

**Department: *D*; Doctoral field*DF*: Industrial Engineering*IE*,
Mechanical Engineering*ME*, Engineering and Management*EMg***

Doctoral Scientific Areas

No.	PhD Advisor	D	DF	Scientific Areas
1	Prof.univ.dr.ing. BENDIC Vasile	RSP	IE	<ul style="list-style-type: none"> • Management and systems engineering • Manufacturing processes and systems • Product development
2	Prof.univ.dr.ing. CONSTANTIN George	RSP	IE	<ul style="list-style-type: none"> • Advanced manufacturing systems • Manufacturing processes • Advanced modeling, simulation and optimization techniques
3	Prof.univ.dr.ing. COTEȚ Costel Emil	RSP	IE	<ul style="list-style-type: none"> • Smart manufacturing • Digital twining in industrial engineering • Product Lifecycle Management
4	Prof.univ.dr.ing. DORIN Alexandru	RSP	IE	<ul style="list-style-type: none"> • Industrial Robot Modular Design • Optimizing Devices for Driving Robots Systems
5	Prof.univ.dr.ing. GHIONEA Adrian	RSP	IE	<ul style="list-style-type: none"> • Machine Tool Performance and Precision • Maintenance Management • Industrial Logistics • Manufacturing Systems
6	Prof.univ.dr.ing. MOHORA Cristina	RSP	IE	<ul style="list-style-type: none"> • Material Flow Modelling and Simulation; • Vibration and Noise; • Assistive Devices.
7	Prof.univ.dr.ing. PREDINCEA Nicolae	RSP	IE	<ul style="list-style-type: none"> • Thermal Field for Applications Using Industrial Robots • Product Lifecycle Management • Kinematics of Machine Tool
8	Prof.univ.dr.ing. PUPĂZĂ Cristina	RSP	IE	<ul style="list-style-type: none"> • Advanced Computer Aided Engineering; • Industry 4.0; • Machine learning.
9	Prof.univ.dr.ing. VELICU Ștefan	RSP	IE	<ul style="list-style-type: none"> • Manufacturing Systems • Materials Processing • Industrial Logistics
10	Prof.univ.dr.ing. ZAPCIU Miron	RSP	IE	<ul style="list-style-type: none"> • Machine dynamics and vibrations • Process control in industry • Robotics and Manufacturing Systems
11	Prof.univ.dr.ing. DOICIN Cristian	TCM	IE	<ul style="list-style-type: none"> • Product Development • Manufacturing Processes and Systems • Systems Engineering and Management • Engineering Economics
12	Prof.univ.dr.ing. DRĂGĂNESCU Florian	TCM	IE	<ul style="list-style-type: none"> • Product Development • Manufacturing Processes and Systems • Machining and Machinability
13	Prof.univ.dr.ing. GHEORGHE Marian	TCM	IE	<ul style="list-style-type: none"> • Integrative Processes, Systems, Technology • Product Development • Machinability, Machining, Control, Assembly • Manufacturing, Production and Recycling
14	Prof.univ.dr.ing. GHICULESCU Liviu Daniel	TCM	IE	<ul style="list-style-type: none"> • Nonconventional Technologies and Specific Technological Systems

				<ul style="list-style-type: none"> • Micro and Nanotechnologies • Strategic and Quality Management, Innovation and Technological Transfer
15	Prof.univ.dr.ing. IONESCU Nicolae	TCM	IE	<ul style="list-style-type: none"> • Nonconventional Machining Processes and Systems • Manufacturing Processes and Systems • Product Development • Creativity and Intellectual Property
16	Prof.univ.dr.ing. MILITARU Constantin	TCM	IE	<ul style="list-style-type: none"> • Quality Engineering and Management • Product and Processes Quality • Quality Management Systems
17	Prof.univ.dr.ing. NEAGU Corneliu	TCM	IE	<ul style="list-style-type: none"> • Production Programming and Control • Product Development • Systems Engineering and Management • Manufacturing Processes and Systems
18	Prof.univ.dr.ing. OPRAN Constantin Gheorghe	TCM	IE	<ul style="list-style-type: none"> • Engineering of Composites Products • Engineering of Polymeric Products • Intelligent manufacturing of advanced materials products
19	Prof.univ.dr.ing. STURZU Aurel	TCM	IE	<ul style="list-style-type: none"> • Geometric Control Process and Devices • Geometric Control Systems • Manufacturing Processes and Systems
20	Prof.univ.dr.ing. VIȘAN Aurelian	TCM	IE	<ul style="list-style-type: none"> • Nonconventional Machining Processes and Systems • Manufacturing Processes and Systems • Product Development
21	Prof.univ.dr.ing. SOLOMON Gheorghe	ICTI	IE	<ul style="list-style-type: none"> • Welding Processes and Control • Quality Management • Occupational Health and Safety Management
22	Prof.univ.dr.ing. SEVERIN Irina	ICTI	IE	<ul style="list-style-type: none"> • Advanced Composite Systems • Integrated Management Systems • Quality Engineering & Management
23	Prof.univ.dr.ing. VOICULESCU Ionelia	ICTI	IE	<ul style="list-style-type: none"> • Materials Science and Processing • Welding Processes • Heat Treatments
24	Prof.univ.dr.ing. CHIVU Oana Roxana	ICTI	IE	<ul style="list-style-type: none"> • Occupational health and safety management • Manufacturing processes and Systems • Quality management
25	Prof.univ.dr.ing. AMZA Cătălin Gheorghe	ICTI	IE	<ul style="list-style-type: none"> • Additive manufacturing • Industrial image processing • Quality inspection of industrial products • Virtual and augmented reality for industrial applications
26	Prof. univ. dr. ing. NIȚOI Dan	ICTI	IE	<ul style="list-style-type: none"> • Ultrasonics. Applications in engineering and medicine • Modelling and simulation • Materials Technology. Smart materials • Sustainable development and eco-technologies
27	Prof.univ.dr.ing. RONTESCU Corneliu	ICTI	IE	<ul style="list-style-type: none"> • Welding Processes and Control • Materials and Products Reconditioning
28	Prof.univ.dr.ing. ANTONESCU Păun	TMR	IE	<ul style="list-style-type: none"> • Topological structure of mechanisms and manipulators • Kinematics and dynamics of mechanisms and machines • Serial and parallel industrial robots
29	Prof.univ.dr.ing. SIMIONESCU Ion	TMR	IE	<ul style="list-style-type: none"> • Optimum Design of Industrial Robots • Mechanisms and Machineries Design • Optimal Synthesis of Mechanisms
30	Prof.univ.dr.ing. TEMPEA Iosif	TMR	IE	<ul style="list-style-type: none"> • Analysis and Synthesis of Mechanisms Applied in Industry • Modeling and Simulation of Robotic Mechanisms
31	Prof.univ.dr.ing. SIMION Ionel	GIDI	IE	<ul style="list-style-type: none"> • Industrial Design

				<ul style="list-style-type: none"> • Computer Aided Design • Computer Graphics
32	Prof.univ.dr.ing. CĂNĂNĂU Sorin	OMT	IE	<ul style="list-style-type: none"> • Mechanical transmissions with gears • Tribology • FEM analysis of mechanical structures
33	Prof. univ. dr. ing. RECE Laurențiu	UTCB-TM	IE	<ul style="list-style-type: none"> • Development of numerical control systems. • Development of innovative products. • Modern industrialization of innovative products.
34	Prof.univ.dr.ing. OLARU Adrian	RSP	ME	<ul style="list-style-type: none"> • Assisted research of the Robot's dynamics • Modelling and simulation with LabVIEW • Software platform for the assisted research of the Forward kinematics and Inverse dynamics of robots • Controlling and automation manufacturing systems • Neural Networks solving the Inverse kinematics in Robotics • Humanoid robots
35	Prof.univ.dr.ing. POPESCU Diana	RSP	ME	<ul style="list-style-type: none"> • Assembly/disassembly process modeling • Additive Manufacturing • Industrial robots
36	Prof.univ.dr.ing. BLUMENFELD Maty	RM	ME	<ul style="list-style-type: none"> • Materials Strength • Finite Elements Method
37	Prof.univ.dr.ing. CONSTANTINESCU Dan Mihai	RM	ME	<ul style="list-style-type: none"> • Fracture mechanics and fatigue • Interface damage and failure • Mechanical behavior of composites/nanocomposites, foams, and ceramics
38	Prof.univ.dr.ing. JIGA Gheorghe Gabriel	RM	ME	<ul style="list-style-type: none"> • Layered composite structures; • Experimental stress analysis; • Sandwich structures; • Impact on composite structures.
39	Prof.univ.dr.ing. HADĂR Anton	RM	ME	<ul style="list-style-type: none"> • Stress and strain optimization for mechanical structures statically or dynamically loaded; • Mechanical structures based on composite materials.
40	Prof.univ.dr.ing. RADEȘ Mircea	RM	ME	<ul style="list-style-type: none"> • Machine dynamics • Mechanical vibration • FEM in dynamic analysis of mechanical structures
41	Prof.univ.dr.ing. SEMENESCU Augustin	IE-SIM	EMg	<ul style="list-style-type: none"> • Industrial Processes, Equipment and Management; • Modeling, Simulation and Innovation for Industrial Processes and Product Development; • Innovative Medical Devices and Materials; • Metallic Materials Producing and Processing;
42	Prof.univ.dr.ing. ȚÎȚU Aurel Mihail	IIM-ULBS	EMg	<ul style="list-style-type: none"> • Engineering and quality management; • Intellectual property management, innovation and technology transfer; • KAIZEN systems and LEAN systems; • Experimental research and data processing; • Engineering and management of nonconventional technologies.
43	Prof.univ.dr.ing. IOANA Adrian	IE-SIM	EMg	<ul style="list-style-type: none"> • Quality management in the metal materials industry • Strategic management specific to industrial engineering • Optimal management of aggregates in the materials industry • Automation and robotization in the materials industry • Specific management of educational systems
44	Prof.univ.dr.ing. CĂRUȚAȘU Nicoleta Luminița	RSP	EMg	<ul style="list-style-type: none"> • Occupational Health and Safety Management; • Logistics;

45	Prof. univ. dr. ing. MARIN Alexandru	HMHM - Energetică	EMg	<ul style="list-style-type: none"> • Renewable energy and environmental protection • Fluid power and electro-hydraulic servo-systems • Intellectual property rights protection & management and capitalization of intangible assets • Innovation and knowledge / technology transfer
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