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| FACULTY: | **Faculty of Mechanical Engineering** |
| FIELD OF STUDY: | **Mechatronics** |
| ERASMUS COORDINATOR OF THE FACULTY: | Igor Maciejewski |
| E-MAIL ADDRESS OF THE COORDINATOR: | igor.maciejewski@tu.koszalin.pl |
| COURSE TITLE: | **Digital technology in mechatronics** |
| LECTURER’S NAME: | dr inż. Sebastian Pecolt |
| E-MAIL ADDRESS OF THE LECTURER: | sebastian.pecolt@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 3 |
| ACADEMIC YEAR: | 2021/2022 |
| SEMESTER:  (W – winter, S – summer) | Summer |
| HOURS IN SEMESTER: | 45 h |
| 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: | Polish/English |
| ASSESSMENT METOD:  (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?) | class test |
| COURSE CONTENT: | The elements, digital logic circuits and digital systems used in modern electronic devices. Methods of description, analysis and design of combinational and sequential digital systems. The material includes the laws of logical algebra, logic gates, combinational logic circuits such as: half adders, full adders, multiplexers, demultiplexers, encoders and decoders also a sequential logic circuits such as circuits include clocks, flip-flops, bi-stabiles, counters, memories, and registers. |
| ADDITIONAL INFORMATION: |  |