Miskolc, 7th to 8th November 2024 (Thursday to Friday)

- PROGRAM -

		location:	7th November 2024 (Thursday) 10.00-12.20 (Plenary session) Headquarters of MAB (3. Erzsébet square, Miskolc), Auditorium (I. floor) Dr. JÁLICS Károly
1	0:00	10:05	Dr. Jálics Károly associate professor University of Miskolc: OPENING
1	0:10	10:30	Dr. Ficzere Péter associate professor Budapest University of Technology and Economics: Industry 5.0 or Industry 4.2
1	0:40		Molnár János development manager ZF Hungária Kft: Presentation of the application practice of design and development in the automotive industry in connection with university education
1	1:10		<i>Torkos Zoltán</i> MSc optometrist, optician master Z-OPTIKA Miskolc: The optics and mechanics of making glasses
1	1:40		Dr. Jálics Károly associate professor University of Miskolc: Investigation of the time delay of arrival (TDOA) method for diagnostic purposes on motor vehicles
1	2:00	12:20	Questions, informal conversation

13:45 Lunch and coffee break for registered participants of the seminar

12:45

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date/time: 7th November 2024 (Thursday) 14.00-18.00 (1. Professional section)

	location	Headquarters of MAB (3. Erzsébet square, Miskolc), Auditorium (I. floor) Dr. TAKÁCS Ágnes, Dr. GOTTHARD Viktor
14:00	14:10	Prof. Dr. Jármai Károly professor University of Miskolc: Motion enlargement at structures, literature review, application
14:20	14:30	Dr. Gotthard Viktor managing director G-MAX Europe Kft: Mofular pinciple design (DFM) theory and practice: modular design of giant 3D-printer and product development
14:40	14:50	Zsila Klaudia Fanni development engineer ZF Hungária Kft: Development and application of the oil filling test method
15:00	15:10	Paróczai Soma simulation engineer ZF Hungária Kft: Stress analysis of gearbox housing and dimensioning for fatigue
15:20	15:30	Torkos Dorka BSc optician Z-OPTIKA, Miskolc: The history of glasses
15:40	16:00	coffee break
16:00	16:10	Bodnár Dávid PhD student University of Miskolc / engineer, Emerson Automation FCP Kft. Eger: Industrial robot arm damping coefficient and frequency response testing with measurement and finite element methods
16:20	16:30	Molnár Luca MSc student Budapest University of Technology and Economics: 3D printing and mechanical evaluation of lattice structures of lumbar stabilization spinal implants
16:40	16:50	Bártfai András PhD student Budapest University of Technology and Economics: Experimental validation of the tuneable clamping table optimal tuning and design of a compatible workpiece
17:00	17:10	Németh Géza assistant professor University of Miskolc: Variety of trapezoidal machines and specification of their models
17:20	17:30	Szalánczi Dávid PhD student University of Miskolc: Efficiency improvement of solar panels using infrared reflective foils in perc technology
17:40	17:50	Siktár Bálint PhD student University of Miskolc: Investigating the kinematics and the vibration of a hedge trimmer

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date/time: 7th November 2024 (Thursday) 14.00-18.00 (2. Professional section)

location: Headquarters of MAB (3. Erzsébet square, Miskolc), Deák hall (I. floor) chairman: Dr. LOVAS László, Dr. SARKA Ferenc 14:00 14:10 Dr. Sarka Ferenc associate professor University of Miskolc: Reconstruction of a wormgear drive using 3D printing - Case study 14:20 14:30 Besenyei István PhD student University of Miskolc: Bending test of aluminium profil for Mechanical engineering 14:40 14:50 Dr. Bihari Zoltán associate professor University of Miskolc: Only one kind of nut? Not (nut) everyone's cup of tea **15:10** Albert Judit PhD student University of Miskolc: **Optimizing Sealing Performance** 15:00 with Finite Element Method and Multi-Criteria Decision-Making Approach 15:20 15:30 Dr. Sarka Ferenc associate professor University of Miskolc: Improving the heat conduction properties of railway brake blocks by macro-structural changes, using a simplified finite element model **16:00** coffee break 15:40 16:10 Messaoudi Abderrazek PhD student University of Miskolc: The influence of non-16:00 symmetrical supports on the stability of arches 16:20 16:30 Shaaya Karam PhD student University of Miskolc: Manufacturing issues with 3D printed gears—literature survey 16:40 16:50 Iyad Al-Najjar PhD student University of Miskolc: Applying Mode-Superposition Method on a wind turbine blade 17:00 17:10 Mustafa M. Hasan PhD student University of Miskolc: Multifunctional Applications of a Dual-Purpose Solar Collector Across Diverse Sectors

17:30 Katreen Ebrahem PhD student University of Miskolc: 3D Numerical Design And

Testing Of Personalized Intervertebral Disc Prostheses

17:20

Miskolc, 7th to 8th November 2024 (Thursday to Friday)

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	location:	8th November 2024 (Friday) 9:00-12.30 (3. Professional section) Headquarters of MAB (3. Erzsébet square, Miskolc), Auditorium (I. floor)
	chairman:	Dr. SZABÓ Ferenc János, Dr. DÖMÖTÖR Csaba
9:00	9:10	Dr. Szabó Ferenc János associate professor University of Miskolc: Grapho-analytical optimization in 3D
9:20	9:30	Dr. Szabó Ferenc János associate professor University of Miskolc: Extreme load of the undercarriage of a car
9:40	9:50	Tóth Csilla park leader, Dr. Kovács Zoltán, Dr. Háry András ZalaZONE Science Park Kft.: The relationship between university services and new technologies in science and technology parks
10:00	10:10	Kapitány Pálma assistant lecturer University of Miskolc: Development of curtain moving system with remote control and automatic operation in case of fire
10:20	10:30	coffee break
10:40	10:50	Sári-Barnácz Viktor leading expert Robert Bosch Kft. / PhD student, Obuda University: Indirect hyperelastic material model identification using production line data of automotive sealing assembly process
11:00	11:10	<i>Dr. habil Darabos Anita DLA</i> assistant professor Budapest University of Technology and Economics: Ecodesign products?
11:20	11:30	Marada Imre PhD student University of Miskolc: Analysing the pitch faults of small plastic gears
11:40	11:50	Bányai Kristóf BSc student University of Miskolc: Analysis of tribological parameters of coatings
12:00	12:10	Dr. Dömötör Csaba associate professor University of Miskolc: Requirements and possibilities for components optimized for additive manufacturing
12:10	12:15	CLOSING WORD