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| FACULTY: | **Faculty of Electronics and Computer Science** |
| FIELD OF STUDY: | **Electronics and Telecommunications** |
| ERASMUS COORDINATOR OF THE FACULTY: | Marcin Walczak, PhD |
| E-MAIL ADDRESS OF THE COORDINATOR: | marcin.walczak@tu.koszalin.pl |
| COURSE TITLE: | **Electronic/Telecommunication Metrology** |
| LECTURER’S NAME: | Jarosław Kraśniewski, PhD |
| E-MAIL ADDRESS OF THE LECTURER: | jaroslaw.krasniewski@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 1 |
| COURSE CODE (USOS): | 0711>0400-ME |
| ACADEMIC YEAR: | 2025/2026 |
| SEMESTER: (W – winter, S – summer) | S |
| HOURS IN SEMESTER: | 15 |
| LEVEL OF THE COURSE:  (1st cycle, 2nd cycle, 3rd cycle) | 1st cycle |
| TEACHING METHOD:  (lecture, laboratory, group tutorials, seminar, other-what type?) | Lecture – 15h |
| LANGUAGE OF INSTRUCTION: | * **English full time scheme for classes with 5 and more International Erasmus+ students enrolled/accepted;** * **English 50% individually with the teacher + Polish 50% with Polish students or individual project work- scheme for classes with less than 5 International Erasmus+ students enrolled/ accepted;** |
| ASSESSMENT METOD:  (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?) | Written exam |
| COURSE CONTENT: | The lecture features following topics: evaluation of errors (calculating errors, calculating uncertainty of a measurement), analog and digital methods used for measuring time, frequency and phase shift, use of a reflectometry in a coaxial cable, description of multimeters and digital oscilloscopes. Digital-to-analog converters in measurement systems. |
| ADDITIONAL INFORMATION: | Requirements: knowledge of electronic symbols, units and basic components (e.g. resistor, capacitor, diode etc.), standards of electrical and physical quantities.  Finished courses: theory of signals and networks, metrology fundamentals |

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