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| FACULTY: | **Faculty of Mechanical and Energy Engineering** |
| FIELD OF STUDY: | **Mechatronics** |
| ERASMUS COORDINATOR OF THE FACULTY: | Igor Maciejewski, DSc, PhD |
| E-MAIL ADDRESS OF THE COORDINATOR: | igor.maciejewski@tu.koszalin.pl |
| COURSE TITLE: | **Electronic systems and components in mechatronics** |
| LECTURER’S NAME: | Sebastian Pecolt, Eng. PhD |
| E-MAIL ADDRESS OF THE LECTURER: | sebastian.pecolt@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 4 |
| ACADEMIC YEAR: | 2024/2025 |
| SEMESTER: (W – winter, S – summer) | S |
| HOURS IN SEMESTER: | 30+15=45 |
| LEVEL OF THE COURSE:  (1st cycle, 2nd cycle, 3rd cycle) | 1st cycle |
| TEACHING METHOD:  (lecture, laboratory, group tutorials, seminar, other-what type?) | Lessons (30 h) + classes (15 h) |
| 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?) | oral exam, class test |
| COURSE CONTENT: | Learning basic electronic components and analog electronic components. Understanding the methods of description, analysis and configuration of electronic devices for creating and transforming signals.  Passive and active semiconductor devices. Transistor Amplifiers. Electronic power supplies. Passive and active filters. Sinusoidal oscillators and waveform generators.  Power amplifiers. Digital-to-analog and analog-to-digital converters. |
| ADDITIONAL INFORMATION: | Code 0921>1400-EiUEwM |