



## Doctoral Scientific Areas

Doctoral field (DF):  
Industrial Engineering (IE); Mechanical Engineering (ME); Engineering and Management(EMg)

No.	PhD Supervisor	Email	Department	DF	Scientific Areas
1.	Assoc.prof.dr.eng. ABAZA Bogdan Felician	bogdan.abaza@upb.ro	TCM	IE	<ul style="list-style-type: none"> <li>Autonomous Intelligent Mobile Systems (AIMS)</li> <li>AI-Driven Predictive and Hybrid Modeling for Sustainable Manufacturing and Digital Health</li> <li>Intelligent Cyber-Physical Systems (ICPS) and Applications</li> <li>AI-Enhanced Project-Based Pedagogy and Personalized Learning Systems</li> <li>AI-Enabled Advanced Product Design and Development</li> </ul>
2.	Prof.dr.eng. AMZA Cătălin Gheorghe	catalin.amza@upb.ro	ICTI	IE	<ul style="list-style-type: none"> <li>Additive manufacturing</li> <li>Industry 4.0 technologies</li> <li>Industrial image processing</li> <li>Quality inspection of industrial products</li> <li>Virtual and augmented reality for industrial applications</li> </ul>
3.	Prof.dr.eng. ANTONESCU Păun	panton38@hotmail.com	TMR	IE	<ul style="list-style-type: none"> <li>Topological structure of mechanisms and manipulators</li> <li>Kinematics and dynamics of mechanisms and machines</li> <li>Serial and parallel industrial robots</li> </ul>
4.	Assoc.prof.dr.eng. BABIȘ Claudiu	claudiu.babis@upb.ro claudiubab8@gmail.com	ICTI	IE	<ul style="list-style-type: none"> <li>Fatigue of the welded structures</li> <li>Welding Processes and Control</li> <li>Manufacturing processes and Systems</li> <li>Occupational health and safety management</li> </ul>
5.	Assoc.prof.dr.eng. BĂILĂ Diana Irinel	baila_d@yahoo.com; diana.baila@upb.ro	TCM	IE	<ul style="list-style-type: none"> <li>Additive Manufacturing</li> <li>Manufacturing Processes and Systems</li> <li>Materials Processing and Coatings</li> </ul>



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6.	Prof.dr.eng. BENDIC Vasile	vasilebendic@yahoo.com	RSP	IE	<ul style="list-style-type: none"> <li>Management and systems engineering</li> <li>Manufacturing processes and systems</li> <li>Product development</li> </ul>
7.	Prof.dr.eng. CĂNĂNĂU Sorin	s_cananau@yahoo.com	OMT	IE	<ul style="list-style-type: none"> <li>Mechanical transmissions with gears</li> <li>Tribology</li> <li>FEM analysis of mechanical structures</li> </ul>
8.	Prof.dr.eng. CHIVU Oana Roxana	oana.chivu@upb.ro	ICTI	IE	<ul style="list-style-type: none"> <li>Occupational health and safety management</li> <li>Manufacturing processes and Systems</li> <li>Quality management</li> </ul>
9.	Assoc.prof.dr.eng. CICIC Dumitru - Titi	dumitru.cicic@upb.ro dumitru.cicic@gmail.com	ICTI	IE	<ul style="list-style-type: none"> <li>Welding and welding-related processes</li> <li>Inspection and quality control of industrial products</li> <li>Quality Engineering and Management</li> </ul>
10.	Prof.dr.eng. CÎRȚÎNĂ Liviu Marius	cirtinaliviu@gmail.com	U.C.B.Tg. Jiu	IE	<ul style="list-style-type: none"> <li>Product Development and Processes Quality</li> <li>Manufacturing Processes and Systems</li> <li>Quality Management</li> </ul>
11.	Prof.dr.eng. CONSTANTIN George	george.constantin@icmas.eu	RSP	IE	<ul style="list-style-type: none"> <li>Advanced manufacturing systems</li> <li>Manufacturing processes</li> <li>Advanced modeling, simulation and optimization techniques</li> </ul>
12.	Prof.dr.eng. COTEȚ Costel Emil	costelemilcotet@gmail.com	RSP	IE	<ul style="list-style-type: none"> <li>Smart manufacturing</li> <li>Digital twinning in industrial engineering</li> <li>Product Lifecycle Management</li> </ul>
13.	Prof.dr.eng.ec. DOICIN Cristian	cristian.doicin@upb.ro	TCM	IE	<ul style="list-style-type: none"> <li>Product Design and Development</li> <li>Additive Manufacturing</li> <li>Applied Informatics</li> <li>Manufacturing Processes and Systems</li> <li>Engineering Economics and Management</li> </ul>



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14.	Prof.dr.eng. DRĂGĂNESCU Florian	florian.draganescu@yahoo.com	TCM	IE	<ul style="list-style-type: none"> <li>Product Development</li> <li>Manufacturing Processes and Systems</li> <li>Machining and Machinability</li> </ul>
15.	Assoc.prof.dr.eng. GÂRLEANU Gabriel	gabriel.garleanu@upb.ro	ICTI	IE	<ul style="list-style-type: none"> <li>Welding Processes and Control</li> <li>Manufacturing processes and Systems</li> <li>Materials Technology. Smart materials</li> <li>Quality Engineering and Management</li> <li>Modelling and simulation</li> </ul>
16.	Prof.dr.eng. GHEORGHE Marian	marian.gheorghe@upb.ro	TCM	IE	<ul style="list-style-type: none"> <li>Integrative Processes, Systems and Technology</li> <li>Product Development</li> <li>Machinability, Machining, Control, Assembly</li> <li>Manufacturing, Production Recycling and Sustainability</li> </ul>
17.	Prof.dr.eng. GHICULESCU Liviu Daniel	liviudanielghiculescu@yahoo.com	TCM	IE	<ul style="list-style-type: none"> <li>Nonconventional Technologies and Specific Technological Systems</li> <li>Micro and Nanotechnologies</li> <li>Strategic and Quality Management, Innovation and Technological Transfer</li> </ul>
18.	Assoc.Prof.dr.ing. GHINEA Mihalache	mihalache.ghinea@upb.ro ghinea2003@yahoo.com	RSP	IE	<ul style="list-style-type: none"> <li>Manufacturing systems and FMS;</li> <li>Experimental research and data processing;</li> <li>Industry 4.0 (IIoT, Virtual Reality and Digital Control);</li> <li>AI in Industry (Predictive Maintenance)</li> </ul>
19.	Prof.dr.eng. IONESCU Nicolae	ionescu_upb@yahoo.com nicolae.ionescu@upb.ro	TCM	IE	<ul style="list-style-type: none"> <li>Nonconventional Machining Processes and Systems</li> <li>Manufacturing Processes and Systems</li> <li>Product Development</li> <li>Creativity and Intellectual Property</li> </ul>
20.	Prof.dr.eng.ec. MILITARU Constantin	prof_militaru@yahoo.com	TCM	IE	<ul style="list-style-type: none"> <li>Quality Engineering and Management</li> <li>Product and Processes Quality</li> <li>Quality Management Systems</li> </ul>



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21.	Prof.dr.eng. MOHORA Cristina	cristinamohora@yahoo.com cristina.mohora@upb.ro	RSP	IE	<ul style="list-style-type: none"> <li>• Manufacturing Processes and Systems</li> <li>• Machine dynamics and vibration</li> <li>• Equipments for rehabilitation therapies</li> <li>• Products sustainable development</li> </ul>
22.	Assoc.prof.dr.eng. NICOLAU Ana-Maria	avr_ana@yahoo.com ana.avramescu@upb.ro	GIDI	IE	<ul style="list-style-type: none"> <li>• Innovation for Industrial Processes and Product Development;</li> <li>• Sustainable Design: Bio-sources Materials and Environmental Protection; Design for Circular Economy,</li> <li>• Product Design: Human Factor and Sensory Design,</li> <li>• Emerging Technologies in Design,</li> <li>• Branding and Visual Identity Design.</li> </ul>
23.	Prof.dr.eng. NIȚOI Dan	nitoidan@yahoo.com	ICTI	IE	<ul style="list-style-type: none"> <li>• Ultrasonics. Applications in engineering and medicine</li> <li>• Modelling and simulation</li> <li>• Materials Technology. Smart materials</li> <li>• Sustainable development and eco-technologies</li> </ul>
24.	Prof.dr.eng. OPRAN Constantin Gheorghe	constantin.opran@upb.ro	TCM	IE	<ul style="list-style-type: none"> <li>• Engineering of Composites Products</li> <li>• Engineering of Polymeric Products</li> <li>• Intelligent manufacturing of advanced materials products</li> </ul>
25.	Prof.dr.eng. PASCU Elisabeta – Nicoleta	nicoletaelisabeta_pascu@yahoo.ro	RSP	IE	<ul style="list-style-type: none"> <li>• Industry 4.0;</li> <li>• Industrial Design</li> <li>• Computer Aided Design</li> </ul>
26.	Prof.dr.eng. PUPĂȚĂ Cristina	cristinapupaza@yahoo.co.uk	RSP	IE	<ul style="list-style-type: none"> <li>• Advanced Computer Aided Engineering;</li> <li>• Industry 4.0;</li> <li>• Machine learning &amp; Reinforcement learning.</li> </ul>
27.	Prof.dr.eng. RECE Laurențiu	laurentiu.rece@utcb.ro; recelaurentiu@gmail.com	UTCB-TM	IE	<ul style="list-style-type: none"> <li>• Development of numerical control systems.</li> <li>• Development of innovative products.</li> <li>• Modern industrialization of innovative products.</li> </ul>



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28.	Prof.dr.eng. RONTESCU Corneliu	corneliu.rontescu@upb.ro	ICTI	IE	<ul style="list-style-type: none"> <li>Welding Processes and Control</li> <li>Manufacturing processes and Systems</li> <li>Quality Engineering and Management</li> </ul>
29.	Prof.dr.eng. SEVERIN Irina	irina.severin@upb.ro	ICTI	IE	<ul style="list-style-type: none"> <li>Advanced Composite Systems</li> <li>Integrated Management Systems</li> <li>Excellence &amp; Sustainability</li> <li>Quality Engineering &amp; Management</li> </ul>
30.	Prof.dr.eng. SIMION Ionel	ionel.simion@gmail.com	GIDI	IE	<ul style="list-style-type: none"> <li>Industrial Design</li> <li>Computer Aided Design</li> <li>Computer Graphics</li> </ul>
31.	Assoc.prof.dr.eng. SPÂNU Paulina	paulina.spanu@upb.ro	TCM	IE	<ul style="list-style-type: none"> <li>Composite Product Engineering</li> <li>LabVIEW-Based Modeling and Simulation</li> <li>Advanced Manufacturing Processes and Systems</li> <li>Machining Techniques and Machinability Analysis</li> </ul>
32.	Prof.dr.eng. STURZU Aurel	narcisa.valter@yahoo.com	TCM	IE	<ul style="list-style-type: none"> <li>Geometric Control Process and Devices</li> <li>Geometric Control Systems</li> <li>Manufacturing Processes and Systems</li> </ul>
33.	Prof.dr.eng. TOPALA Pavel	pavel.topala@gmail.com	TCM	IE	<ul style="list-style-type: none"> <li>Nonconventional Technologies and Specific Technological Systems</li> <li>Micro and Nanotechnologies</li> <li>Product Development</li> </ul>
34.	Assoc.prof.dr.eng.ec. ULMEANU Mihaela-Elena	mihaela.ulmeanu@upb.ro	TCM	IE	<ul style="list-style-type: none"> <li>Additive Manufacturing</li> <li>Sustainable Product Design and Manufacturing</li> <li>Technical Functional Analysis</li> <li>Computer Aided Design and Optimisation</li> <li>Medical Engineering and Healthcare Design</li> <li>Innovation and Entrepreneurship in Engineering</li> <li>Educational Management Systems</li> </ul>



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35.	Prof.dr.eng. VELICU Ștefan	velstefan@hotmail.com	RSP	IE	<ul style="list-style-type: none"> <li>Manufacturing Systems</li> <li>Materials Processing</li> <li>Industrial Logistics</li> </ul>
36.	Prof.dr.eng. VOICULESCU Ionelia	ioneliav@yahoo.co.uk	ICTI	IE	<ul style="list-style-type: none"> <li>Materials Science, Processing and Testing</li> <li>Welding and Brazing Processes</li> <li>Heat Treatments</li> </ul>
37.	Prof.dr.eng. ZAPCIU Miron	miron.zapciu@upb.ro	RSP	IE	<ul style="list-style-type: none"> <li>Machine dynamics and vibrations</li> <li>Process control in industry</li> <li>Robotics and Manufacturing Systems</li> </ul>
38.	Prof.dr.eng. CONSTANTINESCU Dan Mihai	dan.constantinescu@upb.ro	RM	ME	<ul style="list-style-type: none"> <li>Fracture mechanics and fatigue</li> <li>Interface damage, cohesive fracture and failure</li> <li>Mechanical behaviour of composites/nanocomposites, foams, and ceramics under static and dynamic loadings</li> <li>Design and fabrication of mechanical metamaterials</li> </ul>
39.	Prof.dr.eng. HADĂR Anton	antonhadar@yahoo.com , anton.hadar@upb.ro	RM	ME	<ul style="list-style-type: none"> <li>Stress and strain optimization for mechanical structures statically or dynamically loaded;</li> <li>Mechanical structures based on composite materials.</li> </ul>
40.	Prof.dr.eng. JIGA Gheorghe Gabriel	gabijiga@yahoo.com	RM	ME	<ul style="list-style-type: none"> <li>Layered composite structures;</li> <li>Experimental stress analysis;</li> <li>Sandwich structures;</li> <li>Impact on composite structures.</li> </ul>
41.	Prof.dr.eng. OLARU Adrian	aolaru_51@ymail.com	RSP	ME	<ul style="list-style-type: none"> <li>Assisted research of the Robot's dynamics</li> <li>Modelling and simulation with LabVIEW</li> <li>Software platform for the assisted research of the Forward kinematics and Inverse dynamics of robots</li> <li>Controlling and automation manufacturing systems</li> <li>Neural Networks solving the Inverse kinematics in Robotics</li> <li>Humanoid robots</li> </ul>



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42.	Prof.dr.eng. POPESCU Diana	diana.popescu@upb.ro dian_popescu@yahoo.com	RSP	ME	<ul style="list-style-type: none"> <li>• Assembly/disassembly process modeling</li> <li>• Additive Manufacturing</li> <li>• Industrial robots</li> </ul>
43.	Prof.dr.eng. CĂRUȚĂȘU George	carutasu.george@gmail.com	U. Rom. American. Fac. Inform. for Bus. Management	EMg	<ul style="list-style-type: none"> <li>• Enterprise Resource Planning</li> <li>• Business Software Applications</li> <li>• Virtualization and Cloud Computing Management</li> </ul>
44.	Prof.dr.eng. CĂRUȚĂȘU Nicoleta Luminița	nicoletacarutasu@yahoo.com	RSP	EMg	<ul style="list-style-type: none"> <li>• Occupational Health and Safety Management;</li> <li>• Logistics</li> </ul>
45.	Prof.dr.eng. IOANA Adrian	adyioana@gmail.com	IE-SIM	EMg	<ul style="list-style-type: none"> <li>• Quality management in the metal materials industry</li> <li>• Strategic management specific to industrial engineering</li> <li>• Optimal management of aggregates in the materials industry</li> <li>• Automation and robotization in the materials industry</li> <li>• Specific management of educational systems</li> </ul>
46.	Prof.dr.eng. MARIN Alexandru	alexandru.marin@upb.ro	HMHIM – Energy Engineering	EMg	<ul style="list-style-type: none"> <li>• Renewable energy and environmental protection</li> <li>• Fluid power and electro-hydraulic servosystems</li> <li>• Intellectual property rights protection &amp; management and capitalization of intangible assets</li> <li>• Innovation and knowledge / technology transfer</li> </ul>
47.	Prof.dr.eng.ec.mat. SEMENESCU Augustin	asemenescu2002@yahoo.com	IE-SIM	EMg	<ul style="list-style-type: none"> <li>• Industrial Processes, Equipment and Management;</li> <li>• Modelling, Simulation and Innovation for Industrial Processes and Product Development;</li> <li>• Innovative Medical Devices and Materials;</li> <li>• Metallic Materials Producing and Processing;</li> <li>• Educational systems management</li> </ul>



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48.	Prof.dr.eng.dr.ec.dr. Habil. ȚÎȚU Aurel Mihail	mihail.titu@yahoo.com mihail.titu@ulbsibiu.ro	IIM-ULBS	EMg	<ul style="list-style-type: none"> <li>• Engineering and quality management;</li> <li>• Intellectual property management, innovation and technology transfer;</li> <li>• Artificial intelligence in engineering and management;</li> <li>• KAIZEN systems and LEAN systems;</li> <li>• Experimental research and data processing;</li> <li>• Engineering and management of nonconventional technologies, Micro and Nanotechnologies.</li> </ul>