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| FACULTY: | **Faculty of Electronics and Computer Science** |
| FIELD OF STUDY: | **Computer Science** |
| ERASMUS COORDINATOR OF THE FACULTY: | Marcin Walczak, PhD |
| E-MAIL ADDRESS OF THE COORDINATOR: | marcin.walczak@tu.koszalin.pl |
| COURSE TITLE: | **Microprocessor and Embedded systems** |
| LECTURER’S NAME: | Paweł Poczekajło, PhD |
| E-MAIL ADDRESS OF THE LECTURER: | pawel.poczekajlo@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 4 |
| COURSE CODE (USOS): | 0711>1200-MiSW |
| ACADEMIC YEAR: | 2024/2025 |
| SEMESTER: (W – winter, S – summer) | S |
| HOURS IN SEMESTER: | 45 |
| LEVEL OF THE COURSE:  (1st cycle, 2nd cycle, 3rd cycle) | 1st cycle |
| TEACHING METHOD:  (lecture, laboratory, group tutorials, seminar, other-what type?) | Lecture – 45h |
| 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 reports or presentation |
| COURSE CONTENT: | Microcontrollers Processors and Embedded Systems,  Introduction to Microcontrollers (AVR Family, Arduino Boards), Introduction to ATMega8 / ATMega16 / ATMega32 features, Introduction to ESP and ARM chips features, General purpose registers of AVR/ESP/ARM Controller, AVR/ESP/ARM Data Registers, Using of IO Ports, Parameters of Microcontrollers and Embedded Systems and they internal peripherals, Software and programing languages. |
| ADDITIONAL INFORMATION: | Requirements: hexadecimal and binary format, architecture of processors/controllers. |

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