

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 st cycle, 2 nd cycle, 3 rd cycle)	1 st cycle
TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?)	Laboratory
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METHOD: (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"> – classification and characteristics of measurement methods, – probability distributions of measurement errors, – methodology of analyzing the results of the measurements, – gauge blocks: types, characteristics and purpose, – general characteristics of the measurement instruments for measurements of the length, – length measurements using calipers and mechanical sensors, – length measurements using tools micrometers and mechano-optical sensors, – pneumatic and electric sensors: classification and characteristics. <p>The scope of the laboratories includes the following issues:</p> <ul style="list-style-type: none"> – measurements of external dimensions by calipers, – measurements of internal, external and mixed dimensions by micrometers, – measurements of angles, wedges and cones, – length measurements using mechanical, opto-mechanical and electrical sensors, – measurements of length and angles by measuring microscopes and projectors, – assessment of surface microgeometry.
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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