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| FACULTY: | **Faculty of Electronics and Computer Science** |
| FIELD OF STUDY: | **Electronics and Telecommunications** |
| ERASMUS COORDINATOR OF THE FACULTY: | Marcin Walczak, PhD |
| E-MAIL ADDRESS OF THE COORDINATOR: | marcin.walczak@tu.koszalin.pl |
| COURSE TITLE: | **Computational Intelligence** |
| LECTURER’S NAME: | Adam Słowik, DSc, PhD |
| E-MAIL ADDRESS OF THE LECTURER: | adam.slowik@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 4 |
| COURSE CODE (USOS): | 0711>1200-IO |
| ACADEMIC YEAR: | 2025/2026 |
| 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 – 30h  Group tutorials – 15h |
| 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 METHOD:  (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?) | project work or written exam (depends on the student preferences) |
| COURSE CONTENT: | fuzzy logic, fuzzy sets, fuzzy control, fuzzification, defuzzification, fuzzy inference, model of artificial neuron, artificial neural networks, training of simple neuron, building of complex artificial neural networks, error back-propagation algorithm, practical applications of fuzzy control, practical applications of artificial neural networks. |
| ADDITIONAL INFORMATION: | materials for teaching – English books from computational intelligence topics, development environment and programming language depends on the student preferences. |

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