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| FACULTY: | Department of Mechanical Engineering |
| FIELD OF STUDY: | Mechanics and Machine Building |
| ERASMUS COORDINATOR OF THE FACULTY: | Dr hab. inż. Agnieszka Kułakowska, Prof. PK |
| E-MAIL ADDRESS OF THE COORDINATOR: | agnieszka.kulakowska@tu.koszalin.pl |
| COURSE TITLE: | Modeling of manufacturing processes |
| LECTURER'S NAME: | Dr hab. inż. Łukasz Bohdal, Prof. PK |
| E-MAIL ADDRESS OF THE LECTURER: | lukasz.bohdal@tu.koszalin.pl |
| COURSE CODE (USOS): | 3 |
| ECTS POINTS FOR THE COURSE: | 5 ECTS |
| ACADEMIC YEAR: | 2026/2027 |
| SEMESTER: (W – winter, S – summer) | W |
| HOURS IN SEMESTER: | 15 + 15 |
| LEVEL OF THE COURSE: (1 st cycle, 2 nd cycle, 3 rd cycle) | 1 st cycle |
| TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?) | Lecture + practice |
| LANGUAGE OF INSTRUCTION: | <ul style="list-style-type: none"> • 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: | The scope of the course includes the following topics: Basic concepts related to the modeling of manufacturing processes. Mathematical and physical modeling of manufacturing processes. The concept of incremental description. Methods of solving equations of motion of continuous and discrete objects. Simulation of chosen manufacturing processes using FEM and CAE software. |
| ADDITIONAL INFORMATION: | |

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