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| FACULTY: | **Faculty of Mechanical and Energy Engineering** |
| FIELD OF STUDY: | **Management and Production Engineering** |
| ERASMUS COORDINATOR OF THE FACULTY: | Łukasz Bohdal, DSc, PhD |
| E-MAIL ADDRESS OF THE COORDINATOR: | lukasz.bohdal@tu.koszalin.pl |
| COURSE TITLE: | **Operational Researches** |
| LECTURER’S NAME: | Agnieszka Kułakowska, DSc, PhD |
| E-MAIL ADDRESS OF THE LECTURER: | agnieszka.kulakowska@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 4 ECTS |
| COURSE CODE (USOS): | 8 |
| ACADEMIC YEAR: | 2024/2025 |
| SEMESTER: (W – winter, S – summer) | W |
| HOURS IN SEMESTER: | 15+15 |
| LEVEL OF THE COURSE:  (1st cycle, 2nd cycle, 3rd cycle) | 1st cycle |
| TEACHING METHOD:  (lecture, laboratory, group tutorials, seminar, other-what type?) | Lecture, practice |
| 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 exam |
| COURSE CONTENT: | Geometric method, simplex method, transport problem, upper-left corner method, smallest element method, VAM method, e-perturbation method, potential method, optimisation of processes, mathematical model, research object, results analysis, real problems in scientific environments |
| ADDITIONAL INFORMATION: | - |

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