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Facultatea: **Ingineria Materialelor și Mecanică**

Departamentul: **MEIR**

LISTA

lucrărilor științifice în domeniu

A. Teza de doctorat

Cercetări privind uzarea ghidajelor mașinilor unelte cu influență asupra preciziei de prelucrare, Domeniul Inginerie mecanica, UPB

B. Carti/indrumare de specialitate si capitole din carti publicate in edituri cu ISBN

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3. **Petre I.** – Organe de masini si Mecanisme, Editura Valahia University Press, ISBN 978-606-603-191-2, p185, 2018.
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5. **Petre I.** – Probleme rezolvate de mecanică și rezistență, Editura Valahia University Press, ISBN 978-606-603-160-8, p.155, format electronic, 2017;
6. **Petre I.** – Infografică – suport de laborator, Editura Valahia University Press, ISBN 978-606-603-158-5, p.50, format electronic, 2017;
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D. Proiecte de cercetare-dezvoltare-inovare pe baza de contract/grant

Director de proiect

1. Dezvoltarea conceptului de pașaport tribologic cu aplicație la materialele compozite și implicații asupra durabilității organelor de mașini, contract (tip C) – ANSTI, cu număr 6159/20.X.2000-2001 (val 26000 lei) valoare 1euro=2RON;
2. Cercetări privind influența uzurii sistemului tehnologic ghidaj batiu-sanie-sculă, asupra preciziei de prelucrare pe mașini unelte – contract propus pentru evaluare de tip At., CNCSIS cod 219, 2001-2002 (val 40000) valoare 1euro=2,7 RON;
3. Studii și cercetări privind uzura cuplelor de alunecare din structura sistemelor mecanice și a implicațiilor acestora asupra fiabilității, Grant Competiție internă a Universității Valahia Targoviste, 2005-2006. Grant anual de cercetare științifică pentru seniori TIP S – 2005, nr. DCS/S13. (val 34000), valoare 1euro=4 RON.
4. *Responsabil logistică* - proiect PHARE cu titlul Centru pentru formare continuă și consultanță în ingineria asistată de calculator RO – 0007-02.01.01.0162 (2003-2004 director prof. dr.ing.Iordache Stefania UVT), val contract 50.000Euro;

Membru în contracte de cercetare

1. Relansin/1999, nr. 131 Proiect 2737/1999 cu tema Acoperiri metalo-ceramice cu proprietăți tribologice superioare pentru aplicații în industria petrolieră, textilă și constructoare de mașini, durata contractului (1999-2002), în colectivul *Centrului de excelență în inginerie mecanică și tribologie (CESIT)* din departamentul Organe de mașini și Tribologie al Universității POLITEHNICA din București. Valoarea totală a contractului a fost de 1 350 mil. lei, din care finanțare bugetară de 600 mil lei (1 euro2,5RON).
2. Orizont 2000 – CESIT A24/2002 – Rugozitatea optimă la diferite prelucrări mecanice și evaluarea calitatii suprafețelor prin stabilirea parametrilor fractali (2002-2003), val contract 19000000lei (Centrul dec excelența în inginerie mecanică și tribologie – CESIT, 1euro3RON);
4. proiect RELANSIN nr. 1982/15.09.2004-2006 cu titlul Metodă de automatizare și informatizare a mașinilor unelte convenționale, prin utilizarea unor sisteme mecatronice și a unor tehnici computerizate de comandă, conducere și automatizare (director prof. dr.ing.Filip Viviana) valoarea totală a contractului 185000lei (1 euro 3,5RON);
5. Performanțe tribologice ale lichidului de ungere AZOL (1998-1999), val contract 1200mil lei, (societatea SCAGIL SRL Targoviste, 1euro1,8);
6. proiect PHARE cu titlul Ridicarea nivelului de pregătire profesională a personalului din întreprinderile petroliere în contextual restructurării industriale RO-0007. 02. 01. 02. 0329 (2003-2004 director prof. dr.ing.Zaharia Sorin UVT) ;

E. Brevete - inovatie

1. autor -Tehnologie de execuție a roților melcate cu consum redus de material deficitar nr.1120/16.11. 1989;
2. coautor - Strung automat monoax cu avans longitudinal al barei tip SAL 13 P, nr. 5244/29.12.89.

Data: 01.02.2021

Semnătura

A handwritten signature in blue ink on a light-colored, textured background. The signature is cursive and appears to read 'I. I. I.' or similar.