

PERSONAL INFORMATION **Păcurar Ancuța Carmen**



POSITION Lecturer,
Technical University of Cluj-Napoca, Faculty of Machine Building, Dept. of Manufacturing Engineering

WORK EXPERIENCE

2012 - present **Lecturer**
Technical University of Cluj-Napoca, Faculty of Machine Building, Dept. of Manufacturing Engineering
Education and research

2008 - 2012 **Teacher Assistant**
Technical University of Cluj-Napoca, Faculty of Machine Building, Dept. of Manufacturing Engineering
Education and research
Domain: Industrial Engineering

EDUCATION AND TRAINING

2004 - 2011 **Doctor**
Technical University of Cluj-Napoca
• PHD Thesis: Contributions regarding the implementation of the computerized maintenance systems, Scientific Coordinator: Acad.dr.eng. Csaba Gyenge
Domain: Industrial Engineering

2005 - 2006 **MSc studies**
Technical University of Cluj-Napoca, **Specialization:** Computer Aided Design for Modern Technologies
Domain: Industrial Engineering

2003 **Teaching Aptitudes studies**
Graduate certificate for Teaching Aptitudes at Technical University of Cluj-Napoca
Domain: Industrial Engineering

1999 - 2004 **BSc studies**
Technical University of Cluj-Napoca, **Specialization:** Engineering and Mangement of the Manufacturing Systems, Machine Building Faculty
Domain: Industrial Management

PERSONAL SKILLS

Mother tongue(s)	Romanian
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Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
	Replace with name of language certificate. Enter level if known.				
Spanish	B2	B2	B2	B2	B2
	Replace with name of language certificate. Enter level if known.				
	Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user Common European Framework of Reference for Languages				

Communication skills ▪ good communication skills gained through my experience as sales teacher

Organisational / managerial skills ▪ leadership (currently responsible for students group)

Computer skills ▪ good command of Microsoft Office™ tools, AUTOCAD, SolidWorks, CATIA, SimaPro

Driving licence ▪ B

ADDITIONAL INFORMATION

Teaching activity

- Manufacturing Technologies
- Assembly Technologies
- Design for Environment
- Equipment Manufacturing Technology
- Assembly Process Engineering
- Distribution of Industrial Products

Books

- Domnita Fratila. Adrian Radu, **Ancuta Pacurar**, Razvan Pacurar s.a. -Tehnologii de Fabricatie – Îndrumator pentru lucrari de laborator, U.T.PRES, Cluj-Napoca, 2011, ISBN 978-973-662-626-5.
- Csaba Gyenge, **Ancuța Păcurar**, Nicolae Bâlc, Răzvan Păcurar, “Tehnologii și echipamente de asamblare”, Editura Tehnică Info Chișinău, 2015, pag.300, ISBN 978-9975-63-383-3.
- Răzvan Pacurar, **Ancuța Păcurar**, chapter “Applications of the Selective Laser Melting Technology in the Industrial and Medical Fields”, published in the book entitled „New Trends in 3D Printing”, edited by: dr. Igor V Shishkovsky, Open-access book, IN-Tech Publishing House, Rijeka, Croatia, 2016, 26 pages, ISBN 978-953-51-4668-1.
- **Ancuța Păcurar**, “ Applications of Design for Manufacturing and Assembly”, edited by Ancuta Pacurar, IN-Tech Publishing House, Rijeka, Croatia, 2019, pag.90, DOI: 10.5772/intechopen.75475, ISBN: 978-1-78984-936-3, Print ISBN: 978-1-78984-935-6, eBook (PDF) ISBN: 978-1-83881-825-8.
- **Ancuța Păcurar**, chapter “Applications of Design for Manufacturing and Assembly”, published in the book entitled “Applications of Design for Manufacturing and Assembly”, published by IN-Tech Publishing House, Rijeka, Croatia, 2019, pag.5, DOI: 10.5772/intechopen.75475, ISBN: 978-1-78984-936-3, Print ISBN: 978-1-78984-935-6, eBook (PDF) ISBN: 978-1-83881-825-8.
- **Ancuța Păcurar**, “ Cercetari privind metodele de mentenenta”, Editura Risoprint, Cluj-Napoca, 2021, pag.230, eBook (PDF) ISBN 978-973-53-2710-1.
- **Ancuța Păcurar**, Tehnologii de asamblare - Îndrumator de laborator,Editura Risoprint, Cluj-Napoca, 2021, pag.70, eBook (PDF) ISBN 978-973-53-2711-8.

Representative publications

- **Ancuța PACURAR**, Csaba GYENGE, Annamaria RAFA, *Experimental Research Regarding The Application Of The Predictive Maintenance Procedure Within Paper Industry*, ACTA TECHNICA NAPOCENSIS of the Technical University of Cluj-Napoca, Applied Mathematics and Mechanics, Vol.55, ISSUE I, Cluj-Napoca, pag. 215-220, ISSN 1221-5872, 2012.
- R.Pacurar, **A. Pacurar**, P. Berce, N.Balc, O. Nemes, “*Porosity Change By Resin Impregnation In Structures Obtained By Selective Laser Sintering Technology*”, Studia UBB Chemia, LVII, 3, pp. 5-13, 2012 (ISI- Science Citation Index Expanded (SciSearch®, factor de impact: 0,129).
- R Păcurar, **A Păcurar**, “Finite Elements Analysis to Improve the Accuracy of Parts Made by Stainless Steel 316L Material Using Selective Laser Melting Technology”, Applied Mechanics and Materials, volume 657, pp. 236-240, 2014.
- **Pacurar, Ancuța**; Pacurar, Razvan; Eross, Beata By.; et al.: Decreasing of the manufacturing time for a thermoforming mold by applying the DFM principles. 13th International Conference on Modern Technologies in Manufacturing (MTeM-AMaTUC), Cluj Napoca, Book Series: MATEC Web of Conferences Volume: 137 Article Number: UNSP 01008, 2017.
- Pacurar, Razvan; **Pacurar, Ancuța**; Balc, Nicolae: Research on the mechanical behaviour of an airplane component made by selective laser melting technology, 4th International Conference on Computing and Solutions in Manufacturing Engineering (CoSME), Brasov, Book Series: MATEC Web of Conferences Volume: 94 Article Number: UNSP 03012, 2017.
- R Pacurar, **A Pacurar**, S Pop, Designing of an innovative extrusion system for metallic parts made by desktop 3D printing method, MATEC Web of Conferences vol. 178, 02009 (2018) <https://doi.org/10.1051/mateconf/201817802009> IManE&E 2018.
- **Ancuța Păcurar**, Monica Rău, Răzvan Păcurar, Eugen Guțiu, Laura Bacali, Cosmin Cosma, Research regarding the design and manufacturing of hand orthosis by using Fused Deposition Modeling technology, MATEC Web of Conferences vol. 299, 01008 (2019), <https://doi.org/10.1051/mateconf/201929901008> MTeM 2019.
- Răzvan Păcurar, Valentin Buzilă, **Ancuța Păcurar**, Eugen Guțiu , Sergiu Dan Stan, Petru Berce, Research on improving the accuracy of FDM 3D printing process by using a new designed calibrating part, MATEC Web of Conferences vol.299, 01007 (2019), <https://doi.org/10.1051/mateconf/201929901007> MTeM 2019.
- **Ancuța PACURAR**, Răzvan PĂCURAR, Beáta ERŐSS, Cristina MIRON-BORZAN, Optimal Tool Path Strategies For Decreasing The Manufacturing Time Of One Thermoforming Mold, ACTA TECHNICA NAPOCENSIS, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 64, Issue I, March, 2021.
- R Păcurar, B Danci, **A Păcurar**, Research on optimal scaling of parts made from stainless steel material by Selective Laser Melting, 2021 9th International Conference on Modern Power Systems (MPS), IEEE Xplore, 16-17 June 2021, Cluj-Napoca, Romania, 2021;
- **Pacurar, A.**, Tomsea, A., Vilau, C., Gutiu, E., Pacurar, R., Designing and manufacturing of an ankle orthosis using 3D printing technology, Acta Technica Napocensis Series-Applied Mathematics Mechanics And Engineering 2021, Vol 64, Issue 4, Page 561-564, ISSN1221-5872, WOS:000731519800006;
- Pacurar, R., Chincisan, D., Vilau, C., **Pacurar, A.**, Designing and manufacturing of an internal combustion engine connecting rod made of ALSi10MG material using selective laser melting technology, Acta Technica Napocensis Series-Applied Mathematics Mechanics And Engineering 2021, Vol 64, Issue 4, Page 547-552, ISSN1221-5872, WOS:000731519800004.

Projects

- Research project/programme 2003-2006 „Implementation of the risk based maintenance concept within the industrial companies from Transilvania region”. Sapiientia Foundation from Cluj-Napoca. Project Director: Prof.Dr.Ing. Gyenge Csaba.
- Project CNCSIS, cod 1546, 2007-2008: „Research on life cycle stage optimisation of the products and processing by ecological cutting technology of the parts. CNCSIS 1546/2007 Manager of the Project Prof.dr.eng. Ros Olimpia.
- Complex exploratory research project (2010-2013): “New type of biocompatible materials for the customized medical implants made by SLS and SLM technologies (BIOMAPIM)”, Project director: Prof.dr.eng. Petru Berce
- Project HORIZON 2020 TWINNING -2016-1019:„Boosting the scientific excellence and innovation capacity in additive manufacturing of the TUCN – AMaTUC”, research budget: 1.000.000 euro. Project director: Prof.dr.ing. Nicolae Balc.
- Proiect nr.14196 / 2021 „Cercetări privind proiectarea și fabricația a unor ambalaje ecologice,, Project director: Ancuta Pacurar.
- Project Erasmus+ KA 203 „Development of mechatronics skills and innovative learning methods for Industry 4.0”, 18.03.20-01.07.2020 and 09.11.2020-31.03.2021. Project director: Conf dr.ing. Sergiu Dan Stan.
- Project H2020 - SMART2/2019 „Advanced integrated obstacle and track intrusion detection system for smart automation of rail transport,, no. 881784/2019, 01.02.2022-31.03.2022. Project director: Conf dr.ing. Sergiu Dan Stan.

ANNEXES

Cluj-Napoca, 28.05.2022

Lecturer dr.eng. Păcurar Ancuța Carmen

