

CURRICULUM VITAE

Full Prof. PaedDr. Ing. Roman Hrmo, PhD., MBA, ING-PAED IGIP

Kozácka 23, 917 02 Trnava, Slovakia
+421 917 409 917, hrmo@dti.sk
DoB: 24/10/1964

EDUCATION

2020	DTI University, Slovakia – Professor Major: Teacher Training and Education Science
2019	DTI University, Slovakia – PaedDr. Major: Doctor of Education
2016 – 2018	DTI University, Slovakia – Mgr. / Master Major: Teacher Training
2016 – 2017	DTI University, Slovakia – MBA / Master of Business Administration Major: Management
2004	Slovak University of Technology, Faculty of Materials Science, Trnava, Slovakia – Docent / Associate Professor Major: Theory of teaching technical vocational subjects
1987 – 1991	Slovak University of Technology, Faculty of Materials Science, Department of Engineering Pedagogy and Psychology, Slovakia – PhD. Major: Theory of Teaching Technical Subjects PhD. thesis: Increasing Efficiency of Teaching Process of General and Specific Subjects at Secondary Schools by Using Video- Technology
1982 – 1987	Technical University in Košice, Slovakia – M.Sc.(Eng) / Master of Science in Engineering Major: Machinery equipment for the construction industry, mineral processing and agriculture

ACADEMIC EMPLOYMENT

- 2012 – present **University professor / Vicerector for quality and development,**
DTI University, Ul. Sládkovičova 533/20, 018 41 Dubnica nad
Váhom, Slovakia
Educational activities, quality assurance management, top
management, research and academic activities
- 2007 – 2012 **University teacher (associate professor) / Director of the Institute,**
Slovak University of Technology, Faculty of Materials Science,
Institute of Engineering Pedagogy and Humane Sciences, Paulínska
16, 917 24, Trnava, Slovakia
Teaching, research activities, managerial work, academic activities
- 1991 – 2007 **University teacher (senior assistant / assistant professor) / Deputy
Head, Head of the Department,** Slovak University of Technology,
Faculty of Materials Science, Institute of Engineering Pedagogy and
Humane Sciences, Paulínska 16, 917 24, Trnava, Slovakia
Teaching, research and academic activities, organising and
managerial activities
- 1989 – 1991 **Full-time doctoral candidate,** Slovak University of Technology,
Faculty of Materials Science, Department of Engineering Pedagogy
and Psychology, Laurinská 14, 811 01, Bratislava, Slovakia
studying, teaching and research activities

PROFESSIONAL EMPLOYMENT

- 1987 – 1989 **Senior constructor,** Research Institute of Engineering and
Consumer Goods, Piešťany, Slovakia

OTHER EDUCATION

- 1997 IGIP/ International Society for Engineering Education,
Universitätsstrasse 65-67, A-9020 Klagenfurt, Austria – ING-PAED
IGIP
Major: European Engineering Educator, International Teacher's
Certificate
- 2019 QSCert, s. r. o., E. P. Voljanského 1, 960 01 Zvolen, Slovakia –
Certificate
Major: Quality manager according to ISO 9001:2015

SOFTWARE

expert **Microsoft Office, LMS**

RESEARCH PROJECTS

2022 – present **KEGA 002VŠDTI-4/2022 Creation of an interactive support tool for beginning teachers of upper secondary education in Slovakia**
project team member

11/2018 – 11/2022 **ENTER – EngineeriNg educaTors pEdagogical tRaining** (Project Number 598506-EPP-1-2018-1-PT-EPPKA2-CBHE-JP)
project team member

2020 – 2022 **KEGA 014UKF-4/2020 Innovative learning e-modules for safety in dual education**
project team member

2008 – 2010 **KEGA 3/6026/08 Innovation of the study program Teaching technical professional subjects at MTF STU**
project team leader

2011 – 2013 **KEGA 026STU-4/2011 Model for evaluating the quality of vocational education and training at secondary vocational schools in the Slovak Republic**
project team leader

2008 – 2010 **KEGA 3/6216/08 Introduction of the subject "Leading to entrepreneurship" into the study program Teaching technical professional subjects II. degree at MTF STU in Trnava**
project team member

2010 – 2011 **KEGA 031-035STU-4/2010 Models of project teaching at secondary school**
project team member

2018 – 2019 **KEGA 004DTI-4/2018 Model that will support the development of emotional intelligence of pupils at secondary vocational schools**
project team member

2017 – 2019	KEGA 016UCM-4/2017 Implementation of the project for improving the quality of graduates into practice at secondary technical and vocational schools project team member
2016 – 2017	KEGA 006DTI-4/2016 Model of assessment and quality improvement of the educational process at secondary vocational schools project team member
2015 – 2016	KEGA 010UCM-4/2015 Model for improving the quality of graduates and job applicants in European labour market project team member
2005 – 2007	VEGA 1/2533/05 Key competences of students of technical fields of study in the national and European context project team member
2005 – 2007	VEGA 1/2531/05 Dominant determinants of engineering pedagogy and its role after the Slovak Republic joined the EU project team member
10/2006 – 12/2010	APVV LPP-0202-06 Science closer to students project team member
05/2010 – 04/2013	ITMS 26110230023 Development of pedagogical skills of MTF STU doctoral students project team member (professional guarantor of the project)
10/2010 – 09/2012	ITMS 26110130353 „Strojmele inak“ project team member
11/2013 – 08/2015	ITMS 26110230091 Manager of services in the automotive industry project team member
05/2009 – 02/2014	ITMS 26110130085, ITMS 2614013005 Teacher education in connection with the creation of school educational programs project team member

PUBLICATIONS

Number of the research outputs: 257+

Number of the research outputs registered in the Web of Science or Scopus databases: 34

Number of citations corresponding to the research outputs: 380+

Number of citations registered in the Web of Science or Scopus databases: 56+

Number of invited lectures at the international, national level: 11

ORCID ID: 0000-0003-2458-2706

WOS Researcher ID: EZB-0704-2022

SCOPUS Author ID: 36447454600

Scientific and Pedagogical Outputs (2024 – 2025)

Pedagogical Outputs (University Textbooks)

Pecina, P., & Hrmo, R. (2024). *Issues of Teaching Aids and Instructional Materials in Vocational Education at Secondary Schools*. 1st ed. Dubnica nad Váhom: DTI University.

Scientific Outputs as Parts of Edited Books or Conference Proceedings

Hašková, A., Valentová, M., Brečka, P., & Hrmo, R. (2025). *Teachers continuing professional development: Its planning and realization*. In: *Futureproofing Engineering Education for Global Responsibility: Proceedings of the 27th International Conference on Interactive Collaborative Learning (ICL2024)*. Cham: Springer Nature, pp. 409-419. Indexed in **WoS CC** and **Scopus**.

Szőkö, I., Hrmo, R., Kučerka, D., & Krištofiaková, L. (2025). *The Use of Material Teaching Aids in Education*. In: *Futureproofing Engineering Education for Global Responsibility: Proceedings of the 27th International Conference on Interactive Collaborative Learning (ICL2024)*. Cham: Springer Nature, pp. 397-408. Indexed in **WoS CC** and **Scopus**.

Peer-Reviewed Journal Articles

Tokoš, P., Huľová, Z., Hrmo, R., & Krištofiaková, L. (2025). *Implementation of Project-Based Learning in the Professional Subject of Scripting*. In: *International Journal*

of Information and Education Technology. Singapore: IACSIT Press. Vol. 15, no. 11, pp. 2518-2527. Indexed in **Scopus**.

Bajúzová, M., & Hrmo, R. (2024). *Digital Tools in Education: The Impact of Digital Tools in Education on Students' Creativity*. In: *R&E-Source*. Baden: Pädagogische Hochschule Niederösterreich. Vol. 11, no. 1, pp. 4-18.

Hrmo, R., Szőköl, I., & Krištofiaková, L. (2024). *Opportunities for Improving the Quality of Education and Pedagogical Teacher Training, within an International Context*. In: *Acta Polytechnica Hungarica*. Budapest: Óbuda University. Vol. 21, no. 3, pp. 109-124. Indexed in **WoS CC** and **Scopus**.

Hul'ová, Z., Tokoš, P., Bolčová, E., Hrmo, R., & Krištofiaková, L. (2024). *Creating a Battery of Subtests to Measure Students' Skills in Technical Education*. In: *TEM Journal*. Novi Pazar: Association for Information Communication Technology Education and Science. Vol. 13, no. 4, pp. 3405-3412. Indexed in **WoS CC** and **Scopus**.

Straková, N., & Hrmo, R. (2024). *Didactic Design of Teaching Materials Created by Future Teachers in the Czech Republic*. In: *International Journal of Engineering Pedagogy*. Vienna: International Association of Online Engineering. Vol. 14, no. 5, pp. 4-23. Indexed in **WoS CC**.

Statistical Summary of Indexed Records (2024 – 2025)

Total number of records in Web of Science (WoS CC): 5.

Total number of records in Scopus (SCO): 5.

MONOGRAPHS AND TEXTBOOKS

HRMO, R. at all. 2025. *The Use of Material Teaching Aids in Education*. In: Futureproofing Engineering Education for Global Responsibility. ISBN (online) 978-3-031-83520-9.

HAŠKOVÁ, A., VALENTOVÁ, M., BREČKA, P., HRMO, R. 2024. *Teachers continuing professional development: Its planning and realization*. International Conference on Interactive Collaborative Learning, In: Futureproofing Engineering Education for Global Responsibility DOI 10.1007/978-3-031-83520-9_38.

HRMO, R., TUREK, I. 2003. *Kľúčové kompetencie I (Key competences I)*. Bratislava : STU v Bratislave, 2003. 178 s. ISBN 80-227-1881-5.

HRMO, R., ŠKRABÁNKOVÁ, J., KUČERKA, D., KMEC, J. 2016. *Klíčové kompetencie v technických a prírodovedných predmetoch (Key competences in technical and natural science subjects)*. Varšava : Wyższa Szkoła Menedżerska w Warszawie, 2016. 322 p. ISBN 978-83-7520-204-5.

KRIŠTOFIAKOVÁ, L., KUČERKA, D., HRMO, R. 2018. *Zlepšovanie kvality vyučovacieho procesu v predmete Ekonomika prostredníctvom TQM (Improving the quality of the teaching process in the subject Economics through TQM)*. České Budějovice: Vysoká škola technická a ekonomická v Českých Budějovicích, 2018. 275 s. ISBN 978-80-7468-132-5.

KUČERKA, D., HRMO, R., RUŽINSKÁ, E., RUČKOVÁ, G., KUČERKOVÁ, M., NOGA, H., KRIŠTOFIAKOVÁ, L. 2019. *Integrovaná didaktická pracoviště. Vyučovací prostředky, integrovaná didaktická pracoviště (Integrated didactic workplaces. Teaching aids, integrated didactic workplaces)*. České Budějovice : Vysoká škola technická a ekonomická v Českých Budějovicích, 2019. 280 s. ISBN 978-80-7468-137-0.

ŠVEJDA, G., KUČERKA, D., HRMO, R. 2018. *Technológia vzdelávania (Education technology)*. České Budejovice: Vysoká škola technická a ekonomická v Českých Budějovicích, 2018. 152 s. ISBN 978-80-7468-130-1.

HRMO, R., KUČERKA, D., RUSŇÁKOVÁ, S. 2014. *Strojárstvo : Vysokoškolská učebnica pre majstrov odbornej výchovy (Mechanical engineering: University textbook for masters of vocational education)*. Dubnica nad Váhom : Dubnický technologický inštitút v Dubnici nad Váhom, 2014. 236 s. (9,3 AH). ISBN 978-80-89400-90-4.

HRMO, R., KRPÁLKOVÁ KRELOVÁ, K. 2010. *Zvyšovanie kvality vyučovacieho procesu (Improving the quality of the teaching process)*. Bratislava : STU v Bratislave, 2010. 176 s. ISBN 978-80-227-3249-9.

HRMO, R., TUREKOVÁ, I. 2020. *Manažérstvo vzdelávania v školách (Education management in schools)*. Dubnica nad Váhom : Vysoká škola DTI, 2020. 124 p. ISBN 978-80-89732-92-0.

HRMO, R. 2020. *Inovácie materiálnych didaktických prostriedkov (Innovations of material teaching means)*. Dubnica nad Váhom : Vysoká škola DTI, 2020. 78 p. 978-80-89732-91-3.

HRMO, R., KRPÁLKOVÁ KRELOVÁ, K., TÓBLOVÁ, E. 2009. *Informačné a komunikačné technológie vo výučbe (Information and communication technologies in teaching)*. Trnava : AlumniPress, 2009. 146 p. ISBN 978-80-8096-101-5. Available on: <https://is.stuba.sk>.

HRMO, R., KRPÁLKOVÁ KRELOVÁ, K., TINÁKOVÁ, K. 2008. *Pedagogická prax. Teaching practice*. Trnava : AlumniPress, 2008. 132 p. ISBN 978-80-8096-068-1.

HRMO, R. A KOL. 2005. *Didaktika technických predmetov (Didactics of technical subjects)*. Bratislava : STU v Bratislave, 2005. 137 p. Available on: <<https://sweb.mtf.stuba.sk>>. ISBN 80-227-2191-3.

PEER-REVIEWED JOURNAL ARTICLES

BAJÚZOVÁ, M., HRMO, R. 2024. *Digital Tools in Education : The Impact of Digital Tools in Education on Students' Creativity*. In: R&E-Source. Baden : Pädagogische Hochschule Niederösterreich. Vol. 11, no. 1 (2024), pp. 4-18

TOKOŠ, P., HUĽOVÁ, Z., HRMO, R., KRIŠTOFIAKOVÁ, L. 2025. *Implementation of Project-Based Learning in the Professional Subject of Scripting*. In: International Journal of Information and Education Technology. Vol. 15, no. 11 (2025), pp. 2518-2527. SCOPUS

HUĽOVÁ, Z., TOKOŠ, P., BOLČOVÁ, E., HRMO, R., KRIŠTOFIAKOVÁ, L. 2024. Creating a Battery of Subtests to Measure Students' Skills in Technical Education. In: TEM Journal. Vol. 13, no. 4 (2024), pp. 3405-3412. Web of Science, SCOPUS

STRAKOVÁ, N., HRMO, R. 2024. Didactic Design of Teaching Materials Created by Future Teachers in the Czech Republic. In: International Journal of Engineering Pedagogy. Vienna : IAOE. Vol. 14, no. 5 (2024), pp. 4-23. Web of Science.

HRMO, R., SZÓKÖL, I., KRIŠTOFIAKOVÁ, L. 2024. Opportunities for Improving the Quality of Education and Pedagogical Teacher Training, within an International Context. In: Acta Polytechnica Hungarica. Budapest : Óbudai Egyetem. Vol. 21, no. 3 (2024), pp. 109-124. Web of Science, SCOPUS

HRMO, R., MIŠTINA, J., KRIŠTOFIAKOVÁ, L. 2016. Improving the Quality of Technical and Vocational Education in Slovakia for European Labour Market Needs. Available on: <http://onlinejournals.org/index.php/i-jep/article/view/5369>. In : *International Journal of Engineering Pedagogy (iJEP)*. ISSN 2192-4880. Vol. 6, no. 2 (2016), pp. 14-22 [online]. Web of Science.

BADIDA, M., SOBOTOVÁ, L., GOMBÁR, M., KMEC, J., KUČERKA, D., HRMO, R. 2016. The contribution to coating quality evaluation by statistical methods. Available on: http://hrcak.srce.hr/index.php?show=toc&id_broj=12436. In : *Metalurgija*. ISSN 0543-5846. Vol. 55, no. 3 (2016), pp. 445-448 [online]. SCOPUS.

HRMO, R., PODAŘIL, M. 2013. Introduction of a Quality Management System for Vocational Education and Training in Slovakia. DOI 10.3991/ijep.v3i3.2733 In : *International Journal of Engineering Pedagogy*. Wien : International Association of Online Engineering, 2013, Vol. 3, no. 3, pp. 18-23 [online]. ISSN (online) 2192-4880. <http://dx.doi.org/10.3991/ijep.v3i3.2733>. Web of Science.

HRMO, R., KRIŠTOFIAKOVÁ, L., BILČÍK, A. 2017. Quality Assurance in the School Environment In: *R&E SOURCE*. 2017. ISBN 2313-1640. Special Issue #12 (2017) pp. 58-64.

BILČÍK, A., HRMO, R., KRIŠTOFIAKOVÁ, L. 2018. A successful teacher has satisfied pupils. In: *R&E-Source*. Baden: Pädagogische Hochschule NÖ, 2018, no. 13, pp. 21-25 [online]. ISSN (online) 2313-1640. <http://journal.ph-noe.ac.at>.

KRIŠTOFIAKOVÁ, L., HRMO, R. 2019. Emotional Intelligence as a Factor Affecting the Application of Secondary Vocational School Graduates in Practice. In: *R&E-Source*. Baden: Pädagogische Hochschule NÖ, 2019, no. 17, pp. 185-189 [online]. ISSN (online) 2313-1640. <https://journal.ph-noe.ac.at/index.php/resource/article/view/756/768>.

HRMO, R., KRIŠTOFIAKOVÁ, L., MIŠTINA J. 2020. Emotional Intelligence of Secondary Technical School Students and Its Impact on Their Employment in Professional Practice. DOI 10.1007/978-3-030-40271-6_81. In: *The Impact of the 4th Industrial Revolution on Engineering Education*. Auer, Michael [editor]; Hortsch, Hanno [editor]; Sethakul, Panarit [editor]. Vol. 2. Cham (Switzerland) : Springer Verlag, 2020. (Advances in Intelligent Systems and Computing, ISSN 2194-5357, ISSN 2194-5365 ; 1135). ISBN 978-3-030-40271-6. ISBN (online) 978-3-030-40270-9, pp. 824-834. SCOPUS.

HRMO, R., KRIŠTOFIAKOVÁ, L. 2015. Engineering Pedagogy and its role in quality assurance in higher education. In: *New Approaches to Engineering Pedagogy*, Pädagogische Hochschule Niederösterreich. ISSN 2313-1640. Special Issue #4 (2015) pp. 97-101.

KUČERKA, D., HRMO, R., KUČERKOVÁ, M. 2018. *Zaradenie integrovaných didaktických pracovísk do materiálnych didaktických prostriedkov (The inclusion of integrated didactic workplaces in material didactic resources)*. In: *Mladá veda: Young science*. Prešov: Vydavateľstvo Universum EU, 2018, Vol. 6, no. 2, pp. 64-75 [online]. ISSN (online) 1339-3189. Erih Plus.

KUČERKA, D., RUŽINSKÁ, E., HRMO, R., KUČERKOVÁ, M. 2018. *Creating and evaluating of vocational teaching text* [elektronický dokument] In: *Mladá veda: Young science*. Prešov: Vydavateľstvo Universum EU, 2018, Vol. 6, no. 2, pp. 56-63 [online]. ISSN (online) 1339-3189. Erih Plus.

KUČERKA, D., HRMO, R., RUSNÁKOVÁ, S., PODAŘIL, M., HUSÁR, Š. 2013. *Didactic Means and Their Use at Technical Universities*. In: *Acta Technologica Dubnicae*. Dubnica nad Váhom: Vysoká škola DTI, 2013, Vol. 3, no. 2, pp. 80-103. ISSN 1338-3965. ISSN (online) 1339-4363. <http://new.dti.sk/data/files/file-1454590909-56b34bbd6e20d.pdf>.

CONFERENCE PROCEEDINGS

HAŠKOVÁ, A., VALENTOVÁ, M., BREČKA, P., HRMO, R. 2025. Teachers continuing professional development: Its planning and realization. In: *Futureproofing Engineering Education for Global Responsibility (ICL2024)*. Cham : Springer Nature, 2025, pp. 409-419. Web of Science, SCOPUS

SZÖKÖL, I., HRMO, R., KUČERKA, D., KRIŠTOFIAKOVÁ, L. 2025. The Use of Material Teaching Aids in Education. In: *Futureproofing Engineering Education for Global*

Responsibility (ICL2024). Cham : Springer Nature, 2025, pp. 397-408. Web of Science, SCOPUS.

HRMO, R., KRIŠTOFIAKOVÁ, L., KOVALENKO, E., GABRHELOVÁ, G., ANDRES, P. *Schola 2019: "Engineering pedagogy unites" Book of abstracts 2018 - 2019*. Dubnica nad Váhom: Vysoká škola DTI, 2020. ISBN 978-80-89732-89-0.

MIŠTINA, J., HRMO, R., ANDRES, P., ŠEBEN ZAŤKOVÁ, T., BENKOVÁ, M. *Perspektívy inžinierskej pedagogiky : zborník záverečných prác (Perspectives of engineering pedagogy: collection of final theses)*. Trnava: Univerzita sv. Cyrila a Metoda v Trnave. Fakulta prírodných vied, 2020. ISBN 978-80-8105-550-8.

PASTERNÁKOVÁ, L., HRMO, R., SZARKOVÁ, M., GABRHELOVÁ, G., HORVÁTH, M. *SOCIALIUM ACTUALIS. (7)*. Týn nad Vltavou – Malá strana: Nová Forma s.r.o., 2020. ISBN 978-80-7612-164-5.

LAJČIN, D., HRMO, R. *SCHOLA 2014 : Inovácie vo výchove a vzdelávaní – Trendy v odborovej didaktike : Zborník príspevkov. (SCHOLA 2014 : Innovations in education and training – Trends in subject didactics : Proceedings of contributions)*. Reviewers: Gabriela Sláviková, Kevin Taylor. Dubnica nad Váhom : Dubnický technologický inštitút, 2014. 600 p. : 1 CD ROM. ISBN 978-80-89732-15-9.

LAJČIN, D., HRMO, R. *SCHOLA 2014 : Inovácie vo výchove a vzdelávaní – Trendy v odborovej didaktike : Zborník abstraktov (SCHOLA 2014 : Innovations in education and training – Trends in subject didactics : Proceedings of abstracts)*. Reviewers: Gabriela Sláviková, Kevin Taylor. Dubnica nad Váhom : Dubnický technologický inštitút, 2014. 71 p. : 1 CD ROM. ISBN 978-80-89732-14-2.

MIŠTINA, J., HRMO, R. *Key competences and the labour market*. Reviewers: Paweł Czarnecki, Alena Hašková, Norbert Kraker. Warsaw, Poland : Warsaw Management University Publishing House, 2016. 298 p. ISBN 978-83-7520-223-6.

HRMO, R., ANDRES, P. *SCHOLA 2016*. In: *Schola 2016 : Proceedings of 12th International Scientific Conference Schola 2016, Pedagogy and Didactics in Technical Education : Pedagogy and Didactics in Technical Education*. Czech Technical University in Prague : Praha, 2017. ISBN 978-80-01-06112-1. P. 220.