

Curriculum Vitae

Prof. Dr. Katarina Monkova has been inaugurated in the field of Mechanical Engineering, currently acting as a Professor of Production Engineering. Her theoretical knowledge and extensive activities for industrial enterprises enable her to combine scientific and professional activities in the fields of mechanical and production engineering. She is a member of international scientific organizations; a member, steering co-chair and chairperson of scientific, technical and organisation committees at domestic and foreign conferences, as well as a member of evaluation and graduation committees. She also serves as a member of the editorial boards of several journals and a reviewer of articles in many major journals (also registered in the CC, WoS, and Scopus databases). During her long-term work at TU Kosice, Faculty of manufacturing technologies with the seat in Presov, she was a responsible researcher and a member of teams in many international and domestic projects.

Personal details

Name	Monkova Katarina, Prof., Dr.
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Scientific identifiers

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WoS Researcher ID: F-4742-2012

Field of interest

Mechanical Engineering with the focusing on Additive technologies; Cellular materials and TPMS structures; Failure analysis; Structural Integrity; CAx; Manufacturing technologies, Analyses and simulations;

Work experiences

From - to	01. 10. 1991 – continue
Organization	TU Kosice, Faculty of Manufacturing Technologies with the seat in Presov, Slovakia
From - to	2018 – continue
Organization	University of Tomas Bata in Zlin, Faculty of Technology, Zlin, Czech Republic
From - to	2015 – 2020
Organization	West Bohemia University in Pilsen, Faculty of Mechanical Engineering, Pilsen, Czech Republic

Education/Graduation

Year	2016 – Inauguration, Full Professor
Type of qualification	Graduation in the field Mechanical Engineering, academic title ""
Organization	University of West Bohemia in Pilsen, Czech Republic
Year	2008 Habilitation, Associated Professor
Type of qualification	Graduation in the field Manufacturing technologies
Organization	Faculty of Manufacturing technology with the seat in Presov, TU Kosice, Slovakia
Year	2005 - Philosophiae doctor, PhD.
Type of qualification	Graduation in the field Manufacturing technologies and materials, Doctoral Thesis
Organization	Faculty of Manufacturing technology with the seat in Presov, TU Kosice, Slovakia
Graduation level	ISCED level 5A, 3rd level of study at University, ISCED 5A (2011 ISCED 864)
Year	1991 Engineer Master of Science, Eng. MSc.
Type of qualification	Graduation in the field 23-07-8 Mechanical Engineering technology, Diploma Thesis "
Organization	Faculty of Mechanical Engineering, TU Kosice, Slovakia
Graduation level	2nd level of University study, ISCED 5A 2011 ISCED 766

Professional information

Scientific and professional organization membership

- Member of the Advanced Manufacturing Technologies Research Team (AMTRteam) - Top Team of Slovakia in the Mechanical Engineering field, the only woman in the team.
- Member of the Sectoral Verification and Evaluation Panels - for OVHP4 - Technical Information Sciences - Council for Research, Development and Innovation - at the Office of the Government of the Czech Republic
- NCP of Slovakia for European Aeronautics Science Network (EASN) and member of EASN
- Co-Chair of IMAAS (International Mechanical, Aeronautics and Astronautics Society)

- SCIEI member - Science and Engineering Institute
- NCP of Slovakia for European Structural Integrity Society (ESIS) and member of ESIS
- Management Committee member of the international project COST (CA23109) Fatigue Benchmark Repository (FABER)
- Member of Hellenic Metallurgical Society (HMS)
- Advisory board member of the international project DRP0301105, TransAC - Establishing a Danube training academy as measure against brain drain from rural and crisis regions
- Scientific board member at FMT TU Kosice with the seat in Presov, Slovakia
- Scientific board member at FT UTB Zlin, Czech Republic
- Member of the organizational, technical and scientific committees of many scientific conferences

Computer skills

Operating with CAD/CAM systems PTC Creo, Autodesk Inventor Professional, ANSYS, SpaceClaim (skills in 3D models creating, Complex shapes creating, Assembly and Mechanism design, Kinematic and Dynamic analysis of mechanisms, Drawings, Pro/Mechanics and Simulations) and other software

Member of Editorial Boards

Engineering Failure Analysis; Forces in Mechanics; Technički glasnik/Technical journal; American Journal of Educational Research; Journal of Modern Education Review; Acta Technologica; Asian Journal of Physical Sciences; International Journal of Physics: Study and Research; International Journal of Science and Technology

Selected Guest Editor roles:

- o EFA journal, SI ICSID 2023 – 2025;
- o Polymers journal, "Innovation in Polymer Applications from the Perspective of Industry 5.0"
- o Materials Journal, "Recent Advances in Cellular Materials"
- o Materials Journal, "Preparation and Application of Regularly Structured Porous Materials"
- o Procedia Structural Integrity
- o Lecture Notes in Mechanical Engineering, "Advances in Mechanical Engineering"
- o Discover Mechanical Engineering, "Recent Advances in Additive Technologies"
- o Frontiers in Manufacturing Technology, "Quality, Properties, and Manufacturing Conditions of Parts made by Additive Technology"

Selected Awards

- Rector's award (awarded for an average of study evaluation 1.00 – all at the first attempt, and for scientific-research activities), 1991, July 10th
- The 20th anniversary of FMT TUKE establishment Dean's award, 2012
- Commemorative medal awarded by the Dean of the Faculty of Technology of the Technical University in Zvolen on the 10th anniversary of the founding of the faculty, 2026
- Award of the best presentation at the 5th International Conference on Mechanical and Aerospace Engineering (ICMAE 2014), Madrid, Spain
- Award of the best poster at the international conference TEAM 2015, Belgrade, Serbia
- Award of the best reviewer at International Joint Conference on Civil and Mechanical Engineering, Hong Kong, 2017

Next information

- Leader/Principal Investigator of 18 national and international projects.
- A team member of another more than 30 national grants and projects.
- More than 370 national and foreign publications available at <https://epc.portal.tuke.sk/#/vystupy>
- 9 Monographs, 6 University books and scripts
- 4 Awarded patents.
- More than 400 verified reviews at WoS (+ a large number of other unverified ones).
- Coordinator of 4 CEEPUS networks at FMT TU Kosice with the seat in Presov, 1 CEPUS network founding coordinator.
- Supervisor of more than 90 graduated students (diploma, bachelor, doctoral thesis).