



doc. Ing. Miriam Pekarčíková, PhD., Ing. Paed. IGIP
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CURRICULUM

- 1997-2002: university studies at Sjf TU in Košice, Department of Management and Economics,
field of study: Economics and management of engineering production
- 2007-2009: doctoral studies at Sjf TU in Košice, Department of Management and Economics,
field of study: Industrial Engineering
- 2008-2009: University pedagogy according to the standard curriculum for engineering pedagogy IGIP,
TU in Košice, Department of Engineering Education
- 2016: Quality management of higher education, TU in Košice,
Department of Engineering Pedagogy
- 2017: awarded the title of Ing. Paed. IGIP
- 2019: Associate Professor in the field of study "Industrial Engineering"
Technical University of Košice,
Faculty of Mechanical Engineering
- 2004–2019: University teacher working as a professional assistant
- 2019-present: University teacher working as a Associate Professor

LANGUAGE SKILLS

English language, German language

SCIENTIFIC ACTIVITIES

- Industrial engineering, digital engineering, logistics, digital logistics

PEDAGOGICAL ACTIVITIES

- conducting exercises and lectures on the subjects: Logistics systems, Modeling and simulation of logistics processes, Business processes and systems, Process management, Industrial engineering, Business strategies, and others.

PROJECTS

1. APVV-19-0418 Intelligent solutions to enhance business innovation capability in the process of transforming them into smart businesses. (2019-2024) Principal investigator.
2. VEGA 1/0508/22 Innovative and digital technologies in manufacturing and logistics processes and systems (2022-2025) Principal investigator.
3. APVV-17-0258 Digital engineering elements application in innovation and optimization of production flows. (2018-2022) Co-investigator.
4. KEGA 001TUKE-4/2020 Modernizing Industrial Engineering education to Develop Existing Training Program Skills in a Specialized Laboratory. (2020-2022) Deputy principal investigator.
5. VEGA 1/0438/20 Interaction of digital technologies to support software and hardware communication of the advanced production system platform (2020-2023) Deputy principal investigator.
6. KEGA 020TUKE-4/2023 Systematic development of the competence profile of students of industrial and digital engineering in the process of higher education (2023-2025) Co-investigator.

FOREIGN STAYS

Faculty of Mechanical Engineering, University of West Bohemia in Pilsen - invited lectures

MEMBERSHIPS, AWARDS

Member of the editorial board of the journals: Acta Logistica, Maneko

NUMBER OF PUBLICATIONS: more than 240

NUMBER OF CITATIONS: more than 360

SELECTED PUBLICATION

AAA - Scientific monographs published by foreign publishing houses (3)

1. AAA001 [134825] **Supply and distribution logistics** / Peter Trebuňa, Milan Filo, Miriam Pekarčíková - 1. vyd. - Ostrava : Amos - 2013. - 133 p.. - ISBN 978-80-87691-02-1. [TREBUŇA, Peter - FILO, Milan - PEKARČÍKOVÁ, Miriam]
2. AAA002 [212949] **Modelling and simulation of production systems in industrial and digital engineering** / Peter Trebuňa ... [et al.] - 1. vyd. - Lüdenscheid : RAM-Verlag - 2019. - 441 s. [print]. - ISBN 9783942303927. [TREBUŇA, Peter - PEKARČÍKOVÁ, Miriam - KLIMENT, Marek - TROJAN, Jozef - MIZERÁK, Marek]
3. AAA003 [300185] **Strategic and Process Management** / Miriam Pekarčíková, Peter Trebuňa,

Jaroslava Kádárová - 1. vyd. - Lüdenscheid : RAM-Verlag - 2021. - 350 s. [print]. - ISBN 978-96595-006-1.[PEKARČÍKOVÁ, Miriam - TREBUŇA, Peter - KÁDÁROVÁ, Jaroslava]

AAB - Scientific monographs published by domestic publishing houses (1)

1. AAB001 [300828] **Logistika pre priemyselné inžinierstvo** / Miriam Pekarčíková ... [et al.] - 1. vyd. - Košice : Technická univerzita v Košiciach - 2021. - 333 s. [print]. - ISBN 978-80-553-3988-7. [PEKARČÍKOVÁ, Miriam - TREBUŇA, Peter - KRÁL, Štefan - DUDA, Richard]

ACB - University textbooks published by domestic publishers (4)

1. ACB001 [115736] **Zásobovacia a distribučná logistika** / Peter Trebuňa, Miriam Pekarčíková - 1. vyd - Košice : TU, SjF - 2011. - 201 s.. - ISBN 978-80-553-0797-8. [TREBUŇA, Peter - PEKARČÍKOVÁ, Miriam]
2. ACB002 [131386] **Zásobovacia a distribučná logistika v príkladoch** / Peter Trebuňa, Milan Filo, Miriam Pekarčíková - 1. vyd - Košice : TU - 2012. - 212 s.. - ISBN 978-80-553-1276-7. [TREBUŇA, Peter - FIL'O, Milan - PEKARČÍKOVÁ, Miriam]
3. ACB003 [203875] **Metódy a systémy riadenia výroby v priemyselnom inžinierstve** / Peter Trebuňa ... [et al.] - 1. vyd. - Košice : Technická univerzita v Košiciach - 2019. - 210 s. [print]. - ISBN 978-80-553-3280-2. [TREBUŇA, Peter - PEKARČÍKOVÁ, Miriam - KLIMENT, Marek - TROJAN, Jozef]
4. ACB004 [226784] **Procesný manažment** / Miriam Pekarčíková ... [et al.] - 1. vyd. - Košice : Technická univerzita v Košiciach - 2020. - 235 s.. - ISBN 978-80-553-3750-0. [PEKARČÍKOVÁ, Miriam - TREBUŇA, Peter - KÁDÁROVÁ, Jaroslava - EDL, Milan]

ADC - Scientific works in foreign current content journals (11)

1. ADC001 [183826] **Application of EXTENDSIM for improvement of production logistics' efficiency** / M. Straka ... [et al.] - 2017.In: International Journal of Simulation Modelling. Vol. 16, no. 3 (2017), p. 422-434. - ISSN 1726-4529 [STRAKA, Martin - MALINDŽÁKOVÁ, Marcela - TREBUŇA, Peter - ROSOVÁ, Andrea - PEKARČÍKOVÁ, Miriam - FILL, Maroš]
2. ADC002 [188990] **The effect of pressure, bias voltage and annealing temperature on N-2 and N-2 + SiH4 doped WC/C DC magnetron sputtered layers** / Peter Horňák ... [et al.] - 2018.In: Ceramics-Silikáty. Vol. 62, no. 1 (2018), p. 97-107. - ISSN 0862-5468 [HORŇÁK, Peter - KOTTFER, Daniel - KACZMAREK, Lukasz - KIANICOVÁ, Marta - BALKO, Ján - REHÁK, František - PEKARČÍKOVÁ, Miriam - ČIŽNÁR, Peter]
3. ADC003 [192051] **Evaluating the replacement of galvanic Cr coatings** / Peter Trebuňa ... [et al.] - 2018.In: Polish Journal of Environmental Studies. Vol. 27, no. 3 (2018), p. 1289-1296. - ISSN 1230-1485 [TREBUŇA, Peter - KOTTFER, Daniel - PEKARČÍKOVÁ, Miriam - PETRIKOVÁ, Andrea - POPOVIČ, Radko - REHÁK, František - ČIŽNÁR, Peter]
4. ADC004 [203724] **Digital value stream mapping using the Tecnomatix Plant Simulation software** / P. Trebuna, M. Pekarčíkova, M. Edl - 2019.In: International Journal of Simulation Modelling = IJSIMM. - Wolkersdorf im Weinviertel (Rakúsko) : DAAAM International Vienna Roč. 18, č. 1 (2019), s. 19-32 [print]. - ISSN 1726-4529 Spôsob prístupu: http://www.ijsimm.com/Full_Papers/Fulltext2019/text18-1_19-32.pdf. [TREBUŇA, Peter - PEKARČÍKOVÁ, Miriam - EDL, Milan]
5. ADC005 [221723] **Production efficiency evaluation and products' quality improvement using simulation** / Marek Kliment ... [et al.] - 2020.In: International Journal of Simulation Modelling = IJSIMM. - Wolkersdorf im Weinviertel (Rakúsko) : DAAAM International Vienna Roč. 19, č. 3 (2020), s. 470-481 [print]. - ISSN 1726-4529 Spôsob prístupu: <https://doi.org/10.2507/IJSIMM19-3-528>. [KLIMENT, Marek - TREBUŇA, Peter - PEKARČÍKOVÁ, Miriam - STRAKA, Martin - TROJAN, Jozef - DUDA, Richard]
6. ADC006 [221767] **Material flow optimization through e-kanban system simulation** / Miriam

- Pekarčíková ... [et al.] - 2020.In: International Journal of Simulation Modelling = IJSIMM. - Wolkersdorf im Weinviertel (Rakúsko) : DAAAM International Vienna Roč. 19, č. 2 (2020), s. 243-254 [print]. - ISSN 1726-4529 Spôsob prístupu: <https://doi.org/10.2507/IJSIMM19-2-513>. [PEKARČÍKOVÁ, Miriam - TREBUŇA, Peter - KLIMENT, Marek - ROSOCHA, Ladislav]
7. ADC007 [229807] **Simulation testing of the e-kanban to increase the efficiency of logistics processes** / Miriam Pekarčíková ... [et al.] - 2021.In: International Journal of Simulation Modelling = IJSIMM. - Wolkersdorf im Weinviertel (Rakúsko) : DAAAM International Vienna Roč. 20, č. 1 (2021), 134-145 [print]. - ISSN 1726-4529 Spôsob prístupu: <https://doi.org/10.2507/IJSIMM20-1-551>. [PEKARČÍKOVÁ, Miriam - TREBUŇA, Peter - KLIMENT, Marek - MIZERÁK, Marek - KRÁL, Štefan]
 8. ADC008 [300748] **Solution of Bottlenecks in the Logistics Flow by Applying the Kanban Module in the Tecnomatix Plant Simulation Software** / Miriam Pekarčíková ... [et al.] - 2021.In: Sustainability. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 13, č. 14 (2021), s. [1-21] [online]. - ISSN 2071-1050 (online) Spôsob prístupu: <https://doi.org/10.3390/su13147989>. [PEKARČÍKOVÁ, Miriam - TREBUŇA, Peter - KLIMENT, Marek - DIC, Michal]
 9. **teaching methods of industrial engineering as well as industrial practice** / Marek Kliment ... [et al.] - 2021.In: Sustainability. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 13, č. 16 (2021), s. [1-16] [online]. - ISSN 2071-1050 (online) Spôsob prístupu: <https://doi.org/10.3390/su13168963>. [KLIMENT, Marek - PEKARČÍKOVÁ, Miriam - TREBUŇA, Peter - TREBUŇA, Martin]
 10. V3006 [304972] **Case Study: 3D Modelling and Printing of a Plastic Respirator in Laboratory Conditions** / Miriam Pekarčíková ... [et al.] - 2022.In: Applied sciences. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 12, č. 1 (2022), s. [1-15] [online]. - ISSN 2076-3417 (online) Spôsob prístupu: <https://doi.org/10.3390/app12010096>. [PEKARČÍKOVÁ, Miriam - TREBUŇA, Peter - KLIMENT, Marek - KRÁL, Štefan]
 11. V3007 [304973] **Milk run testing through tecnomatix plant simulation software** / Miriam Pekarčíková ... [et al.] - 2022.In: International Journal of Simulation Modelling = IJSIMM. - Wolkersdorf im Weinviertel (Rakúsko) : DAAAM International Vienna Roč. 21, č. 1 (2022), s. 101-112 [print]. - ISSN 1726-4529 Spôsob prístupu: <https://doi.org/10.2507/IJSIMM21-1-593>. [PEKARČÍKOVÁ, Miriam - TREBUŇA, Peter - KLIMENT, Marek - SCHMACHER ABDULLAH KARL, Benjamin]

BCI - Scripts and teaching texts (4)

1. BCI001 [57591] **Všeobecná ekonomická teória** / Andrej Šutaj-Eštok ... [et al.] - 1. vyd. - Košice : TU SjF, - 2006. - 220 s.. - ISBN 80-8073-741-X. [ŠUTAJ-EŠTOK, Andrej - TREBUŇA, Peter - PEKARČÍKOVÁ, Miriam - KRÁL, Ján - SIRKOVÁ, Michaela - NAŠČÁKOVÁ, Jana - MALÁK, Miroslav]
2. BCI002 [66336] **Vybrané kapitoly z marketingu** / Peter Trebuňa, Miriam Maguláková, Ján Král - 1. vyd - Košice : TU, SjF, - 2007. - 210 s. - ISBN 978-80-8073-881-5. [TREBUŇA, Peter - PEKARČÍKOVÁ, Miriam - KRÁL, Ján]
3. BCI003 [69971] **Podnikové hospodárstvo** / Kazimír Kmeť ... [et al.] - 1. vyd - Košice : TU, SjF, - 2007. - 156 s. - ISBN 978-80-8073-988-1. [KMEŤ, Kazimír - ŠEBO, Juraj - TREBUŇA, Peter - PEKARČÍKOVÁ, Miriam]
4. BCI004 [203855] **Podnikové stratégie** / Peter Trebuňa, Miriam Pekarčíková - 1. vyd. - Košice : Technická univerzita v Košiciach - 2019. - 170 s. [print]. - ISBN 978-80-553-3278-9. [TREBUŇA, Peter - PEKARČÍKOVÁ, Miriam]

