Name: Prof. Dr. Gabriella Vadászné Bognár	Year of birth: 1959
Education, diploma issued by, in:	
mechanical engineer, University for Heavy Industries, 1982	
University of Miskolc, Faculty of Mechanical Engineering and Informatics, Institute of Machine and Product Design professor, director of institute, deputy dean for research and international affairs	
Candidate of Science (mathematics) 1994, „dr. habil" 2006, doctor of the Hungarian Academy of Sciences (DSc) 2014 Experience in education	
In the period 1982-2021: Analysis II, Differential Calculus, Economics (BSc), Technical Mathematics (BSc), Economics (PhD), Mechanical Engineering (BSc), Mechanical Engineering (BSc), General Automotive Engineering (BSc), Fundamentals of Tribology (BSc), Systems Engineering-System Modeling (MSc) Technical Modeling and Simulation (PhD) In English: Operation and Theory of Machines (BSc), Mathematics for Economic Analysis (BSc), Mathematics for Economic Analysis (PhD) Modelling and Simulation in Engineering (PhD) Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
Publications focusing on main research field (max. 5 typical publications): Márk, Venczel ; Gabriella, Bognár ; Árpád, Veress Temperature-Dependent Viscosity Model for Silicone Oil and Its Application in Viscous Dampers PROCESSES 2021 : 9 p. 1 Paper: 331 (2021) Daniel, Debreczeni ; Bognár, Gabriella Analytical and FE Determination of the Change of Single Stiffness for Cylindrical Gears with External Involute Teeth PERIODICA POLYTECHNICA-MECHANICAL ENGINEERING 64 : 4 pp. 289-298. , 10 p. (2020) Debreczeni, Dániel ; Bognar, Gabriella Investigation of the Nominal Tooth Root Stress for External, Cylindrical Gears with Symmetric and Asymmetric Profile WSEAS TRANSACTIONS ON APPLIED AND THEORETICAL MECHANICS 15 pp. 31-37. , 7 p. (2020) Kocsis, Gergely ; Vadászné Bognár, Gabriella Tapadási és mozgási súrlódási tényező meghatározása sportpálya burkolaton MULTIDISZCIPLINÁRIS TUDOMÁNYOK: A MISKOLCI EGYETEM KÖZLEMÉNYE 10 : 3 pp. 338-348. , 11 p. (2020) Mabood, F. ; Yusuf, T. A. ; Bognár, Gabriella Features of entropy optimization on MHD couple stress nanofluid slip flow with melting heat transfer and nonlinear thermal radiation	

SCIENTIFIC REPORTS 10 : 1 Paper: 19163 (2020)

Any other scientific/research achievement, patents, etc:
István Sályi Doctoral School of Mechanical Engineering Sciences, the head of the doctoral school
supervisor in PhD studies:
They earned a degree under his supervision:
Agbeko Kwami
Rozgonyi Erika
Hriczó Krisztián
Tomori Zoltán
Debreczeni Dániel

Current doctoral students with her supervision:
Sipkás Vivien
Várkuli Miklós
Alsarayefi Saad Jabber Nazal
Sayfidinov Okhunjon
Mohamad Klazly
Mohsen Khalili
Ali Zainab

Other qualified skills/experiences/honors
tudományos / szakmai közéleti tevékenység, nemzetközi szakmai kapcsolatok, elismerések
Engineering Mechanics Institute (EMI) member
ASCE (American Society of Civil Engineering) member
WSEAS (World Scientific Engineering Society and Association) member
Országos
MTA VI. Műszaki Tudományok Osztály Gépszerkezettani bizottság elnöke, szavazati jogú tag
MTA közgyűlés, és a VI. Műszaki Tudományok Osztály nem akadémikus szavazati jogú tag
MTA Miskolci Akadémiai Bizottság Műszaki-Informatikai Szakbizottság elnöke
Magyar Gépjárműipari Innovációs Konzorciumban a Miskolci Egyetem képviselője
Ipar 4.0 Nemzeti Technológiai Platform Stratégiai Tervezés munkacsoport tagja
OTDK Műszaki Szakmai Bizottságban a Miskolci Egyetem képviselője
Bolyai János Kutatási Ösztöndíj Kuratórium tagja (6. sz. kollégium)
Gépipari Tudományos Egyesület tag
Nők a Tudományban Egyesület tag
Egyetemi
Miskolci Egyetem, Tudományos Diákköri Tanács elnöke
Sályi István Gépészeti Tudományok Tudományági Doktori Tanács elnöke, a Doktori Iskola törzstagja
ME Gépészmérnöki és Informatikai Kar tudományos és nemzetközi dékánhelyettese
ME GÉIK Beiskolázási és PR Bizottság tagja
ME GÉIK Gépészeti Tudományok Habilitációs Bizottság tagja

A „Miskolci Egyetem Gépészmérnöki Karán folyó mérnökképzésért” Alapítvány kuratóriumának tagja

Projects, works:
basic research - leader of projects:
OTKA
61620 A mechanika p-Laplace egyenleteinek vizsgálata 2006-2009
K-18 129257 Új eredmények vékony filmek növekedési mechanizmusára és néhány tribológiai jellemzőre 2018-2022
TÉT: Hungarian-French 2014-2016 TÉT_14-FR-1-2015-0004
Hungarian-Serbian 2017-2019 TÉT_16-1-2016-0164
Hungarian-French 2018-2.1.13-TÉT-FR-2018-00014
National R+D research project leader:
GINOP2.2.1-15-2016-00017 Új haszongépjármű hajtáslánc, magasabb hatásfokú, nagyobb teljesítményű, alacsonyabb zajszintű és kiterjesztett élettartammal rendelkező hajtóművének kifejlesztése
GINOP 2.2.1-15-2017-00086 3D holografikus képek rögzítésére alkalmas fotopolimer rendszer fejlesztése
consortium subproject leader
GINOP 2.2.1-15-2017-00090 E-Mobility Miskolcról (Thermal Systems)
ERASMUS LLP 2013-2014 (konzorciumi tag vezetője): 540425-LLP-1-2013-1-FI-ERASMUS-EKA Reshaped Partnerships for Competitiveness and Innovation Potential in Mechanical Engineering
ERASMUS+KA2 2017-2019 (konzorciumi tag vezetője): 575660-EPP-1-2016-1-FI-EPPKA2-KA Smart HEI-Business Collaboration for Skills and Competitiveness (HEIBus)
Egyéb kompetenciák:

- felsőfokú nyelvvizsga: IGEN <u>NEM</u>
- MTMT-ben rögzített angol nyelvű konferencia publikációinak számát: 97 db
- Angol nyelven plenáris előadások tartása:

A rendezvény pontos neve és ideje	A rendező ország	Szervezői szerepe	Előadói szerepe
Computational Mathematics and Applications Conference (CMA 2014) Shenzen 2014.01. 14-16.	Kína		előadás
Workshop & Research School of CIMPA (Centre International de Mathematiques Pures et Appliquées-International center for Pure and Applied mathematics) School Tangier, Marokkó, 2014.05. 5-17.	Marokkó		7 napos kurzus tartása PhD hallgatóknak

The 3rd Global Conference on Materials Science and Engineering (CMSE2014), Shanghai, October 2014.10.20-23	Kína		előadás
6th International Conference on Differential and Difference Equations and Applications, Amadora, 2015.05. 18-22.	Portugália		előadás
World Engineering Education Forum, Florence, 2015.09. 20-24.	Olaszország		előadás
IFME Esslingen 2015.09. 15-16.	Németország		előadás
OGÉT Csíksomlyó 2015. 04.23-26.	Románia	Szervezőbizottság tagja	előadás
11th AIMS International Conference on Dynamical Systems, Differential Equations and Applications Orlando, 2016.07.01-05	USA		előadás
INASE Conference Rome 2016.11. 3-5.	Olaszország		plenáris előadás
Engineering Mechanics Institute Conference 2016 Metz 2016.10.23-25.	Franciaország		előadás
OGÉT Déva, 2016.04.21-24.	Románia	Szervezőbizottság tagja	előadás
IFM2E Jyvaskyla, Seminar 2016. 11.16-17	Finnország		előadás
OGÉT Kolozsvár 2017.04.27-30.	Románia	Szervezőbizottság tagja	előadás
Advanced Materials World Congress, Singapore 2018.02. 4-8.	Singapore		előadás
12th International Conference on Applied Mathematics,	Franciaország		plenáris előadás

Simulation and Modeling Párizs, Franciaország, 2018.04.13-2018.04.15.			
Engineering Mechanics Institute Conference 2018-MIT, Cambridge, Massachusetts USA, 2018.05.29.-06.01.	USA		előadás
Conference on Modelling Fluid Flow September 4-7, 2018	Budapest		vice chair-women, előadás
7th International Conference on Applied and Computational Mathematics (ICACM '18) Róma, 2018.11.23-2018.11.25.	Olaszország		plenáris előadás

Name: Dr. István Sztankovics	Year of birth: 1987

Education, diploma issued by, in:

MSc in Mechanical Engineering, University of Miskolc, 2011

Current job, current position:

Institute of Manufacturing Science, Faculty of Mechanical Engineering and Informatics, University of Miskolc – senior lecturer

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

PhD in Engineering Sciences (2022)

Experience in education

Teaching experience: University of Miskolc 11 years, 2011 -

BSc level:

- Cutting theory
- Design of Tools and Fixtures
- Fundamentals of Production Engineering (also in English)
- Machine Industrial Assembly
- Technology Planning
- Vehicle Production and Assembly

MSc level:

- Assembly Planning
- Design of Manufacturing Devices
- Machine Industrial Assembly
- Machining by Chip Removal

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

Kundrák, J.; Sztankovics, I.; Molnár, V.: Accuracy and topography analysis of hard machined surfaces. MANUFACTURING TECHNOLOGY 21 : 4 pp. 512-519. , 8 p. (2021)

Sztankovics, I.; Kundrák, J.: Determination of the Chip Width and the Undeformed Chip Thickness in Rotational Turning. KEY ENGINEERING MATERIALS 581 pp. 131-136. , 6 p. (2014)

Sztankovics, I.; Kundrák, J.: Effect of the inclination angle on the defining parameters of chip removal in rotational turning. MANUFACTURING TECHNOLOGY 14 : 1 pp. 97-104. , 8 p. (2014)

Kundrák, J.; Gyáni, K.; Deszpoth, I.; Sztankovics, I.: Some topics in process planning of rotational turning. ENGINEERING REVIEW 34 : 1 pp. 23-32. , 10 p. (2014)

Sztankovics, I.; Kundrák, J.: Theoretical value of total height of profile in rotational turning. APPLIED MECHANICS AND MATERIALS 309 pp. 154-161. , 8 p. (2013)

2. Other qualified skills/experiences/honors

Participation in numerous international and domestic research projects.

Inolvement in sevreal industrial research projects.

Supervisor of Scientific Student Association (TDK) works of students.

Name: Dr. Sarka Ferenc	Year of birth: 1977

Education, diploma issued by, in:

Mechanical engineer (MSc), University of Miskolc, 2002

Jelenlegi munkahely(ek), a kinevezésben feltüntetett munkakör(ök), több munkahely esetén aláhúzás jelölje azt az intézményt, amelynek „kizárólagossági" (akkreditációs) nyilatkozatot (A) adott!

University of Miskolc, GÉIK, Institute of Machine and Product Design, associate professor

Scientific degree (PhD, CSc, DLA) (Title of thesis work is to specify if phD/DLA received within 5 years), membership of the Academy of Sciences/Art (the title of „dr. habil", DSc, specifying the field of science and date, other titles)

PhD (mechanical engineering sciences), 2015

Experience in education

in Hungarian: Mechanical drawing, Basic knowledge of mechanical engineering, Machine elements, Bearings, Mechanical engineering, VEM, Motor vehicles and mobile machines, Integrated product design (continuously since 2002).

in English: Design of Machine and Structures, History of technics (since 2021).

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

1. Sarka, Ferenc: Examination of Bolt Connection with Finite Element Method, LECTURE NOTES IN MECHANICAL ENGINEERING, Vehicle and Automotive Engineering 4 pp. 212–222. , 11 p. (2022).

2. Sarka, Ferenc ; Tóbis, Zsolt: Design Issues for Slot-Die Coating Heads - Case Study, IOP CONFERENCE SERIES: MATERIALS SCIENCE AND ENGINEERING 1237 Paper: 012014 , 12 p. (2022).

3. Sarka, Ferenc at all: Test Method for Investigation of Reactive Loads on Gear Drives with Supporting Function, LECTURE NOTES IN MECHANICAL ENGINEERING 22 pp. 265-272. , 8 p. (2021)

4. Sarka Ferenc: The use of the linear sliding wear theory for open gear drives that works without lubrication, Solutions for Sustainable Development : Proceedings of the 1st International Conference on Engineering Solutions for Sustainable Development, (ICESSD 2019).

5. Sarka, Ferenc: Cost Reduction of Manufacturing and Assembly - Case Study, SOLID STATE PHENOMENA 261 pp. 495-502. , 8 p. (2017)

2. Other qualified skills/experiences/honors

1. 2015: Műszaki szakvélemény csavarkötésről. (Jabil), Busz alvázban kialakuló feszültségek és deformációk vizsgálata. (S&G Solution), Feladó szerszám tervezése és

gyártása üreges csokoládé figurához. (Nestlé), Betoló szerszám tervezése és gyártása üreges csokoládé figurához. (Nestlé), Fényező csatorna tervezése és gyártása üreges csokoládé figurához. (Nestlé), Műszaki szakvélemény alkatrészek helyzettűréséről. (Jabil).

2. 2017: Gépkocsi indítómotor fogaskerék kopásának vizsgálata, SEGA.

3. 2018-2019: Rába fogaskerekes hajtómű fejlesztése (GINOP), RÁBA, Győr.

4. 2019: Forgó dobkemence statikai vizsgálata, MOL, Százhalombatta, Fogaskerekes hajtómű meghibásodásának elemzése, MOL-Petrolkémia, Tiszaújváros

5. 2020-2021: Filmhúzó gép tervezése holografikus képek gyártásához (GINOP) Holotech Hungary, Vác.

Name: Dr. György Hegedűs	Year of birth: 1977

Education, diploma issued by, in:

Certified Mechanical Engineer, University of Miskolc, 2001 (machine tool designer specialization)

Certified Mechanical Engineer, University of Miskolc, 2002 (English technical translator specialization)

Jelenlegi munkahely(ek), a kinevezésben feltüntetett munkakör(ök), több munkahely esetén aláhúzás jelölje azt az intézményt, amelynek „kizárólagossági" (akkreditációs) nyilatkozatot (*A*) adott!

Miskolci Egyetem, GÉIK, Szerszámgépészeti és Mechatronikai Intézet – egyetemi docens

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

PhD. (engineering sciences 2013

Experience in education

22 years in education. During this time, the main subjects taught were: Design methodology, Methodical machine design, Computer-aided design, Integrated design systems, CAD techniques, Mechatronics II, Robots, CNC programming, 3D Design systems.

15 years of foreign language teaching experience, typically within the framework of Erasmus and Stipendium Hungaricum training. Taught subjects: Project Work, iCAD Systems, Methodical design.

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció)

A felsorolt publikációk közül aláhúzással emelje ki azokat, amelyeket a mesterképzés tudományos szakmai hátttereként elvárt országosan (és nemzetközileg) elismert szakmai műhely(ek)hez való érdemi hozzájárulásnak tekint.

1. Hegedűs, Gy.: Application of Knowledge-Based Design in Computer Aided Product Development, Lecture Notes in Mechanical Engineering F12: pp. 109-114. (2017), Vehicle and Automotive Engineering - Proceedings of the JK2016.

2. Hegedűs, Gy.: Newton's method based collision avoidance in a CAD environment on ball nut grinding, International Journal Of Advanced Manufacturing Technology 84:(5) pp. 1219-1228. (2016)

3. Hegedűs, Gy., Kalmár L.: Knowledge-Based Design of Axial Pump Impeller, The 40th International Conference on Mechanics of Solids, Acoustics and Vibrations ICMSAV 2016 and The 6th International Conference on "Advanced Composite Materials Engineering" COMAT 2016. 6 p.

4. Hegedűs György, Takács György: Tool profile generation by boolean operations on ball nuts, Key Engineering Materials 581: pp. 462-465. (2014), ISSN: 1662-9795

Any other scientific/research achievement, patents, etc:

- 2013 István Szentpáli Scientific Award

• 2013 Jedlik Ányos Doctoral Candidate Scholarship

• 2005 Technical Literature Award

2. az eddig megszerzett szakmai jártasság, gyakorlottság, igazolható elismertség

• GINOP-2.2.1-15-2017-00093, Development of machine tools, special purpose machines and production equipment, as well as related production technology research at C3D Kft.;

• GINOP-2.2.1-15-2017-00093 Development of ultra-precision and FreeDome type machine tools;

• EFOP-3.6.1-16-2016-00011, Rejuvenating and renewing University – Innovative knowledge city;

• TÁMOP-4.2.1-08/1-2008-0006, Introduction and intensive application of high-productivity ultra-precision technologies and equipment at the University of Miskolc;

• BAROSS_EM07-EM_ITN3_07-2008-0039 Development of automated test methods and equipment that can be integrated into the production and renovation system of automotive components in order to improve the efficiency of quality assurance, Development of methods suitable for determining the residual life of rolling bearings;

• 2007 Development of a maintenance system for Carl Zeiss HungariaOptikai Kft.;

• 2007 Maintenance system development, statistical analyzes for Bosch Rexroth Pneumatika Kft.;

• 2007 Development of a new pallet family based on environmentally friendly technology for different types of standing hot water storage tanks for Hajdúsági Ipari Zrt.;

• 2006 Increasing productivity on CNC machining machines by applying a zero point system for Bosch Rexroth Pneumatika Kft.;

• 2005 Software development for CAD system for grinding wheel profile determination for Szimikron Kftrész;

• 2005 Development of software for mobile hole measurement of large-scale welded earthmoving machine arms, for Jászberényi Aprítógepgyár;

• 2004 Research and development of increasing the accuracy of ball machines for Szimikron Kft.;

• 2003 Research and development of machine tool mechatronic components for Szimikron Kft.;

• 2002 Exploration of measurement concepts for welded earthmoving machine arms for the Jászberény Shredder Factory;

• 2001 Research and development of machine tool mechatronic components for Szimikron Kft.;

Name: Dr. Viktor Molnár	Year of birth: 1980

Education, diploma issued by, in:

MSc in Mechanical Engineering, ME GÉIK, 2010

Current job, current position:

ME GÉIK, Institute of Manufacturing Science, associate professor

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

PhD (economics and management sciences), 2014

Experience in education

Subjects thaught:

Cutting Theory, Manufacturing Technology, Manufacturing Processes and Systems, Precision Manufacturing, Quality Inspection, Qualit Control, Quality Assurance, Quality Management, Lean Quality Techniques, Quality Assurance of Production Processes, Quality Management of Public Services, Supply Chain Management, Process Management, Project Management, Organization and Management, Human Resource Management, Decision-Making Theory and Methods, Game Theory, Economics, Marketing, Market Research

Subjects thaught in English:

Quality Inspection, Quality Management, Process Management, Project Management, Human Resource Management, Decision-Making Theory and Methods, Game Theory, Market Research

Teaching activity: 18 years

Teaching abroad: Project Management (11-29/03/2019), Sathyabama Institute of Science and Technology, Chennai, India

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

    1. Molnar, V.; Szabo, G.: Designation of minimum measurement area for the evaluation of 3D surface texture, JOURNAL OF MANUFACTURING PROCESSES 83 pp. 40-48. , 9 p. (2022)

    2. Molnar, V.: Tribological Properties and 3D Topographic Parameters of Hard Turned and Ground Surfaces, MATERIALS 15 : 7 Paper: 2505 (2022)

    3. Molnar, V.: Waiting as Waste in Lean Production Processes, In: Gençyılmaz, M. Güneş; Durakbasa, Numan M. (szerk.) Digital Conversion on the Way to Industry 4.0, Cham, Svájc : Springer International Publishing (2021) pp. 429-437. Paper: Chapter 36 , 9 p.

4. Molnar, V.; Sztankovics, I.: Analysis of Roughness Parameters Determining Tribological Properties in Hard Turned Surfaces, HUNGARIAN JOURNAL OF INDUSTRY AND CHEMISTRY 49 : 2 pp. 77-84. , 8 p. (2021)

5. Molnar, V.: Minimization Method for 3D Surface Roughness Evaluation Area, MACHINES 9 : 9 Paper: 192 , 16 p. (2021)

2. Other qualified skills/experiences/honors

Participation in research and innovation projects

- 'Optimisation of Natural Resources based on Advanced Technologies' (Higher Education Institutional Excellence Programme 2020-4.1.1.-TKP2020, Funded by the National Research, Development and Innovation Office)

Role: professional implementer

- 'Machine tool and production tool development and related manufacturing technology research at C3D Ltd.' (GINOP-2.2.1-15-2017-00093 SGT-C3D, Co-funded by the European Regional Development Fund)

Role: professional implementer

- 'Younger and Renewing University – Innovative Knowledge City' (EFOP-3.6.1-16-2016-00011, Co-funded by the European Social Fund."

Role: project manager (subproject no 4); professional implementer

- 'UNI - DUO - Different paths to a successful life!' (TÁMOP-4.1.1.F/2013, Co-funded by the European Social Fund)

Role: Program coordinator, professional implementer

- HEIBus - Smart HEI-Business collaboration for skills and competitiveness (575660-EPP-1-2016-1-FI-EPPKA2-KA, Co-funded by the Erasmus+ programme of the European Union)

Role: WP coordinator, professional implementer

Main research visits

- 16/05/2022 – 20/05/2022: Technical University Crakow, Poland (Topic: Surface integrity)

- 26/09/2021 – 02/10/2021: Otto-von-Guericke Universität Magdeburg, Germany (Topic: Hard machining)

- 03/11/2019 – 09/11/2019: Université de Caen Basse Normandie, Caen, France (Topic: Production process efficiency)

- 11/03/2019 – 29/03/2019: Sathyabama Institute of Science and Technology, Chennai, India (Topic: Management of manufacturing processes; additional activities here: lectures, conference participation)

- 01/11/2017 – 17/11/2017: City College of New York, Colin Powell School, NYC, USA (Topic: Project risk management)

- 09/07/2017 – 15/07/2017: Armenian State University of Economics, Erevan, Armenia (Topic: Production process efficiency)

Memberships in organizing committees of conferences

- 7-10/09/2021: Interpartner-2021: 2nd Grabchenko's International Conference on Advanced Manufacturing Processes (Odessa, Ukraine), membership in the programme committee
- 10-13/09/2019: Interpartner-2019: Grabchenko's International Conference on Advanced Manufacturing Processes (Odessa, Ukraine), membership in the programme committee
- 13-15/04/2018: 4th International Conference on Mechanical and Transportation Engineering (Paris, France) – session chair
- 17/10/2017: 'Balance and Challenges' 10th International Scientific Conference (Miskolc, Hungary) – session chair, membership in the organising committee
- 27-28/03/2012: International Conference on Tools (Miskolc, Hungary), membership in the organising committee

Memeberships in scientific organizations:

- Scientific Association for Mechanical Engineering
- International Society on Multi Criteria Decision Making

Name: *Dr. Attila Baksa*	Year of birth: *1976*

Education, diploma issued by, in:

MSc in Information Engineering, University of Miskolc, 2000

Current job, current position:

University of Miskolc, Faculty of Mechanical Engineering and Informatics, Institute of Applied Mechanics – associate professor (since 2011)

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

PhD in Mechanical Engineering, University of Miskolc, 2006

Experience in education

Holding lectures for Hungarian students in Hungarian at the University of Miskolc:

Statics, Strength of Materials, Dynamics, Mechanics I and II, Fundamentals of FEM, Finite Element Modeling, Nonlinear Finite Element Analysis, Programming the Finite Element Method, Project work, Continuum Mechanics I and II

Holding lectures for foreign students in English at the University of Miskolc:

Finite Element Modeling

Teaching experience: 22 years

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

- Ecsedi, I., Baksa, A.: Saint-Venant torsion of orthotropic piezoelectric elliptical bar, *ACTA MECHANICA* (0001-5970 1619-6937): 233 1 pp. 201-2011 (2022)
- Ecsedi, I., Baksa, A.: Saint-Venant torsion of cylindrical orthotropic elliptical cross section, *MECHANICS RESEARCH COMMUNICATIONS* (0093-6413 1873-3972): 99 pp. 42-46 (2019)
- Ecsedi, I., Baksa, A.: Free axial vibration of nanorods with elastic medium interaction based on nonlocal elasticity and Rayleigh model, *MECHANICS RESEARCH COMMUNICATIONS* (0093-6413 1873-3972): 86 pp. 1-4 (2017)
- Ecsedi, I., Baksa, A.: Analytical solution for layered composite beams with partial shear interaction based on Timoshenko beam theory, *ENGINEERING STRUCTURES* (0141-0296 1873-7323): 115 pp. 107-117 (2016)
- Ecsedi, I., Baksa, A.: Prandtl's formulation for the Saint-Venant's torsion of homogeneous piezoelectric beams, *INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES* (0020-7683 1879-2146): 47 22-23 pp. 3076-3083 (2010)

2. Other qualified skills/experiences/honors

Working abroad:

- Special problems in computational mechanics, 1 months research work at Otto-von-Guericke University with MÖB-DAAD program Magdeburg, Germany, 2004
- Special problems in computational mechanics, 3 months research work at Otto-von-Guericke University with MÖB-DAAD program Magdeburg, Germany, 2003
- Writing the final thesis in MSc studium, 4 months Erasmus stipendium at Middlesex University, London, Great Britain, 2000

Working in research teams as research fellow:

- Hungarian Educational and Research Projects OTKA K115701 (2015-2019), OTKA K67825 (2008-2012), OTKA T049115 (2005-2009), OTKA T37759 (2002-2005)
- Research and Innovation programs with several Hungarian establishments (Mátrametal-GINOP, Bosch, DKG-East Zrt, MOL, Mátrai Erőmű, AUDI Hungária, Wentech Kft., Dometic Rt.)

Scientific supervisor of university students:

- 5 final thesis (both BSc and MSc levels)
- 10 TDK – scientific project of Hungarian students (since 2013)
- tutor of three PhD students (one Hungarian and two students from abroad)

Name: Dr. Péter Bencs	Year of birth: 1983
Education, diploma issued by, in:	
MSc. engineering and management, University of Miskolc (Hungary), 2008.	
Current job, current position:	
Univ. of Miskolc, Faculty of Mechanical Engineering and Informatics Science, Institute of Energy Engineering and Chemical Machinery – associate professor, director of institute	
Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*	
PhD (mechanical sciences) 2015.	
Experience in education	
lectures/practical lessons: Műszaki áramlástan/Engineering Fluid Mechanics (practical lessons), Áramlástechnikai gépek/Fluid machinery (lectures + practical lessons), Erőművek/Power plants (lectures), Műszaki hő- és áramlástan/ Engineering Fluid Mechanics and Heat Transfer (lectures + practical lessons), Műszaki hőtan/Engineering Thermodynamics (lectures + practical lessons), Hőenergetika/Thermal energetics (lectures + practical lessons), Klíma- és fűtéstechnika/ Air conditioning and heating (lectures + practical lessons), Engineering thermodynamics (English, lectures + practical lessons), CFD (practical lessons). Educational activity: from 2008.	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

Alktranee, Mohammed ; Shehab, Mohammed Ahmed ; Németh, Zoltán ; Bencs, Péter ; Hernadi, Klara ; Koós, Tamás** ; Alktranee, mohammed

Energy and exergy assessment of photovoltaic-thermal system using tungsten trioxide nanofluid: An experimental study

International Journal of Thermofluids 16 p. 100228 Paper: 100228 (2022)

Alktranee, Mohammed ; Shehab, Mohammed A. ; Németh, Zoltán ; Bencs, Péter

Iron Oxide and Tungsten Trioxide Nanofluids to Enhance Automotive Cooling Radiators: Experimental Analysis

LECTURE NOTES IN MECHANICAL ENGINEERING Vehicle and Automotive Engineering 4 pp. 521-537. , 17 p. (2022)

Alktranee, Mohammed ; Bencs, Peter

Effect of Evaporative Cooling on Photovoltaic Module Performance

PROCESS INTEGRATION AND OPTIMIZATION FOR SUSTAINABILITY 6 : 2 pp. 1-10. , 10 p. (2022)

Száva, Renáta-Ildikó ; Bolló, Betti ; Bencs, Péter ; Jármai, Károly ; Száva, Ioan ; Popa, Gabriel ; Asztalos, Zsolt ; Vlase, Sorin

Experimental and Numerical Studies of the Heat Transfer in Thin-Walled Rectangular Tubes under Fire

SYMMETRY 14 : 9 p. 1781 (2022)

Szaszák, N. ; Roloff, C. ; Bordás, R. ; Bencs, P. ; Szabó, S. ; Thévenin, D.

A novel type of semi-active jet turbulence grid

HELIYON 4 : 12 Paper: e01026 , 25 p. (2018)

2. Other qualified skills/experiences/honors

PhD scientific research in the field of flow sciences (2008.09.01.-2011.08.31.)

DAAD researcher exchange programme in the field of flow sciences /Magdeburg-Miskolc/ (2008-2022.)

Electrolux-Lehel Ltd.: laboratory tests and development of household applications / flow sciences /, researcher (2014.03.-2014.05.)

FIEK project: researcher, flow-noise reduction of HVAC modules (2017-2019)

Hajdu- Hajdúsági Ipari Corp. Flow/heat sciences R+D project (2017. summer-fall)

Name: Dr. László Berényi	Year of birth: 1980

Education, diploma issued by, in:

okleveles közgazdász, ME, 2003

környezetmérnök, ME, 2010

mérlegképes könyvelő, Perfekt, 2002

Current job, current position:

ME, GTK, Vezetéstudományi Intézet – egyetemi docens

NKE, ÁNTK, Közszervezési és Infotechnológiai Tanszék– egyetemi docens

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

PhD (gazdálkodás és szervezéstudományok) 2007, Habilitáció (gazdálkodás és szervezéstudományok) 2016

Experience in education

Experience in teaching: 19 év

Subjects taught in Hungarian: Rendszerelmélet (MA), Közigazgatási informatika és információrendszerek II., (BA), Környezetgazdaságtan (MA), Tanulás és kutatásmódszertan (BA), Minőségmenedzsment (BA, MA, PhD), Minőségügyi eszközök (MA) Termelésmenedzsment (BA), Ergonómia és munkaszervezés (MA), Folyamat és munkahelyszervezés (BA), Projektek minőségbiztosítása (FoSz), Empirikus elemzési módszerek (PhD)

Subjects taught in English: Quality management (MA & Erasmus), Environmental Management (MA), Tudománymetria és publikációs stratégia (PhD), Emprical research methods (PhD)

Oktatás külföldi intézményben: Stratégai menedzsment, tárgyjegyző, Kisvállalati menedzsment, oktató, Üzleti stratégiák, oktató (Babes-Bolyai Tudományegyetem, Kolozsvár, Románia)

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

Deutsch, Nikolett; Berényi, László. Personal approach to sustainability of future decision makers: a Hungarian case. ENVIRONMENT DEVELOPMENT AND SUSTAINABILITY 20 : 1 pp. 271-303. , 33 p. (2018)

Berényi, László. Fundamentals of Quality Management. Saarbrücken, Németország : Lambert Academic Publishing (LAP) (2013) , 176 p. ISBN: 9783659490590

Berényi, László; Deutsch, Nikolett. Corporate Social Responsibility and Business Philosophies among Hungarian Business Students. SUSTAINABILITY 13 : 17 pp. 1-21. Paper: 9914 , 21 p. (2021)

Berényi, László. Termelésmenedzsment , 79 p. (2021). Kiadó: Miskolci Egyetem

Berényi, László. Fundamentals of Quality Management. Saarbrücken, Németország: Lambert Academic Publishing (LAP) (2013) , 176 p. ISBN: 9783659490590

2. Other qualified skills/experiences/honors

15 év tapasztalat indoor és otdoor térningek szervezésében

Kutatási projektek vezetése projektvezetőként (OTKA T048849) és kutatásvezetőként (OTKA PD71685)

Elismerések:

Magyar Minőség Társaság – Év szerzője Díj (2014)

Miskolci Egyetem Tanulmányi Emlékérem arany fokozata (2003, 2010)

Miskolci Egyetem Tanulmányi Emlékérem bronz fokozata (2008, 2009)

Hantoss Elemér Díj, Miskolci Egyetem (2010)

Name: *Prof. Edgár Bertóti*	Year of birth: *1961*

Education, diploma issued by, in:

MSc in Mechanical Engineering, University of Miskolc (Technical University for Heavy Industry), Faculty of Mechanical Engineering, 1984

Current job, current position:

University of Miskolc, Faculty of Mechanical Engineering and Informatics, Institute of Applied Mechanics – full professor

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

CSc (PhD) in Engineering Sciences, 1992

Dr. habil in Engineering Sciences, 2001

DSc in Engineering Sciences, 2004

Experience in education

Subjects taught in Hungarian as a lecturer:

BSc level: Statics, Mechanics of Materials, Dynamics, Engineering Mechanics I-II, Vehicle Dynamics, Kinematics of Mechanisms and Robots, Mechanics of Elastic Bodies, Finite Element Method, Variational Principles in Mechanics, Theory of Shells of Revolution *(University of Miskolc, Hungary)*

MSc level: Continuum Mechanics, Theory of Elasticity, Theory of Plates and Shells, Constitutive Models in Mechanics *(University of Miskolc, Hungary)*

PhD level: Continuum Mechanics, Theory of Shells *(University of Miskolc, Hungary)*

Teaching experience: 36 years

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

- *Bertóti, E.*: Stress- and rotation-based hierarchic models for laminated composites, *International Journal for Numerical Methods in Engineering*, Vol. 39, No. 15, pp. 2647–2671, 1996
- *Bertóti, E.*: Dual-mixed *hp* finite element methods using first-order stress functions and rotations, *Computational Mechanics*, Vol. 26, No. 1, pp. 39–51, 2000
- *Bertóti, E.*: Dual-mixed *p* and *hp* finite elements for elastic membrane problems, *International Journal for Numerical Methods in Engineering*, Vol. 53, No. 1, pp. 3–29, 2002

- *Bertóti, E.*: On divergence-free stress fields and zero-energy stress functions in elasticity, *Mechanics Research Communications*, Vol. 71, pp. 20–24, 2016

- *Bertóti, E.*: Primal- and dual-mixed finite element models for geometrically non-linear shear-deformable beams – a comparative study, *Computer Assisted Methods in Engineering and Science*, Vol. 27, No. 4, pp. 285–315, 2020

2. Other qualified skills/experiences/honors

Research Fellowships abroad:

- Technische Überwachungs-Verein Research Fellowship, TÜV-Rheinland, Köln, Germany (1991, 3 months)

- Alexander von Humboldt Research Fellowship, Universität Stuttgart, Institut für Computer-Anwendungen, Germany (1993–1995, 23 months; 2000, 1 month)

- Fulbright Research Fellowship, Washington University in St. Louis, Center for Computational Mechanics, St. Louis, Missouri, USA (1995–1996, 10 months)

Research Fellowships in Hungary:

- Bolyai János Research Fellowship, Hungarian Academy of Sciences (1998-2001)

- Széchenyi István Fellowship, Hungarian Ministry of Education (2001-2004)

Main Research Projects (as Principal Investigator):

- Numerical simulation of the cooling process of a press-cylinder, MAN Roland Druckmaschinen AG, Offenbach am Main, Germany (1998-1999)

- OTKA T26292 – Application of multi-field variational principles to numerical analysis of non-linear elasticity problems, Hungarian Scientific Research Fund (1998-2000)

- OTKA T34358 – Multi-field variational principles and finite element methods in the non-linear theory of elasticity, Hungarian Scientific Research Fund (2001-2004)

- OTKA T49427 – Stress-based and higher-order finite element methods in the mechanics of solids, Hungarian Scientific Research Fund (2005-2008)

- MOL NyRT, KFSZ-293/NP/2008 – Numerical modeling of geomechanical behavior of unconventional reservoirs, MOL Hungary (2008-2013)

Scientific supervisor of 2 PhD theses (2012, 2013)

Name: Dr. Ákos Cservenák	Year of birth: 1991

Education, diploma issued by, in:

Mechatronic Engineer MSc, University of Miskolc, 2016

Vehicle Engineer MSc, Széchenyi István University, 2018

Current job, current position:

University of Miskolc, Faculty of Mechanical Engineering and Informatics, Institute of Miskolc – senior lecturer

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

PhD (mechanical engineering) 2021, Title of dissertation: Theoretical and practical analysis of robotic systems

Experience in education

Educational activity carried out since 2016, subjects taught at the Robert Bosch Institute of Mechatronics from 2016/2017/1 until 2019/2020/2: Basics of Mechatronics; Actuators, sensors; Mechatronic systems; Hydraulics. From 2019/2020/2 subjects taught at the Institute of Logistics: Material handling machines and systems; Mechatronics in the material flow; Industry 4.0 and Logistics; Controlling and automation of logistics systems; Lean 4.0; Operation of packaging machines and equipment. Subjects taught in English in Erasmus+: Mechatronic systems; Lean Logistics. Guest education for 1 week at the Technical Logistics Department of the Technical University of Graz.

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

- a (szűkebb) szakterülethez kötődő publikációk (max. **5** jellemző publikáció)

- Cservenák, Ákos: Path and Trajectory Planning for an Automated Carrier Vehicle Equipped with two Conveyor Belts used in Manufacturing Supply, MANUFACTURING TECHNOLOGY 21 : 2 pp. 163-182. , 20 p. (2021)

- Cservenák, Ákos: Creating Voltage, Current and Navigation Measurement System on an AGV for Motion Controlling, ACADEMIC JOURNAL OF MANUFACTURING ENGINEERING 19 : 2 pp. 31-38. , 8 p. (2021)

- Cservenák, Ákos: Simulation of a Mobile Robot's Motion, ACADEMIC JOURNAL OF MANUFACTURING ENGINEERING 19 : 1 pp. 80-88. , 9 p. (2021)

- Bányai, Tamás ; Cservenák, Ákos: Logistics and Mechatronics Related Research in Mobile Robot-Based Material Handling, LECTURE NOTES IN MECHANICAL ENGINEERING Vehicle and Automotive Engineering 4 pp. 428-443. , 16 p. (2022)

- Ákos, Cservenák: SIMULATION AND MODELING OF A DC MOTOR USED IN A MOBILE ROBOT, ACADEMIC JOURNAL OF MANUFACTURING ENGINEERING 18 : 4 pp. 183-190. , 8 p. (2020)

- Any other scientific/research achievement, patents, etc:

    1. EFOP: performing research tasks on the development of intelligent waste collection systems, summarizing the results achieved in the form of publications

    2. FIKP: research of intelligent storage systems, participation in the development and implementation of development proposals

    3. ISI Automotive Hungary, AUDI Hungária, Kovács Kft, Ongropack: industrial works

    4. ProdLog: creating publications with co-authors

    5. Dual University: competency assessment

    6. Tudásvár: holding professional lectures for high school students

- az eddig megszerzett szakmai jártasság, gyakorlottság, igazolható elismertség

- Conference presentation in a foreign language:

    1. 2022: Automated material handling equipment used in concrete engineering, 13th Central European Congress on Concrete Engineering (CCC2022), Zakopane, Poland

    2. 2022: Logistics and Mechatronics Related Research in Mobile Robot-Based Material Handling, Vehicle and Automotive Engineering 4, University of Miskolc, Miskolc

    3. 2021: Path- and trajectory planning on an AGV, ProdLog workshop, Miskolc (hybrid)

    4. 2020: SmartBin development for cyber-physical waste collection, 13th International Doctoral Student Workshop on Logistics, Magdeburg, 16 June 2020 (online)

    5. 2018: Further development of an AGV control system, Vehicle and Automotive Engineering 2, University of Miskolc, Miskolc

- New National Excellence Programme Scholarship, 2017/18

- Scholarship of the Hungarian Republic, 2012, 2013, 2014 and 2015

- Study medallion: gold: 2013, 2014, 2015 and 2016, silver: 2012, bronze: 2011

- felsőfokú nyelvvizsga: YES NO – English C1 Technical Language Zöld Út Language Exam, 2019

Name: **Dr. Csaba Dömötör**	Year of birth: **1978**
Education, diploma issued by, in:	
mechanical engineer, ME-GÉIK, 2001	
Current job, current position:	
ME-GÉIK-GET- egyetemi docens	
Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*	
PhD (gépészeti tudományok) 2014,	
Experience in education	
Gépészmérnöki alapismeretek, Géprajz, Gépelemek I-II, Gépszerkezettan, Tervezés, Grafikai Tervezés, Ergonómia, Számítógépes géptervezés, Design alapjai Experiences in teaching: 21 years	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények: - 2. Other qualified skills/experiences/honors	

Name: Zsuzsa Drágár	Year of birth: 1977.

Education, diploma issued by, in:

certified environmental engineer, University of Miskolc, 2000

mechanical engineer, University of Miskolc, 2009

Current job, current position:

University of Miskolc, Faculty of Mechanical Engineering and Informatics, Institute of Machine and Product Design – technical assistant (department engineer)

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

-

Experience in education

In the period 2009-2022 (except 2015-2018): Mechanical engineering (BSc), General automotive engineering (BSc), Mechanical drawing (BSc), Machine elements I. (BSc), Machine elements II. (BSc)

In the period 2018-2022 in English: Mechanical drawing (Erasmus)

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

Drágár, Zs., Kamondi, L.: Length of contacting generating lines interpreted in the regular rectangular contact zone of helical gears and zone dependence of their change, 4th International Conference on Vehicle and Automotive Engineering – VAE2022, Miskolc, Hungary (online), 08-09 September 2022, Lecture Notes in Mechanical Engineering (2195-4356 2195-4346): Vehicle and Automotive Engineering 4, pp. 179-189. 2022

2. Drágár, Zs., Kamondi, L.: The effect of the contact zone of cylindrical helical gears on the meshing and some considerations for determining its shape, Desing of Machines and Structures (1785-6892 2064-7522): 11(1), pp. 16-26. 2021

3. Drágár, Zs., Kamondi, L.: Exciter effects in cylindric helical gear meshing, 4th Agria Conference on Innovative Pneumatic Vehicles – ACIPV 2020, Eger, Hungary (online), 07 May 2020, GÉP (0016-8572): 71(3-4), pp. 22-25. 2020

4. Kamondi, L., Drágár, Zs.: Deviation from standards in relation to cylindrical gears with external straight teeth, Desing of Machines and Structures (1785-6892 2064-7522): 2(1), pp. 25-34. 2012

5. Drágár, Zs., Kamondi, L.: Asymmetrical teeth meshing near general centre distance, 10th International Conference on Advanced Engineering, Computer Aided Design and Manufacturing – CADAM 2012, Vis, Croatia, 18-22 September 2012, Advanced Engineering (1846-5900): 6(1), pp. 31-42. 2012

- Other qualified skills/experiences/honors

2011. decembertől a Gépészmérnöki és Informatikai Kar Minőségbiztosítási és Értékelési Bizottságában DPR (diplomás pályakövető rendszer) referens.

2019-től a Multidiszciplináris Tudományok elektronikus folyóiratnál a Szerkesztőbizottság titkára.

Name: *Dr. Csaba Felhő*	Year of birth: *1977*

Education, diploma issued by, in:

M.Sc. in Information Engineering, University of Miskolc, 2001

Current job, current position:

University of Miskolc, Institute of Manufacturing Science, director, associate professor

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

PhD (Mechanical Engineering) 2015

Experience in education

BSc courses: 1.) Machining Processes, 2.), CNC Technology, 3.) Work safety, 4.) Planning of Production and Production Systems, 5.) Machining Processes at the Automative Industry

MSc courses: 1.) CNC Technology, 2.) Project Work B, 3.) Manufacturing Processes and Systems

Erasmus courses: 1.) Planning of Production and Production Systems

PhD courses: 1.) Computer Aided Manufacturing Planning, 2.) NC Technology in Part Manufacturing, 3.) Kinematical surfaces: machining technology and devices

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

1. Felho, Csaba ; Varga, Gyula: Theoretical Roughness Modeling of Hard Turned Surfaces Considering Tool Wear, MACHINES 10 : 3 Paper: 188 (2022)

2. Felhő, Csaba ; Varga, Gyula: CAD and FEM Modelling of Theoretical Roughness in Diamond Burnishing, INTERNATIONAL JOURNAL OF PRECISION ENGINEERING AND MANUFACTURING 23 pp. 375-384. , 10 p. (2022)

3. Kundrák, J. ; Karpuschewski, B. ; Pálmai, Z. ; Felhő, C. ; Makkai, T. ; Borysenko, D.: The energetic characteristics of milling with changing cross-section in the definition of specific cutting force by FEM method, CIRP JOURNAL OF MANUFACTURING SCIENCE AND TECHNOLOGY 32 pp. 61-69. , 9 p. (2021)

4. Varga, G. ; Torok, T. ; Felho, C. ; Orosz-Szirmai, G. ; Rez, I.: Surface features of chromium alloyed carbon steel specimens after salt-spray tests in NaCl solution, ADVANCES IN PRODUCTION ENGINEERING & MANAGEMENT 14 : 4 pp. 449-460. , 12 p. (2019)

5. J, Kundrák ; K, Gyáni ; C, Felhő ; AP, Markopoulos ; I, Deszpoth: Analysis of lead twist in modern high-performance grinding methods, IOP CONFERENCE SERIES: MATERIALS SCIENCE AND ENGINEERING 161 : 1 p. 012005 (2016)

2. Other qualified skills/experiences/honors

Participation in more than ten national or international basic research and industrial R&D projects as researcher.

2019-2022 Deputy Director of the Institute of Manufacturing Science

2022- Director of the Institute of Manufacturing Science

Name: Dr. Krisztián Hriczó	Year of birth: 1986
Education, diploma issued by, in:	
okl. mérnök-informatikus 2009., okl. mérnöktanár 2021.	
Current job, current position:	
ME GÉIK Matematikai Intézet, Analízis Intézeti Tanszék, egyetemi docens	
Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*	
PhD (Engineering, Information Science and Technologie)	
Experience in education	
Experiences in teaching: from September 2010: Gazdaságmatematika 1., Matematika 1. és 2., Analízis I. és II., Komputeralgebra, Analysis 2. Erasmus hallgatoknak,	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

Guedda, M., Hriczo, K., Taourirte, L., Chaiboub, J., & Bognar, G. (2022). Scaling properties of a class of interfacial singular equations. Chaos, Solitons & Fractals, 162, 112501.

Benlahsen, M., Bognar, G., Csati, Z., Guedda, M., & Hriczo, K. (2021). Dynamical properties of a nonlinear Kuramoto–Sivashinsky growth equation. Alexandria Engineering Journal, 60(3), 3419-3427.

Bognár, G., & Hriczó, K. (2020). Ferrofluid flow in magnetic field above stretching sheet with suction and injection. Mathematical Modelling and Analysis, 25(3), 461-472.

2. Other qualified skills/experiences/honors

Rövid (5 napos) Erasmus oktatócsere program 7 alkalommal

Name: Dr. Károly JÁLICS	Year of birth: 1974

Education, diploma issued by, in:

MSc. in mechanical engineering, University of Miskolc, 1997

Current job, current position:

University of Miskolc, Faculty of Mechanical Engineering and Informatics, Institute of Machine and Product Design – Associate Professor, (since 2016)

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

PhD. (in mechanical engineering sciences), 2008

Experience in education

at the University of Miskolc

Machine Elements II. (in hungarian and in english): 6 years

Engineering acoustics (in english): 5 years

Drive technology (in hungarian): 5 years

Acosutics 1 - 2 (in hungarian): 6 years

at the Montanuniversität Leoben (Austria)

Acoustics (in german): 12 years

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

1. Horváth, Péter István; Jálics, Károly: Potential future for SRM and SyncRM in automotive applications, DESIGN OF MACHINES AND STRUCTURES 12 : 1 pp. 26-37. , 12 p. (2022)

DOI REAL

2. Kriston, Balázs J.; Jálics, Károly: Malfunction or Normal Operation? Evaluation of the Subjectivity of Noise and Vibration Phenomena Accompanying the Operation of Motor Vehicles, LECTURE NOTES IN MECHANICAL ENGINEERING Vehicle and Automotive Engineering 4 pp. 848-860. , 13 p. (2022)

3. Mester, E. , Pecsmány, D., Jálics, K., Filep, Á., Varga, M., Gráczer, K., Viskolcz, B., Fiser, B.: Exploring the Potential to Repurpose Flexible Moulded Polyurethane Foams as Acoustic Insulators POLYMERS 14 : 1 Paper: 163 , 10 p. (2022)

4. Alsarayefi, Saad ; Jalics, Karoly: Anticipation of damage presence in a fibre reinforced polymer plate through damping behaviour, Engineering Solid Mechanics 9 : 3 pp. 263-270., 8 p. (2021)

5. Alsarayefi, Saad, Jálics, Károly: Micromechanical Analysis of Glass Fiber/Epoxy Lamina, LECTURE NOTES IN MECHANICAL ENGINEERING 22 pp. 101-111., 11 p. (2021)

Supervisor in PhD studies:

They earned a degree under his supervision:

Barhm Abdullah Mohamad (2022)

Current doctoral students with his supervision:

Kriston József Balázs

Horváth Péter István

Iyad Fawzi Yousef Al Najjar

2. Other qualified skills/experiences/honors

- MTA VI. Műszaki Tudományok Osztály Gépszerkezettani bizottság, köztestületi tag
- Magyar Szabványügyi Testület (MSZT) MCS 327 Zaj nemzeti szabványosító műszaki bizottság, szavazati jogú tag

National/international R+D research projects:

GINOP2.2.1-15-2016-00017 Új haszongépjármű hajtáslánc, magasabb hatásfokú, nagyobb teljesítményű, alacsonyabb zajszintű és kiterjesztett élettartammal rendelkező hajtóművének kifejlesztése, professional manager

GINOP-2.3.4-15-2016-00004 Korszerű anyagok és intelligens technológiák FIEK létrehozása a Miskolci Egyetemen, participant

EFOP-3.5.1-16-2017-00002: DUAL DRIVE, participant

ERASMUS+ Smart HEI-Business collaboration for skills and competitiveness/ HEIBus, participant

Name: Dr. Péter Zoltán Kovács	Year of birth: 1977

Education, diploma issued by, in:

certified mechanical engineer, University of Miskolc, 2000

Current job, current position:

University of Miskolc, Faculty of Mechanical Engineering and Informatics, Institute of Materials Science and Technology – associate professor

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

PhD (mechanical engineering sciences) 2013

Experience in education

Metallography Material Science, Material Testing, Sheet Metal Forming, Mechanical Technologies, Materials Technologies in Vehicle Industry, Polymer Processing, iCAD Systems 2, Computer Aided Process Planning, General mechanics, Machine drawing, Machine elements

time spent in education: 23 years

I taught Computer Aided Process Planning, iCAD Systems 2 and Polymer Processing in English for two years.

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

1. SzabolcsJónás, Péter Zoltán Kovács: Multilayered Aluminum Clinch Joints: An Experimental and Numerical Investigation of the Manufacturing Process, Vehicle and Automotive Engineering 4, LECTURE NOTES IN MECHANICAL ENGINEERING 2195-4356 2195-4364, 2022, pp. 558-567.

2. Salyi Zsolt, Kaptay George, Koncz- Horvath Daniel, Somlyai- Sipos Laszlo, Kovacs Peter Zoltan, Lukacs Attila: Boride Coatings on Steel Protecting it Against Corrosion by a Liquid Lead-Free Solder Alloy, METALLURGICAL AND MATERIALS TRANSACTIONS B-PROCESS METALLURGY AND MATERIALS PROCESSING SCIENCE 1073-5615 1543-1916 0360-2141, 2022, pp. 730-743.

3. Rónai L., Kovács P. Z., Gál V.: Design an Opening Force Measuring Device for Balancing Clips, INTERNATIONAL JOURNAL OF ENGINEERING AND MANAGEMENT SCIENCES / MŰSZAKI ÉS MENEDZSMENT TUDOMÁNYI KÖZLEMÉNYEK 6: (2), 2021, pp. 220-225.

4. Baksa Attila, Gönczi Dávid, Kiss László Péter, Kovács Péter Zoltán, Lukács Zsolt: EXPERIMENTAL AND NUMERICAL INVESTIGATIONS ON THE STABILITY OF CYLINDRICAL SHELLS, JOURNAL OF ENGINEERING STUDIES AND RESEARCH 2068-7559, 2020, pp. 34-39.

5. Miklós Tisza, Dávid Budai, Péter Zoltán Kovács, Zsolt Lukács: Investigation of the formability of aluminium alloys at elevated temperatures, IOP CONFERENCE SERIES: MATERIALS SCIENCE AND ENGINEERING 1757-8981 1757-899X, 2016

2. Other qualified skills/experiences/honors

1. Meritorious lecturer award of the University of Miskolc (2022)

2. Award of the Faculty Medal of the Faculty of Mechanical Engineering and Informatics of the University of Miskolc (2013)

3. Kovács Péter Zoltán, Alakítási határdiagramok elméleti és kísérleti elemzése, PhD (Disszertáció) 2013, DOI: 10.14750/ME.2013.030

Name: Prof. György Kovács	Year of birth: 1975

Education, diploma issued by, in:

mechanical engineer, University of Miskolc, 1998.

engineer-economist, University of Miskolc, 2000.

Current job, current position:

University of Miskolc, Faculty of Mechanical Engineering and Informatics, Institute of Manufacturing Science – full professor

Scientific degree (PhD, CSc, DLA) (Title of thesis work is to specify if phD/DLA received within 5 years), membership of the Academy of Sciences/Art (the title of „dr. habil", DSc, specifying the field of science and date, other titles)

PhD (mechanical engineering) 2005.; dr. habil (informatics branch of science)

Experience in education

From 1998 to 2022 the following 36 different subjects were taught at the Faculty of Mechanical Engineering and Informatics:

- Bsc courses: 1.) Production logistics; 2.) Global logistics; 3.) Logistics A; 4.) Logistics; 5.) Logistics of automotive production; 6.) Operation of logistics systems; 7.) Transport systems.
- MSc courses: 8.) Production and service logistics; 9.) Production logistics and inventory management; 10.) Production processes and systems; 11.) Mechatronics in material flow systems; 12.) Logistics systems and equipment; 13.) Transport processes; 14.) Transportation-forwarding; 15.) Logistics systems and processes II.; 16.) Logistics Systems.
- Erasmus courses: 17.) Logistics (in English); 18.) BSc Degree Project (in English); 19.) Production systems (in English).
- PhD courses: 20.) Transportation-forwarding; 21.) Global logistics (in English); 22.) Logistics of manufacturing systems (in English); 23.) Dynamics of materials handling machines (in English); 24.) Dynamics of materials handling machines; 25.) Design and optimization of fiber reinforced plastic structures; 26.) Design and optimization of fiber reinforced plastic structures (in English).
- Courses in the previous educational system: 27.) Mechatronics in material flow; 28.) Product logistics; 29.) Mechatronics in logistics I.; 30.) Mechatronics in logistics II.; 31.) Logistics B; 32.) Logistics; 33.) Design of material flow systems (in English); 34.) Informatics; 35.) Design of welded structures; 36.) Design of metal structures.

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

György Kovács: Combination of Lean value-oriented conception and facility layout design for even more significant efficiency improvement and cost reduction. International Journal of Production Research, 58:(10), pp. 2916-2936. (2020)

György Kovács: Layout design for efficiency improvement and cost reduction. Bulletin of the Polish Academy of Sciences-Technical Sciences, 67:(3), pp. 547-555. (2019)

György Kovács: Application of lean methods for improvement of manufacturing processes. Academic Journal of Manufacturing Engineering, 15:(2), pp. 31-37. (2017)

György Kovács: Layout redesign for cost reduction and efficiency improvement. Journal of Applied Economic Scienes, 12:(3), pp. 663-670. (2017)

György Kovács: Productivity improvement of assembly lines by lean methods. Manufacturing Technology, 17:(2), pp. 192-197. (2017)

Other qualified skills/experiences/honors

Participation in 48 national or international basic research and industrial R&D projects altogether as researcher, including 8 projects as project leader; furthermore, in some cases as project leader of sub-projects.

Name: Dr. Attila Körei	Year of birth: 1969
Education, diploma issued by, in:	
mathematician, KLTE, 1994	
Current job, current position:	
University of Miskolc, Department of Applied Mathematics, associate professor	
Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art*(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*	
PhD, Information Science and Technology	
Subjects taught:	
Mathematics courses: Analysis, Linear algebra, NumericalMethods, Optimization Computer science courses: ArtificialIntelligence, TechnicalComputing Teaching experience: 28 years	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció),kutatási-fejlesztési, alkotói, művészeti eredmények: Ganter, B., Körei, A., Radeleczki, S.: Extentpartitions and context extensions, MathematicaSlovaca, 63/4, pp. 693-706, 2013. Körei, A., Radeleczki, S., Szilágyi, Sz.: An accuracy-typeorderonroughsets, Miskolc MathematicalNotes, 20/1, pp. 331-343, 2019. Körei, A., Szilágyi, Sz.: „LimStorm" – A didacticcard game forcollaborativemathlearningforgen Z students, In: EducatingEngineersforFutureIndustrialRevolutions, Springer International Publishing, pp. 452-463, 2021. 2. az eddig megszerzett szakmai jártasság, gyakorlottság, igazolható elismertség:	

Name: Dr. Judit Tamás Kunné	Year of birth: 1994
Education, diploma issued by, in:	
Computer Science Engineer, University of Miskolc, 2017	
Current job, current position:	
University of Miskolc, Institute of Information Science, senior lecturer	
Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*	
PhD 2021. „Classification based Symbolic Indoor Positioning"	
Experience in education	
5 years, Hungarian courses: Database systems, Intelligent methods, Basics of framework-based programming, Foundation of Mobile programming, Web technologies, Basics of Programming, Software Testing, Information Technology for Engineers, Software Engineering Methods. English courses,: Mobile and IoT Application Development, Database Systems I, Webprogramming, Database Systems II	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények: Tamas, Judit, and Zsolt Toth. "Topology-Based Evaluation for Symbolic Indoor Positioning Algorithms." IEEE Transactions on Industry Applications 55.6 (2019): 6324-6331. Tóth, Zsolt, and Judit Tamás. "Miskolc IIS hybrid IPS: Dataset for hybrid indoor positioning." 2016 26th International Conference Radioelektronika (RADIOELEKTRONIKA). IEEE, 2016. Tamas, Judit and Zsolt Toth. „Classification-based symbolic indoor positioning over the Miskolc IIS Data-set" Journal of Location Based Services (2018) 2. az eddig megszerzett szakmai jártasság, gyakorlottság, igazolható elismertség	

Name: Dr. István Kunos	Year of birth: 1967

Education, diploma issued by, in:

MSc in Mechanical engineering, ME, 1991; MSc Economist, KF, 2004; Kvalifikált coach, BCA, 2010

Current job, current position:

ME, GTK, Vezetési tsz. – habil egyetemi docens

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

Ph.D. (szervezés és vezetéstudományok) 2004, Habil (coaching) 2017

Experience in education

Subjects taught: Coaching, Személyiségfejlesztés, Vezetéslélektan, Vezetésfejlesztés, Konfliktuskezelés, Problémamegoldás, Vezetés-szervezés, Emberi erőforrás menedzsment

23 years in education, Subjects taught in English, as a guest lecturer in foreign institutions

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

1. Személyiségfejlesztés, Miskolci Egyetem Kiadó, Miskolc, 2009.

ISBN 978-963-661-862-9

2. Personality Development, Miskolci Egyetem Kiadó, Miskolc, 2011. ISBN 978-963-661-952-7

3. Coaching a magyar HRM-ben, in: Átalakuló emberi erőforrás menedzsment szerk.: Poór-Karoliny-Berde-Takács, Budapest, Complex Kiadó, 2012. pp. 266-277. ISBN 978-963-295-083-9

4. Coaching (et al), in: Menedzsment tanácsadási kézikönyv, szerk.: Poór J., Budapest, Akadémiai Kiadó, 2016. pp. 511-532.

ISBN 978-963-05-9812-5 ISSN 2061-6430

5. Coaching a társadalom és a gazdaság szolgálatában, Észak-magyarországi Stratégiai Füzetek, Gazdaság-Régió-Társadalom, 2018. XV. évfolyam 1. szám, pp 92-97, Miskolci Egyetem, Gazdaságtudományi Kar, ISSN 1786-1594 (Nyomtatott), ISSN 2560-2926 (Online)

2. Other qualified skills/experiences/honors

Habilitáció summa cum laude eredménnyel a coaching területén, melynek eredménye a világon elsőként megalkotott coaching-folyamatmodellek összehasonlító elemzés, valamint egy magyar coaching-model

3. Other qualified skills/experiences/honors

12 év coaching praxis és az ezzel járó szakmai tapasztalat az egyéni ügyfelektől a multinacionális vállalatokon keresztül, a coaching minden fajtájára vonatkozóan

Name: Dr. László Kuzsella	Year of birth: 1976

Education, diploma issued by, in:

certified engineer-physicist, University of Miskolc, 2001

Current job, current position:

University of Miskolc, Faculty of Mechanical Engineering and Informatics, Institute of Materials Science and Technology – associate professor

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

PhD (mechanical engineering sciences) 2011

Experience in education

Mechanical Technologies, Heat treatment and Welding, Heat Treatment and Surface Engineering, Materials Selection, Material Structure, Material Science, Material Testing, Computer Aided Process Planning, Application technique of wood materials, Polimer Composites, Modern Materials And Technologies,

time spent in education: 22 years

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

1. Nabeel Mohammed; Varga Miklós; Kuzsella László; Fiser Béla; Vanyorek László; Viskolcz Béla;

The Effect of Pore Volume on the Behavior of Polyurethane-Foam-Based Pressure Sensors POLYMERS (2073-4360): 14 17 p. 3652. (2022), Q1

2. Nabeel Mohammed; Varga Miklós; Kuzsela László; Filep Ádám; Fiser Béla; Viskolcz Béla; Kollár Mariann; Vanyorek László;

Preparation of Bamboo-Like Carbon Nanotube Loaded Piezoresistive Polyurethane-Silicone Rubber Composite; POLYMERS (2073-4360): 13 13 Paper 2144. 14 p. (2021) Q1

3. Alsalamah Bassel, László Kuzsella, Zsolt Lukács: Physical Simulation and Mathematical Modelization with Hardness Distribution Mapping of Sico Test, GÉP (0016-8572): 72 1-2 pp 7-10 (2021) Language: English HAS Section of Agricultural Sciences (IV.) A Publication: 31926299, Hungary, 2021

4. Alsalamah Bassel, László Kuzsella: Comparison of the mathematical modellisation and physical simulation of strain induced crack opening, Proceedings of the 1st International Conference on Engineering Solutions for Sustainable Development, (ICESSD 2019) Conference: Miskolc, Hungary 2019.10.03. - 2019.10.04. London: CRC Press, p. Title. (2020) Language: English ISBN: 9780367824037, Hungary, 2020

5. Sályi Zsolt; Dr. Kuzsella László; Dr. Benke Márton

Különböző összetételű acél alapanyagok szilárd közegű boridálása szelektív forrasztószerszámok élettartam növelésére

XXVIII. Hőkezelő és anyagtudomány a gépgyártásban országos konferencia és szakkiállítás külföldi résztvevőkkel; Konferencia kiadvány, Balatonfüred, Gépipari Tudományos Egyesület, Hőkezelő Szakosztály, pp 225-231, Hungary, 2019

Other qualified skills/experiences/honors

1. Excellent Teaching Diploma, Awarded from the University of Miskolc for educational and educational development activities, ME (2017)

2. Excelent Supervisor Diploma, Awarded from the University of Miskolc for supervising activities, ME, TDT (2013)

3. Professional Honors, OMBKE National Hungarian Mining and Metallurgical Association (2011)

4. Kuzsella László, The Effect of Longitudinal Compression on the Structure and the Mechanical Properties of Beech Wood, PhD (Disszertáció) (2011)

Name: Sándor Lajos	Year of birth: 1967

Education, diploma issued by, in:

Mechanical engineer, university of Miskolc, 1991

Current job, current position:

University of Miskolc, Institute of Mathematics, master instructor

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

-

Experience in education

Experience in teaching: 1991 –

Subjects taught in Hungarian:

- Számítógépi geometria és grafika c. tantárgy gyakorlatvezető
- Interaktív CAD/CAM rendszerek c. tantárgy gyakorlatvezető
- CAD rendszerek c. tantárgy előadó és gyakorlatvezető
- Műszaki dokumentáció c. tantárgy előadó és gyakorlatvezető
- Ábrázoló geometria c. tantárgy gyakorlatvezető
- CAD alapjai c. tantárgy előadó és gyakorlatvezető
- Bevezetés a CAD-be c. tantárgy gyakorlatvezető
- Műszaki ábrázolás alapjai c. tantárgy előadó és gyakorlatvezető
- Geometriai modellezés c. tantárgy gyakorlatvezető

Subject taught in English:

- Geometric modeling

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

- Bancsik, Zs., Lajos, S., Juhász I.: Ábrázoló geometria kezdőknek, elektronikus jegyzet, http://iam035.inf.unideb.hu/mobidiak/listdocument.mobi?id=100, 2004., 215p.
- Juhász I., Lajos S.: Számítógépi grafika és geometriai modellezés, Foglalkoztatáspolitikai és Munkaügyi Minisztérium, Humánerőforrás-fejlesztés Operatív Program, HEFOP 3.3.1-2004-06-0012., Miskolc, 2005., 154 p.

- Juhász I., Lajos S.: Számítógépi grafika és geometriai modellezés, szakmérnöki jegyzet, Foglalkoztatáspolitikai és Munkaügyi Minisztérium, Humánerőforrás-fejlesztés Operatív Program, HEFOP 3.3.1-2004-06-0012., Miskolc, 2006., 151 p.

- Bancsik, Zs., Juhász, I., Lajos,S.: Ábrázoló geometria szemléletesen, elektronikus könyv, http://iam035.inf.unideb.hu/mobidiak/listdocument.mobi?id=154, 2007., 609 p.

- Juhász I., Lajos S.: Számítógépi grafika, Foglalkoztatáspolitikai és Munkaügyi Minisztérium, Humánerőforrás-fejlesztés Operatív Program, HEFOP-3.2.2-P.-2004-10-0011-/1.0, Miskolc, http://193.6.8.43/segedlet/dokumentumok/Szamitogepi_grafika.php, 2007. 102 p.

2. Other qualified skills/experiences/honors-

Name: Dr. Zsolt Lukacs	Year of birth: 1977.
Education, diploma issued by, in:	
Mechanical engineer, University of Miskolc, 2001.	
Current job, current position:	
University of Miskolc, Institute of Materials Science and Technology, associate professor, head of institute	
Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*	
PhD in Engineering in the branch of Mechanical Engineering, 2014.	
Experience in education	
20 years teaching experience in BSc, MSc and PhD level in both, Hungarian and English language, in topics of metalforming, materials science, mechanical technologies, computer aided technology and die design	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

   - Koncsik, Zsuzsanna ; Lukács, János ; Nagy, Gyula: Fracture Mechanical Analysis of Gleeble Simulated Heat Affected Zones in High Strength Steels, PERIODICA POLYTECHNICA-MECHANICAL ENGINEERING 66 : 1 pp. 83-89. , 7 p. (2022)

   - Lukács, János ; Koncsik, Zsuzsanna ; Chován, Péter: Integrity increasing of damaged transporting pipelines using fiber reinforced polymer composite wrap systems, ENGINEERING FAILURE ANALYSIS 137 Paper: 106284 (2022)

   - Koncsik, Zs ; Lukács, Zs: Fracture mechanical analyses of high strength steels applying experiments and simulation, IOP CONFERENCE SERIES: MATERIALS SCIENCE AND ENGINEERING 903 p. 012013 , 9 p. (2020)

   - Zs., Koncsik: Lifetime analyses of S960M steel grade applying fatigue and fracture mechanical approaches, In: Szita Tóthné, Klára; Jármai, Károly; Voith, Katalin (szerk.) Solutions for Sustainable Development : Proceedings of the 1st International Conference on Engineering Solutions for Sustainable Development, (ICESSD 2019) London, Egyesült Királyság / Anglia : CRC Press (2019) 394 p. pp. 316-324. , 9 p.

   - Koncsik, Zs ; Marosné, B. M. ; Kuzsella, L.: Tribological Investigation of Si3N4 Composites, In: Fischer, Alfons; Kirsten, Bobzin (szerk.) Friction, wear and wear protection : International symposium on friction, wear and wear protection, Weinheim, Németország : John Wiley & Sons (2011) pp. 393-401. Paper: 50 , 9 p.

2. Other qualified skills/experiences/honors

Name: Dr. Zsolt Maros	Year of birth: 1957
Education, diploma issued by, in:	
Mechanical engineer, University of Miskolc. 1981	
Current job, current position:	
Institute of Manufacturing Science, Faculty of Mechanical Engineering and Informatics, University of Miskolc	
Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*	
PhD Mechanical Engineering Sciences, 2011	
Experience in education	
Production Engineering since 2014 *Basics of Production Engineering since2010* *Manufacturing Processes and Systems since 2012* *Technological Process Planning since 2010* *Non-traditional Manufacturing Technologies since 2010* *Technology Proper Design since 2005* *Technological Systems since 2006* *Project Task since 2006* *Machine Industrial Measurements 1992-1998* *Assembly 1992-1998*	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények: 1. Krisztina, Kun-Bodnár ; Zsolt, Maros: Some characteristics of surfaces machined with abrasive waterjet turning, POLLACK PERIODICA: AN INTERNATIONAL JOURNAL FOR ENGINEERING AND INFORMATION SCIENCES 17 : 2 pp. 70-74. , 5 p. (2022) 2. Maros, Zs.: Machining of different materials with abrasive waterjet cutting, IOP CONFERENCE SERIES: MATERIALS SCIENCE AND ENGINEERING 448 : 1 Paper: 012009 (2018) 3. Maros, Z ; Felhő, C ; Vass, Z ; Maros, MB: Application of 2D-3D surface geometrical features in tribological analysis of ceramics and ceramic layers, MATERIALS SCIENCE FORUM 812 pp. 435-440. , 6 p. (2015)	

4. Maros, Z: Effect of load energy on the form of the gap at waterjet cutting, KEY ENGINEERING MATERIALS 581 pp. 304-309. , 6 p. (2014)

5. Geiger, M ; Kach, A ; Hohenstein, R ; Maros, Z: Fuzzy-logic based knowledge representation for water jet cutting for light-weight composites, MACHINING SCIENCE AND TECHNOLOGY 7 : 3 pp. 349-360. , 12 p. (2003)

2. Other qualified skills/experiences/honors

2014-2022 director of Institute of Manufacturing Science

2013-2017 deputy dean of Faculty of Mechanical Engineering and Informatics

Name: Dr. Ákos Meilinger	Year of birth: 1983
Education, diploma issued by, in:	
Mechanical engineer, University of Miskolc, 2007, welding engineer, University of Miskolc, 2010	
Current job, current position:	
pl.: University of Miskolc, Faculty of Mechanical engineering and Informatics, Institute of Material Science and Technology – associate professor	
Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*	
PhD (gépészeti tudományok) 2016	
Experience in education	
Hungarian courses: Material science, Mechanical technologies, Heat treating and welding, Forming, Advanced material processes, Fusion welding processes, Pressure welding processes, Quality assurence of welding, Production of welded structures, Automatization and robotics in welding 8 years experience of teaching in material technologies.	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények: Meilinger Á., Sahm A., Gáspár M.: Properties of hybrid aluminium-steel joints made by resistance spot welding, Defect and diffusion forum 416, 2022 Meilinger Á., Sahm A.: Investigation of resistance spot welded joints made on ultra-high strength steel sheets, Lecture Notes in Mechanical Engineering, Vehicle and Automotive Engineering 4, 2022 Lukács J., Meilinger Á., Pósalaky D.: High cycle fatigue and fatigue crack propagation design curves for 5754-H22 and 6082-T6 aluminium alloys and their friction stir welded joints, Welding in the world 62., 2018 Meilinger Á., Török I.: The importance of friction stir welding tool, Production Processes and Systems Vol. 6, 2013 2. Other qualified skills/experiences/honors 7 years industrial experience in the field of welding.	

Name: Dr. Ferenc Mogyoródy	**Year of birth: 1964**
Education, diploma issued by, in:	
okl. Vegyész és angol-magyar szakfordító, KLTE, 83/1989.	
Current job, current position:	
University ofMiskolc, AVK assistant lecturer	
Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*	
Ph.D.	
Experience in education	
1992-től vagyok a felső oktatásban Miskolcon *Az AVK-n tárgyjegyzője vagyok az Applied Chemisty and Transportprocesses SH-s tárgynak* *Az AVK-n tárgyjegyzője vagyok a Wate Mangement SH-s tárgynak* *Az AVK-n tárgyjegyzője vagyok az Inorganic Chemical Technology SH-s tárgynak* *A 2000es években a Gépészeknek Pre course-t tartottam Chemistry es elsosoknek General Chemistry cimen kulfoldieknek*	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények: 2. Other qualified skills/experiences/honors Kiváló Oktató diploma 2022-ben	

Name: Dr. Árpád Gábor Móré	Year of birth: 1964
Education, diploma issued by, in:	
Certified Electrical Engineer, BME, 1987, Certified Mechanical Economic Engineer	
Current job, current position:	
University of Miskolc, Institute of Automation and Infocommunication, master instructor	
Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*	
Experience in education	
Automation, Automation II., Control Theory, Measurement and Control Technology	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

   - Modeling the temperature distribution of printed circuit boards 2022 MULTIDISCIPLINARY SCIENCES: PUBLICATION OF THE UNIVERSITY OF MISKOLC
   - Measurement and modeling of temperature distributions,
   - PhD students' forum 2021 - Sectional publication of the Faculty of Mechanical Engineering and Informatics
   - Examination of the temperature distribution during the reflow process of printed circuits PhD students' forum 2020 - Sectional publication of the Faculty of Mechanical Engineering and Informatics

2. Other qualified skills/experiences/honors

Name: Dr. Károly Nehéz	Year of birth: 1974
Education, diploma issued by, in:	
Mechanical Engineer, University of Miskolc, 1997	
Current job, current position:	
ME, GEIK, egyetemi docens	
Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*	
PhD, informatikai tudományok, ME, 2003	
Experience in education	
Subjects taught: Műszaki kommunikáció, Informatikai rendszerek építése, Számítástechnika, Informatikai rendszerek integrálása	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

Király, S., Nehéz, K., & Hornyák, O. (2017). Some aspects of grading Java code submissions in MOOCs. Research in Learning Technology, 25.

Szabó, N. P., Nehéz, K., Hornyak, O., Piller, I., Deák, C., Hanzelik, P. P., ... & Ott, K. (2019). Cluster analysis of core measurements using heterogeneous data sources: An application to complex Miocene reservoirs. Journal of Petroleum Science and Engineering, 178, 575-585.

Agárdi, A., Nehéz, K., Hornyák, O., & Kóczy, L. T. (2021). A Hybrid Discrete Bacterial Memetic Algorithm with Simulated Annealing for Optimization of the Flow Shop Scheduling Problem. Symmetry, 13(7), 1131.

Váradi, C., Nehéz, K., Hornyák, O., Viskolcz, B., & Bones, J. (2019). Serum N-glycosylation in Parkinson's disease: a novel approach for potential alterations. Molecules, 24(12), 2220.

2. Other qualified skills/experiences/honors

Elárás szelektált rajzi alakzatok teljes tartalmának kinyerésére és megjelenítésére, szabadalom, 2018 , Benyújtás száma: P1800403

Name: Géza Németh	Year of birth: 1963

Education, diploma issued by, in:

Mechanical engineer, University of Miskolc, 1987

Current job, current position:

University of Miskolc, Institute of Machine and Production Design, assistant lecturer

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

-

Experience in education

Subjects taught in hungarian from 1989:

Gyakorlatok: Általános Géptan, Géprajz, Gépelemek I. Gépelemek II., Gépelemek III., Gépelemek IV., Kenés és tömítés, Gépszerkezettan-tervezés, Különleges hajtások

Előadások: Gépelemek I, Gépelemek II., Gépelemek IV, Kenés és Tömítés, Különleges hajtások

Subjects taught in English from 1990:

Gyakorlatok: Fundamentals of Machine Elements, Mechanical drawing, Machine Elements I., Machine Elements II., Machine Structures and Design,

Előadások: Machine Elements I., Machine Structures and Design,

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

[1] G. Németh, J. Péter, Development of Efficient Drive Based on Self-help

INTERNATIONAL JOURNAL OF ENGINEERING AND MANAGEMENT SCIENCES / MŰSZAKI ÉS MENEDZSMENT TUDOMÁNYI KÖZLEMÉNYEK 4 : 1 pp. 147-151. , 5 p. (2019)

[2] Németh Géza, Péter József, Development of Efficient Drive Based on Self-help

INTERNATIONAL JOURNAL OF ENGINEERING AND MANAGEMENT SCIENCES / MŰSZAKI ÉS MENEDZSMENT TUDOMÁNYI KÖZLEMÉNYEK 4 pp. 147-151. , 5 p. (2019)

[3] Németh Géza, Friction Assesment of Lubricated Steel Surfaces I, DESIGN OF MACHINES AND STRUCTURES 8 : 1 pp. 18-28. , 11 p. (2018)

[4] Géza Németh, Elementary Calculations for Deflection of Circular Rings

LECTURE NOTES IN MECHANICAL ENGINEERING F12 pp. 115-122. , 8 p. (2017)

[5] Németh Géza, Péter József, Design Considerations of Harmonic Traction Drives

In: Bodzás, Sándor; Mankovits, Tamás (szerk.) Proceedings of the 4th International Scientific Conference on Advances in Mechanical Engineering (ISCAME 2016), Debrecen, Magyarország : University of Debrecen Faculty of Engineering (2016) 654 p. pp. 378-381. , 4 p.

2. Other qualified skills/experiences/honors

Siklócsapágyazások vizsgálata, kenési feladatok

- cementipari klinkerkemence
- vízi erőmű

Tömítési és kenési feladatok

- vízi erőművi feladatok

Tengelyek lehajlásának vizsgálata

- vízi erőművi feladatok

Merev és hajlékony elemű hajtások vizsgálata

- fogazott elemű hajtások
- súrlódó hajtások

Name: Dr. Zsuzsanna Balajti Óváriné	Year of birth: 1965.

Education, diploma issued by, in:

Matematika-ábrázoló geometria-számítástechnika szakos középiskolai tanár, DE(KLTE), 1988.

Current job, current position:

University of Miskolc, Institute of Mathematics, associate professor

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

1995 dr. univ. cím, 2007. PhD fokozat, minősítése Summa Cum laude, 2017. dr. habil. cím.

Experience in education

DE:

1. 1984-87 Ábrázoló geometria gyakorlatvezető, TTK ábrázoló geometria szakos tanárképzés, 1. és 2. félév, demonstrátorként.

ME:

1. 1989-től Ábrázoló geometria gyakorlatvezető, GÉK(Gépészmérnöki Ka), BK(Bányamérnöki Kar), KK(Kohómérnöki Kar), nappali/levelező tagozat, egyetemi szintű osztatlan képzésbe 2 féléves tantárgy/BSc 1 félév.

2. 1990-93 Számítógépi geometria és grafika gyakorlatvezető, GÉK, nappali tagozat, egyetemi szintű képzés, egyetemi szintű osztatlan képzésben, 3. félév.

3. 1998-tól kifutásig Ábrázoló geometria tárgyfelelős, GÉK, nappali tagozat, gépészmérnök + műszaki menedzser, egyetemi szintű osztatlan képzés, 1. és 2. félév.

4. 2004-2019 Ábrázoló geometria, előadó tárgyfelelős, GÉK/GÉIK(Gépészmérnöki és Informatikai Kar), gépészmérnök és műszaki menedzser, nappali/levelező tagozat, egyetemi szintű osztatlan képzésbe 2 féléves tantárgy / BSC, 1. félév.

5. 2006-tól CAD alapjai gyakorlatvezető, GÉIK, gépészmérnök nappali tagozat, BSc 1. és 2. félév.

6. 2006. 03. 01.- 31. New Mathematical model for Examining of Worm Gearing, CEEPUS tanulmányi út, ANGOL NYELVŰ OKTATÁS, Technical University of Cluj Napoca, CII-RO-0058-01-0506.

7. 2006. 05. 01.- 2006. 05. 31. Location of Bearing Pattern of Worm Gearing and Monge-Projection Applications, CEEPUS tanulmányi út, ANGOL NYELVŰ OKTATÁS, Technical University of Rijeka, no. CII-RO-0013-01-M-3713.

8. 2008-tól kifutásig Ábrázoló geometria előadó gyakorlatvezető tárgyfelelős, MFK (Műszaki Földtudományi Kar) nappali/levelező tagozat, egyetemi szintű osztatlan képzés, 1ea.+1gyak., 1 - 2. félév.

9. 2008-2014 Ábrázoló geometria előadó gyakorlatvezető tárgyfelelős, GÉIK, ipari termék és formatervező, nappali, BSC szintű képzés, 1. félév.

10. 2011–2019 Ábrázoló geometria előadó tárgyfelelős, GÉIK, gépészmérnök és műszaki menedzser, nappali/levelező tagozat, BSC szintű képzés, 1. félév.

11. 2014-15 Matematika 1-2, gyakorlatvezető, GÉIK, nappali BSC szintű képzésben, 1.-2. félév.

12. 2014-2021. Geometriai formatervezés, előadó gyakorlatvezető tárgyfelelős, GÉIK, ipari termék és formatervező, nappali, BSC szintű képzés, 1. félév.

13. 2016-tól PhD témavezető: 3 fő.

14. 2019-től Ábrázoló geometria előadó gyakorlatvezető tárgyfelelős, MAK műszaki Anyagtudományi Kar), anyagmérnök, nappali/levelező tagozat, BSC szintű képzés, 1. félév.

15. 2018-tól Műszaki ábrázolás, előadó tárgyfelelős, GÉIK, energetikai mérnök, 1. félév.

16. 2019-től Bevezetés a CAD-be gyakorlatvezető, GÉIK, mérnökinformatikus, BSC, 6. félév.

17. 2022-től Konstruktív geometriai tervezés és modellezés, előadó gyakorlatvezető tárgyfelelős, GÉIK, ipari termék és formatervező, nappali, BSC szintű képzés, 1. félév.

18. 2022 Lineáris algebra, gyakorlatvezető, AVK(Anyag- és Vegyészmérnöki Kar), nappali BSC szintű, Kazincbarcikára kihelyezett képzésben, 1.-2. félév.

19. 2022 Matematika, előadó tárgyfelelős, AVK, nappali BSC szintű, Kazincbarcikára kihelyezett képzésben, 1.-2. félév.

20. 2022-től Descriptive geometry in engineering, ANGOL NYELVŰ OKTATÁS, előadó tárgyfelelős GÉIK, 1óra előadás+1óra gyakorlat, PhD képzés.

21. 2022-től Geometry design, ANGOL NYELVŰ OKTATÁS, előadó tárgyfelelős, 2 óra előadás+2 óra gyakorlat GÉIK, ERASMUS képzés.

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. Balajti Zs., Dudás I.: The Monge theorem and its application in engineering practice, INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY (0268-3768 1433-3015): 91 1-4 pp.: 739-749 (2017)

2. Zsuzsa Balajti: Examination and adjustment of the bearing pattern in case of helicoid drives, PROCEDIA CIRP (2212-8271): 77 pp 267-270 Paper PROCIR395109. (2018)

3. Zsuzsa Balajti, József Ábel: Edge geometry test method with correctly positioned CCD cameras for production geometrical development of a worm gear hob with arched profile, PROCEDIA MANUFACTURING (2351-9789): 51 pp .:365-372 (2020)

4. Balajti Zs.: Development of the Manufacturing Geometry of Conical and Cylindrical Worms by Analysing of Their Axoids, MANUFACTURING TECHNOLOGY (1213-2489): 20 1 pp.: 3-10 (2020)

5. Balajti Zs., Mándy Z.: Proposed solution to eliminate pitch fluctuation in case of conical screw surface machining by apex adjustment, PROCEDIA MANUFACTURING (2351-9789): 55 pp 266-273 (2021)

b)

1. To38288 számú, „Új geometriájú spiroid hajtások kutatása, gyártásgeometria kidolgozása” című OTKA munkában részvétel. Időtartam: 2003-2006.

2. K63377 Számú, „A gyártásgeometria és a kapcsolódás jellemzőinek komplex vizsgálata korszerű csigahajtások esetében” című OTKA munkában részvétel. Időtartam: 2005-2009.

3. KÖNYV: Balajti Zs.: A Monge ábrázolás bijektivitásának elméleti elemzése és alkalmazása a mérnöki gyakorlatban, Miskolc: Gazdász Elasztik Kft., 2015. 101 p. (ISBN:978-963-358-097-4)

4. MEGHÍVOTT ELSŐ PLENÁRIS ELŐADÓ: Balajti Zs..: A Miskolci Egyetem oktatási struktúrájára, különös tekintettel a mérnök képzés elméleti és gyakorlati összhangjára - A Monge elmélet elemzése és mérnöki alkalmazása, OGÉT, 2016. április 23. Déva

5. MEGHÍVOTT ELSŐ PLENÁRIS ELŐADÓ: Balajti Zs.: Kapcsolódó felületpárok gyártásgeometriai vizsgálata az ábrázoló geometria módszereivel, Műszaki Tudomány az Észak-Kelet Magyarországi Régióban 2016. május 25, Miskolc

6. INVITED PLENARY PRESENTER: Balajti Zsuzsanna: Constructive Geometric Method for the Analysis of the Manufacturing Accuracy of Helicoid Drives, 8th International Scientific Conference on Geometry and Graphics, moNGeometrija 2021, Belgrade, Szerbia 2021.09.10. - 2021.09.12., Society of Geometry and Graphics (SUGIG), pp 9-18 (2021)

7. MEGHÍVOTT ELSŐ PLENÁRIS ELŐADÓ AZ ANYAORSZÁG MISKOLCI EGYETEMET KÉPVISELŐJEKÉNT: Balajti Zsuzsanna: Helikoid hajtópárok axoidjainak vizsgálata a továbbfejlesztett konstruktív geometriai modellben, a „30 éves az OGÉT” 2022, Székelyudvarhely. 2068-1267 2668-9685, pp.: 5-8.

8. Végzett PhD Doktorandusz témavezetése: Mándy Zoltán, Csavarfelületek előállításának intelligens gyártórendszere és geometriailag helyes megmunkálása, 2022, Minősítése: Summa cum laude.

Name: Dr. Gábor Pszota	Year of birth: 1977

Education, diploma issued by, in:

Okleveles fizikus és angol szakfordító, Debreceni Egyetem, 2000

Current job, current position:

University of Miskolc, associate professor

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

PhD (fizika) 2008 (Purdue University, USA)

Experience in education

2001-2008 Purdue University, USA

- mechanika és elektromágnesesség gyakorlat és labor (Fizika Tanszék)
- többváltozós differenciál- és integrálszámítás gyakorlat (Matematika Tanszék)

2008-2011 Wooster School és Brunswick School, USA

- középiskolai fizika és matematika

2011- Miskolci Egyetem, GÉIK, Fizikai és Elektrotechnikai Intézet

- Fizika I-II gyakorlat (földtudomány, műszaki menedzser, mérnök-informatikus, villamosmérnök)
- Fizika I-II előadás (műszaki menedzser, mérnök-informatikus, villamosmérnök)
- Általános Fizika I-II gyakorlat (gépészmérnök, mechatronika)
- Elektrodinamika (villamosmérnök MSc levelező)
- ERASMUS: Mechanics and Thermodynamics, Electromagnetism and Optics

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

- Pszota, G., Zhang, H., Yuan, F., Cui, W.: Origin of X-ray emission from transient black hole candidates in quiescence. 2008, MNRAS, 389, 423
- Pszota, G. & Cui, W. Modeling the Accretion Disk X-ray Continuum of Black Hole Candidates. 2007, ApJ, 663, 1201
- Pszota G. & Majár J.: Twin paradox for a realistically accelerating space travel, Multi-diszciplináris tudományok, 9. kötet. (2019) 4 sz. pp. 250-260

- Pszota Gábor: Determination of the drag coefficient by analysing the trajectory of a football, Multidiszciplináris tudományok, 10. kötet.(2020) 4 sz.pp. 92-103

2. Other qualified skills/experiences/honors

- XMM-Newton, INTEGRAL, RXTE műholdak adatelemzése, spektrometria

Name: Dr. Raghawendra Pratap Singh Sisodia	Year of birth: 1983

Education, diploma issued by, in:

PhD, Gépészeti tudományok, Miskolci Egyetem, 2021

EWE/IWE, okl. nemzetközi hegesztő szakmérnök, Miskolci Egyetem, 2020

MSc, okl. gépészmérnök, Miskolci Egyetem, 2017

Current job, current position:

University of Miskolc, Gépészmérnöki és Informatikai Kar, Anyagszerkezettani és Anyagtechnológiai Intézet, associate professor

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

PhD (gépészeti tudományok) 2021, „High Energy Beam Welding of Advanced High Strength Steels"

Experience in education

Advanced Materials Processing (MSc), Fusion Welding (MSc), Pressure Welding (BSc), Physical and Numerical Simulation of Welding (MSc), iCAD System 2 (MSc), Theory of Metal Forming (BSc), Management of Manufacturing Systems (BSc), Metal Cutting and Tool Design (BSc), Material Science and Metallurgy (BSc), Metrology (BSc), Fluid Mechanics (BSc), Project Management (BSc), Operation Research (BSc), Element of Mechanical Engineering (BSc):

Experiences in education: 9,5 years(Amity University, Noida, U.P, India, 2 év 3 hónap; Galgotias College of Engineering and Technology, Dr. APJ Abdul Kalam Technical University (Formerly U.P. Technical University), U.P, India; 2 év; Miskolci Egyetem, 5 év 2 hónap)

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

1. Raghawendra P.S. Sisodia, and Marcell Gáspár: An Approach to Assessing S960QL Steel Welded Joints Using EBW and GMAW, Metals 12, no. 4: 678. https://doi.org/10.3390/met12040678, Q1

2. Raghawendra P.S. Sisodia, and Marcell Gáspár: Experimental assessment of microstructure and mechanical properties of electron beam welded S960M high strength structural steel, Manufacturing Letters, Vol. 29, pp. 108-112, 2021, https://doi.org/10.1016/j.mfglet.2021.05.004., Q1

3. Raghawendra P.S. Sisodia, Marcell Gáspár, Máté Sepsi &Valeria Mertinger, "Comparative evaluation of residual stresses in vacuum electron beam welded high strength steel S960QL and S960 M butt joints" Vacuum, vol. 184, https://doi.org/10.1016/j.vacuum.2020.109931., Q1

4. Sisodia, R.P., Gáspár, M. & Draskóczi, L. "Effect of post-weld heat treatment on microstructure and mechanical properties of DP800 and DP1200 high-strength steel butt-welded joints using diode laser beam welding." Weld World (2020), Vol. 64, pp. pages671–681. https://doi.org/10.1007/s40194-020-00867-6, Q1

5. R.P.S. Sisodia, M. Gáspár: Investigation of Metallurgical and Mechanical Properties of Laser Beam Welded and Post-weld Heat Treated DP1400 Steel, Journal of Materials Engineering and Performance. (2021), Vol.30, pp. 1703–1710. https://doi.org/10.1007/s11665-021-05469-x., Q2

2. az eddig megszerzett szakmai jártasság, gyakorlottság, igazolható elismertség:

1. Kutatási tapasztalatok (6 év): nagyszilárdságú acélok nagy energiasűrűségű hegesztő eljárásokkal történő hegesztése, huzalelektródás védőgázos ívhegesztés, hegesztési folyamatok numerikus és fizikai szimulációja, hegesztett kötések mechanikai vizsgálatai témakörben.

2. Számítógépes ismeretek: MS office, 2D/3D modellezés (NX, AutoCAD), Microsoft Visio, Minitab, SYSWELD, SAP Production Planning.

3. 9,5 év oktatási tapasztalat

4. Nemzetközi oktatásfejlesztési projektekben való részvétel (Erasmus+ KA2 RMWF, Erasmus+ KA2 D-EWI)

5. Kutatás-fejlesztési projektekben való részvétel: GINOP-2.3.4.-15-2016-00004, GINOP-2.2.1-15-2017-00035

6. Ipari K+F munkákban való részvétel: Hegesztéstechnológia fejlesztése (FGSZ ZRt., 2018-2020)

7. Stipendium Hungaricum PhD Ösztöndíj Program résztvevője

8. Dékáni Dicséret Kiváló Kutató, Miskolci Egyetem, Gépészmérnöki és Informatikai Kar

9. Tanulmányi Emlékérem Ezüst Fokozata, Miskolci Egyetem, Gépészmérnöki és Informatikai Kar

Name: Dr. Erika Rozgonyi	Year of birth: 1979

Education, diploma issued by, in:

matematics and descriptive geometry teacher, Lajos Kossuth University, Debrecen, 2002

Current job, current position:

University of Miskolc, Faculty of Mechanical Engineering and Informatics, Institute of Mathematics, Department of Descriptive Geometry, associate professor

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

PhD (IT Sciences) 2011

Széchenyi professzori ösztöndíj, Széchenyi István ösztöndíj, vagy Békéssy György posztdoktori ösztöndíj stb. és juttatásának időpontja

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Experience in education

Lecture:

- Descriptive Geometry
- Introduction to CAD
- Differential equations
- Mathematics I.,II., III.

Practice:

- Basics of CAD
- Descriptive Geometry
- Introduction to CAD
- Differential equations
- Mathematics I.,II., III.
- Economy mathematics

Eddigi szakmai gyakorlat (közvetlen szakmai - itt pl. tanárképzésben szerzett, ill. tudományos, kutatás-fejlesztési, alkotói, művészeti) és eredményei

- Lectures on descriptive geometry at open days and events for high school students (2020-)

- FŐNIX project: Development of the curriculum in mathematics, 2021
- FŐNIX ME– Holding catch-up consultations in descriptive geometry (2020-)
- TKP 2020-NKA projekt-"Smart Minerals": Mathematical modeling of waste utilization, 2021
- Greek Catholic Gypsy College-mentoring activity 2012-
- Head of community service at the Faculty of Mechanical Engineering and Informatics 2022-

Oktatott tárgy/tárgyak és az oktató szakmai/kutatási tevékenysége kapcsolatának bemutatása:

a) az elmúlt 5 év szakmai, tudományos (művészeti) munkássága a szakterületen (a max. 5 legfontosabb publikáció vagy alkotás felsorolása)

- Szilvásiné Dr. Rozgonyi Erika: The Importance of Teaching Descriptive Geometry in Today's Engineering Courses, Vocational Teacher Training beyond the Curricula, Miskolc-Egyetemváros: Miskolci Egyetemi Kiadó, pp 109-116 (2020)
- Szilvásiné Dr. Rozgonyi Erika: Az ábrázoló geometria tanításának fontossága a mai mérnökképzés során, Szakmai tanárképzés – a tanterveken túl, Miskolc-Egyetemváros: Miskolci Egyetemi Kiadó, pp 112-119 (2020)

Tudományos / szakmai közéleti tevékenység, nemzetközi szakmai kapcsolatok, elismerések

- MAB public body member,
- KGE membership (Constructive Geometry Association, Debrecen),
- Excellent teacher award, University of Miskolc, 2018
- MAB- István Szentpáli Scientific award: outstanding research work, Hungarian Scientific Academy Miskolc Regional Committee, 2011

Name: Dr. Zsuzsanna Simon-Koncsik	Year of birth: 1981.

Education, diploma issued by, in:

Certified technical manager, University of Miskolc, 2007.

Current job, current position:

University of Miskolc, Institute of Materials Science and Technology, associate professor

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

PhD in Engineering in the branch of Mechanical Engineering, 2014.

Experience in education

15 years teaching experience in BSc, MSc and PhD level in both, Hungarian and English language, in topics of materials science, materials testing, structural integrity, maintenance, materials selection, advanced materials, non-metallic materials.

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

- Koncsik, Zsuzsanna ; Lukács, János ; Nagy, Gyula: Fracture Mechanical Analysis of Gleeble Simulated Heat Affected Zones in High Strength Steels, PERIODICA POLYTECHNICA-MECHANICAL ENGINEERING 66 : 1 pp. 83-89. , 7 p. (2022)

- Lukács, János ; Koncsik, Zsuzsanna ; Chován, Péter: Integrity increasing of damaged transporting pipelines using fiber reinforced polymer composite wrap systems, ENGINEERING FAILURE ANALYSIS 137 Paper: 106284 (2022)

- Koncsik, Zs ; Lukács, Zs: Fracture mechanical analyses of high strength steels applying experiments and simulation, IOP CONFERENCE SERIES: MATERIALS SCIENCE AND ENGINEERING 903 p. 012013 , 9 p. (2020)

- Zs., Koncsik: Lifetime analyses of S960M steel grade applying fatigue and fracture mechanical approaches, In: Szita Tóthné, Klára; Jármai, Károly; Voith, Katalin (szerk.) Solutions for Sustainable Development : Proceedings of the 1st International Conference on Engineering Solutions for Sustainable Development, (ICESSD 2019) London, Egyesült Királyság / Anglia : CRC Press (2019) 394 p. pp. 316-324. , 9 p.

- Koncsik, Zs ; Marosné, B. M. ; Kuzsella, L.: Tribological Investigation of Si3N4 Composites, In: Fischer, Alfons; Kirsten, Bobzin (szerk.) Friction, wear and wear protection : International symposium on friction, wear and wear protection, Weinheim, Németország : John Wiley & Sons (2011) pp. 393-401. Paper: 50 , 9 p.

2. Other qualified skills/experiences/honors

Since the beginning of my doctoral studies, I have been publishing in Hungarian and English. I have participated in several conferences abroad, where I have also given presentations in

English. My main fields of research have changed during the last 15 years, so I have also become familiar with metallic and non-metallic materials. In the field of materials testing, I have gained experience in both mechanical materials testing and complementary structural materials testing. I can independently design, carry out and evaluate tests and assess the results professionally. In addition to research, I have been involved in a variety of research and development projects on a wide range of topics and in research related to tenders. I try to use the knowledge gained from these research projects as an example in my teaching and to involve Hungarian and foreign students in research, for example in the context of theses and diploma projects.

During my teaching activities, I have developed five courses in Hungarian (4 BSc 1 MSc) and one MSc course in English.

Name: *Dr. Zoltán Siménfalvi*	Year of birth: *1971*

Education, diploma issued by, in:

MSc in Mechanical Engineering, University of Miskolc, 1995

Current job, current position:

University of Miskolc, Faculty of Mechanical Engineering and Informatics, Institute of Energy Engineering and Chemical Machinery – full professor (since 2022)

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

PhD in Mechanical Engineering, University of Miskolc, 2001

Experience in education

Holding lectures for Hungarian students in Hungarian at the University of Miskolc:

Design of pressure systems, Chemical equipment design, Pressure systems, Safety technology for chemical systems, Quality assurance of Fittings, Environmental Management, Industrial technologies, Chemical technologies and their machinery,

Holding lectures for foreign students in English at the University of Miskolc:

Pressure System Protection, Pressure Vessel Design

Teaching experience: 22 years

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

- SINGH B., SZAMOSI Z., SIMÉNFALVI Z..: Impact of mixing intensity and duration on biogas production in an anaerobic digester: a review. CRITICAL REVIEWS IN BIOTECHNOLOGY (0738-8551 1549-7801): 40 4 pp 508-521 (2020); D1 IF=8,108

- SZAMOSI Z., TÓTH P., KOÓS TAMÁS, BARANYAI V., SZEPESI G., SIMÉNFALVI Z.; Explosion Characteristics of Torrefied Wheat Straw Rape Straw, and Vine Shoots Fuels; ENERGY AND FUELS 10: Paper 7b01875. (2017) D1 IF=3,024

- MANNHEIM, V., SIMÉNFALVI, Z.: Total Life Cycle of Polypropylene Products: Reducing Environmental Impacts in the Manufacturing Phase. POLYMERS (2073-4360): 12 9 Paper 1901. (2020); Q1 IF=3,426

- SINGH B., SZAMOSI Z., SIMÉNFALVI Z..: Decentralized biomass for biogas production. Evaluation and potential assessment in Punjab (India); Energy Reports (2352-4847): 6 pp 1702-1714 (2020); Q1 IF=3,595

- SINGH B., SZAMOSI Z., SIMÉNFALVI Z..: State of the art on mixing in an anaerobic digester: A review; RENEWABLE ENERGY (0960-1481): 141 pp 922-936 (2019); Q1 IF=6,274

2. Other qualified skills/experiences/honors

Working abroad:

- Otto von Guericke University Magdeburg Institut für Strömungstechnik und Thermodynamik (ISUT), Institut für Apparate- und Umwelttechnik (IAUT), 2015
- University of West Bohemia, Faculty of Mechanical Engineering, Department of Power System Engineering, 2015
- Robbanásbiztonság-technikai Network (Ind-Ex Middle East LLC (UAE), Veproil Kft (HU), Stahl Magyarország Kft. (HU), Solver Unio Kft. (HU)), 2015
- FLACS Training Course – CMR Gexcon – Bergen, Norway. 2009
- ARI Armaturen GmbH, Németország, Széchenyi István Ösztöndíj Alapítvány „Ösztöndíj tudományos kutatásért" támogatásával, 2003
- National Technical University of Athens, Erasmus, 2003
- Bureau for Interbational Research and Technology Co-opeation, Bécs, Ausztria, Erasmus, 2002
- Universidade Nova de Lisboa, Faculty of Sciences and Technology, Erasmus, 2002
- National and Kapodistrian University of Athens, Erasmus, 2001
- EADTU, Heerlen (Hollandia), Fund Raising Activity- TEMPUS JEP, 2000
- Mechanics and Design of Tubular Structures, International Centres for Mechanical Sciences, Udine (Olaszország), 1998

Working in research teams as research fellow:

- Higher Education Institutional Excellence Programme Optimisation of natural resources based on advanced technologies: research on energy, water, material development and smart technologies; Professional leader Dr. Péter Szűcs; 2,700 MFt. faculty topic management, participant
- Thematic Excellence Programme More efficient exploitation and utilisation of groundwater natural resources; Professional leader Dr. Péter Szűcs; 1,200 MFt faculty topic management, participant
- EFOP-3.5.1-16-2017-00002 Dual Drive University - Development of dual and cooperative higher education and vocational training courses at the University of Miskolc. Professional leader Dr. Nóra Jakab; 316 MFt participant
- EFOP-3.4.3-16 "Phoenix ME" - Renewable University Higher Education Institutional Developments to jointly improve the quality and accessibility of tertiary education; Project leader Dr. Viktória Soós, Project Leader; 1.843 MFt participant
- EFOP-3.4.4.-16 Knowledge – The University of Miskolc is waiting! Implement skills development and communication programmes to facilitate access to higher education and promote STEM courses in higher education; Project leader Dr. Viktória Soós, Project Leader; 396 MFt participant

- EFOP-3.6.1-16-2016-00011 Rejuvenating and renewable University Innovative Knowledge City, Institution development of the University of Miskolc for intelligent specialization; Professional leader Dr. Károly Jármai; 1.197 MFt participant

- GINOP 2.2.1-15-2016-00005 Efficient and environmentally friendly energy neutralisation and recycling of chemical residues (research and innovative development of enhanced catalysts for catalytic thermal neutralisation of sodium chlorate); Project leader Dr Béla Viskolcz; 3.163 MFt participant

- GINOP 2.3.4-15-2016-00004 Centre for Higher Education and Industrial Cooperation - Development of research infrastructure; Subproject Leader 2016-2017; 5,837 MFt subproject management

- OTKA 109860 Optimization of objects and systems (2015-2017) Supervisor Dr. Károly Jármai; 20 MFt participant

- TÁMOP 4.2.1.C-14/1/Konv-2015-0012 Miskolc University City 2015 Development of coordinated knowledge transfer and innovation services and sustainable partnership with strategic economic operators. Flagship project "Purification of high-salinity pharmaceutical and organic chemical effluents containing volatile organic pollutants, regeneration and recycling of extracted pollutants"; 550 MFt topic management

- TÁMOP-4.2.2.D-15/1/KONV-2015-0017 "Establishment and preparation of interdisciplinary research teams for participation in international programmes in the strategic research fields of the University of Miskolc" - Institute project elements; 295 MFt participant

- GOP-2011-1.3.1/Support for complex technological innovation in companies. Investment in the development of a new product line at Ablonczy Chemical Products Technical Ltd.; 2.5 MFt supervisor

- Project TÁMOP-4.2.1.B-10/2/B-KONV-2010-0001 Innovation Engineering Design and Technologies Centre of Excellence, Development of innovative environmentally friendly technologies and increasing energy efficiency in the chemical industry Scientific workshop; 2.140 MFt Scientific workshop management, cooperation

- TIOP 1.3.1 Development of laboratories - Institute project elements (Kühner dust explosion testing laboratory, Heat transfer lab) HUF 27 M participant

- GOP -2011-1.1.1 Support for market-oriented R&D activities. Development of a prototype of a low-to-medium-power, sorption-based reversible heat pump, in particular the use of renewable or waste heat as an energy source. BSX Ltd.; 9.1 MFt supervisor

- GOP-2007-1.3.1 Corporate Innovation Program at Ablonczy Ltd. Development of a colouring paste system; 2.5 MFt supervisor

- GOP-2008-1.3.1 Corporate Innovation Support. Corporate innovation activity at Liatech Ltd. for the development of concrete products made with liapor technology; 7.5 MFt supervisor

Scientific supervisor of university students:

- Graduated: 2.0 people
    - István Bodnár 2016 (50%)

- Zoltán Szamosi 2016 (100%)
- Tibor Varga 2019 (50%)

- Supervisors with ongoing doctoral action: 1.0 people
  - Singh Buta 2022/08 (50%)
  - Andor Zsemberi 2022/08 (50%)

- Obtained the absolution, but there is no doctoral procedure in progress and no degree: 1.5 people
  - Gyula Krámer 2017/08 (50%)
  - Victoria Mikáczó 2016/08 (50%)
  - Gábor Venczel 2015/08 (50%)

- Active doctoral students with the expected year of absolution: 2.5 people
  - Levente Tugyi 2024/08 (50%)
  - Tamás Pusztai 2023/01 (100%)
  - Guellouh Noureddine 2022/08 (50%)
  - Bernadett Spisák 2022/01 (50%)

Name: Dr. Róbert Skapinyecz	Year of birth: 1983

Education, diploma issued by, in:

MSc in Transportation engineering, Budapest University of Technology and Economics, 2009

Current job, current position:

Institute of Logistics, Faculty of Mechanical Engineering and Informatics, University of Miskolc – associate professor

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

PhD in Information Science and Technology (2018), title of dissertation: Management of risk factors in logistics networks

Experience in education

13 years of edaucational experience in the following courses:

- engineering specialization level: Safety technology for material handling and storage
- BSc level: Quality management of logistics, Transportation systems, Logistics of services, Technical logistics, Industry 4.0 in engineering practice, Material handling systems, Storage systems, Operation of material handling equipment, Material handling systems in the energy industry, Logistics systems, Logistics
- MSc level: Quality management of logistics systems, Quality management in logistics, Logistics processes, Design and control of logistics systems, Control and automation of logistics systems, Service logistics, Logistics of maintenance, Information flow in logistics systems, Design of material handling and storage systems, Transport-forwarding-transportation, Production and service logistics processes, Logistics systems and equipment

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció)

A felsorolt publikációk közül aláhúzással emelje ki azokat, amelyeket a mesterképzés tudományos szakmai hátttereként elvárt országosan (és nemzetközileg) elismert szakmai műhely(ek)hez való érdemi hozzájárulásnak tekint.

1. Skapinyecz, Róbert. "Possibilities of application of modern traffic simulation and planning software in education and research." Advanced Logistic Systems-Theory and Practice 14.2 (2020): 15-20.
2. Róbert, Skapinyecz, and Erdei László. "Korszerű közlekedésszimulációs-és-tervező szoftverek alkalmazási lehetőségei az oktatásban és a kutatásban: Possibilities of application of modern traffic simulation and planning software in education and research." Nemzetközi Gépészeti Konferencia–OGÉT (2021): 243-246.

3. Erdei, László, and Róbert Skapinyecz. "Examination of a road intersection using state of the art traffic simulation software." Advanced Logistic Systems-Theory and Practice 15.2 (2021): 13-20.

4. Illés, B., Tamás, P., Dobos, P., & Skapinyecz, R. (2017). New challenges for quality assurance of manufacturing processes in industry 4.0. In Solid State Phenomena (Vol. 261, pp. 481-486). Trans Tech Publications Ltd.

5. Dobos, P., Cservenák, Á., Skapinyecz, R., Illés, B., & Tamás, P. (2021). Development of an Industry 4.0-Based Analytical Method for the Value Stream Centered Optimization of Demand-Driven Warehousing Systems. Sustainability, 13(21), 11914. IF = 3.251

2. Any other scientific/research achievement, patents, etc:

Participation in research projects:

- UMi-TWINN project (H2020)
- " Younger and Renewing University – Innovative Knowledge City – institutional development of the University of Miskolc aiming at intelligent specialisation" EFOP-3.6.1-16-2016-00011 project
- "Higher Education Institutional Excellence Program " project
- Smart HEI-Business Collaboration for Skills and Competitiveness (HEI-Bus) 575660-EPP-1-2016-1-FI-EPPKA2-KA 2016.11.01.-2019.10.30.
- Establishment and operation of MeMOOC online training center in English and Hungarian (TÁMOP-4.1.2.F-15/1/2015-0001)
- Development of a multifunctional loader family (GOP-1.1.1.-11-2012-0081)
- Cooperation in Higher Education and Research in the Automotive Industry (TÁMOP-4.1.1.C12/1/KONV-2012-0002) project
- „Coordinated quality development of scientific training workshops at the University of Miskolc" (TÁMOP 4.2.2/B-10/1-2010-0008) project
- Research on the development of regional virtual logistics networks within the framework of the Center of Excellence of Mechatronics and Logistics (TÁMOP-4.2.1.B-10/2/KONV-20100001)

Participation in the development of educational materials of the following courses:

- Transportation systems (BSc course)
- Quality management of logistics systems (MSc course)
- Quality management in logistics (MSc course)
- Basics of logistics (MeMOOC course)
- Basics of logistics (MeMOOC course in English)
- Safety technology for material handling and storage (engineering specialization course)

3. az eddig megszerzett szakmai jártasság, gyakorlottság, igazolható elismertség

2021-: associate professor, Institute of Logistics, Faculty of Mechanical Engineering and Informatics, University of Miskolc

2020-: member of the Hungarian Association of Logistics, Purchasing and Inventory Management (HALPIM, or MLBKT in Hungarian)

Name: Dr. Judit Molnár Somogyiné	Year of birth: 1986

Education, diploma issued by, in:

Electrical engineer, University of Miskolc, 2017

Environmental geophysical engineer, University of Miskolc, 2009

Current job, current position:

Department of Electrical and Electronic Engineering, Institute of Physics and Electronic Engineering, University of Miskolc - Associate professor

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

PhD (natural sciences), University of Miskolc, 2013

Experience in education

taught courses: Electromagnetic Theory I. (BSc), Electromagnetic Theory II. (BSc), Electromagnetic Theory III. (BSc), Electrical engineering (BSc), Electrical engineering-electronics (BSc), Basics of Geoinformatics (BSc), Geoinformatics (BSc), Engineering geophysics (MSc), Chapters from continuum physics (PhD)

time spent in education: 13 years

education in foreign language (English): Electrical Engineering (ERASMUS course)

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

1. Fancsik Tamás, Turai Endre, Szabó Norbert Péter, Somogyiné Molnár Judit, Dobróka Tünde Edit, Dobróka, Mihály: Evaluation of induced polarization measurements using a new inversion method. ACTA GEODAETICA ET GEOPHYSICA 56:(4) pp. 623-643 (2021)

2. Bodnár István, Somogyiné Molnár Judit, Szabó Norbert, Erdősy Dániel, Boros Rafael Ruben: BLDC motorok elektromágneses sugárzásának mérésére alkalmas labor kialakítása. MULTIDISZCIPLINÁRIS TUDOMÁNYOK 10:(1) pp. 26-35 (2020)

3. Bodnár István, Tóth, Lajos, Somogyiné Molnár Judit, Szabó Norbert, Erdősy Dániel, Boros Rafael Ruben: Examination the effect of environmental factors on a photovoltaic solar panel. In: Szita Tóthné, Klára; Jármai, Károly; Voith, Katalin (szerk.) Solutions for Sustainable Development: Proceedings of the 1st International Conference on Engineering Solutions for Sustainable Development, pp. 108-114 (2019)

4. Somogyiné Molnár Judit: Komplex mérő-adatgyűjtő-feldolgozó szoftver fejlesztése LabVIEW-ban az akusztikus hiszterézis vizsgálatára. VILLAMOSMÉRNÖKI TUDOMÁNYOK 1:(1) pp. 173-180 (2018)

5. Somogyiné, Molnár Judit: Development of new complex software for investigating acoustic velocities under pressure. GEOSCIENCES AND ENGINEERING 5:(8) pp. 135–146 (2016)

2. *Other qualified skills/experiences/honors*

Scholarships: Pál Erdős Young Researcher Scholarship- National Excellence Program (2014), Campus Hungary short field trip scholarship (2013), Predoctoral scholarship – TÁMOP-4.2.2/B-10/1-2010-0008 (2012)

Honours and awards: Award of Program Zenó Terplán of year 2016/17 (2017), MAB István Szentpáli Scientific Award (2013), Memorial award of the Association of Hungarian Geophysicists (2013), Meeting of Young Scientists, theoretical category – 1st award (2011),

Courses: Site Management and Website Development course, Miskolc (22–30/05/2014), Modern methods of the interpretation of well logging data, short course, Miskolc (26–27/08/2013), MALA Training Course of GPR, Miskolc (07–09/12/2010)

Projects supported by the EU: EFOP-3.6.1-16-2016-00011 (2019), GINOP-2.2.1-15-2017-00090 (2018–2019), TÁMOP-4.2.2.D-15/1/KONV-2015-0030 (2015), OTKA K109441 (2013–2015), TÁMOP-4.2.2.A-11/KONV-2012-0049 (2013–2015), TÁMOP-4.2.2.A-11/1/KONV-2012-0005 (2013–2014), TÁMOP-4.2.1.B-10/2/KONV-2010-0001 (2011–2012)

Memberships: MTA MAB Mechanical and Informatics Committee, Electrical Engineering and Information Technology Working Committee (2017–), Hungarian Academy of Sciences, X. Section of Earth Sciences – Public Board member (2013–), European Association of Geoscientists and Engineers – Member (2010–), Association of Hungarian Geophysicists – Member (2010–)

Name: Dr. Ferenc János Szabó	Year of birth: 1961
Education, diploma issued by, in:	
Mechanical Engineer, Nehézipari Műszaki Egyetem (NME) Miskolc, 1984	
Current job, current position:	
Miskolci Egyetem, Gép- és Terméktervezési Intézet, egyetemi docens	
Scientific degree (PhD, CSc, DLA) (Title of thesis work is to specify if phD/DLA received within 5 years), membership of the Academy of Sciences/Art (the title of „dr. habil", DSc, specifying the field of science and date, other titles)	
PhD, Gépészet, 1997	
Experience in education	
Gépszerkezetek végeselemes analízise, Termékszimuláció, Tribológia, Gépelemek, Gépészmérnöki alapismeretek, ezek oktatása nappali és levelező kurzusokban, magyar és angol nyelven, BSc, MSC szinten, illetve PhD hallgatók számára	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció)

A felsorolt publikációk közül aláhúzással emelje ki azokat, amelyeket a mesterképzés tudományos szakmai hátttereként elvárt országosan (és nemzetközileg) elismert szakmai műhely(ek)hez való érdemi hozzájárulásnak tekint.

Szabó, Ferenc János ; Várkuliné, Szarka Ágnes

Finite Element Study of Rotating Elements of a Ventilator

INTERNATIONAL REVIEW OF MECHANICAL ENGINEERING 13 : 6 pp. 326-331. , 6 p. (2019)

DOI Scopus

Közlemény:30834930 Jóváhagyott Forrás Idéző Folyóiratcikk (Szakcikk) Idézett közlemények száma: 1

Szabó, Ferenc János

Optimization of Springs Applied in Vehicle Suspension Structure

In: Jármai, Károly; Bolló, Betti (szerk.) Vehicle and Automotive Engineering 2 : Proceedings of the 2nd VAE2018, Miskolc, Hungary

Heidelberg, Németország : Springer International Publishing, (2018) pp. 585-596. , 12 p.

DOI Scopus

Közlemény:3378613 Admin láttamozott Forrás Idéző Könyvrészlet (Konferenciaközlemény) Idézett közlemények száma: 1

Szabó, Ferenc János

Multidisciplinary Optimization of Journal Bearings, using a RVA evolutionary type optimization algorithm

ACTA POLYTECHNICA HUNGARICA 13 : 7 pp. 181-195. , 15 p. (2016)

DOI Teljes dokumentum

Közlemény:3175015 Admin láttamozott Forrás Folyóiratcikk (Szakcikk)

Szabó, Ferenc János

Journal Bearing Optimization for Minimum Lubricant Viscosity

DESIGN OF MACHINES AND STRUCTURES 6 : 1 pp. 56-62. , 7 p. (2016)

Közlemény:3147366 Admin láttamozott Forrás Folyóiratcikk (Szakcikk) Nyilvános idézők összesen: 1 Független: 1 Függő: 0

Bódi, Máté ; Szabó, Ferenc János

Autó futómű végeselemes vizsgálata

MULTIDISZCIPLINÁRIS TUDOMÁNYOK: A MISKOLCI EGYETEM KÖZLEMÉNYE 9 : 1 pp. 127-140. , 14 p. (2019)

DOI

Közlemény:30836342 Jóváhagyott Forrás Idéző Folyóiratcikk (Szakcikk) Idézett közlemények száma: 1

2. Any other scientific/research achievement, patents, etc:

A Sályi István Doktori Iskolában témavezető voltam:

Szávai Szabolcs PhD cím megszerzése során.

3. az eddig megszerzett szakmai jártasság, gyakorlottság, igazolható elismertség

ISSMO tagja 1994 óta (International Society of Structural and Multidisciplinary Optimization)

GTE tagja 1989 óta (Gépipari Tudományos Egyesület)

Name: Dr. Zoltán Szamosi	Year of birth: 1986
Education, diploma issued by, in:	
Mechanical Engineer, University of Miskolc, 2011	
Current job, current position:	
University of Miskolc, Faculty of Mechanical Engineergin and Informatics Science, Institute of Energy Engineering and Chemical Machinery, associate professor	
Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*	
PhD (mech. engineering) 2016	
Experience in education	
Vegyipari technológiák és gépeik, Környezetmenedzsment, Environmental Management, Unit Operations, 10 years	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

2. Baibhaw, Kumar ; Gábor, L. Szepesi ; Zoltán, Szamosi: Drying behaviour observations for wood chips of grade EN14961, MULTIDISZCIPLINÁRIS TUDOMÁNYOK: A MISKOLCI EGYETEM KÖZLEMÉNYE 11 : 4 pp. 151-156. , 6 p. (2021)

3. Kumar, Baibhaw ; Szepesi, Gábor ; Čonka, Zsolt ; Kolcun, Michal ; Péter, Zsolt ; Berényi, László ; Szamosi, Zoltán: Trendline Assessment of Solar Energy Potential in Hungary and Current Scenario of Renewable Energy in the Visegrád Countries for Future Sustainability SUSTAINABILITY 13 : 10 Paper: 5462 , 16 p. (2021)

4. Singh, Buta ; Kovács, Kornél L. ; Bagi, Zoltán ; Nyári, József ; Szepesi, Gábor L. ; Petrik, Máté ; Siménfalvi, Zoltán ; Szamosi, Zoltán: Enhancing Efficiency of Anaerobic Digestion by Optimization of Mixing Regimes Using Helical Ribbon Impeller FERMENTATION 7 : 4 Paper: 251 , 17 p. (2021)

5. Singh, Buta; Szamosi, Zoltán ; Siménfalvi, Zoltán ; Rosas-Casals, Martí: Decentralized biomass for biogas production. Evaluation and potential assessment in Punjab (India) ENERGY REPORTS 6 pp. 1702-1714. , 13 p. (2020)

6. Szamosi, Zoltán ; Bodnár, István ; Szepesi, Gábor L. ; Rosas-Casals, Martí ; Berényi, László: Improved environmental impact in the architecture industry: LCA analysis of an alternative masonry element RENEWABLE ENERGY 147 : March pp. 1718-1727. , 10 p. (2020)

Name: Dr. Norbert Tibor Szaszák	Year of birth: 1987
Education, diploma issued by, in:	
MSc. energetics engineer, University of Miskolc (Hungary), 2012.	
Current job, current position:	
Univ. of Miskolc, Faculty of Mechanical Engineering and Informatics Science, Institute of Energy Engineering and Chemical Machinery – associate professor	
Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*	
PhD (mechanical sciences) 2019. „Új típusú aktív turbulenciagenerátorok fejlesztése és laboratóriumi vizsgálata"/" Development and laboratory investigation of novel type active turbulence grids"	
Experience in education	
lectures/practical lessons: Műszaki áramlástan/Engineering Fluid Mechanics (lectures+practical lessons), Áramlástechnikai gépek/Fluid machinery (practical lessons), Engineering Fluid Mechanics and Heat Transfer (English, lectures + practical lessons), Erőművek/Power plants (lectures), Műszaki hő- és áramlástan/ Engineering Fluid Mechanics and Heat Transfer (practical lessons), Műszaki hőtan/Engineering Thermodynamics (practical lessons), Atomerőművek I./Nuclear Power Plants I. (lectures), Villamosságtan/Electrical Sciences (practical lessons). Educational activity: from 2012.	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

Szabó, Szilárd ; Szaszák, Norbert

Áramlás- és hőtechnikai gépek és csővezetéki fojtó szerelvények

In: Jármai, Károly; Bokros, István; Petrik, Máté (szerk.) Innovatív vegyipari gépészeti tervezés és technológiák vol. II.

Miskolc, Hungary : Bíbor Kiadó (2022) pp. 693-929. , 237 p.

Kalmár, László ; Hegedűs, György ; Fáy, Árpád ; Szaszák, Norbert

Software for hydraulic design of axial-flow pump impellers and its manufacturing documentations

MATEC WEB OF CONFERENCES 345 Paper: 00016 , 8 p. (2021)

Szaszák, Norbert ; Bencs, Péter ; Szabó, Szilárd

Intensification of turbulent mixing in gases by means of active turbulence grid

In: Peter, Platko; Mohamad, Al Ali (szerk.) Advances and Trends in Engineering Sciences and Technologies III.

London, United Kingdom / England : CRC Press - Taylor and Francis Group, (2019) pp. 597-602. , 6 p.

Szaszák, N. ; Roloff, C. ; Bordás, R. ; Bencs, P. ; Szabó, S. ; Thévenin, D.

A novel type of semi-active jet turbulence grid

HELIYON 4 : 12 Paper: e01026 , 25 p. (2018)

2. Other qualified skills/experiences/honors

PhD scientific research in the field of flow sciences (2012.01.01.-2015.01.01.)

DAAD researcher exchange programme in the field of flow sciences /Magdeburg-Miskolc/ (2014.07.01-2014.07.30., 2014.10.19-2014.11.19.)

Electrolux-Lehel Ltd.: laboratory tests and development of household applications / flow sciences /, researcher (2014.03.-2014.05.)

DAAD researcher exchange programme in the field of flow sciences (2016.09.- 2016.11.)

FIEK project: researcher, flow-noise reduction of HVAC modules (2017-2019)

Hajdu- Hajdúsági Ipari Corp. Flow/heat sciences R+D project (2017. summer-fall)

Új Nemzeti Kiválósági Program (ÚNKP) research-fund (2017.-2018.): investigation of the gas-mixing enhancement of the active turbulence grid.

HEIBUS intl. project: development of flow measurement system (2018. spring)

Name: *Dr. Sándor Mátyás Szirbik*	Year of birth: *1975*

Education, diploma issued by, in:

Mechanical Engineer, University of Miskolc, Faculty of Mechanical Engineering, 1998

Current job, current position:

University of Miskolc, Faculty of Mechanical Engineering and Informatics, Institute of Applied Mechanics - Associate Professor

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

PhD in Mechanical Engineering Sciences, 2004

Experience in education

Subjects taught in Hungarian as a lecturer:

BSc level: Statics, Mechanics of Materials, Dynamics, Dynamics of Machinery *(University of Miskolc, Hungary)*

MSc level: Mechanical Vibrations, Dynamics of Structures, Nonlinear Vibrations, Finite Element Simulation in Dynamics *(University of Miskolc, Hungary)*

PhD level: Nonlinear Vibrations *(University of Miskolc, Hungary)*

Teaching experience: 24 years

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

- Virág, Z., *Szirbik, S.*: Design and Mechanical Behavior of a Custom Adapter for Dimensional Stone Mining, *Machines,* 10(8) Paper: 683, 11 p. 2022. DOI: 10.3390/machines10080683
- Virág, Z., *Szirbik, S.*: Modal Analysis of Optimized Trapezoidal Stiffened Plates under Lateral Pressure and Uniaxial Compression, *Appl. Mech.* 2(4), pp. 681-693, 2021. DOI: 10.3390/applmech2040039
- *Szirbik, S.*: Hypersingular boundary integral formulations for plane orthotropic elasticity in terms of first-order stress functions, *Journal of Computational and Applied Mechanics*, 15(2), pp. 185–207, 2020. DOI: 10.32973/jcam.2020.011
- Baksa, A., Ladányi, G., *Szirbik, S.*, Virág, Z.: FEM stress analysis of a barrel reamer, *New Trends in Production Engineering,* 2(1), pp. 178-185, 2019. DOI: 10.2478/ntpe-2019-0018
- *Szirbik, S.*: Hypersingular boundary integral formulations for plane elasticity in terms of first-order stress functions, *Journal of Computational and Applied Mechanics*, 11(1), pp. 49-66, 2016. DOI: 10.32973/jcam.2016.004

2. Other qualified skills/experiences/honors

Main Research Projects (as participant):

- OTKA T031998 – Principles and procedure for some special applications of the boundary element and finite element methods, Hungarian Scientific Research Fund (2002-2003)

- OTKA T046834 – Finite element and boundary element methods with a special regard to the nonlinear theory of shells and the dual system of elasticity, Hungarian Scientific Research Fund (2004-2007)

Name: Dr. Ágnes Takács	Year of birth: 1982

Education, diploma issued by, in:

Mechanical engineer, University of Miskolc, 2005.

Current job, current position:

University of Miskolc, Faculty of Mechanical Engineering and Informatics, Institute of Machine and Product Design, associate professor

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

PhD, Doctor of Mechanical Engineering Sciences, 2010.

Experience in education

Subjects were taught in Hungarian: Machine studies, Mechanial drawing, Machine elements I. and II., Design methodology, Environmentally-friendly design, Complex design, Packaging technology, LEAN methods of product design

Subjects were taught in English: Conceptual Design

Years spent in education: 17 years

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

    1. *Takács, Á.: A koncepcionális tervezés módszerei és irányelvei, algoritmikus megoldási lehetőségei. In: GÉP. 2007. (58. évf.) 5-6. sz. ISSN 0016-8572. p. 62-70.*

    2. *Takács, Á.: Számítógéppel segített koncepcionális tervezési módszer, doktori (PhD. disszertáció), 2009.*

    3. *Takács, Á.: Computer Aided Concept Building, Solid State Phenomena 261., pp 402-407, ISSN 1662 9779, 2017.*

    4. *Takács, Á.: Környezetszempontú ajánlások a koncepcionális tervezés során, GÉP, 68. évf., 4. sz., pp.:73-76, ISSN 0016-8572, 2017.*

    5. *Takács, Á.: On design methodology, Design of Machines and Structures, ISSN 1785 6892, Vol 5., Nr. 2., pp: 55-59, 2015.*

2. Other qualified skills/experiences/honors

Became a certified mechanical engineer in 2005. PhD. dissertacion defensee in 2010. Since 2005 as a doctoral student, since 2008 as a teaching assistant, then assistant professor and associate professor, I was involved in the educational, research and scientific work of the Institute of Machine and Product Design. Since 2012, I have been editing Design of Machines and Structures, the publication of the Faculty

of Mechanical Engineering and Informatics of the University of Miskolc, as the secretary of the editorial board.

Name: Dr. Péter Tamás	Year of birth: 1983

Education, diploma issued by, in:

MSc in Engineering and Management, University of Miskolc, 2006

Current job, current position:

Insitute of Logistics, Faculty of Mechanical Engineering and Informatics, university professor and head of institute

Scientific degree (PhD, CSc, DLA) (Title of thesis work is to specify if phD/DLA received within 5 years), membership of the Academy of Sciences/Art (the title of „dr. habil", DSc, specifying the field of science and date, other titles)

PhD in Information Sciences (2012)

dr. habil in Information Sciences (2021)

Experience in education

- BSc programme: Storage systems, Logistics of electronic manufacturing, Simulation of logistics systems, Lean logistics, Simulation of logistics processes, Basics of lean, Logistics in administration, Maintenance in logistics, Quality assurance logistics, Material handling systems
- Erasmus programme: Lean logistics
- Postgraduate specialist training course: Lean tools and methods, Basics of a lean thinking, Simulation of logistics processes
- MSc programme: Transport-forwarding, Global logistics, Design of material handling and storage systems, Quality assurance of logistics systems, Transport Activities, Lean logistics, Lean 4.0
- PhD programme: Simulation of Material Flow and Logistics, Storage systems
- Duration spent in education: 15 years

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció)

- Dobos, P.; Cservenák, Á.; Skapinyecz, R.; Illés, B.; Tamás, P.: Development of an Industry 4.0-Based Analytical Method for the Value Stream Centered Optimization of Demand-Driven Warehousing Systems, SUSTAINABILITY 13(21), 2021, 33 p.

- Tamás, P.; Tollár, S.; Illés, B.; Bányai, T.; Tóth, Á.B.; Skapinyecz, R. Decision Support Simulation Method for Process Improvement of Electronic Product Testing Systems. Sustainability 2020, 12, 3063. https://doi.org/10.3390/su12073063

- P. Tamás: Examining the possibilities for efficiency improvement of SMED method using simulation modelling, MANUFACTURING TECHNOLOGY 17:(4) pp. 120-126. (2017)

- P. Tamás: Decision Support Simulation Method for Process Improvement of Intermittent Production Systems, APPLIED SCIENCES-BASEL 7:(9) Paper 950. 16 p. (2017)

- P. Tamás: Application of value stream mapping at flexible manufacturing systems

KEY ENGINEERING MATERIALS 686: pp. 168-173. (2016)

2. Any other scientific/research achievement, patents, etc:

- Participation in more than 40 industrial R&D projects since 2006, the 5 most important of which are:

  - Development of parameterizable simulation test models for the examination of the material flow system variants of the motors and their associated unit load formation equipment between up and down points (Client: Audi Hungaria Zrt.)

  - Production line material supply planning for CLAAS Hungaria Ltd.

  - Innovative design of the placement of objects of technological processes related to the production of small series parts of the tool factory of Audi Hungária Motor Ltd. with a simulation method

  - Elaboration of the concept of the additional SAP module for the implementation of the FIFO principle in the raw material storage system of Bosch Rexroth Pneumatika Ltd.

  - Review of forklift material handling system, making proposals for its development (Client: Linamar Hungary Zrt.)

- Supervision and co-supervision of 7 PhD students, of which 2 PhD students graduated and 1 PhD student completed the course requirements (doktori.hu).

3. az eddig megszerzett szakmai jártasság, gyakorlottság, igazolható elismertség

- Founder and President of Logistics 4.0 Section (MLBKT) (2021-)

- President of Zénó Terplán College for Advanced Studies (2020-)

- Head of the Institute of Logistics (2019-)
- Vice-dean for economic affairs and development (2017-)
- Alternate Member of National Leadership (GTE) (2020-)
- Member of the Production Systems Division (GTE) (2020-)
- Chairman of the Material Handling and Logistics Working Committee (MTA-MAB) (2020-)
- Member of the MLBKT (2019-)
- Member of the Hungarian Logistics Association (MLE) (2019-)
- Member of the Lean Enterprise Institute (2019-)
- Member of the Material Handling and Logistics Working Committee (MTA - MAB) (2016-)
- Professional awards and prizes:
    - Excellent Researcher at the University of Miskolc (2021.) Kiváló Oktató Diploma (2021.)
    - Excellent Scientific Author of the University of Miskolc (2020.)
    - Excellent Consultant Award (2018.)
    - Honorary Student Award (2018.)
    - Best Publication Prize (IManEE 2016.)
    - MTA MAB – TAKATA Scientific Prize (2015.)
    - Dean's Award - Outstanding Researcher (2014.)

Name: *Dr. Balázs Tóth*	Year of birth: *1982*

Education, diploma issued by, in:

MSc in Mechanical Engineering, University of Miskolc, 2006

Current job, current position:

University of Miskolc, Faculty of Mechanical Engineering and Informatics, Institute of Applied Mechanics – associate professor

Scientific degree (PhD, CSc, DLA) *(Title of thesis work is to specify if phD/DLA received within 5 years),* membership of the Academy of Sciences/Art *(the title of „dr. habil", DSc, specifying the field of science and date, other titles)*

PhD in Engineering Sciences, 2013

Experience in education

Subjects taught in Hungarian as a lecturer:

BSc level: Statics, Mechanics of Materials, Dynamics, Engineering Mechanics I-II, Mechanics, Mechanics of Elastic Bodies, Finite Element Method *(University of Miskolc, Hungary)*

MSc level: Coupled Elasticity Problems, Strength of Materials *(University of Miskolc, Hungary)*

PhD level: Analytical Mechanics *(University of Miskolc, Hungary)*

Subjects taught in English as a lecturer:

BSc level: Mechanics of Materials, Dynamics, Finite Element Method *(University of Miskolc, Hungary)*

MSc level: Strength of Materials *(University of Miskolc, Hungary)*

PhD level: Analytical Mechanics *(University of Miskolc, Hungary)*

Teaching experience: 16 years

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

- *Tóth, B.*: Natural frequency analysis of shells of revolution based on hybrid dual-mixed *hp*-finite element formulation, *Applied Mathematical Modelling,* Vol. 98, pp. 722–746, 2021
- *Tóth, B.*, Burmeister, D.: Dual-mixed *hp*-version axisymmetric shell finite element using NURBS mid-surface interpolation, *Acta Mechanica,* Vol. 231, No. 6., pp. 2457–2483, 2020
- *Tóth, B.*: Hybridized dual-mixed *hp*-finite element model for shells of revolution, *Computers and Structures*, Vol. 218, pp. 123–151, 2019

- *Tóth, B.*: Dual and mixed nonsymmetric stress-based variational formulations for coupled thermoelastodynamics with second sound effect, *Continuum Mechanics and Thermodynamics,* Vol. 30, No. 2, pp. 319–345, 2018

- *Tóth, B.*: Multi-field dual-mixed variational principles using non-symmetric stress field in linear elastodynamics, *Journal of Elasticity,* Vol. 122, No. 1, pp. 113–130, 2016

2. Other qualified skills/experiences/honors

Research Fellowships abroad:

- German Academic Exchange Service (DAAD) - Scholarship, Hamburg University of Technology, Germany (2019, 3 months)

- J. Tinsley Oden Faculty Fellowship Research Program – Scholarship, Oden Institute, University of Texas at Austin, Austin, Texas, USA (2017, 1 month)

- National Excellence Program, Campus Hungary Scholarship, Department of Mathematics and Statistics, University of Otago, Dunedin, New-Zealand (2015, 1 month)

- National Excellence Program, Campus Hungary Scholarship, Centre for Mechanics of Machines, Institute of Fluid-Flow Machinery, Polish Academy of Sciences, Gdansk, Poland (2013, 1 month)

Research Fellowship in Hungary:

- Ányos Jedlik Scholarship, Institute of Applied Mechanics, University of Miskolc (12 months, 2013-2014)

Main Research Projects (as participant, researcher):

- NKFIH 115701 – Some selected problems in computational mechanics, Hungarian Scientific Research Fund (2015-2021)

- OTKA T49427 – Stress-based and higher-order finite element methods in the mechanics of solids, Hungarian Scientific Research Fund (2007-2008)

Editor in Journals:

- Editor, Journal of Computational and Applied Mechanics (JCAM)

Name: Dr. Gyula Varga	Year of birth: 1955

Education, diploma issued by, in:

mechanical engineer, Technical University of Heavy Industry, Miskolc, 1979

Current job, current position:

University of Miskolc, Institute of Manufacturing Science – associate professor

Scientific degree (PhD, CSc, DLA) (Title of thesis work is to specify if phD/DLA received within 5 years), membership of the Academy of Sciences/Art (the title of „dr. habil", DSc, specifying the field of science and date, other titles)

PhD (technical science) 1996

Experience in education

BSc courses: 1.) Quality management, 2.), Environmentally friendly manufacturing, 3.) Quality inspection, 4.) Quality assurance, 5.) Lean production and maintenance

MSc courses: 1.) Cutting technologies, 2.) Production engineering technology I., 3.) Degree thesis A, 4.) Industrial quality assurance

Erasmus courses: 1.) Enviromentally Friendly Manufacturing,

PhD courses: 1.) Modelling of environmentally friendly technologies, 2.) Quality assurance and control, 3.) Quality management

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

1. Felho, Csaba ; Varga, Gyula: Theoretical Roughness Modeling of Hard Turned Surfaces Considering Tool Wear, MACHINES 10 : 3 Paper: 188 (2022)

2. Felhő, Csaba ; Varga, Gyula: CAD and FEM Modelling of Theoretical Roughness in Diamond Burnishing, INTERNATIONAL JOURNAL OF PRECISION ENGINEERING AND MANUFACTURING 23 pp. 375-384. , 10 p. (2022)

3. Gyula, Varga ; Gergely, Dezső ; Ferenc, Szigeti: Surface Roughness Improvement by Sliding Friction Burnishing of Parts Produced by Selective Laser Melting of Ti6Al4V Titanium Alloy, MACHINES 10 : 5 Paper: 400 , 25 p. (2022)

4. Varga, Gyula ; Ferencsik, Viktória: Investigation of the Effect of Surface Burnishing on Stress Condition and Hardening Phenomena, TEHNICKI VJESNIK-TECHNICAL GAZETTE 29 : 4 pp. 1247-1253. Paper: 279472 , 7 p. (2022)

5. Varga, G. ; Torok, T. ; Felho, C. ; Orosz-Szirmai, G. ; Rez, I.: Surface features of chromium alloyed carbon steel specimens after salt-spray tests in NaCl solution, ADVANCES IN PRODUCTION ENGINEERING & MANAGEMENT 14 : 4 pp. 449-460. , 12 p. (2019)

2. Other qualified skills/experiences/honors

Participation in more than ten national or international basic research and industrial R&D projects as researcher and/or principal investigator.

2014-2019 Deputy Director of the Institute of Manufacturing Science

Name: Dr Laura Veres	Year of birth: 1980

Education, diploma issued by, in:

MA in Mathematics and Informatics, University of Baia Mare, 2002

Current job, current position:

University of Miskolc, Institute of Mathematics – Associate professor

Scientific degree (PhD, CSc, DLA) (Title of thesis work is to specify if phD/DLA received within 5 years), membership of the Academy of Sciences/Art (the title of „dr. habil", DSc, specifying the field of science and date, other titles)

PhD (Information Science and Technology) 2010,

Experience in education

Mathematics I, II, III for the students of the Faculty of Earth Science and Engineering and Faculty of Material Science and Engineering, Discrete Mathematics I, II for Information Technology Students, Linear Algebra, Analysis I, Analysis II, Theory of Automata and Formal Languages

Short lecture course about Rough sets and applications at the University of Turku, and at the North University of Baia Mare about Rough sets and applications

Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects

1. a (szűkebb) szakterülethez kötődő publikációk (max. 5 jellemző publikáció), kutatási-fejlesztési, alkotói, művészeti eredmények:

Kiss, Marton L. ; Maria Pinter, Judit ; Trohak, Attila ; Veres, Laura

Long term measurement with PMS7003

In: Dan, Popescu (szerk.) 2022 23rd International Carpathian Control Conference (ICCC)

Piscataway (NJ), Amerikai Egyesült Államok : IEEE (2022) pp. 343-347. , 5 p.

Kozák, Luca ; Házy, Attila ; Veres, Laura

Application of artificial intelligence in settlement development modeling

MULTIDISZCIPLINÁRIS TUDOMÁNYOK: A MISKOLCI EGYETEM KÖZLEMÉNYE 11 : 5 pp. 256-263. , 8 p. (2021)

Juhász, János ; Bányai, Tamás ; Veres, Laura ; Hriczó, Krisztián

Description of package delivery task with mathematical model

ACADEMIC JOURNAL OF MANUFACTURING ENGINEERING 19 : 2 pp. 39-47. , 9 p. (2021)

Veres, L. ; Radeleczki, S.

An incremental method for the construction of the box extents of a context

MATHEMATICS FOR APPLICATIONS 10 : 1 pp. 71-78. , 8 p. (2021)

L Kiss, Márton ; Veres, Laura ; Pintér, Judit Mária ; Trohák, Attila

Modeling of storage rail environment

In: IEEE - IEEE (szerk.) 22nd International Carpathian Control Conference (ICCC 2021)

Piscataway (NJ), Amerikai Egyesült Államok : IEEE (2021) Paper: 9454602 , 4 p.

2. Other qualified skills/experiences/honors