

FACULTY:	Department of Mechanical Engineering
FIELD OF STUDY:	Transport
ERASMUS COORDINATOR OF THE FACULTY:	Dr hab. inż. Agnieszka Kułakowska, prof. PK
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COURSE TITLE:	Metrology and measurement system
LECTURER'S NAME:	Dr hab. inż. Paweł Sutowski, prof PK
E-MAIL ADDRESS OF THE LECTURER:	pawel.sutowski@tu.koszalin.pl
COURSE CODE (USOS):	1
ECTS POINTS FOR THE COURSE:	2 ECTS
ACADEMIC YEAR:	2025/2026
SEMESTER: (W – winter, S – summer)	W
HOURS IN SEMESTER:	30 L
LEVEL OF THE COURSE: (1 <sup>st</sup> cycle, 2 <sup>nd</sup> cycle, 3 <sup>rd</sup> cycle)	1 <sup>st</sup> cycle
TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?)	Laboratory
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	Written exam
COURSE CONTENT:	<p>The scope of the lectures includes the following issues:</p> <ul style="list-style-type: none"> <li>– classification and characteristics of measurement methods,</li> <li>– probability distributions of measurement errors,</li> <li>– methodology of analyzing the results of the measurements,</li> <li>– gauge blocks: types, characteristics and purpose,</li> <li>– general characteristics of the measurement instruments for measurements of the length,</li> <li>– length measurements using calipers and mechanical sensors,</li> <li>– length measurements using tools micrometers and mechano-optical sensors,</li> <li>– pneumatic and electric sensors: classification and characteristics.</li> </ul> <p>The scope of the laboratories includes the following issues:</p> <ul style="list-style-type: none"> <li>– measurements of external dimensions by calipers,</li> <li>– measurements of internal, external and mixed dimensions by micrometers,</li> <li>– measurements of angles, wedges and cones,</li> <li>– length measurements using mechanical, opto-mechanical and electrical sensors,</li> <li>– measurements of length and angles by measuring microscopes and projectors,</li> <li>– assessment of surface microgeometry.</li> </ul>
ADDITIONAL INFORMATION:	The basis for the evaluation of the course is a written exam and preparing written reports from all laboratory exercises.

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