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| FACULTY: | Department of Mechanical Engineering |
| FIELD OF STUDY: | Transport |
| ERASMUS COORDINATOR OF THE  FACULTY: | Dr hab. inż. Agnieszka Kułakowska, prof. PK |
| E-MAIL ADDRESS OF THE  COORDINATOR: | [agnieszka.kulakowska@tu.koszalin.pl](mailto:agnieszka.kulakowska@tu.koszalin.pl) |
| 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](mailto:pawel.sutowski@tu.koszalin.pl) |
| COURSE CODE (USOS): | 1 |
| ECTS POINTS FOR THE COURSE: | 2 ECTS |
| ACADEMIC YEAR: | 2023/2024 |
| SEMESTER:  (W – winter, S – summer) | W |
| HOURS IN SEMESTER: | 30 L |
| LEVEL OF THE COURSE:  (1st cycle, 2nd cycle, 3rd cycle) | 1st 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: | The scope of the lectures includes the following issues:   * 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.   The scope of the laboratories includes the following issues:   * 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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