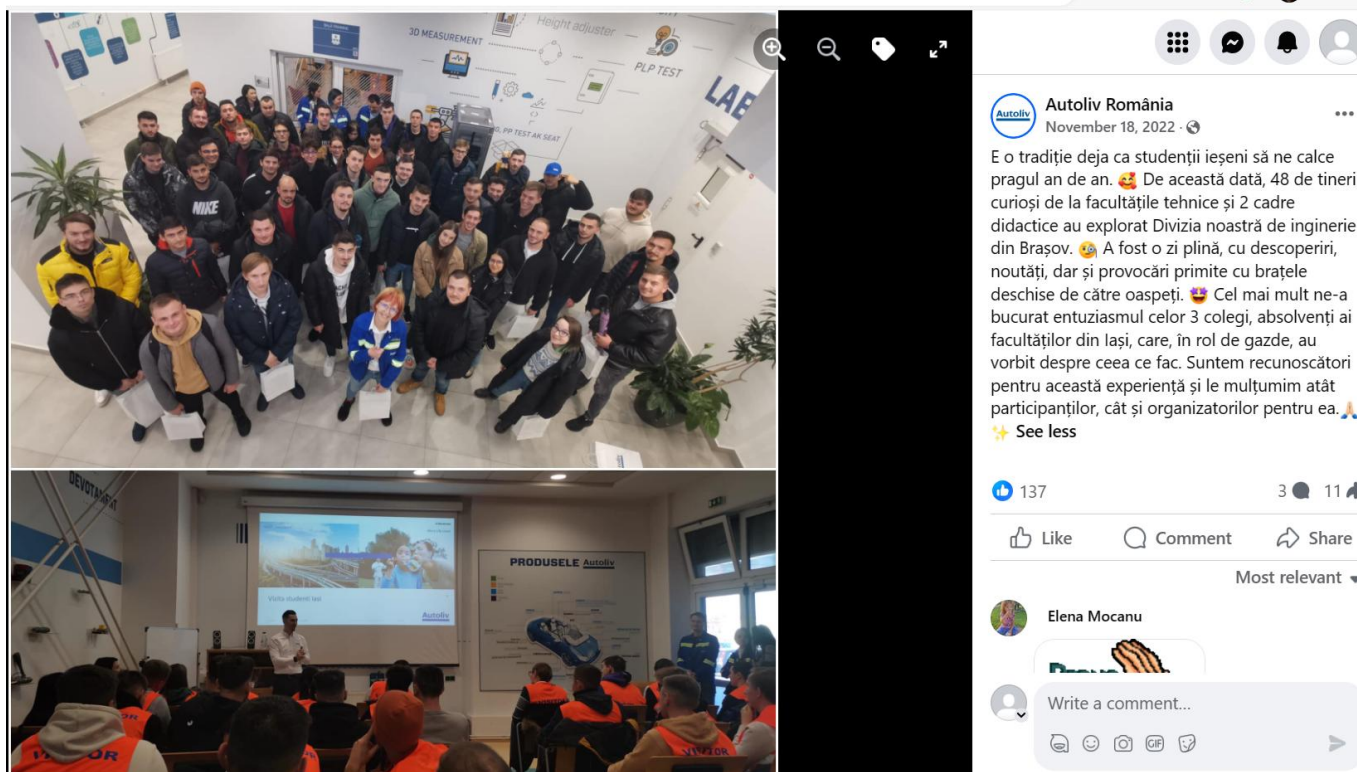
2. 2022 - revistamobila.ro - vizită Nord Arin Piatra-Neamț și facebook - vizită Autoliv Brașov

<https://www.revistamobila.ro/nord-arin-pune-studentii-fata-in-fata-cu-inginerii-din-industria-mobilei/>



Vizitele de studiu au continuat cu două grupe de studenți de la Facultatea de Mecanică – grup coordonat de conf. dr. ing. Marcelin Benchea și șef lucrări dr. ing. Ciprian Stamate, respectiv de la Facultatea de Construcții de Mașini și Management Industrial – grup coordonat de dl decan, prof. dr. ing. Cătălin Gabriel Dumitraș. Întâlnirile au cuprins prezentări de grup și discuții one-to-one și au fost o sursă generatoare de energie creativă pentru toți cei implicați, reprezentând un prilej excelent pentru studenții din anii III și IV să descopere activitatea Nord Arin și să cunoască managementul companiei și inginerii coordonatori de pe

<https://www.facebook.com/photo/?fbid=421554156851293&set=a.373012088372167>



3. 2023 - facebook - vizită Aerostar Bacău și Marquardt Sibiu



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October 31 at 3:45 PM ·

Mulțumim grupului de studenți de la [Facultatea de Mecanică din Iași](#) din cadrul Universității „Gheorghe Asachi” din Iași, care ne-au vizitat la sediul Aerostar S.A., împreună cu Ș. L. Dr. Andrușcă Liviu și As. Dr. Ing. Benchea Marcelin.

Vă mai așteptăm la noi!

[Universitatea Tehnică „Gheorghe Asachi” din Iași](#)



Marquardt Romania

Marquardt Schaltsysteme S.C.S. România, parte a grupului internațional Marquardt, a fost înființ

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Marquardt Romania

November 2 at 12:52 PM ·

Vizită la Marquardt Sibiu - Universitatea Tehnică "Gheorghe Asachi" Iași

20 de studenți și profesori de la Universitatea Tehnică „Gheorghe Asachi” din Iași, Facultatea de Mecanică, au fost astăzi în vizită la Marquardt Sibiu. Aceștia au participat la o prezentare a companiei și la un tur ghidat în producție și Toolshop.

Cadrele didactice au fost interesate de colaborarea pe care o avem cu ULBS și de programele de practică organizate de Marquardt pentru studenți. Studenții... [See more](#)



total: 3·30=**90p**

B20 Membru al Comisiei de Orar (**500 puncte**)

- Realizare orar anul 3, 8308, 8401, 8408, master MCTA și STCF (100p/an): 2021-2026, 5·100=**500p**

II. Performanțe științifice

C. Activitatea de cercetare științifică

C1 Editarea de monografii și tratate (432 puncte)

- la edituri din străinătate, într-o limbă de circulație internațională (4p x nr. pag./nr. autori):

1. Madalina Simona Baltatu, Petrică Vizureanu, Andrei Victor Sandu, Dragos Cristian Achitei, Manuela Cristina Perju, Dumitru Doru Burduhos-Nergis, **Marcelin BENCHEA**, 2024, "*Titanium-Based Alloys - Characteristics and Applications*", Ed. IntechOpen, London, ISBN 978-0-85466-821-2, chapter: Titanium - A Versatile Metal in Modern Applications, 21 pg., 4·21/7=**12p**

- în edituri consacrate (recunoscute de CNCSIS), inclusiv din Chișinău (3p x nr. pag./nr. autori):

1. **Marcelin BENCHEA**, 2024, "*Cercetări privind îmbunătățirea performanțelor și a unor caracteristici ale sistemelor mecanice*", Editura Tehnopress, Iași, ISBN 978-606-687-523-3, 140 pg., 3·140=**420p**

C2 Lucrări științifice publicate sau citate în reviste internaționale, cu factor de impact incluse în Journal of Citation Reports (WOS) (S-au exclus autocitățile de la TOȚI autorii!!!) (20880.15 puncte)

- **Lucrări** $(0.1+If) \times 150p$

1. D.P. Burduhos-Nergis, N.M. Lohan, E. Matcovschi, G. Badarau, C. Bejinariu, **M. Benchea**, F.C. Lupu, N. Cimpoeșu, "*Microstructure, Adhesion and Tribomechanical Performance of Zn-Mg-Ca and Zn-Sr-Based Phosphate Conversion Coatings on Ti6Al4v Alloy*", Materials, **IF = 3.7**, ISSN 1996-1944, vol. 19, nr. 19, 4058, pp.37, 2026, $(0.1+3.7) \cdot 150 = \mathbf{570p}$

2. F.C. Lupu, C. Munteanu, B. Istrate, G. Ianus, G. Marian, N. Boris, T. Marian, **M. Benchea**, V.N. Arsenoaia, "*Improving the Microstructural and Mechanical Properties of Agricultural Ploughs Through Atmospheric Plasma Spray (APS) Thermal Coatings*", Crystals, **IF = 2.9**, ISSN 2073-4352, vol. 16, nr. 7, 468, pp.24, 2026, $(0.1+2.9) \cdot 150 = \mathbf{450p}$

3. **M. Benchea**, L. Andrușcă, T. Chiruță, M.C. Gavril, "*Investigating mechanical properties of additively manufactured biodegradable pla material*", Journal of Environmental Engineering and Management Journal, **IF = 0.9**, ISSN 1843-3707, vol. 25, nr. 2, pp.341-348, 2026, $(0.1+0.9) \cdot 150 = \mathbf{150p}$

4. E.A. Chiriac, **M. Benchea**, C. Bujoreanu, B.Ș. Coman, "*Acoustic properties evaluation of sound absorbing panels prototypes*", Journal of Environmental Engineering and Management Journal, **IF = 0.9**, ISSN 1843-3707, vol. 25, nr. 2, pp.349-359, 2026, $(0.1+0.9) \cdot 150 = \mathbf{150p}$

5. D. Cristîșor, C. Munteanu, D.L. Chicet, **M. Benchea**, C.A. Dumitrașcu, A.M. Velniciuc, "*Microstructure Influence on the Dry Sliding Wear Behavior of Cr₂O₃-nTiO₂ APS Coatings*", Solids, **IF = 2.4**, ISSN 2673-6497, vol. 7, nr. 2, 19, pp.20, 2026, $(0.1+2.4) \cdot 150 = \mathbf{375p}$

6. V.N. Arsenoaia, C. Munteanu, F.C. Lupu, B. Istrate, **M. Benchea**, I. Melnic, "*Field Performance and Wear Behavior of Atmospheric Plasma Spraying (APS) Coated Discs Used in Agricultural Disc Harrows*", Agriculture, **IF = 4.5**, ISSN 2077-0472, vol. 16, nr. 1, 114, pp.29, 2026, $(0.1+4.5) \cdot 150 = \mathbf{690p}$

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3. Bujoreanu C., Irimiciuc S., **Benchea M.**, Nedeff F., Agop M., "A fractal approach of the sound absorption behaviour of materials. Theoretical and experimental aspects", Int. J. of Non-Lin. Mech., **IF = 3.336**, ISSN 0020-7462, vol.103, pp.128-137, 2018

3.1.S. Pleshkov, G. Bracale, A. Kuznetsov, "Improving Design of an Energy-Efficient Lighting System Based on Mirrored Hollow Tubular Light Guides According to the Criterion of Its Soundproofing", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 1079, 042081, 2021

total punctaj lucrare: 1·5=5p

4. Bujoreanu C., Nedeff F., **Benchea M.**, Agop M., "Experimental and theoretical considerations on sound absorption performance of waste materials including the effect of backing plates", Applied Acoustics, **IF = 3.614**, ISSN 0003-682X, Vol. 119, pp.88-93, 2017

4.1.H. Gao, J. Ma, D. Ahmedt-Aristizabal, C. Nguyen, M. Liu, "SOAF: Scene Occlusion-aware Neural Acoustic Field", 2026 IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), Tucson, AZ, USA, pp. 4097-4107, 2026, doi: 10.1109/WACV61042.2026.00399

total punctaj lucrare: 1·5=5p

5. C. Munteanu, S. Lupescu, B. Istrate, V.I. Antoniac, **M. Benchea**, A. Savin, "Some Tribological Aspects of Mg-0.5Ca-xY Biodegradable Materials", Key Engineering Materials, ISSN 1013-9826, Vol. 782, pp.136-141, 2018

5.1.Priya Jadhav, Arunkumar Bongale and Satish Kumar, "Schematic review of plasma arc oxidation process for Mg Alloy Bio Implants", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 1017, 012011, 2021

total punctaj lucrare: 1·5=5p

6. Lupescu S., Munteanu C., Istrate B., Luca D., **Benchea M.**, Mahu G., "Experimental, microstructural and tribological studies of the system Mg-2Ca-5Y", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 444, 032008, 2018

6.1.A. Savin, R. Steigmann, M.L. Craus, M.D. Stanciu, "Noninvasive evaluation of elastic properties for magnesium-calcium biodegradable alloys", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 1182, 012068, 2021

total punctaj lucrare: 1·5=5p

7. Bujoreanu C., Nedeff F., **Benchea M.**, Agop M., "Experimental and theoretical considerations on sound absorption performance of waste materials including the effect of backing plates", Applied Acoustics, **IF = 3.614**, ISSN 0003-682X, Vol. 119, pp.88-93, 2017

7.1.Mohamed, E. Sulaeman, A. Dianne, A.Z. Abidin, "Influence of Surface Discontinuity on Sound Absorption Coefficient of Vehicle Interior Material", IOP Conference Series - Mat. Sci. and Eng., vol. 1244, 012003, pp.10, 2022

total punctaj lucrare: 1·5=5p

8. Bujoreanu C., **Benchea M.**, "Experimental study on HVAC sound parameters", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 147 (1), 012051, 2016

8.1. Suyatno and N B Panggabean, "A silencer design and analysis of the effect of silencer perforation towards resonant frequency and insertion loss in a duct", J. of Phys.: Conf. Ser., ISSN 1742-6596, vol. 1896, pp.9, 2021

8.2. S.P. Ebenezer, A.K. Pramanck, KP Ramachandran and P.K. Krishnan, "Study of Noise Annoyance and Vibration of Constructal Designed Window Air Conditioner", Trends in Sciences, ISSN 2774-0226, vol. 19 (5), 2693, pp.20, 2022

8.3. A. Ciochon, J. Kennedy, "3D Printed Acoustic Materials for the Performance Enhancement of a Building Acoustics Silencer", INTER-NOISE and NOISE-CON Congress and Conference Proceedings, ISSN 0736-2935, 9, pp.206-214, 2023

8.4. J.M. Zikri, M.S.M. Norhakim, M.S.M. Sani, "Split Air-conditioner Noise Source Identification through Sound Intensity Mapping", J. Phys.: Conf. Ser., vol. 2721, 012011, 2024

total punctaj lucrare: 4·5=20p

9. Spiridon S. Crețu, **Marcelin I. Benchea**, "An Elastic-Plastic Analysis of Profile Evolution in Cylindrical Roller Bearings", Proceedings of the ASME 11th Biennial Conference on Engineering Systems Design and Analysis ESDA 2012, ISBN 978-0-7918-4487-8, Volume 4, pp.565-574, Nantes, France, July 2-4, 2012

9.1. I. Mehmet, G. Dogan, D.F. Chitariu, C. Dumitraș, F. Negoescu, "Research on advances in roller bearing manufacturing", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 1182, 012045, 2021

total punctaj lucrare: 1·5=5p

10. Crețu S., **Benchea M.**, Crețu O., "Compressive Residual Stress Effect on Fatigue Life of Ball Bearings", ASME International Mechanical Engineering Congress and Exposition IMECE2007-paper 43561, November 11-15 2007, Seattle, Washington, USA, 2007

10.1. G. Dogan, I. Mehmet, D.F. Chitariu, C.G. Dumitraș, V.I. Crîșmaru, "FEA Modelling of the Combined Hard Turning Rolling Process Used at Bearing Rings", MATEC Web of Conferences, vol. 343, 02004, 2021

total punctaj lucrare: 1·5=5p

C11 Prezentarea de lucrări (1300 puncte)

- la conferințe și congrese internaționale (50p/conferință)

1. The 30th edition of Innovative Manufacturing Engineering and Energy International Conference - IMAnEE2026, September 24-25, 2026, Krakow, Poland, [Program – IMANEE](#)

2. International Conference Innovation in Engineering - ICIE, June 24-26, 2026, Bucharest, Romania, [Schedule – ICIE – International Conference](#)

3. The 12th International Conference on Advanced Concepts in Mechanical Engineering ACME2026, June 4-5, 2026, Iași, România, [ACME 2026 – Conference program – Facultatea de Mecanică Iași](#)

4. The 12th edition of International Conference on Innovative Research - ICIR Euroinvent, May 28-29, 2026, Iași, România, [ICIR 2026.pdf](#)

5. The 9th International Conference of the Doctoral School - CDS2026, May 13-15, 2026, Iași, România, [International Conference of the Doctoral School](#)

6. The 52nd International Conference on Metallurgical Coatings and Thin Films (ICMCTF 2026), April 19-24, 2026, San Diego, USA, [ICMCTF 2026-Technical-Program](#)

7. Coatings 2026: Safe and Sustainable by Design Surface Treatment and Coatings, April 20-22, 2026, Athens, Greece, [Coatings 2026: Safe and Sustainable by Design Surface Treatment and Coatings](#)

8. The 14th International Conference on Materials Science and Engineering - BRAMAT 2026, March 4-6, 2026, Brașov, România, [bramat.ro/uploads/7/7/4/0/77408170/programbramat2026_14ed.pdf](#)

9. The 6th International Conference on Powder Metallurgy & Advanced Materials RoPM&AM 2025, October 30 - November 1, 2025, Cluj-Napoca, România, [International Conference on Powder Metallurgy & Advanced Materials 2025 – ROPM&AM 2025 29 october – 1 november 2025, Cluj-Napoca, Romania](#)

10. The XXV International Scientific Conference VSU'2025, October 23-25, 2025, Sofia, Bulgaria, [XXV International Scientific Conference VSU'2025](#)

11. The 56th International October Conference on Mining and Metallurgy - IOC2025, October 22-25, 2025, Bor Lake, Serbia, [IOC 2025 – International October Conference on Mining and Metallurgy](#)

12. The 13th International Conference Modern Technologies in Industrial Engineering - ModTech 2025, June 11-14, 2025, Zakopane, Poland, [Book of abstracts Conference ModTech 2025](#)

13. The 11th edition of International Conference on Innovative Research - ICIR Euroinvent, May 8-9, 2025, Iași, România, [ICIR 2025.pdf](#)

14. International Thermal Spray Conference - ITSC25, May 5-8, 2025, Vancouver, Canada, <https://www.asminternational.org/itsc-2025>

15. International Conference Innovation in Engineering - ICIE, June 26-28, 2024, Povoação - São Miguel Island Azores, Portugal, [2024_06_22b-PROGRAM.pdf \(icieng.eu\)](#)

16. The 11th International Conference on Advanced Concepts in Mechanical Engineering ACME2024, June 6-7, 2024, Iași, România, [ACME 2024 – Conference program – Facultatea de Mecanică Iași \(tuiasi.ro\)](#)

17. The 15th International Conference on Tribology ROTRIB'24, April 19-21, 2024, București, România,

[ROTRIB 24 Final program 13.04 1.pdf \(sciencesconf.org\)](#)

18. The 13th International Conference on Materials Science and Engineering - BRAMAT 2024, March 13-16, 2024, Braşov, România, [bramat.ro/uploads/7/7/4/0/77408170/program_bramat2024_ap.pdf](#)

19. The 11th International Conference Modern Technologies in Industrial Engineering - ModTech 2023, June 14-17, 2023, Bucharest, Romania, [Book of abstracts Conference ModTech 2023](#)

20. The 9th edition of International Conference on Innovative Research - ICIR Euroinvent, May 11-12, 2023, Iaşi, România, [ICIR 2023.pdf \(euroinvent.org\)](#)

21. The 10th International Conference Modern Technologies in Industrial Engineering - ModTech, 2022, Mamaia, Romania, [Book of abstracts Conference ModTech 2022](#)

22. The 3rd International Biennial Conference on Biomaterials and Novel Technologies for Healthcare - BIOMAH, 2022, Rome, Italy, [Programme-3rd-BioMaH-v18_var01.pdf \(cnr.it\)](#)

23. International Conference Innovation in Engineering - ICIE, 2022, Guimarães, Portugal, [2022_06_22 - PROGRAM - GLOBAL.pdf \(dropbox.com\)](#)

24. The 12th International Conference on Materials Science and Engineering - BRAMAT, 2022, Braşov, România, [III \(bramat.ro\)](#)

25. International Conference Innovation in Engineering - ICIE, 2021, Guimarães, Portugal, [2021_06_27-ICIE2020-SCHEDULE.pdf \(icieng.eu\)](#)

26. The 7th edition of International Conference on Innovative Research - ICIR Euroinvent, 2021, Iaşi, România, [ICIR 2021.pdf \(euroinvent.org\)](#)

total: $26 \cdot 50 = 1300p$

C13 Programe din Fonduri Europene/Internaţionale (**802.32 puncte**)

1. Contract nr. 25212/2021. *Program in Materials, Additive and Manufacturing, and Multiscale materials Engineering. 3ME*

Beneficiar: *US Army*

Director proiect: prof.univ.dr.ing. Corneliu Munteanu, U.T. Iaşi

Valoare proiect: 438600 RON (materiale + regie - 40%)

$15 \cdot (0.4 \cdot (438600/4.93)/100) \cdot 0.15 = 802.32p$

C14 Granturi naţionale (**2453.02 puncte**)

1. PN-IV-P7-7.1-CI-2025-0181, Contract 6CI/2026. *Sisteme inovative din lemn pentru echilibrul acustic al nivelului de zgomot în clădiri eficiente energetic*

Beneficiar: *UEFISCDI*

Director proiect: conf.univ.dr.ing. **Gabriel Oprişan**, U.T. Iaşi

Valoare proiect: 49970 RON (materiale + regie - 45%)

$10 \cdot (0.45 \cdot (49970/5.19)/100) \cdot 0.4 = 173.31p$

2. GRANT UEFISCDI PN-IV-CEI-BIM-CRM-2024-0336 tema 24PCBROMD/2025. *Creşterea durabilităţii în utilizare prin acoperirea termică a părţilor active (partea principală şi partea anterioară) cu straturi metalice şi ceramice ale plugului agricol reversibil*

Beneficiar: *UEFISCDI*

Director proiect: prof.univ.dr.ing. Corneliu Munteanu, U.T. Iaşi

Valoare proiect: 251904 RON (materiale + regie - 50%)

$10 \cdot (0.5 \cdot (251904/5.04)/100) \cdot 0.15 = 374.86p$

3. GRANT PR/NE/P1/RSO1.1_RSO1.3/1 tema 338197 nr. 731/2025. *Dezvoltarea şi realizarea unei instalaţii inovatoare destinată implementării unei tehnologii avansate de acoperire cu straturi subţiri pentru fabricarea unor geamuri cu eficienţă energetică sporită - TEGAS*

Beneficiar: *UEFISCDI*

Director proiect: conf.univ.dr.ing. Ana Tufescu, U.T. Iaşi

Valoare proiect: 714852.25 RON (regie - 20%)

$10 \cdot (0.2 \cdot (714852.25/5.19)/100) \cdot 0.15 = 413.21p$

4. GRANT UEFISCDI PN-IV-P8-8.3-ROMD-2023-0108 tema 13ROMD/2024. *Cercetări asupra îmbunătăţirii grapelor cu discuri prin acoperiri termice în jet de plasmă*

Beneficiar: *UEFISCDI*

Director proiect: prof.univ.dr.ing. Corneliu Munteanu, U.T. Iaşi

Valoare proiect: 238750 RON (materiale + regie - 50%)

$10 \cdot (0.5 \cdot (238750/5.04)/100) \cdot 0.15 = 355.28p$

5. GRANT UEFISCDI PN-III-P1-1.1-TE-2021-0702 tema 27TE/2021. *Materiale metalice biodegradabile inovative din sistemul Mg-Ca-Zn utilizate în aplicaţii ortopedice*

Beneficiar: *UEFISCDI*

Director proiect: conf.univ.dr.ing. Bogdan Istrate, U.T. Iaşi

Valoare proiect: 450000 RON (materiale + regie - 50%)

$10 \cdot (0.5 \cdot (450000/4.95)/100) \cdot 0.25 = 1136.36p$

C15 Contracte de cercetare cu societăţi comerciale (**32.74 puncte**)

1. Contract nr. 37224/3.10.2025. *Studiu acustic la Sala Mare a Teatrului pentru Copii şi Tineret „Luceafărul” Iaşi*

Beneficiar: *S.C. ARTEHNIS SRL Iaşi*

Director proiect: conf.univ.dr.ing. **Gabriel Oprişan**, U.T. Iaşi

Valoare proiect: 26000 RON (regie - 15%)

$10 \cdot (0.15 \cdot (26000/5.04)/100) \cdot 0.4 = 30.95p$

2. Contract 23027/18.06.2025. *Studiu acustic privind caracteristicile acustice/fonoabsorbante ale panourilor din MDF frezat*

Beneficiar: GABRIELAMOB SRL Iași

Director proiect: conf.univ.dr.ing. **Gabriel Opreșan**, U.T. Iași

Valoare proiect: 1500 RON (regie - 15%)

$10 \cdot (0.15 \cdot (1500/5.04)/100) \cdot 0.4 = \mathbf{1.79p}$

C16 Premii obținute pe lucrări de cercetare științifică (34.67 puncte)

(40p/lucrare premiata/nr. autori)

1. R.D. Aburlăciței, S. Crețu, A.C. Bujor, **M. Benchea***, "Crowned Profile Influence on Raceway-Roller Contact Pressure in Tapered Roller Bearings", 12th Int. Conference on Advanced Concepts in Mechanical Engineering ACME2026, June 4-5, 2026, Iași, România, Gold Paper Award: 40/4=**10**

2. A.C. Bujor, A.C. Dumitrașcu, R.D. Aburlăciței, **M. Benchea***, "Conversion of Wöhler Fatigue Curves into Structural Response Signals for Defect Diagnosis Using Finite Element Analysis", 12th Int. Conference on Advanced Concepts in Mechanical Engineering ACME2026, June 4-5, 2026, Iași, România, Silver Paper Award: 40/4=**10**

3. **Benchea M.**, Bujoreanu C., Șerbănoiu B., Chiriac A.E., Ianuș G., "The Impact of Complex Periodic Structures on the Acoustic Performance of Architectural Materials: An Interdisciplinary Approach", International Conference Innovation in Engineering - ICIE, June 26-28, 2024, Povoação - São Miguel Island Azores, Portugal, Gold Best Scientific Paper Award: 40/5=**8**

4. Mazurchevici S.N., Marguta A., Istrate B., **Benchea M.**, Boca M., Nedelcu D., "Improvements of Arboblend V2 Nature characteristics through depositing thin ceramic layers", Polymers, **IF = 4.967**, ISSN 2073-4360, vol. 13, nr. 21, 3765, pp.21, 2021, premiata de UEFISCDI prin programul PECISI2023, lista 1 pentru anul 2021: 40/6=**6.67**

C17 Organizarea unor manifestări științifice în cadrul Universității Tehnice (300 puncte)

- cu participare internațională (100p/manifestare - membru în comitetul de organizare)

1. Conferința internațională ACME 2022, 2024, 2026, 100·3=**300p**

C19 Elaborarea documentației pentru granturi și pentru Centre de excelență (200 puncte)

(200p/grant competiție națională cu min. 80% din punctajul maxim)

1. Depunere cerere finanțare la competiția de proiecte de cercetare "AOSR-TEAMS" nr. 221/20.02.2022, cu 81 p total: 1·200=**200p**

C20 Recenzor de lucrări (3080 puncte)

- în reviste internaționale ISI (20p/lucrare)

Advanced Engineering Materials (**4**), Advances in Mechanical Engineering (**7**), Ain Shams Engineering (**3**), Applied Sciences (**6**), Building and Environment (**18**), Buildings (**3**), Clinical and Experimental Dental Research (**2**), Coatings (**6**), Crystals (**7**), Journal of Materials Engineering and Performance (**1**), Journal of Manufacturing and Materials Processing (**3**), Journal of Low Frequency Noise, Vibration and Active Control (**2**), Lubricants (**2**), Materials (**44**), Materials and Design (**6**), Metals (**4**), Micromachines (**2**), Molecules (**3**), PLoS One (**6**), Polymers (**2**), Processes (**2**), Results in Engineering (**1**), Scientific Reports (**1**), Sensors (**2**), Surfaces and Interfaces (**3**).

total: 140·20=**2800p**



Marcelin Benchea ✓

GH Asachi Technical University - Romania

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3	Buildings ▾	3	Journal of Manufacturing and Materials Processing ▾
3	Molecules ▾	3	Surfaces and Interfaces ▾
2	Clinical and Experimental Dental Research ▾	2	Journal of Low Frequency Noise, Vibration and Active Control ▾
2	Lubricants ▾	2	Micromachines ▾
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2	Sensors ▾	1	Journal of Materials Engineering and Performance ▾
1	Results in Engineering ▾	1	Scientific Reports ▾

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0	Sum of Times Cited by Policy	0	Citing Policy Documents

- în volume indexate ISI (10p/lucrare)
 IMANEE2021 IOP Conference Series: Materials Science and Engineering (2), ICIE2022&2024 Lecture Notes in Mechanical Engineering (7), ACME2022 IOP Conference Series: Materials Science and Engineering (5).
 total: 14·10=140p

My Review Requests for ICIE'2024

The table below shows all your review requests. To work with a request, click on the "View" image.

#	Authors	Title	PC member	Track	Status	Status Date	View
12	Miroslava Jirsová and Jan Hošek	Repeatability of Multi-jet fusion prints of Polyamide 12	José Machado	TT1 - Mechanical and Materials Engineering	review added to EasyChair	Feb 10	
14	Vinothraj U T, Joel J, Sai Srish S, Jose Machado and Anthony Xavior Michael	FINITE ELEMENT ANALYSIS AND EXPERIMENTAL STUDY OF SS316L MANUFACTURED BY POWDER BED FUSION	José Machado	TT1 - Mechanical and Materials Engineering	review added to EasyChair	Feb 14	
33	Ricardo Teixeira, Eva Oliveira, Tiago Martins and Vítor Carvalho	Elderly People Motivations to Keep Playing Exergames: A Systematic Review	Vítor Carvalho	SS5 - Engineering Applications for Medical and Healthcare Devices - ENG CARE 2024	review added to EasyChair	Feb 15	
44	Mykhaylo Stepanov, Petro Litovchenko, Tetyana Tretyak, Larysa Ivanova, Maryna S. Ivanova and A. Manuela Gonçalves	Determination of the Grinding Headstock Surface Temperature, which Varies Depending on the Process Fluids Thermal State	José Machado	TT1 - Mechanical and Materials Engineering	review added to EasyChair	Feb 16	

The 10th International Conference on Advanced Concepts in Mechanical Engineering (ACME 2022)

June 9-10, 2022 -, Romania

Selected topics

Mechatronics. CAD. Mechanical Vibrations

Materials and Surface Engineering

Machine Design. Tribology

Reviews

5

0

unreviewed

5

reviewed

5 Papers

Topic ▼

▲ ID	Title	◆ Topic	◆ Scoring	◆ Status
16	Evaluation of mechanical characteristics of 3003 aluminium alloy plated sheets	Materials and Surface Engineering		Reviewed
35	Equipment for thermo-mechanical contact fatigue in rolling conditions determination	Materials and Surface Engineering		Reviewed
43	Use of principles from axiomatic design in the case of equipment for studying abrasion r...	Machine Design. Tribology		Reviewed
82	Functional optimization of equipment for driving construction elements in the soil	Mechatronics. CAD. Mechanical Vibrations		Reviewed
98	A simple method to introduce the centrifugal effects in an angular contact ball bearing	Machine Design. Tribology		Reviewed

My Review Requests for ICIE'2022

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#	Authors	Title	PC member	Track	Status
6	Lucia Knapčíková, Justyna Trojanowska, Matúš Martiček and Jozef Husár	Advanced Testing of GPPS/PE-HD Composite Materials for Automotive Industry	José Machado	SS15 - Materials and Mechanical Technologies	review added to EasyChair
67	Patricia Silva, Eurico Seabra and Joaquim Mendes	ISO 2631 vibration analysis in Portuguese Alfa Pendular trains	José Machado	SS15 - Materials and Mechanical Technologies	review added to EasyChair
108	Paulo Barbosa, Pedro Cunha, Vítor Carvalho and Filomena Soares	Deep Learning in Taekwondo Techniques Recognition System: A Preliminary Approach	Vítor Carvalho	SS5 - Engineering Applications for Medical and Healthcare Devices - ENG CARE 2022	review added to EasyChair

My Review Requests for IMANEE 2021

The table below shows all your review requests. To work with a request, click on a submission number.

#	Authors	Title	PC member	Status
114	Adrian Nicolae Nitu, Vasile Caunil and Carmen Bujoreanu	Concept development of an independent electronic system for vibroacoustic diagnostics of vehicles	Carmen Bujoreanu	review added to EasyChair
115	Aida Vranau, Vasile Caunil and Carmen Bujoreanu	Study regarding the reduction of vibrations and noises generated by the car fan	Carmen Bujoreanu	review added to EasyChair

- în reviste și volume BDI (5p/lucrare)
 Environmental Challenges (6), Bulletin of the Polytechnic Institute of Iași. Machine constructions Section.

total: $28 \cdot 5 = \mathbf{140p}$

Proceedings of the 12th International Conference on Advanced Concepts in Mechanical Engineering:
ACME 2026 – Volume 1

Search paper			Q	Show Filter		
TITLE	DUE DATE	STATUS				
The Impact of Valve Seat Design on Discharge Valve Vibrations in High-Pressure Pumps ID: 49 by Iordache, C., Petrea, N., Velnicu, A., Dumitrascu, A., Bujoreanu, C. "Default Track"		Ready for Production				
Numerical Investigation of Sound Absorption in Perforated Specimens with Variable Cavity Geometries for Urban Noise Control ID: 65 by Chiriac, E., Chiriac, B., Bujoreanu, C. "Default Track"		Ready for Production				
Evaluation of the Magnitude of the Coefficient of Friction under Abrasion Conditions, Involving Polymeric Materials: Evaluation of the Magnitude of the Coefficient of Friction under Abrasion Conditions, Involving Polymeric Materials ID: 75 by Roxana-Gabriela, H., Spiridon, A., Mihalache, M., Tisari, V., Slatineanu, L. "Default Track"		Ready for Production				
Minimum Lubricant Film Thickness and the Lubrication Parameter in Total Lumbar Disc Prostheses - ID: 84 by Rotaru, I., Ciobanu, C., Olaru, D. "Default Track"		Ready for Production				
Influence of the Balls Number on the Friction Torque in Miniature Ball Bearings ID: 85 by CĂRLESCU, V., Cojocaru, D., Dumitrascu, A., Zaharia, A., Olaru, D. "Default Track"		Ready for Production				
Threaded Fastener Installation Strategies ID: 113 by Luca, D., Popa, G., Luca, L., Gavril Oprisan, C., Paleu, V. "Default Track"		Ready for Production				
Diagnosis and Maintenance Methods of Mechanical and Mechatronic Systems: A Review ID: 117 by Anuşca, B., Ilco, C., Paleu, V. "Default Track"		Ready for Production				

My Assigned		Search	Filters	New Submission
1812	Review Assignment STRUCTURAL RESPONSE OF A PROTECTIVE BRAKE SYSTEM SHIELD UNDER THERMAL LOAD	✓ Review Submitted	View	
1549	Review Assignment EXPERIMENTAL FRICTION TORQUE IN MINIATURE BALL BEARINGS GREASE LUBRICATED	✓ Review Submitted	View	
1531	Review Assignment FINITE ELEMENT ANALYSIS OF A SCALED BRIDGE SPAN: INFLUENCE OF VEHICLE MASS ON DISPLACEM...	✓ Review Submitted	View	
1452	Review Assignment OVERVIEW OF METHODS FOR ANALYZING MECHANICAL VIBRATIONS IN PCBS	✓ Review Submitted	View	
1309	Review Assignment A SIMPLIFIED FRICTION FORCE MODEL OF TRANSIENT SLIDING CONTACT BETWEEN HARD AND SOFT ...	✓ Review Submitted	View	
1304	Review Assignment APPROACHES TO STICK-SLIP ANALYSIS IN TRIBOLOGY	✓ Review Submitted	View	
1265	Review Assignment Wear of glass with soft materials	✓ Review Submitted	View	
845	Review Assignment APPROCHING OF THE LINE CONCENTRATED CONTACT AS A QUARTER SPACE PROBLEM - : A REVIEW	✓ Review Submitted	View	
818	Review Assignment STUDY OF SOUND ABSORBING PANELS USED IN IN ROAD TRAFFIC	✓ Review Submitted	View	

794	Review Assignment INFLUENCE OF MAINTAIN BUMPERS ON VEHICLE HOOD MODAL RESPONSE	✓ Review Submitted	View
406	Review Assignment VEHICLES LOADS INFLUENCE ON BOX GIRDER BRIDGES	✓ Review Submitted	View
376	Review Assignment HIGH-PRESSURE PUMPS EVOLUTION AND WEAR ANALYSIS METHODS	✓ Review Submitted	View
358	Review Assignment MODELING AND ANALYSIS OF THERMAL BEHAVIOUR FOR BRAKE DISCS	✓ Review Submitted	View
340	Review Assignment A5 Considerations on classification of the main components of the vehicles by their vibroacoustic fing...	✓ Review Submitted	View


Bulletin of the Polytechnic Institute of Iași. Mathematics. Theoretical Mechanics. Physics Section

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1639	Review Assignment The Acoustic Atom as a System of Two Radially Oscillating Bubbles	✓ Review Submitted	View
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III. Recunoaștere națională și internațională

D. Indicatori de performanță

D3 Participant la programe europene ERASMUS (**25 puncte**)

1. Universitatea Minho, Școala de Inginerie, Guimarães, Portugalia în 2021, **25p**

D4 Membru în comitete internaționale de programe (**500 puncte**)

1. International Conference on Advanced Concepts in Mechanical Engineering ACME 2022, 2024, 2026, 3·50=**150p**
2. International Conference Innovation in Engineering - ICIE, Guimarães, Portugal, în 2021, 2022, 2024, 2025 și 2026, 5·50=**250p**
3. International Conference of the Doctoral School - CDS, în 2025 și 2026, 2·50=**100p**

D13 Membru în comitete de conducere în asociații profesionale, membru în comisii de evaluare a programelor de studii la nivel de universitate precum și membru în alte comisii la nivel de facultate (de recepție, programare examene, inventariere, etc.), de universitate și de senat, s.a. (**1340 puncte**)

1. Membru fondator în Asociația Română de Tribologie (ART): 2021-2026 în 5 ani, 5·50=**250p**
2. Membru fondator în Asociația Absolvenților Facultății de Mecanică (AMIS): 2021-2026 în 5 ani, 5·50=**250p**
3. Membru responsabil de Noise Test la Formula Student Romania Competition: 2023-2026 în 4 ani, 4·10=**40p**
4. Membru în comisia de practică: 2021-2026 în 5 ani, 5·10=**50p**
5. Membru în Asociația Română de Mecatronică (SROMECA): 2021-2026 în 5 ani, 5·10=**50p**
6. Membru în Asociația Română de Transmisii Mecanice (ROAMET): 2021-2026 în 5 ani, 5·10=**50p**
7. Membru în comisia de evaluare și avizare internă a contractelor de cercetare-dezvoltare și prestări servicii: 2021-2026 în 5 ani, 5·10=**50p**
8. Membru în comisia de Dotare laborator Vibrații Mecanice și Prelucrarea datelor experimentale - Facultatea de Mecanică: 2021-2026 în 5 ani, 5·10=**50p**
9. Membru în comisiile de contestație pentru ocuparea unor posturi didactice scoase la concurs în semestrul I al anului universitar 2023/2024 (IMMR - conf. 16, 17 și 18): 3·10=**30p**
10. Membru în comisia de contestație pentru ocuparea unui post vacant de inginer gr.I, poz.2 scos la concurs (IMMR - decembrie 2024): 1·10=**10p**
11. Membru în comisiile de contestație pentru ocuparea unor posturi didactice scoase la concurs în semestrul I al anului universitar 2024/2025 (IMMR - ș.l. 23, 24, 25, 26, 27, 28, 29, 30 și 31): 9·10=**90p**
12. Membru în comisiile de contestație pentru ocuparea unor posturi didactice scoase la concurs în semestrul II

al anului universitar 2025/2026 (IMMR - asist. 59, 60 și 61): $3 \cdot 10 = 30p$

13. Membru în comisiile de presusținere a tezei de doctorat pentru doctoranzii: Stelian Cazan (2023), Iovan-Dragomir Alina (2023), Cornelia Paleu (2024), Zamă Andrei (2025), Adrian Ștefan (2025), $5 \cdot 10 = 50p$

14. Membru în comisiile de susținere a raportului de finalizare anul 1 la doctorat pentru doctoranzii: Ciubotariu Raul-George (2022), Macovei Gheorghe (2022), Chiriac Adelina-Elena (2023), Marica Mariana (2023), Vacaru-Carnaru Marius (2024), Maftai Alexandru (2025), Apricopoaie Eugen-Cristian (2026), Aburlăciței Radu-Dumitru (2026), Bujor Adrian-Cristian (2026), $9 \cdot 10 = 90p$

15. Membru în comisiile de susținere a referatelor la doctorat pentru doctoranzii: Iovan-Dragomir Alina (2 ani), Cornelia Paleu (3 ani), Adrian Ștefan (3 ani), Macovei Gheorghe (3 ani), Ciubotariu Raul-George (3 ani), Chiriac Adelina-Elena (3 ani), Isare Mariana (3 ani), Vacaru-Carnaru Marius (3 ani), Maftai Alexandru (2 ani), $25 \cdot 10 = 250p$

D15 Membru în comisii pentru concursuri pe posturi academice, de acordare a titlului de DHC, doctorat și abilitare (**40 puncte**)

- membru în comisii pentru concursuri pe posturi academice (20p/comisie)

1. Comisie concurs post de asistent universitar 47 IMMR 2022/2023 - dr.ing. Popescu Andrei

2. Comisie concurs post de șef de lucrări universitar 27 IMMR 2024/2025 - asist.dr.ing. Măriuca-Cezara Gavril

total: $2 \cdot 20 = 40p$

prof.univ.ab.dr.ing. Marcelin BENCHEA

Semnătura

Data: 19/10/2026