

**Schedule of Open Scientific Lectures in 2025**  
**Department of Automation, Biomechanics, and Mechatronics (K11), Room 2M334**  
**Faculty of Mechanical Engineering of TUL**

DATE	TIME	SPEAKER	LECTURE TITLE
<b>11.March</b>	<b>12:00</b>	Paweł Olejnik	<i>Estimating the static friction law of a kinematically forced double torsion pendulum using PINNs <sup>1</sup></i>
<b>18.March</b>	12:15	Adam Wijata	<i>Wykorzystanie narzędzi sztucznej inteligencji w pracy naukowca <sup>2</sup></i>
<b>25.March</b>	<b>12:05</b>	Majid Shahgholi	<i>HOT TOPICS IN SCIENCE AND TECHNOLOGY (W1): Chaotic and Nonlinear Vibrations in Continuous Rotating Systems with Active Magnetic Bearings (AMB) <sup>1</sup></i>
<b>8.April</b>	12:15	Bartosz Stańczyk	<i>Innowacje w druku 3D: najnowsze trendy i technologie<sup>2</sup></i>
<b>15.April</b>	12:15	<i>postponed to 10.June</i>	
<b>29.April</b>	12:15	Sayed M.M. Najafabadi	<i>Examining the Impact of Visual Perturbation Caused by Virtual Reality on Postural Stability <sup>1</sup></i>
<b>6.May</b>	12:15	Bipin Balaram	<i>Filippov Method for Non-Smooth Systems <sup>1</sup></i>
<b>13.May</b>	12:15	Yared D. Desta	<i>On the Relationships Between Friction-Induced Acoustic Waves and Vibrations: A Review with an Illustrative Experiment <sup>1</sup></i>
<b>20.May</b>	12:15	Muhammad J.U. Rehman	<i>Nonlinear Dynamics of 2DOF Mechanical Oscillators: Interactions of Parametric Excitation and Dry Friction<sup>1</sup></i>
<b>27.May</b>	12:15	Paul Asir	<i>Physics in Automation and Biomechanics <sup>1</sup></i>
<b>3.June</b>	12:15	Muhammad Umer	<i>Challenges and Solutions in Analytical Approaches for Nonlinear Systems <sup>1</sup></i>
<b>10.June</b>	12:15	Mohammad P. Rezaei	<i>Nonlinear Hencky's Beam Model For Beam Structures<sup>1</sup></i>
<b>17.June</b>	12:15	Ali Fasihi	<i>Dynamics of Fluid Conveying Pipe <sup>1</sup></i>

<sup>1</sup> English-language presentations will be prepared also for English-speaking guests of the department.

<sup>2</sup> Polish-language presentation.