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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: | **Laboratory of programmable controllers** |
| LECTURER’S NAME: | Paweł Znaczko, MSc |
| E-MAIL ADDRESS OF THE LECTURER: | pawel.znaczko@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 3 |
| ACADEMIC YEAR: | 2024/2025 |
| SEMESTER: (W – winter, S – summer) | S |
| 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?) | Laboratories (30h) |
| 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 / class test |
| COURSE CONTENT: | The goal of the course is to introduce students to issues related to programming of industrial controllers. Its task is to prepare all interested for independent configuration and programming of PLC logic controllers.  Course topics include:  • Discussion of the construction and properties of programmable controllers for various applications in the industry. Description of driver operation.  • Basic elements of the programming environment, program structure, coverage discussion. PLC programming languages.  • Practical exercises for establishing communication with the controller, configuration, programming and diagnostics.  • Good practices in programming industrial controllers and controllers. |
| ADDITIONAL INFORMATION: | Code 0921>1400-SP-lab |