

CVs

Name: Dr. Edgár Bertóti	Year of birth: 1961
Education , diploma issued by, in:	
<i>MSc in Mechanical Engineering, University of Miskolc, 1984</i>	
Current job/current position:	
<i>Institute of Applied Mechanics, Faculty of Mechanical Engineering and Informatics, University of Miskolc – Full Professor</i>	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”, DSc, specifying the field of science and date, other titles</i>)	
<i>DSc in Engineering Sciences (2004)</i> <i>Dr. habil in Engineering Sciences (2001)</i> <i>CSc in Engineering Sciences (1992)</i>	
Experience in education	
<i>Lecturer of the following courses during the last 32 years of teaching experience:</i>	
<ul style="list-style-type: none"> • BSc level: <i>Statics, Mechanics of Materials, Dynamics, Finite Element Method, Kinematics of Mechanisms and Robots, Theory of Elasticity, Variational Principles in Mechanics, Vehicle Dynamics</i> • MSc level: <i>Continuum Mechanics, Constitutive Models in Mechanics, Theory of Plates and Shells</i> • PhD level: <i>Continuum Mechanics, Theory Shells</i> 	
Connection between the teacher’s professional/scientific/research activities and the coordinated courses/subjects	
a) Publications focusing on main research field (max 5 typical publications):	
<ol style="list-style-type: none"> 1. Bertóti, E.: On divergence-free stress fields and zero-energy stress functions in elasticity, <i>Mechanics Research Communications</i>, Vol. 71, pp. 20-24, 2016. IF=1.667 2. Bertóti, E.: A comparison of primal- and dual-mixed finite element formulations for Timoshenko beams, <i>Engineering with Computers</i>, Vol. 31, No. 1, pp. 99-111, 2015. IF=1.460 3. Bertóti, E.: Dual-mixed p and hp finite elements for elastic membrane problems, <i>International Journal for Numerical Methods in Engineering</i>, Vol. 53, No.1, pp. 3-29, 2002. IF=1.468 4. Bertóti, E.: Dual-mixed hp finite element methods using first-order stress functions and rotations, <i>Computational Mechanics</i>, Vol. 26, No. 1, pp. 39-51, 2000. IF=1.067 5. Bertóti, E.: Stress- and rotation-based hierarchic models for laminated composites, <i>International Journal for Numerical Methods in Engineering</i>, Vol. 39, No. 15, pp. 2647-2671, 1996. IF=1.162 	
a) Any other scientific/research achievements , patents etc.:	
Research fellowships: <ul style="list-style-type: none"> • 2001 – 2004: Széchenyi István Fellowship, Hungarian Ministry of Education 	

- 2000: Alexander von Humboldt Research Fellowship, Mathematisches Institut A, Universität Stuttgart, Germany (1 month)
- 1998 – 2001: Bolyai János Research Fellowship, Hungarian Academy of Sciences
- 1995 – 1996: Fulbright Research Fellowship, Center for Computational Mechanics, Washington University in St. Louis, Missouri, USA (10 months)
- 1993 – 1995: Alexander von Humboldt Research Fellowship, Institut für Computer-Anwendungen, Universität Stuttgart, Germany (23 months)
- 1991: Technische Überwachungs-Verein (TÜV), Rheinland, Köln, Germany (3 months)

Main research projects

- 2008 – 2013: Numerical modeling of geomechanical behavior of unconventional reservoirs, MOL Hungary
- 2005 – 2008: Stress-based and higher-order finite element methods in the mechanics of solids, Hungarian Scientific Research Fund (OTKA T49427)
- 2001 – 2004: Multi-field variational principles and finite element methods in the non-linear theory of elasticity, Hungarian Scientific Research Fund (OTKA T34358)
- 1998 – 2000: Application of multi-field variational principles to numerical analysis of non-linear elasticity problems, Hungarian Scientific Research Fund (OTKA T26292)
- 1998 – 1999: Numerical simulation of the cooling process of a press-cylinder, MAN Roland Druckmaschinen AG, Offenbach am Main, Germany

Scientific supervisor of PhD theses:

- György Lajos Kocsán (2013), Balázs Tóth (2013)

a) Other qualified skills/experience/ honours:

- 2013 – : Head of the Institute of Applied Mechanics, University of Miskolc
- 2013 – 2017: Dean of the Faculty of Mechanical Engineering and Informatics, University of Miskolc
- 2007 – 2013: Chair of the Department of Mechanics, University of Miskolc
- 2016 – : Member of Habilitation Council for Engineering and Natural Sciences, University of Miskolc
- 2012 – 2013: Chairman of Habilitation Council for Engineering and Natural Sciences, University of Miskolc
- 2011 – 2013, 2016 – : Member of the Doctoral Council of the University of Miskolc
- 2009 – 2013, 2016 – : Member of the Doctoral Council of the Sályi István Doctoral School for Engineering Sciences, University of Miskolc
- 2002 – : Member of the Scientific Committee for Solid Mechanics, Hungarian Academy of Sciences
- 2002 – 2010: Member of the Editorial Board of the International Journal of Nonlinear Sciences and Numerical Simulation
- 2007 – 2010: Member of the Council for Science and Engineering of the Hungarian Scientific Research Fund (OTKA)
- 2002 – 2005: Member of the Scientific Panel for Engineering of the Hungarian Scientific Research Fund (OTKA)
- 2000 – : Member of the Editorial Board of the Journal of Computational and Applied Mechanics
- 1999 – 2011: Member of the Central European Association for Computational Mechanics
- 1990 – : Member of the Scientific Committee for Engineering Mechanics at the Miskolc Center of the Hungarian Academy of Sciences

Name: Dr. Kwami Nutefe Agbeko	Year of birth: 1956
Education , diploma issued by, in:	
Mathematician ELTE, 1982	
Current job/current position:	
ME-GEIK, Institute of Mathematics, associate professor	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”</i> , DSc, specifying the field of science and date, other titles)	
PhD (in Information Science) 2009, „dr. habil.” (Mathematics and Computer Sciences) 2018	
Experience in education	
<i>Teaching experience:</i> 38 years, 1990-1997 (Hunyadi Mátyás Gymnasium (in Hungarian) and Karinthy Frigyes Hungarian-English Bilingual Gymnasium (in English), 1997 – University of Miskolc (in Hungarian and in English), foreign Universities <i>Subjects:</i> Applied Linear Algebra, Numerical methods, Probability theory and mathematical statistics (in English and in Hungarian)),	
Connection between the teacher’s professional/scientific/research activities and the coordinated courses/subjects	
Publications focusing on main research field (max 5 typical publications)	
<ol style="list-style-type: none"> 1. Agbeko Kwami Nutefe: On optimal averages, <i>Acta Mathematica Hungarica</i>, 63:(1-2) pp. 1-15, (1994). 2. Agbeko Kwami Nutefe: On the structure of optimal measures and some of its applications, <i>Publicationes Mathematicae Debrecen</i> 46:(1-2) pp. 79-87, (1995). 3. Agbeko Kwami Nutefe: Concave function inequalities for sub-(super-) martingales, <i>Annales Universitatis Scientiarum Budapestinensis De Rolando Eötvös Nominatae - Sectio Mathematica</i>, 29.: pp. 9-17, (1986). 4. N.K. Agbeko: Stability of maximum preserving functional equations on Banach lattices: Stability of maximum preserving functional equations, <i>Miskolc Mathematical Notes</i>, 13:(2) pp. 187-196, (2012). 5. Nutefe Kwami Agbeko and Sever Silvestru Dragomir: The extension of some Orlicz space results to the theory of optimal average, <i>Mathematische Nachrichten</i>, 8-9:(286) pp. 760-771, (2013). 	
a) Any other scientific/research achievements, patents etc.	
b) Other qualified skills/experience/ honors	

Name: Dr. Tamás Bányai	Year of birth: 1968
Education , diploma issued by, in:	
<i>mechanical engineer, University of Miskolc, 1993</i>	
Current job/current position:	
<i>University of Miskolc, Faculty of Mechanical Engineering and Informatics Institute of Logistics – associate professor</i>	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”</i> , DSc, specifying the field of science and date, other titles)	
PhD (engineering) 1999	
Experience in education	
<p><i>25 years in education.</i></p> <p><i>Courses in Hungarian: Recycling logistics, Service logistics, Design of materials handling systems, Logistic processes of production and services, Optimisation of logistic processes, Material handling and its machines, Information systems in logistics, Design and control of material handling systems, Logistic management, Logistic systems, Closed loop economy, Information science in logistics, Evaluation methods of logistic systems, Telecommunication in logistics, Information flow in logistic systems, Eurologistics, etc.</i></p> <p><i>Courses in English: Design of material handling systems, Materials handling machines and systems</i></p>	
Connection between the teacher’s professional/scientific/research activities and the coordinated courses/subjects	
<p>a)</p> <p><i>Bányai Á., Bányai T., Illés B. (2017) Optimization of consignment store based supply chain with black hole algorithm. Complexity. Paper 6038973. doi: 10.1155/2017/6038973</i></p> <p><i>Bányai T. (2017) Supply chain optimization of outsourced blending technologies. Journal of Applied Economic Sciences. 12(4): 960-976.</i></p> <p><i>Bányai, T., Bányai, A. (2017) Modelling of just-in-sequence supply of manufacturing processes. MATEC Web of Conferences. 112:06025. doi: 10.1051/mateconf/201711206025</i></p> <p><i>Konyha, J., Bányai, T. (2017) Sensor networks for smart manufacturing processes. Solid State Phenomena. 261: 456-462. doi: 10.4028/www.scientific.net/SSP.261.456</i></p> <p><i>Bányai, T., Veres, P., Illés, B. (2015) Heuristic supply chain optimization of networked maintenance companies. Procedia Engineering. 100: 46-55. doi: 10.1016/j.proeng.2015.01.341.</i></p> <p>b) Any other scientific/research achievements, patents etc.</p> <p>c) Other qualified skills/experience/ honors</p>	

- [7] Kumar, A., Dhiman, A., Baranyi, L.: CFD analysis of power-law fluid flow and heat transfer around a confined semi-circular cylinder. *International Journal of Heat and Mass Transfer* **82** (2015), 159-169. (Impact factor: 2.857)
- [8] Khandelwal, V., Dhiman, A., Baranyi, L.: Laminar flow of non-Newtonian shear-thinning fluids in a T-channel. *Computers & Fluids* **108** (2015), 79-91. (Impact factor: 1.891)
- [9] Baranyi, L., Lewis, R.I.: Comparison of a grid-based CFD method and vortex dynamics predictions of low Reynolds number cylinder flows. *The Aeronautical Journal* **110**(1103) (2006), 63-71, (Impact factor: 0.267)

b) Other qualified skills/experience/ honors

A 'Department of Mechanical Engineering, Nagaoka University of Technology, Nagaoka, Japan' intézménnyel 1995-1997 között szerződéses munkaviszonyban álltam, amely során kutatásokat végeztem a párhuzamos áramlásba helyezett körhenger körüli áramlás és hőátadás numerikus szimulációja területén, valamint előadásokat és gyakorlatokat tartottam angol nyelven a következő tárgyakból: Experimental Fluid Dynamics (BSc), Advanced Fluid Dynamics (MSc) és Flow-Induced Vibration (PhD).

138 scientific papers, 297 citations (142 Scopus vagy WoS citations) H=10.

2000- A 'Journal of Computational and Applied Mechanics' chief editor.

52 conference lectures in English.

The main coordinator of 4 OTKA projects from 1999

Memberships

- az MTA Áramlás- és Hőtechnikai Bizottsága (1997-),
- az IUTAM Magyar Nemzeti Bizottsága (1997-),
- az OTKA Élettelen Természettudományi Kollégium Gépészet-Kohászat zsűri tagja (2004-2007),
- MTA, Bolyai János Kutatási Ösztöndíj Kuratóriuma Műszaki Szakértői Kollégium szakértője (2007-2012),
- a MAB (Magyar Akkreditációs Bizottság) szakértője (2010-),
- az OTKA Gépész-, építő-, építész, közlekedésmérnöki zsűri tagja (2012-2015),
- az ASME Pressure Vessels and Piping Division (PVPD) Fluid-Structure Interaction (FSI) Technical Committee tagja (2009-).

Conference organization

2003, 2006, 2009, 2012, 2015, 2018: A 'Conference on Modelling Fluid Flow (CMFF)', Budapest, Nemzetközi Tudományos Szervező Bizottságának tagja

2009, 2012: A CMFF konferencia cikkek bíráltatásáért felelős elnök (Review Chairman)

Konferencia szervező: 5 American Society of Mechanical Eng. (ASME) és 1 IUTAM konferencia

Achievements, honors

1998-2001 Széchenyi Professor's Scholarship, Ministry of Culture and Education

1999. Felkérés a Magyar Mechanikai Konferencia plenáris előadásának megtartására

2014: Signum Aureum Universitatis, Miskolci Egyetem

Name: Dr. Tibor Csáki	Year of birth: 1949
Education , diploma issued by, in:	
Electrical Engineer, BME, 1973	
Current job/current position:	
honorary professor, University of Miskolc	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”, DSc, specifying the field of science and date, other titles</i>)	
<i>CSc (in Engineering Sciences), 1995</i>	
Experience in education	
Teaching experience: 45 years 1973- (University of Miskolc) Several subjects in Hungarian and English	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
b) Publications focusing on main research field (max 5 typical publications) <ol style="list-style-type: none"> 1. <u>Kiss D., Csáki T.: Korszerű vizsgáló berendezés tervezése szerszámgép mellékhatásokhoz, GÉP folyóirat 64. évf., 7.sz/2013., pp.: 90-93. ISSN: 0016-8572</u> 2. <u>Kiss D., Csáki T., Csorba D., Tomori Z.: Reverse Engineering a Miskolci Egyetemen, GÉP folyóirat 65. évf., 6-7.sz/2014., pp.: 62-65. ISSN: 0016-8572</u> 3. <u>Kiss D., Csáki T.: Reverse engineering at the University of Miskolc, Design of Machines and Structures, 2014. Volume 4, Number 2, pp.: 13-19., ISSN 1785-6892</u> 4. <u>Kiss D., Csáki T.: Concept of a new method for helical surface machining on lathe, Lecture Notes in Mechanical Engineering, Vehicle and Automotive Engineering (ISSN: 2195-4356)</u> 	
d) Any other scientific/research achievements, patents etc.	
e) Other qualified skills/experience/ honors	

Name: Dr. Csaba István Dömötör	Year of birth: 1978
Education , diploma issued by, in:	
MSc in Mechanical Engineering, University of Miskolc, 2001	
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 the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”, DSc, specifying the field of science and date, other titles</i>)	
PhD (Mechanical Engineering.) 2015: „Természeti analógiák adatbázisa, statisztikai elemzése és alkalmazási módszerei a koncepcionális tervezésben”	
Experience in education	
Teaching experience: 2001- In Hungarian: Gépészmérnöki alapismeretek, Gépelemek, Tervezési ismeretek, Tervezéselmélet, Számítógépes tervezés, Ergonómia, Színdinamika, Szabadkézi rajz, Szakdolgozat konzultáció és koordináció In English: Mechanical Drawing	
Connection between the teacher’s professional/scientific/research activities and the coordinated courses/subjects	
Publications focusing on main research field (max 5 typical publications)	
[1] Dömötör, Cs., Péter, J.: Natural Analogies and TRIZ, International Journal of Advanced Engineering, Vol. 6, No. 1., ISSN 1846-5900, Croatia, 2012. november, pp. 15-22.	
[2] Dömötör, Cs., Péter, J.: Design principles in nature, Design of Machines and Structures, Vol. 2., No. 2., HU ISSN 1785-6892, Miskolc, 2012. november, pp. 33-42.	
[3] Dömötör Cs.: A természeti intuíció hatása a termékfejlesztés gyakorlatára, GÉP, 2014., Vol. 65, No. 2., ISSN 0016-8572, pp. 23-26.	
[4] Dömötör, Cs.: Statistical analysis of natural analogy catalogue, Design of Machines and Structures, Vol. 4., No. 2., HU ISSN 1785-6892, Miskolc, 2014. november, pp. 5-12.	
a) Any other scientific/research achievements, patents etc.	
b) Other qualified skills/experience/ honors	
Participation in industrial projects	

Name: Dr. Csaba Felhő	Year of birth: 1977
Education , diploma issued by, in:	
MSc in Information Engineering, University of Miskolc, 2001	
Current job/current position:	
University of Miskolc, Faculty of Mechanical Engineering and Informatics, Institute of Manufacturing Science - associate professor	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”, DSc, specifying the field of science and date, other titles</i>)	
PhD (Mechanical Engineering) 2015, Investigation of surface roughness in machining by single and multi-point tools	
Experience in education	
<ul style="list-style-type: none"> • Fundamentals of Production Engineering, (only practical class) since 2005 • Design of Production and its Systems, since 2005 • Work Safety, 2009-2012 • Project Task B, since 2010 • Rapid Prototyping, 2010-2012, • Machining Processes, since 2014 • Manufacturing Processes and Systems, since 2014 	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
<p>a. Publications focusing on main research field (max 5 typical publications)</p> <ul style="list-style-type: none"> • <u>Csaba Felhő, Bernhard Karpuschewski, János Kundrák: Surface roughness modelling in face milling, <i>PROCEDIA CIRP</i> 31: pp. 136-141. (2015)</u> • Kundrák J, Felhő Cs: Method for determination of the expected roughness of cut surfaces, <i>HUNGARIAN JOURNAL OF INDUSTRY AND CHEMISTRY</i> 39:(2) pp. 189-193. (2011) • Csaba Felhő, János Kundrák: Investigation of the Topography of Machined Surfaces, <i>APPLIED MECHANICS AND MATERIALS</i> 693: pp. 412-417. (2014) • Felhő Cs, Szentesi A: Modeling of RPT, <i>Proceeding of the 11th International Conference on Tools : ICT-2004.</i> 424 <p>a) Any other scientific/research achievements , patents etc</p> <p>b) Other qualified skills/experience/ honors Surface roughness measurement Application and programming of CAD/CAM systems</p>	

Name: Dr. Marcell Gyula Gáspár	Year of birth: 1987
Education , diploma issued by, in:	
MSc in Mechanical Engineering, ME, 2011; Economist, ME, 2012; Welding Engineer, ME, 2013	
Current job/current position:	
ME, GEIK, Institute of Materials Science and Technology – senior lecturer	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”</i> , DSc, specifying the field of science and date, other titles)	
PhD in Mechanical Engineering, 2016 “Nemesített nagyszilárdságú szerkezeti acélok hegesztéstechnológiájának szimulációra alapozott fejlesztése”	
Experience in education	
<i>7 years teaching experience:</i> Subjects in Hungarian: Hőkezelés és hegesztés (BSc), Kötéstechnológiák (BSc) Technológiai vizsgálatok (BSc), Ömlesztő hegesztés (MSc), Fusion welding (MSc), Vegyipari berendezések anyagai és hegesztésük (BSc), Korszerű anyagtechnológiák (MSc)Korszerű anyagok és technológiák (MSc), Hegesztett szerkezetek gyártása (MSc), Hegeszthetőség I. (EWE/IWE), Subjects in English:), Advanced Materials Processing (MSc), Weldability of materials (PhD).	
Connection between the teacher’s professional/scientific/research activities and the coordinated courses/subjects	
a) Publications focusing on main research field (max 5 typical publications) Gáspár, M., Balogh, A., Lukács, J.: Toughness Examination of Physically Simulated S960QL HAZ by a Special Drilled Specimen, Lecture Notes in Mechanical Engineering, F12: pp. 469-481. (2017) Dobosy, Á, Gáspár, M., Lukács, J.: The Influence of Mismatch Effect on the High Cycle Fatigue Resistance of High Strength Steel Welded Joints, Advanced Materials Research 1146: pp. 73-83. (2018) Balogh, A., Dobosy, Á., Frigyik, G., Gáspár, M., Kuzsella, L., Lukács, J., Meilinger, Á., Nagy, Gy., Pósalaky, D., Prém, L.: Hegeszthetőség és a hegesztett kötések tulajdonságai: Kutatások járműipari acél és alumíniumötvözet anyagokon Miskolc: Miskolci Egyetem, 2015. 324 p. (ISBN:978-963-358-081-3) Gáspár, M., Balogh, A., Sas, I.: Physical simulation aided process optimisation aimed sufficient HAZ toughness for quenched and tempered AHSS, In: IIW 2015 International Conference on High Strength Materials – Challenges and Applications. Konferencia helye, ideje: Helsinki, Finnország, 2015.07.02-2015.07.03. Helsinki: Paper IIW 2015 1504. 7 p. Gáspár, M., Balogh, A.: GMAW experiments for advanced (Q+T) high strength steels, Production Processes and Systems 6:(1) pp. 9-24. (2013)	
b) Any other scientific/research achievements , patents etc	

Hazai (TÁMOP, GINOP) és nemzetközi (H2020, Erasmus+) oktatási és kutatási projektek előkészítése és sikeres megvalósítása.

c) Other qualified skills/experience/ honors

A Nemzetközi Hegesztési Intézet (IIW) C-IX bizottságának magyar delegáltja 2016-

MTA Hegesztési Albizottság tag 2016-

Nemzeti Kiválósági Díj (2015)

Apáczai Csere János Doktoranduszi Ösztöndíj (2013-2014)

Name: Dr. György Hegedűs	Year of birth: 1977
Education , diploma issued by, in:	
Mechanical Engineer MSc, University of Miskolc, 2001.(specialization: Machine Tools) 2002 (specialisation: English translator)	
Current job/current position:	
University of Miskolc, SGT – Associate prof.	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”</i> , DSc, specifying the field of science and date, other titles)	
PhD (Mechanical Eng.) 2013, A származtatáselmélet alkalmazása és a numerikus megoldás elő állítása golyós-menetes mozgásátalakító mechanizmusoknál.	
Experience in education	
17 years teaching experience in Hungarian. Most important subjects: Tervezőmódszertan, Módszeres géptervezés, Számítógépes tervezés, Integrált tervezőrendszerek, CAD technikák, Mechatronika II., Robotok, CNC programozás, 3D-s Tervező rendszerek 11 years teaching experience in English. Subjects: Project Work, iCAD Systems, Methodical design.	
Connection between the teacher’s professional/scientific/research activities and the coordinated courses/subjects	
<p>a) Publications focusing on main research field (max 5 typical publications)</p> <ol style="list-style-type: none"> 1. <i>Hegedűs, Gy.</i>: 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. <i>Hegedűs, Gy.</i>: 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. <i>Hegedűs, Gy., Kalmár L.</i>: 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. <i>Hegedűs György, Takács György</i>: Tool profile generation by boolean operations on ball nuts, Key Engineering Materials 581: pp. 462-465. (2014), ISSN: 1662-9795 5. <i>Hegedűs György</i>: <i>Golyósanya szerszámprofiljának validálása CAD rendszerben, Multidiszciplináris Tudományok: A Miskolci Egyetem Közleménye 4:(1) Pp. 159-164. (2014), ISSN 2062-9737</i> <p>b) Any other scientific/research achievements, patents etc. Szerszám-gép-mechatronikai részegységek kutatása-fejlesztése, Mérési koncepciók feltárása hegesztett földmunkagépkarokhoz, Szerszám-gép-mechatronikai részegységek kutatása-fejlesztése, Golyósorsók pontosságnövelésének kutatása-fejlesztése, Szoftver fejlesztése nagyméretű hegesztett földmunkagépkarok mobil furatméréséhez, Szoftver fejlesztése CAD rendszerhez közzörűkorongprofil meghatározásához, Termelékenység növelése CNC megmunkálógépeken nullpontrendszer alkalmazásával a Bosch Rexroth Pneumatika Kft. részére, Karbantartási rendszer kidolgozása a Bosch Rexroth Pneumatika Kft. részére, statisztikai elemzések,</p>	

Karbantartási rendszer kidolgozása a Carl Zeiss Hungaria Optikai Kft. részére,
Autóipari részegységek gyártási és felújítási rendszerébe integrálható Automatizált
tesztműszerek és berendezések kifejlesztése, a minőségbiztosítás hatékonysága javítása
érdekében, Gördülőcsapágyak remanens élettartamának meghatározására alkalmas módszerek
kifejlesztése,

Mechatronikai tudás- és technológiai transzfer, fokozott termelékenységű ultra precíziós
technológiák, berendezések meghonosítása és intenzív alkalmazása a Miskolci Egyetemen,
kinematikai mozgásátvivő felületek optimális kialakítása,

Belső menetes felülettel rendelkező mechanizmusok kapcsolódó felületepárjának
előállítására numerikus módszerekkel.

- c) Other qualified skills/experience/ honors
2013 Szentpáli István Tudományos Díj
2013 Jedlik Ányos Doktorjelölti Ösztöndíj
2005 Műszaki Irodalmi Díj

Name: Dr. László Péter Kiss	Year of birth: 1987
Education , diploma issued by, in:	
<i>MSc in Mechanical Engineering, University of Miskolc, 2011</i>	
Current job/current position:	
Institute of Applied Mechanics, Faculty of Mechanical Engineering and Informatics, University of Miskolc – Senior Lecturer	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”</i> , DSc, specifying the field of science and date, other titles)	
PhD in Mechanical Engineering, 2016; Thesis: Vibrations and Stability of Heterogeneous Curved Beams	
Experience in education	
5.5 years teaching experience in Hungarian (subjects: Statics, Strength of Materials, Dynamics, Finite Element Method, Mechanics, Mechanical Vibrations); 3 years teaching experience in English (subjects: Theory of Elasticity and Mechanical Vibrations)	
Connection between the teacher’s professional/scientific/research activities and the coordinated courses/subjects	
a) Publications focusing on main research field (max 5 typical publications) <ul style="list-style-type: none"> - <u>L. P. Kiss, Gy. Szeidl. Vibrations of pinned-fixed heterogeneous circular beams pre-loaded by a vertical force at the crown point. JOURNAL OF SOUND AND VIBRATION 393C: pp. 92-113, (2017)</u> - <u>L. Kiss, Gy. Szeidl. Nonlinear In-Plane Stability of Heterogeneous Curved Beams under a Concentrated Radial Load at the Crown Point. TECHNISCHE MECHANIK 35:(1), pp. 1-30, (2015)</u> - <u>Gy. Szeidl, L. Kiss. Stresses in Curved Beams Made of Heterogeneous Materials. INTERNATIONAL JOURNAL OF MECHANICAL SYSTEMS ENGINEERING 1:(2) Paper 107, 8 p., (2015)</u> 	
b) t Any other scientific/research achievements , patents etc. <ul style="list-style-type: none"> - total number of scientific works: 41 - number of conference articles/talks: 20 (the majority in English) - number of journal articles: 14 (the majority in English) 	
c) Other qualified skills/experience/ honors <ul style="list-style-type: none"> - reviewer for international scientific journals - reviewer for the institutional Scientific Students’ Associations (TDK) - public body member of the Hungarian Academy of Sciences 	

Name: Dániel Kiss	Year of birth: 1987
Education , diploma issued by, in:	
Mechanical Engineer MSc, University of Miskolc, 2011	
Current job/current position:	
University of Miskolc, assistant lecturer	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”, DSc, specifying the field of science and date, other titles</i>)	
-	
Experience in education	
Computer Aided NC Programming, Számítógépes NC programozás, Tervezésinformatika NX, Mérnöki tervezőrendszerek, Szerszámgépek, CAD rendszerek	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
<p>a) Publications focusing on main research field (max 5 typical publications)</p> <ol style="list-style-type: none"> 1. <u>Kiss D., Csáki T., Makó I.</u>: Nagy menetemelkedésű golyósanya esztergán történő megmunkálási lehetőségeinek vizsgálata, GÉP folyóirat 63. évf., 3.sz/2012., pp.: 19-23. ISSN: 0016-8572 2. <u>Kiss D., Csáki T., Oláhné L. J.</u>: Ipari CNC gépek segítik az oktatást a Miskolci Egyetemen, GÉP folyóirat 63. évf, 12.sz/2012., pp.: 61-64., ISSN: 0016-8572 3. <u>Kiss D., Hegedűs Gy., Szilágyi A.</u>: Nagyteljesítményű hengerítőgép erő- és teljesítményviszonyainak számítógépes vizsgálata, GÉP folyóirat 63. évf, 12.sz/2012., pp.: 135-138., ISSN: 0016-8572 4. <u>Kiss D., Nyerges D., Szilágyi A.</u>: Nagyteljesítményű hengerítőgép statikus vizsgálata, GÉP folyóirat 63. évf, 12.sz/2012., pp.: 139-142., ISSN: 0016-8572 5. <u>Kiss D., Csáki T.</u>: Korszerű vizsgáló berendezés tervezése szerszámgép mellékhatásokhoz, GÉP folyóirat 64. évf., 7.sz/2013., pp.: 90-93. ISSN: 0016-8572 6. <u>Kiss D., Csáki T., Csorba D., Tomori Z.</u>: Reverse Engineering a Miskolci Egyetemen, GÉP folyóirat 65. évf., 6-7.sz/2014., pp.: 62-65. ISSN: 0016-8572 7. <u>Kiss D., Csáki T.</u>: Reverse engineering at the University of Miskolc, <i>Design of Machines and Structures</i>, 2014. Volume 4, Number 2, pp.: 13-19., ISSN 1785-6892 8. <u>Kiss D., Csáki T.</u>: Concept of a new method for helical surface machining on lathe, <i>Lecture Notes in Mechanical Engineering, Vehicle and Automotive Engineering</i> (ISSN: 2195-4356) 9. <u>Kiss D., Szilágyi A., Takács Gy., Tóth D.</u>: Theoretical vibration analysis of a manufacturing device, <i>Design of Machines and Structures</i>, 2016. Volume 6, Number 1, pp.: 63-71., ISSN 1785-6892 10. <u>Kiss D., Szilágyi A., Takács Gy., Tóth D.</u>: Vibration analysis of a manufacturing device, <i>Design of Machines and Structures</i>, 2016. Volume 6, Number 2, pp.: 46-59., ISSN 1785-6892 <p>b) Any other scientific/research achievements, patents etc.</p>	

c) Other qualified skills/experience/ honors

Name: Dr. Zsuzsanna Koncsik	Year of birth: 1981.
Education , diploma issued by, in:	
Engineering Manager, University of Miskolc, 2007.	
Current job/current position:	
ME, GÉIK, Institute of Materials Science and Technology - associate professor	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”, DSc, specifying the field of science and date, other titles</i>)	
PhD (in Engineering Science) 2014, „Si ₃ N ₄ műszaki kerámiák tribológiai és mechanikai vizsgálata”	
Experience in education	
9 years teaching experience Subjects in Hungarian: Anyagtudomány, Anyagvizsgálat, Anyaginformatika, Nemfémes anyagok, Élettartam gazdálkodás, Anyagok világa, Karbantartás és műszaki diagnosztika, Anyagismeret, Korszerű anyagok és anyagválasztás, Anyagkiválasztás Subject in English: Materials Selection	
Connection between the teacher’s professional/scientific/research activities and the coordinated courses/subjects	
Publications focusing on main research field (max 5 typical publications) 1) Fótos R, Koncsik Z, Lukács J: Application of risk-informed inspection strategy to improve the lifetime and efficiency of cleaning pigs, MATERIALS SCIENCE FORUM 729: pp. 338-343. (2013) 2) <u>Koncsik Zs, Lukács J: Design Curves for High-Cycle Fatigue Loaded Structural Elements; MATERIALS SCIENCE FORUM 752: pp. 135-144. (2013)</u> 3) Fótos R, Koncsik Zs., Lukács J. Conception of materials data collection for numerical modelling of technological processes PRODUCTION PROCESSES AND SYSTEMS 6: pp. 107-114. (2012) 4) <u>Lukács J, Nagy Gy, Harmati I, Koritárné F R, Kuzselláné K Zs: Lukács J (editors) Szemelvények a mérnöki szerkezetek integritása témaköréből Miskolc: Miskolci Egyetem, 2012. 334 p.(ISBN:978-963-358-000-4)</u> a) Any other scientific/research achievements, patents etc. - részvétel EFOP és GINOP pályázatok előkészítésében és megvalósításában; - ipari kutatás fejlesztési munkák. b) Other qualified skills/experience/ honors - 2017: Kari Emlékérem: „közel egy évtizeden át végzett magas színvonalú, oktató és kutató munkájáért, a K+F feladatok megoldásában és a tudománynépszerűsítésben vállalt tevékenységéért”.	

Name: Dr. Péter Zoltán Kovács	Year of birth: 1977.
Education , diploma issued by, in:	
Mechanical Engineer, ME, 2000.	
Current job/current position:	
ME-GEIK, Institute of Materials Science and Technology – associate professor	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”</i> , DSc, specifying the field of science and date, other titles)	
PhD (Mechanical Engineering Science.), 2013. Alakítási határdiagramok elméleti és kísérleti elemzése.	
Experience in education	
Teaching experience: 19 years Subjects in Hungarian: Anyagtudomány alapjai, Anyagtudomány és anyagvizsgálat, Anyagvizsgálat, Képlékenyalakítás, Mechanikai technológiák, Műanyagalakítás Subjects in English: Metal Forming	
Connection between the teacher’s professional/scientific/research activities and the coordinated courses/subjects	
<p>a) Publications focusing on main research field (max 5 typical publications)</p> <ol style="list-style-type: none"> 1. <u>Tisza M, Tóth D, Kovács P Z: A 3D nyomtatás (FDM) paramétereinek vizsgálata, optimalizálása, GÉP 67:(1-2) pp. 29-32. (2016)</u> 2. <u>Tisza Miklós, Gál Gaszton, Kiss Antal, Kovács Péter Zoltán, Lukács Zsolt: Számítógépes mérnöki módszerek alkalmazása a képlékenyalakításban, GÉP 64:(2) pp. 11-14. (2013)</u> 3. Tisza M, Kovács P Z, Lukács Zs: Incremental forming: an innovative process for small batch production, MATERIALS SCIENCE FORUM 729: pp. 85-90. (2013) 4. <u>Tisza M, Lukács Zs, Gál G, Kiss A, Kovács P Z: Képlékenyalakítási folyamatok modellezése, XIV. Képlékenyalakító konferencia: Miskolc 2012. Konferencia helye, ideje: Miskolc, Magyarország, 2012.02.16-2012.02.18. Miskolc: Miskolci Egyetem, 2012. pp. 90-95. (ISBN:978-963-661-985-5)</u> <p>b) Any other scientific/research achievements, patents etc. A Miskolci Egyetem Gépészmérnöki és Informatikai Karának Tanácsa a Kari Érem a Mechanikai Technológiai Tanszék alaptárgyainak oktatásban tíz éven át vállalt jelentős feladatok megoldásáért, a tanszéki egyik legnagyobb létszámú Anyagtudomány tárgyának tárgyfelelőseként végzett oktatásszervezési tevékenységéért a Kari Érem kitüntetés adományozta 2013-ban.</p> <p>c) Other qualified skills/experience/ honours Részvétel szakmai gyakorlatokon:</p> <ol style="list-style-type: none"> 1. ERASMUS külföldi részképzés (3 hónap), Finnország (Tampere), 2001. 2. Virtual Intelligent Forging (VIF CA) workshop, Franciaország (Nice), 2006. 3. EUREKA_HU_08_ISMFP_ME Hatékony inkrementális lemezalakító eljárások kidolgozása, Szlovénia(Celje, Ljubljana), 2010. 4. Esi Group által tartott Visual Environment végeselemes szoftver tanfolyam (1 hét), Csehország (Plzeň), 2014. 5. CAD felhasználói tanfolyam – Emelt szintű CAD alkalmazások megnevezésű szakmai képzésen vettem részt E-000868/2014. szám alatt nyilvántartott graphIT Kft. felnőttképzést folytató intézményben 2014-ben 	

Name: Dr. György Kovács	Year of birth: 1975
Education , diploma issued by, in:	
mechanical engineer, University of Miskolc, 1998.	
Current job/current position:	
University of Miskolc, Faculty of Mechanical Engineering and Informatics, Institute of Logistics – associate professor	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”, DSc, specifying the field of science and date, other titles</i>)	
PhD (engineering) 2005.	
Experience in education	
20 years in education. Courses in Hungarian: Logistics, Mechatronics in materials handling, Design and control of materials flow systems, Logistics systems, Production logistics and inventories, Transportation, Forwarding, Transport systems, logistical systems and equipment, Global logistics, Logistics A, Logistics B, Operation of logistics systems, etc. Courses in English: Logistics systems, Logistics, Design of material flow systems, Purchase and distribution logistics	
Connection between the teacher’s professional/scientific/research activities and the coordinated courses/subjects	
a) Publications focusing on main research field (max 5 typical publications) <ol style="list-style-type: none"> 1. Kovács György: Global production tendencies - Lean manufacturing philosophy, JOURNAL OF PRODUCTION ENGINEERING 20:(1) pp. 137-140. (2017) 2. Kovács György: Global economic changes, optimization of virtual enterprises - software development, POLISH JOURNAL OF MANAGEMENT STUDIES 15:(2) pp. 115-131. (2017) 3. Kovács György: First cost calculation method for road freight transport activity, TRANSPORT AND TELECOMMUNICATION 18:(2) pp. 107-117. (2017) 4. Kovács György: Layout redesign for cost reduction and efficiency improvement, JOURNAL OF APPLIED ECONOMIC SCIENCES 3:(49) pp. 663-670. (2017) 5. Kovács György: Productivity improvement of assembly lines by lean methods, MANUFACTURING TECHNOLOGY 17:(2) pp. 192-197. (2017) 	
b) Any other scientific/research achievements, patents etc.	
c) Other qualified skills/experience/ honors	

Name: Dr. László Kuzsella	Year of birth: 1976.
Education , diploma issued by, in:	
Engineering Physicist, University of Miskolc, 2001.	
Current job/current position:	
ME, GÉIK, Institute of Materials Science and Technology - associate professor	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”</i> , DSc, specifying the field of science and date, other titles)	
Ph.D (Engineering Sciences) 2011.	
Experience in education	
16 years teaching experience Subjects in Hungarian: Anyagtudomány, Anyagvizsgálat, Anyagismeret, Anyagkiválasztás (magyar és idegen nyelven), Korszerű anyagok és technológiák, Hőkezelés és hegesztés, Hő és felületkezelés, Anyagszerkezetan, Kémia, Faipari anyagok alkalmazástechnikája, Anyagkiválasztás Subject in English: Materials Selection	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
Publications focusing on main research field (max 5 typical publications) <u>Nil-strength temperature and hot tensile tests on S960QL high-strength low-alloy steel PRODUCTION PROCESSES AND SYSTEMS 6:(1) pp. 67-78. (2013)</u> <u>Performance of a cutting tool made of steel matrix surface nano-composite produced by in situ laser melt injection technology</u> <u>JOURNAL OF MATERIALS PROCESSING TECHNOLOGY 211:(4) pp. 750-758. (2011)</u> <u>IF: 1.399</u> The Effect of Longitudinal Compression on the Structure and Mechanical Properties of Beech Wood Material Wood NDT, 17th International Nondestructive Testing and Evaluation of Wood Symposium. Sopron, Magyarország, pp. 757-764.(ISBN: 978-963-9883-81-9; ISBN 978-963-9883-83-3 volume 2) <u>Mechanical behavior of foam structures</u> <u>MetFoam 2009: Proceedings of the 6th International Conference on Porous Metals and Metallic Foams.</u> <u>pp. 277-282. 2011</u> Some tribological properties of a carbon-derived Si ₃ N ₄ /SiC nanocomposite; ELSEVIER; Journal of the European Ceramic Societ; 2003, IF: 1,483 a) Any other scientific/research achievements, patents etc. - részvétel EFOP és GINOP pályázatok előkészítésében és megvalósításában; - ipari kutatás fejlesztési munkák.	

b) Other qualified skills/experience/ honors

- 2011. Országos Magyar Bányászati és Kohászati Egyesület (OMBKE) Kiemelkedő egyesületi munkájáért oklevél
- 2013. Kiváló Konzulensi Oklevél
- 2017. „Kiváló oktató” kitüntetés

Name: Dr. Zsolt Lukács	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	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”, DSc, specifying the field of science and date, other titles</i>)	
PhD. 2014. Nagyszilárdságú acélok visszarusításának elméleti és kísérleti vizsgálata	
Experience in education	
2015- ICAD System II. 2015- Computer Aided Process Planning.	
Connection between the teacher’s professional/scientific/research activities and the coordinated courses/subjects	
a) M Tisza, Z Lukács- Procedia Engineering, 2014 Springback analysis of high strength dual-phase steels Integrated process simulation and die-design in sheet metal forming, M Tisza, Z Lukács, G Gál International Journal of Material Forming 1 (1), 185-188 Computer aided process planning and die design in simulation environment in sheet metal forming, M Tisza, Z Lukács AIP Conference Proceedings 1567 (1), 1002-1007	

Name: Dr. Maria Berkes, Marosné	Year of birth: 1958
Education , diploma issued by, in	
<ol style="list-style-type: none"> 1. MSc in Mechanical Engineering, Technical University of Heavy Industry, Miskolc (TUHIM), 1981 2. MSc in Technical Translation (Russian -Hungarian), TUHIM, 1981 3. MSc in Materials Science, Physics and Engineering, University of Miskolc – Kossuth Lajos University of Debrecen, 1994 	
Current job/current position:	
University of Miskolc (UM), Faculty of Mechanical Engineering and Informatics, Institute of Materials Science and Technology – Associate professor	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”, DSc, specifying the field of science and date, other titles</i>)	
<p>Doct univ. 1997</p> <p>PhD (Mechanical Engineering), 1998</p> <p>(Habilitation procedure is in progress, expected time to finish: June, 2018.)</p>	
Experience in education	
<p>Both in Hungarian and English (graduate (G) and PhD courses):</p> <ul style="list-style-type: none"> – Metallography (15 years, G) – Materials testing (30 years, G) – Nonmetallic Materials (30 years, G) – Knowledge of Materials (20 years, G) – Materials Sciences (10 years, G) – Mechanical technology (8 years, G) – Specialty Alloys (2 years, G) – Engineering Ceramics (11 years, PhD) – Engineering Polymers (11 years, PhD) – Advanced Surface Testing Techniques (2 years, PhD) <p>In Hungarian (graduate (G) and PhD courses):</p> <ul style="list-style-type: none"> – Fundamentals of Materials Sciences (10 years, G) – Materials Informatics (15 years) – Project work (15 years) – Fracture Mechanics (1 year) – Industrial Technologies (3 years) – Word of Materials (4 years, G) – Materials Science and Engineering in Vehicle Industry (3 years, G) – Nonmetallics in Mechanical Engineering (4 years, PhD) 	
Connection between the teacher’s professional/scientific/research activities and the coordinated courses/subjects	
<p>Publications focusing on main research field (max 5 typical publications)</p> <ul style="list-style-type: none"> – <u>M B Maros, A K Németh: Wear maps of HIP sintered Si3N4/MLG nanocomposites for unlike paired tribosystems under ball-on-disc dry sliding conditions, JOURNAL OF THE EUROPEAN CERAMIC SOCIETY 37:(14) pp. 4357-4369. (2017)</u> – <u>Maria Maros B, Alexandra K Németh, Zoltán Károly, Eszter Bódis, Zsolt Maros, Orsolya Tapasztó, Katalin Balázi: Tribological characterisation of silicon</u> 	

nitride/multilayer graphene nanocomposites produced by HIP and SPS technology, TRIBOLOGY INTERNATIONAL 93: (Part A) pp. 269-281. (2016)

- Maros MB, Kaulics N, Arató P: Characterization of Dynamic Failure Process of Si₃N₄ Ceramics, Part I: Test Procedures, Fracture Energies, and Fractographic Analysis, CERAMIC TRANSACTIONS 199: pp. 421-433. (2007)
- Maros B M, Kaulics N, Dusza J: Characterization of dynamic failure process of Si₃N₄ ceramics, Part II: Dynamic fracture toughness, CERAMIC TRANSACTIONS 199: pp. 435-453. (2007)
- H Alus, Y Katz, M B Maros, L Tóth: Some insights into the remote strain vs. fatigue life relationship, JOURNAL OF MATERIALS PROCESSING TECHNOLOGY 157-158: pp. 16-22. (2004)

a) Any other scientific/research achievements, patents etc.

- Number of scientific publications: 177; scientific papers: 98 (66 in English) university notes, study aids: 12 (6 in English); co-author of university text books: 2; monographies: 3; technical reports: 23;
- Project or R&D subprogram leader in 9 national and 2 international research cooperation programmes, participant in additional 21 R&D programmes (FIEK, GINOP, OTKA, HEFOP, TÁMOP, TEMPUS PHARE, LEONARDO, INCO/COPERNICUS, PHARE, FKFP etc.);
- Participation in BSc, MSc and PhD Curricula and Teaching Materials Development Programmes in High Education at the UM (more than 30 years activity);
- Founder and leader of the Tribology Research Work Group at the UM, Institute of Materials Science and Technology;

b) Other qualified skills/experience/ honors

- 32 years' experience in higher education and R&D activity;
- Supervisor of 12 TDK, more than 30 diploma works;
- PhD tutorships: 7 PhD research programmes (1 in English);
- Scientific Grants: Oxford Colleges Hospitality Scheme Scholarship (British Council): 1996; Tempus Phare Scholarship at the University of Birmingham, 1998; Bolyai János Postgraduate Scholarships: 1998-2001; 2003-2006; Széchenyi Professorship: (2003);
- Memberships in national and international Technical Advisory Committees and Scientific Work Groups (ASM, ESIS, GTE, Miskolc Academic Committee of the HAS etc.);
- Reviewer of national and international scientific journals (Tribology International, J. of the Eur. Cer. Soc., Applied Physics, Eng. Fracture Mechanics, Acta Polytechnica Hungarica etc);
- Reviewer of scientific project applications (OTKA, NKTH, MGA 7k etc);
- Member of organizing committees at conferences, chair of conference sessions;
- Participation and presentation at more than 40 national and 20 international conferences.

Name: Dr. Viktor Molnár	Year of birth: 1980
Education , diploma issued by, in:	
MSc in Engineering and Management, University of Miskolc Faculty of Mechanical Engineering and Informatics, 2003.	
MSc in Mechanical Engineering, University of Miskolc Faculty of Mechanical Engineering and Informatics, 2010.	
Current job/current position:	
University of Miskolc, Faculty of Economics, Institute of Management Science – associate professor	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”, DSc, specifying the field of science and date, other titles</i>)	
PhD (economics and management sciences) 2014 (Title of dissertations: Development and application possibilities of an EFQM-based integrated decision-support management model)	
Experience in education	
Subjects taught: Project Management, Operations Management, Process Management, Organisation Methodology, Lean Quality Techniques, Problem Solving Methods and Systems, Decision Theory and Methodology, Information Systems and SAP Administration, Business Information Systems, Information Technology, Quality Control, Quality Assurance, Quality Management, Microeconomics, Macroeconomics, Marketing, Market Research, Production Engineering, Quality Assurance of Production Systems, Quality Assurance of Public Services Years spent in higher education: 13 Subjects taught in English: Decision-Making Theory and Methods, Project Management, Process Management, Human Resource Management, Marketing, Market Research, Game Theory	
Connection between the teacher’s professional/scientific/research activities and the coordinated courses/subjects	
a) Publications focusing on main research field (max 5 typical publications) <ul style="list-style-type: none"> – <u>Molnár V., Tumik Á.: Várakozási veszteségből adódó költségek Lean Six Sigma megközelítésben: egy ABC-alapú döntési modell, Controller Info 5:(1) pp. 35-40. (2017)</u> – Molnar, V.: Indirect Impacts of Drastic Scrap Rate Reduction on Costs of Production Process in Precision Machining, SOLID STATE PHENOMENA 261: pp. 487-494. (2017) – Molnár V.: Nem termelési folyamatok kontrollja Six Sigma megközelítésben, CONTROLLER INFO IV:(2) pp. 37-44. (2016) – <u>Kundrak, J., Deszpoth, I., Molnar, V.: Comparative Study of Material Removal in Hard Machining of Bore Holes, Tehnicki Vjesnik-Technical Gazette 21:(1) pp. 183-189. (2014)</u> – <u>Molnar, V., Faludi, T.: A supply chain coordination model with fair revenue-sharing rates, In: M Bezpartochnyi (editors): Transformation of international economic relations: modern challenges, risks, opportunities and prospects. 204 p. Riga: ISMA University, 2017. pp. 119-129.</u> b) Any other scientific/research achievements, patents etc. Participation in R+D+I projects <ul style="list-style-type: none"> - TÁMOP-4.2.1.D-15/1/KONV-2015-0009 "Társadalmi Innovációk generálása Borsod-Abaúj-Zemplén megyében" (szakmai megvalósító) 	

- TÁMOP-4.2.2.D-15/1/KONV-2015-0017 "Interdiszciplináris kutatói teamek létrehozása és felkészítése a nemzetközi programokban való részvételre a Miskolci Egyetem stratégiai kutatási területein" (szakmai megvalósító)
 - TÁMOP-4.2.1.B-10/2/KONV-2010-0001 „A felsőoktatás minőségének javítása kiválósági központok fejlesztésére alapozva a Miskolci Egyetem stratégiai kutatási területein” (szakmai megvalósító)
 - TÁMOP-4.1.1/C-1211/KONV-2012-0001 „KEZEK – Észak-Magyarország felsőoktatási intézményeinek együttműködése” (szakmai megvalósító)
 - TÁMOP-4.1.1.F/2013 „UNI – DUO - eltérő utak a sikeres élethez! - A Miskolci Egyetem társadalmi gazdasági szerepének fejlesztése, különös tekintettel a duális képzési típusú megoldásokra” (Program koordinátor)
 - 575660-EPP-1-2016-1-FI-EPPKA2-KA "Smart HEI-Business Collaboration for Skills and Competitiveness (HEIBus)” (WP7 munkacsomag irányítása)
 - EFOP-3.6.1-16-2016-00011 „Fiatalodó és megújuló Egyetem – Innovatív tudásváros. A Miskolci Egyetem intelligens szakosodást szolgáló intézményi fejlesztése” (2. sz. részprojekt vezetése; szakmai megvalósító)
 - EFOP-3.6.2-16-2017-00007 „Az intelligens, fenntartható és inkluzív társadalom fejlesztésének aspektusai: társadalmi, technológiai, innovációs hálózatok a foglalkoztatásban és a digitális gazdaságban” (szakmai megvalósító)
- TERP10 jogosítvány megszerzése (2017)

c) Other qualified skills/experience/ honors

Membership in scientific societies:

- Decision Sciences Institute, TX, USA (member)
- Menedzsment és Kontrolling Egyesület, Magyarország (member)
- International Society on MCDM (member)
- Gépipari Tudományos Egyesület, Magyarország (member)
- Magyar Közgazdasági Társaság, Magyarország (member)

International relations::

- Crakow University of Economics
- Armenian State University of Economics

Awards::

- Miskolci Egyetem érdemes oktatója, 2017
- Kiváló konzulens, Miskolci Egyetem, 2013
- Award for ScienceTechnology Transfer, World Association for Innovative Technologies, Croatia, 2012

Name: Renáta Hörcsik, Monostoriné	Year of birth: 1979
Education , diploma issued by, in:	
Mechanical Engineer, University of Miskolc, 2003	
Current job/current position:	
University of Miskolc, Institute of Manufacturing Science, assistant lecturer	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”</i> , DSc, specifying the field of science and date, other titles)	
-	
Experience in education	
Subjects: quality control, quality assurance, quality management, measuring technics Teaching years: 15 years	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
<p><i>a.</i> Publications focusing on main research field (max 5 typical publications).</p> <ol style="list-style-type: none"> 1. Monostoriné Hörcsik Renáta - Dr. Dudás Illés: Valószínűségelmélet alkalmazása fúrásra (The application of probability theory for drilling), Hungarian Journal of Industrial Chemistry, Veszprém, Vol. 38(2), pp. 123-126., 2010., „MOBILITÁS és KÖRNYEZET: a járműipar kihívásai az energetika, a szerkezeti anyagok és a környezeti kutatások területén”, Veszprém, Hungary, 2010.aug. 22-25. 2. <u>Renáta Monostori - Dr. Illés Dudás: The process control of manufacturing systems, IN-TECH 2010 International Conference on Innovative Technologies, Prága, Cseh Köztársaság 2010. 09. 14-16. pp.: 258-263.</u> 3. <u>Renáta Monostori: Wear analysis of the hip prosthesis, ICT 2012, Proceedings of the 13th International Conference on Tools, 2012. március 27-28., Miskolc, Hungary, pp.: 383-388., ISBN 978-963-9988-35-4</u> 4. Renáta Monostori: The control of the geometry of a big joint implant, Cutting & Tool in Technological System, 2012, Kharkiv NTU, ISSN 2078-7405, 5. <u>Renáta Monostori: Finite element investigation of acetabular cups used during revisionist surgery, Precision Machining VII, ISBN -13:978-3-03785-840-0, 2013.; pp. :431-436</u> <p>a) Any other scientific/research achievements , patents etc</p> <p>b) Other qualified skills/experience/ honors</p>	

Name: Géza Németh	Year of birth: 1963
Education , diploma issued by, in:	
mechanical engineer, Technical University for Heavy Industry, Miskolc, 1987	
Current job/current position:	
University of Miskolc, Faculty of Mechanical Engineering and Informatics, Institute of Machine and Product Design - assistant lecturer	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”</i> , DSc, specifying the field of science and date, other titles)	
-	
Experience in education	
Delivered lectures:	
Machine Elements IV., Conceptual Design, Machine Structures, 1990-	
Introduction to Mechanical Engineering Science (in English) 1992-	
Machine Elements and Design I. (in English) 1994-	
Lubrication and Sealing 2008-	
Practices:	
Introduction to Mechanical Engineering Science, Mechanical Drawing I. &II., 1990-	
Machine Elements I., II., III. & IV., Machine Structures, Conceptual Design, 1991-	
Complex Design, 1999-	
Introduction to the Mechanical Engineering Sciences (in English) 1990-	
Machine Elements and Design I & II. (in English) 1992-	
Mechanical Drawing I & II. (in English) 1991-	
Theory of Structures of Machines (in English) 1993-	
Lubrication and Sealing 2008-	
Special Drives 2010-	
Machine Structures and Design (in English) 2015-	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
a) Publications focusing on main research field (max 5 typical publications)	
1. Géza Németh, Elementary Calculations for Deflection of Circular Rings LECTURE NOTES IN MECHANICAL ENGINEERING 1: pp. 115-122. (2017) Vehicle and Automotive Engineering - Proceedings of the JK2016. Miskolc, Magyarország: 2016.11.17 -2016.11.18.	
2. Németh Géza, Péter József, <u>Design Considerations of Harmonic Traction Drives</u> In: Sándor Bodzás, Tamás Mankovits (editors) Proceedings of the 4th International Scientific Conference on Advances in Mechanical Engineering (ISCAME 2016). Venue and Date of Conference: Debrecen, Hungary, 2016.10.13-2016.10.15. Debrecen: University of Debrecen Faculty of Engineering, 2016. pp. 378- 381. (ISBN:978-963-473-944-9)	
3. Németh Géza, Németh Nándor, Péter József, Strength Calculation of Elastic Elements in Epicyclic Traction Drive (in Hungarian), In: Bodzás Sándor (editors) Technical Science in the Region of North-East Hungary 2015. 591 p. Venue and Date of Conference: Debrecen,	

Hungary, 2015.06.11 Debrecen: Academic Committee of Debrecen, Technical Commission,
2015. pp. 213-219., (ISBN:978-963-7064-32-6)

4. Németh Géza, Péter József, Németh Nándor, Modelling of an unusually Loaded Helical Torsion Spring, In: Sándor Bodzás, Tamás Mankovits (editors) Proceedings of the 3rd International Scientific Conference on Advances in Mechanical Engineering (ISCAME 2015). Venue and Date of Conference: Debrecen, Hungary, 2015.11.19 Debrecen: University of Debrecen Faculty of Engineering, 2015. pp. 145-150., (ISBN:978-963-473-917-3)
5. Németh Géza, Péter József, Fáy Árpád, Bereczkei Sándor, Survey of Reliable Separation of Friction Pairs of Surfaces in Large Deflections (in Hungarian), GÉP 64:(6) pp. 78-81. (2013),
29-th Conference of Machine Designers and Product Developers, Miskolc, Hungary: 2013.11.07 -2013.11.08.

b) Any other scientific/research achievements, patents etc.

Valasek István (ed.) Tribology, Budinszki József (co. ed. of vol. 3.), Lubrication II. — Lubrication of Machine Elements, co-author of chapter Journal Bearings (p50-74) , author of the chapters of Seals (p112-121) and Traction Drives (p138-143), Tribotechnik Ltd., Budapest, 2003. (in Hungarian).

c) Other qualified skills/experience/ honors

Shaft problems of water turbines

- Tiszalök, Kaplan turbine, sliding bearing and shaft deflection problems, 2011
- Kisköre, Bulb turbine, sliding bearing and shaft deflection problems, 2012

Bearing and drive systems for Cement factory

- Survey of the drive of rotary kiln
- Survey of bearing system of belt conveyor

Solution of the problems of Log shredder for a Power plant, Kazincbarcika

Co-author of a Tribology Handbook, 2003

Name: Dr. Béla Palásthy	Year of birth: 1954.
Education , diploma issued by, in:	
Diploma with university degree as physicist, KLTE, 1979, Single-subject teacher training as physics teacher, KLTE, 1997	
Current job/current position:	
University of Miskolc, Faculty of Mechanical Engineering and Informatics, Institute of Physics. Associate Professor	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”</i> , DSc, specifying the field of science and date, other titles)	
PhD Technical Sciences, 1997	
Experience in education	
The Basis of Modern Physics lecture, old MSc education (between 2000-2007, about 100 students/semester), Modern Physics lecture, MSc education (from 2008-, about 50 students/semester), Modern Physics lecture MSc education (from 2016- English language) Physics I. and Physics II. lecture, (for Informatics and Electrical Engineering students) BSc education (from 1998-, about 200 students/semester) Fundamentals of Physics lecture, (for Logistic and Vehicle Engineering students) Mechanics and Thermodynamics lecture, Erasmus education (English language) from time to time Electrodynamics and Optics, Erasmus education (English language) from time to time	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
<ol style="list-style-type: none"> 1. B. Paripás, J. Jureta, B. Palásthy, B. Marinković, and G. Pszota: High resolution study of the autoionizing states of He in their exchange interference energy region, <i>Journal of Electron Spectroscopy and Related Phenomena</i>, Vol. 225. (2018) 10–15, Impact factor: 1.706²⁰¹⁷ 2. B. Paripás, B. Palásthy and M. Beres: Experimental study on the interference of autoionizing states of He, <i>Nuclear Instruments & Methods in Physical Research, Section B: Beam Interactions with Materials and Atoms</i>, Vol. 369C. (2016) 34-39., Impact factor: 1.389²⁰¹⁵ 3. B. Paripás, B. Palásthy and G. Pszota: Experimental (e,2e) study of state-to-state interference between autoionizing states of He, <i>European Physical Journal D</i>, 69: 34 (2014), Impact factor: 1.228²⁰¹⁴ 4. B. Paripás, B. Palásthy and M. Zitnik: Experimental (e,2e) study of exchange interferences in the resonant Auger decay of Ar induced by electron impact, <i>Journal of Electron Spectroscopy and Related Phenomena</i>, Vol. 189 (2013) pp. 65-70, Impact factor: 1.552²⁰¹³ 5. B. Paripás and B. Palásthy: (e,2e) and (e,3-1e) coincidence experiments for studying the PCI effect of low energy ionizing electrons in the Auger process of Ar, <i>Journal of Electron Spectroscopy and Related Phenomena</i>, Vol. 185 (2012) pp. 602-608. , Impact factor: 1.706²⁰¹² 	

Name: Raghawendra P. S. Sisodia	Year of birth: 1983
Education , diploma issued by, in:	
Mechanical Engineer, University of Miskolc, 2017	
Current job/current position:	
ME, GEIK, Institute of Materials Science and Technology – PhD student ME, GEIK, Institute of Materials Science and Technology – assistant research fellow	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”</i> , DSc, specifying the field of science and date, other titles)	
-	
Experience in education	
Teaching experience: 4,5 years (3,5 years in India, 1 year in Hungary) Subjects: Advanced Materials Processing (MSc), Elements of Mechanical Engineering (BSc), Theory of Metal Forming (BSc), Metrology (BSc), Management of Manufacturing Systems (BSc), Metal Cutting and Tool Design (BSc), Material Science and Metallurgy (BSc), Fluid Mechanics (BSc), Manufacturing Science and Technology (BSc), Advance Metrology (MSc), Project Management (MSc)	
Connection between the teacher’s professional/scientific/research activities and the coordinated courses/subjects	
a) Publications focusing on main research field (max 5 typical publications)	
Gáspár, M., Sisodia, R. P. S.: Weldability analysis of Q+T and TMCP high strength steels by physical simulation, B166-B170, 70th IIW Annual Assembly and International Conference, Shanghai,P.R. China, June 29-30, 2017	
Sharma, R., Sisodia, R. P.S, Shukla, A. K., Sharma,V.: The use of Taguchi method to analyze the effect of welding parameters on weldment, International Journal of Engineering Research and Development, Vol. 10 Issue 6, 2014. pp. 47-52.	
Sisodia, R. P. S., Niranjana, M.S., Wattal, R.: Effect of welding parameters on weld bead geometry and metal transfer in synergic MIG welding, International Conference on Advances in Mechanical Engineering, Surat, India, 2009, Page No. 1059-1063.	
Sisodia, R. P. S., Wattal, R. and Niranjana, M. S.: Effect of process parameters on weld bead geometry and metal transfer in synergic MIG welding of 304L Stainless Steel, ASME (American Society of Mechanical Engineers) Early Career Technical Journal, Volume 8, Number 1, 2009, pages 29.1-29.8.	
Sisodia, R. P. S., Berrah, N.: Analysing HAZ softening of quenched and tempered steel by physical simulation, Inter Talent UNIDEB Conference, 7-8 April 2016,University of Debrecen, Hungary	
b) Any other scientific/research achievements, patents etc. Hazai kutatási projektek (GINOP) megvalósításában való részvétel.	
c) Other qualified skills/experience/ honors	

Years of teaching and research experience. Proficiency in the use of laboratory equipment.

Name: Dr. Tamás Szabó	Year of birth: 1956
Education , diploma issued by, in:	
diploma with university degree in mechanical engineering, TUHI (Technical University for Heavy Industry), 1979	
Current job/current position:	
University of Miskolc, Institute of Machine Tools and Mechatronics - Associate Professor	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”</i> , DSc, specifying the field of science and date, other titles)	
<i>PhD</i> (technical sciences) 1998	
Experience in education	
<i>In Hungarian: Statics of Mechanics, Dynamics, Finite Element Method, Basics of Mechatronics, System Theory of Mechatronics, Mechatronic Systems, Mechatronical Modelling, (35 years, In English: Finte Element Method, Mechatronical Modelling, Mechatronic Systems (10 years).</i>	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
a) Publications focusing on main research field (max 5 typical publications)	
Nagy Lajos, <u>Szabó Tamás</u> , Jakab Endre: Electro-Dynamical Modeling of a Solenoid Switch of Starter Motors, <i>PROCEDIA ENGINEERING</i> 48: pp. 445-452. (2012)	
<u>Szabó Tamás</u> , Olasz Attila: Kinematical analysis robot and manipulator arms, <i>ADVANCED LOGISTIC SYSTEMS: THEORY AND PRACTICE</i> 6:(1) pp. 63-68. (2012)	
Nagy Lajos, <u>Szabó Tamás</u> , Jakab Endre: Functional Analysis and Mechatronic Design of a Cam Controlled Mechanism, <i>PROCEDIA ENGINEERING</i> 96: pp. 302-309. (2014)	
Ákos Cservenák, <u>Tamás Szabó</u> : Positioning Measurements of Two Industrial Robots, <i>ACTA MECHANICA SLOVACA</i> 19:(4) pp. 38-43. (2015)	
Rónai László, <u>Szabó Tamás</u> : Kinematical Investigation and Regulation of a 4DOF Model Robot <i>ACTA MECHANICA SLOVACA</i> 20:(3) pp. 50-56. (2016)	
b) Any other scientific/research achievements, patents etc.	
Páczelt I, <u>Szabó T</u> : <i>OPTIMAL SHAPE DESIGN FOR CONTACT PROBLEMS, STRUCTURAL OPTIMIZATION</i> 7:(1-2) pp. 66-75. (1994)	
Volpert Y, <u>Szabó T</u> , Páczelt I, Szabó B: Application of the space enrichment method to problems of mechanical contact, <i>FINITE ELEMENTS IN ANALYSIS AND DESIGN</i> 24:(3) pp. 157-170. (1997)	
Páczelt I, <u>Szabó T</u> : Solution of contact optimization problems of cylindrical bodies using hp-FEM <i>INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING</i> 53: pp. 123-146. (2002)	

Bognár G, Szabó T: Solving Nonlinear Eigenvalue Problems by Using p-version of FEM
COMPUTERS AND MATHEMATICS WITH APPLICATIONS 46:(1) pp. 57-68. (2003)

Paczelt I, Baksa A, Szabo T: Product design using a contact-optimization technique
STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING 53:(7-8) pp. 442-
461. (2007)

c) Other qualified skills/experience/ honors

Name: Dr. Zoltán Szamosi	Year of birth: 1986
Education , diploma issued by, in:	
Mechanical Engineer, ME, 2011 Economist, ME, 2016	
Current job/current position:	
University of Miskolc, Institute of Energy Engineering and Chemical Machinery Senior lecturer	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”</i> , DSc, specifying the field of science and date, other titles)	
PhD in Mechanical Engineering, 2016, Mezőgazdasági hulladékok energiasűrűség-növelés lehetőségének vizsgálata	
Experience in education	
Subjects taught in Hungarian: <i>Vegyipari gépek és technológiák</i> <i>Környezetvédelem</i> <i>Környezetmenedzsment</i>	
Subject taught in English: <i>Environmental management</i>	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
a) Publications focusing on main research field (max 5 typical publications)	
<ol style="list-style-type: none"> 1. Szamosi Zoltán, Tóth Pál, Koós Tamás, Baranyai Viktor, Gábor Szepesi, Siménfalvi Zoltán: <u>Explosion Characteristics of Torrefied Wheat Straw Rape Straw, and Vine Shoots Fuels ENERGY AND FUELS 10: Paper 7b01875. (2017)</u> 2. Tóth Kinga, Venczel Gábor, Szamosi Zoltán: <u>Examination of biomethane production Proceedings of the 5th International Scientific Conference on Advances in Mechanical Engineering (ISCAME 2017).</u> 3. Zoltán Szamosi, H Bouras, Károly Jármái, Zoltán Siménfalvi: <u>Optimisation of biomass torrefaction, International Conference on Innovative Technologies: IN-TECH 2016.</u> 4. Szamosi Zoltán, Lakatos Károly, Siménfalvi Zoltán: <u>Az agripellet, mint megújuló energiaforrás vizsgálata GÉP 63, 2012</u> 5. Szamosi Zoltán, Lakatos Károly, Bereczkei Sándor: <u>Repair of Kaplan turbine shaft sealing based on evaluation of hydraulic conditions In: 26th IAHR Symposium on Hydraulic Machinery and Systems. Konferencia helye, ideje: Beijing, Kína, 2012.08.19-2012.08.23. Beijing: Paper IAHRXXVI-062.</u> 	

Name: Norbert Szaszák	Year of birth: 1987
Education , diploma issued by, in:	
Energy Engineer, ME, 2012.	
Current job/current position:	
Department of Fluid and Heat Engineering, Faculty of Mechanical Engineering and Informatics, University of Miskolc – assistant lecturer	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”</i> , DSc, specifying the field of science and date, other titles)	
-	
Experience in education	
<i>Teaching experience: 2012-</i>	
<i>Subjects: tantárgyak: műszaki áramlástan; áramlástechnikai gépek, erőművek, műszaki hő- és áramlástan, energetikai mérések, Engineering Fluid Mechanics and Heat Transfer</i>	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
<p>a) Publications focusing on main research field (max 5 typical publications)</p> <p>[1] Norbert Szaszak, Szilard Szabo, Peter Bencs: Determining turbulent properties in grid generated turbulence based on hot-wire data, International Conference on Innovative Technologies (2017)</p> <p>[2] Szaszák Norbert, Bencs Péter, Szabó Szilárd: Experimental investigation of the effects of tensile force on the characteristics of turbulence downstream of a novel active grid Advances and Trends in Engineering Sciences and Technologies II: Proceedings of the 2nd International Conference on Engineering Sciences and Technologies.</p> <p>[3] Szaszák Norbert, Bordás Róbert, Mátrai Zsolt, Szabó Szilárd, Dominique Thévenin: <u>Experimental characterization of a cost-effective semi-active grid for turbulence stimulation</u> Conference on Modelling Fluid Flow (CMFF'12)</p> <p>b) Any other scientific/research achievements, patents etc. TDK dolgozatokat készítő hallgatók konzultálása, kutatási eredmények nemzetközi folyóiratban történő publikálása;</p> <p>c) Other qualified skills/experience/ honors</p>	

Name: Dr. Attila Szilágyi	Year of birth: 1971
Education , diploma issued by, in:	
Mech. Eng. MsC, University of Miskolc, 1994.	
Current job/current position:	
University of Miskolc, SGT – Head of Dept., Associate prof.	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”, DSc, specifying the field of science and date, other titles</i>)	
PhD – Mech. Eng. Sciences, 2012.	
Experience in education	
Op of man. machines (GESGT111-B), Meas. Of machines (GESGT116-B), E-CAD systems (GESGT104-B), Meas&Diag. Of machines (GESGT118-B), Int E-CAD systems I. (GESGT049M), Sim of manuf. systems (GESGT031M) – Time spent in education: 3+13 yrs, from 2014 SH included, Exp abroad: 2007. Jún.: Fachhochschule Trier, Umwelt – Campus Birkenfeld, GE 2008. Jún.: Fachhochschule Trier, Umwelt – Campus Birkenfeld, GE 2009. Jún – Júl.: Fachhochschule Trier, Umwelt – Campus Birkenfeld, GE 2010. Jún.: Fachhochschule Trier, Umwelt – Campus Birkenfeld, GE 2011. Jún.: Fachhochschule Trier, Umwelt – Campus Birkenfeld, GE	
Connection between the teacher’s professional/scientific/research activities and the coordinated courses/subjects	
<p>a.) Tóth Dániel, <u>Szilágyi Attila</u>, Takács György: Investigation of rolling element bearings using time domain features, LECTURE NOTES IN MECHANICAL ENGINEERING F12: pp. 3-12. (2017), Vehicle and Automotive Engineering - Proceedings of the JK2016. Miskolc, Magyarország: 2016.11.17 -2016.11.18.;</p> <p><u>Szilágyi Attila</u>, Takács György, Barna Balázs: Static-stiffness analysis of a roll-bending machine of high-power, KEY ENGINEERING MATERIALS 581: pp. 125-130. (2014);</p> <p>Patkó Gyula, <u>Szilágyi Attila</u>, Simon Gábor: Magasabb harmonikusok közelítésének finomítása egy globális linearizálás esetén. In: Baksa Attila, Bertóti Edgár, Szirbik Sándor (editors). XII. Magyar Mechanikai Konferencia. Konferencia helye, ideje: Miskolc, Magyarország, 2015.08.25-2015.08.27. Miskolc: Miskolci Egyetem Gépészmérnöki és Informatikai Kar Műszaki Mechanikai Intézet, 2015. p. 87. (ISBN:978-615-5216-74-9);</p> <p>Patkó Gyula, <u>Szilágyi Attila</u>, Simon Gábor: Rezgő rendszerek nemlinearitásának mértékére jellemző mennyiségek vizsgálata. In: Baksa Attila, Bertóti Edgár, Szirbik Sándor (editors). XII. Magyar Mechanikai Konferencia. Konferencia helye, ideje: Miskolc, Magyarország, 2015.08.25-2015.08.27. Miskolc: Miskolci Egyetem Gépészmérnöki és Informatikai Kar</p>	

Műszaki Mechanikai Intézet, 2015. p. 88.
(ISBN:[978-615-5216-74-9](#));

Szilágyi Attila, Takács György, Kiss Dániel, Tóth Dániel: Theoretical vibration analysis of a manufacturing device. DESIGN OF MACHINES AND STRUCTURES 6:(1) pp. 63-71. (2016);

b.) Takács György, Patkó Gyula, Csáki Tibor, Szilágyi Attila, Hegedűs György: Development of Mechatronic Systems at the Institute for Mechatronics at the University of Miskolc. In: IEEE (editors), 2006 IEEE International Conference on Mechatronics. 638 p. Konferencia helye, ideje: Budapest, Magyarország, 2006.07.03-2006.07.05. Piscataway (NJ): IEEE, 2006. pp. 326-331. (ISBN:[9780780397125](#));

Jakab Endre, Patkó Gyula, Szilágyi Attila: The Robert Bosch chair for mechatronics in Miskolc, In: IEEE (editors), 2006 IEEE International Conference on Mechatronics. 638 p. Konferencia helye, ideje: Budapest, Magyarország, 2006.07.03-2006.07.05. Piscataway (NJ): IEEE, 2006. pp. 338-341. (ISBN:[9780780397125](#));

Szilágyi Attila, Patkó Gyula, Takács György: Improvement of a superfinishing device based on dynamical analysis, In: Proceedings of the 8th International Workshop on Research and Education in Mechatronics: REM 2007. Konferencia helye, ideje: Tallinn, Észtország, 2007.06.14-2007.06.15.pp. 128-130.;

Szilágyi Attila, Takács György, Barna Balázs: Static-stiffness analysis of a roll-bending machine of high-power, KEY ENGINEERING MATERIALS 581: pp. 125-130. (2014);

Tóth Dániel, Szilágyi Attila, Takács György: Investigation of rolling element bearings using time domain features, LECTURE NOTES IN MECHANICAL ENGINEERING F12: pp. 3-12. (2017), Vehicle and Automotive Engineering - Proceedings of the JK2016. Miskolc, Magyarország: 2016.11.17 -2016.11.18.;

Other qualified skills/experience/ honors

Miskolci Akadémiai Bizottság, Gépészeti és Informatikai Szakbizottság, Gépszerkezettani Munkabizottságának tagja, az IFTOOM Rezgéstani bizottságának tagja; 2017 Dékáni dicséret.

Name: dr. Andrea Biró, Szilágyiné	Year of birth: 1985
Education , diploma issued by, in:	
Engineering Manager, ME, 2008 Mechanical Engineer (BSc), ME, 2009.	
Current job/current position:	
ME, GÉIK, Institute of Materials Science and Technology - associate professor	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”, DSc, specifying the field of science and date, other titles</i>)	
PhD, Doctor of Mechanical Engineering Sciences 2018. (Aktív ernyős plazmanitridálás BIAS paraméterének hatása a rétegszerkezetre)	
Experience in education	
Teaching experience: 8 years Subjects in Hungarian: Anyagtudomány, Anyagtudomány és anyagvizsgálat, Anyagismeret és technológia I., Mechanikai technológiák Subjects in English: Materials Science	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
<p>a) Publications focusing on main research field (max 5 typical publications)</p> <p>Szilágyiné Biró Andrea: Aktív ernyős plazmanitridálás BIAS paraméterének hatása a rétegszerkezetre, PhD disszertáció, 102 p., Miskolci Egyetem, DOI: http://dx.doi.org/10.14750/ME.2018.005</p> <p>Szilágyiné B.A, Szabó E, Tisza M: Surface layers produced by modified Floe ferritic nitrocarburising, Materials Science, Testing and Informatics VII: Selected, peer reviewed papers from the 9th Hungarian Conference on Materials Science. October 13-15, 2013, Balatonkenese, Hungary. 516 p.Zürich: Trans Tech Publications, 2015. pp. 253-258. (Materials Science Forum; 812.)</p> <p>Andrea Szilágyiné Biró: Active Screen Plasma Nitriding - State of the Art: PRODUCTION PROCESSES AND SYSTEMS 1: pp. 103-114. (2014), (University of Miskolc)</p> <p>Andrea Szilagyine Biro, Maria Kocsis Baan: Comparison of gas and plasma nitrocarburised surface layer of 16CrMo5 steel, Hans-Werner Zoch, Reinhold Schneider, Thomas Lübben (editors), Munich:2014. (Proceedings - European Conference on Heat Treatment and 21st IFHTSE Congress)</p> <p>Andrea Szilágyi Biró, Dr. Miklós Tisza: Nitrocarburising of low alloyed case hardening steels applying three different temperatures, MATERIALS SCIENCE FORUM 729: pp. 13-18. (2013), DOI: http://dx.doi.org/10.4028/www.scientific.net/MSF.729.13</p> <p>b) Any other scientific/research achievements, patents etc.</p> <p>c) Other qualified skills/experience/ honors</p>	

Name: Dr. Agnes Judit, Takács	Year of birth: 1982
Education , diploma issued by, in:	
MSc. in mechanical engineering, University of Miskolc, 2005.	
Current job/current position:	
University of Miskolc, Institute of Machine and Product Design, associate professor	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”</i> , DSc, specifying the field of science and date, other titles)	
PhD, Doctor of Mechanical Engineering Sciences, 2010.	
Experience in education	
<p>Taught subjects: Operation and Theory of Machines, Mechanical Drawing, Introduction to Mechanical Engineering Sciences and Mechanical Drawing, Machine Drawing-Machine Elements, Machine Elements I., Machine Elements II., Methods of Mechanical Engineering Design, Environmentally Friendly Design, Methodology of Object-independent Design, Project Work, BSc. Degree Project</p> <p>Time spent in education: 13 years</p>	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
<p>a) Publications focusing on main research field (max 5 typical publications)</p> <p>Takács, Á.- Kamondi, L.: Számítógéppel segített koncepcionális terméktervezési lehetőségek. In: Műszaki szemle. 2008. (. évf.) különszám. ISSN 1454-0746. p. 379-382.</p> <p>Takács, Á.- Kamondi, L.: Design Science- A neuvel approach for the product design. In: Advanced Engineering, International Journal. 2008. (2. évf.) 2. sz., ISSN 1846-5900, p 303-314.</p> <p>Takács, Á.: Számítógéppel segített koncepcionális tervezési módszer, doktori (PhD. thesis), 2009.</p> <p>Takács, Á.-Kamondi, L.: On Design Theories: Fundamentals of a Neuvel Approach. In: Advanced Engineering, International Journal. 2011. Issue: 5. No.: 1., ISSN 1846-5900, p 109-118.</p> <p>Takács, Á: Computer Aided Concept Building, Solid State Phenomena 261, ISSN: 1662-9779 pp. 402-407. (2017)</p> <p>b) Any other scientific/research achievements, patents etc. Zoltan Magyary Postdoctoral scholarship, 2013.</p> <p>c) Other qualified skills/experience/ honors 2010: MAB-István Sályi Scientific Prize 2013: Praise of the Dean of the Faculty of Mechanical Engineering and Informatics at the category of excellent researcher</p>	

Name: Dr. Péter Telek	Year of birth: 1971
Education , diploma issued by, in:	
mechanical engineer, NME, 1996	
Current job/current position:	
<i>University of Miskolc, Faculty of Mechanical Engineering and Informatics, Institute of Logistics</i> – associate professor	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”, DSc, specifying the field of science and date, other titles</i>)	
PhD (engineering sciences) 2012	
Experience in education	
22 years education experience. Main courses in Hungarian language: Material handling machines, Material handling machines and systems, Logistic machines and equipment, Maintenance logistics, Material flow systems, Logistic systems, etc. Courses in English language: Material handling machines and systems, Computer design of material handling equipment, Material handling in manufacturing systems, Testing of material handling equipment.	
Connection between the teacher’s professional/scientific/research activities and the coordinated courses/subjects	
a) Publications focusing on main research field (max 5 typical publications) <ol style="list-style-type: none"> 1. P. Telek: Material flow relations in the design process of materials handling, <i>ADVANCED LOGISTIC SYSTEMS: THEORY AND PRACTICE</i> 10:(1) pp. 53-64. (2016) 2. P. Telek: Equipment preselection for integrated design of materials handling systems, <i>ADVANCED LOGISTIC SYSTEMS: THEORY AND PRACTICE</i> 7:(2) pp. 57-66. (2013) 3. P. Telek: Anyagáramlási rendszerek változatai, <i>GÉP</i> 63:(4) pp. 23-26. (2012) 4. P. Telek, S. Szaladnyar: Comparison analysis of silo discharging devices operated by pneumatic actuator, <i>ZESZYTY NAUKOWE POLITECHNIKI POZNANSKIEJ</i> 6:(8) pp. 101-111. (2008) 5. P. Telek: Korszerű raktározási technikák, <i>TRANSPACK CSOMAGOLÁSI ANYAGMOZGATÁSI MAGAZIN</i> 6:(1) pp. 40-43. (2007) 	
b) Any other scientific/research achievements , patents etc	
c) Other qualified skills/experience/ honors	

Name: Dr. Lajos Tibor Tóth	Year of birth: 1970
Education , diploma issued by, in:	
<i>MSc. in Mechanical Engineering, ME 1995, MSc. in Metallurgical Engineering, ME, 1997, Engineer-Economist, ME, 1998, BSc. in Electrical Engineering, ME, 2006</i>	
Current job/current position:	
ME, GEIK, Institute of Electrical and Electronic Engineering – associate professor	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”</i> , DSc, specifying the field of science and date, other titles)	
PhD (Computer science) 2011	
Experience in education	
He's been spent 21 years in Education, where he has taught 198 Electronics related courses. Since 2015 he's been teaching courses in English.	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
a) Publications focusing on main research field (max 5 typical publications)	
<i><u>L.Tóth, T. Tóth: On Finding Better Wavelet Basis for Bearing Fault Detection, Acta Polytechnica Hungarica, Vol. 10, No. 3, pp. 17-35, 2013, ISSN 1785-8860, Impakt faktor: 0.471, 7 citations</u></i>	
<i><u>L.Tóth, T. Tóth: Construction of a Realistic Signal Model of Transients for a Ball Bearing with Inner Race Fault, Acta Polytechnica Hungarica, Vol. 10, No. 1, pp. 63-80, 2013, ISSN 1785-8860, Impakt faktor: 0.471, 2 citations</u></i>	
<i>Maklári D, Tóth L: MLCC Kerámiakondenzátorok veszteségi paramétereinek meghatározása, Műszaki tudomány az Észak-Kelet Magyarországi régióban 2016, Miskolc, pp. 372-382, ISBN:978-963-7064-33-3</i>	
<i>Tóth L, Németh S: ICL8038 típusú precíziós hullámforma generátor felépítésének és működésének szimulációs vizsgálata, Műszaki tudomány az Észak-Kelet Magyarországi régióban 2017, Nyíregyháza, pp. 563-570, ISBN:978-963-7064-35-7</i>	
<i>Tóth L: Jelfeldolgozó modul fejlesztése tranziens jelenségek vizsgálatához, XIII. ENELKO, 2012, pp. 168-173, ISSN 1842-4546</i>	
b) Any other scientific/research achievements, patents etc.	
c) Other qualified skills/experience/ honors	

Name: Dr. Gyula Varga	Year of birth: 1955
Education , diploma issued by, in:	
MSc in Mechanical Engineering, Technical University of Heavy Industry, Miskolc, 1979	
Current job/current position:	
University of Miskolc , Faculty of Mechanical Engineering and Informatics, Institute of Manufacturing Science - associate professor	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”, DSc</i> , specifying the field of science and date, other titles)	
PhD (Mechanical Engineering) 1996, Mathematical modelling of the heat transfer mechanism of recuperative burners	
Experience in education	
<ul style="list-style-type: none"> • Technical mechanics I.-II. (10 years), • Basics of production engineering (15 years), • Technology analysis (7 years), • Experiment design (8 years), • Design of fixtures and cutting tools (5 years), • Quality assurance of production (3 years), • Quality management (16 years), • Computer aided quality assurance (7 years), • Cutting procedures (15 years), • Quality inspection (5 years), • Industrial Quality Assurance (3 years). 	
29 years of experience in higher education	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
a) Publications focusing on main research field (max 5 typical publications)	
<ul style="list-style-type: none"> - <u>VARGA, G., KUNDRÁK, J.: Effect of environmentally conscious machining on machined surface quality, Applied Mechanics and Materials 309: pp. 35-42. (2013)</u> - <u>VARGA, G.: Effects of technological parameters on the surface texture of burnished surfaces, Key Engineering Materials 581: pp. 403-408. (2014)</u> - <u>VARGA, G.: Possibility to increase the life time of surfaces on parts by the use of diamond burnishing process, Key Engineering Materials 686: pp. 100-107. (2016)</u> - VARGA, G., Ferencsik, V.: Analysis of Surface Topography of Diamond Burnished Aluminium Alloy Components, Lecture Notes in Mechanical Engineering, F12: pp. 143-154. (2017) - <u>DUDÁS, I., LIERATH, F., VARGA GY.: Környezetbarát technológiák a gépgyártásban. Forgácsolás szárazon, minimális hűtéssel-kenéssel, Műszaki Kiadó, Budapest, 2010, p.: 308.</u> 	
b) Any other scientific/research achievements, patents etc.	
<i>I participated in 6 international research projects and 10 domestic research projects as its developer and/or supervisor</i>	

Within my research work, I consider the activity of drilling with environmentally friendly machining techniques as a priority. Next to it research diamond burnishing of steel workpieces. Number of publications: **223** (from this in English language 165 and 2 in German language was published)

My professional works:

- At the Budapest International Fair, the RQ 10 type recuperative gas burner with increased pulse was exhibited twice (1985, 1986)
- In 1990, the National Inventory Office granted patent protection to the subject of “Recuperative Gas Burner with increased Pulse” of which I was one of the co-authors.

c) Other qualified skills/experience/ honors

My major publications: **technical book: 1; chapter of a book: 2; study aids: 8; scientific publication in journals: 58** (from this 30 was published in peer reviewed international journals, 12 in foreign language in domestic peer reviewed journals, 16 in Hungarian language in domestic peer reviewed journals). **Publication in journals or conference in proceedings of the papers presented in conferences: 157** (from this 119 was published in English and 38 in Hungarian,).

Name: Dr. Péter Varga	Year of birth: 1963
Education , diploma issued by, in:	
Physicist, MSc, University of Illinois at Urbana-Champaign, 1993	
Current job/current position:	
University of Miskolc, Institute of Mathematics, Department of Analysis	
Scientific degree (PhD, CSc, DLA) (Title of the thesis work is to specify if PhD/DLA received within 5 yrs), membership of the Academy of Sciences/Art (<i>the titles of „dr. habil”, DSc, specifying the field of science and date, other titles</i>)	
PhD, Mathematics and Computer Sciences, 2007	
Experience in education	
Teaching experience, subjects: Matematika I,II,II, Differenciálegyenletek, Geometria I,II, Számítógépes algebra, Számítógépes és konstruktív geometria, Lie csoportok, Adatszerkezetek és programjaik,	
Connection between the teacher's professional/scientific/research activities and the coordinated courses/subjects	
<ol style="list-style-type: none"> 1. On the solvability of two dimensional semigroup gauge theories, <i>J. Math. Phys.</i> 51, 063301 (2010). 2. Unoriented membranes and Jordan algebras. <i>Journal of Mathematical Physics</i>, 46 (2005), no. 3. 3. Unitary deformations and complex soliton equations. <i>Journal of Mathematical Physics</i>, 40 (1999), no. 7, 3404--3408. 4. Minimax games, spin glasses, and the polynomial-time hierarchy of complexity classes. <i>Physical Reviews, E</i> (3) 57 (1998), no. 6, 6487–6492. 5. Péter Varga, Graphical solutions of the Yang–Baxter Equation with cut strands <i>J. Knot Theory Ramifications</i>, 26, 1750012 (2017) 	