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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: | **Laboratory of Microprocessor Technology** |
| LECTURER’S NAME: | Paweł Poczekajło, PhD |
| E-MAIL ADDRESS OF THE LECTURER: | pawel.poczekajlo@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 2 |
| COURSE CODE (USOS): | 0711>1200-TM-lab |
| ACADEMIC YEAR: | 2024/2025 |
| SEMESTER: (W – winter, S – summer) | W |
| HOURS IN SEMESTER: | 30 |
| 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 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?) | continuous assessment or project work |
| COURSE CONTENT: | Introduction to C for AVR, Statement, Function Programmer Strategy, Code structures and debugging, Code Flashing and execution.  IO Port programming, Control devices (dip-switch, key matrix), Display devices (LED, LCD, Seven Segment Display), Internal peripherals (Timer/Counter, Analog inputs), Sensor devices and they applications (temperature sensor, IR sensors), Other devices (i.e. beeper), Connections with RS232 (UART). |
| ADDITIONAL INFORMATION: | Requirements: Basic of C programming, microcontrollers circuits, circuits and electronic elements. |

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