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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: | **Material science II** |
| LECTURER’S NAME: | Tomasz Rydzkowski, DSc, PhD  Mieczysław Pancielejko, Eng. PhD. |
| E-MAIL ADDRESS OF THE LECTURER: | Tomasz.rydzkowski@tu.koszalin.pl; mieczyslaw.pancielejko@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 2 ECTS |
| COURSE CODE (USOS): | 5S |
| ACADEMIC YEAR: | 2024/2025 |
| SEMESTER: (W – winter, S – summer) | S |
| HOURS IN SEMESTER: | 15 |
| 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?) | Written exam |
| COURSE CONTENT: | 1. Study of structure and mechanical properties of the armco iron after crusching and recrystallization 2. Microscopic examination of iron and iron alloys 3. Microscopic examination of non-ferrous metals and their alloys 4. Investigating the effect of heat treatment on the structure of tool steel 5. Testing the strength of ceramics on flexural strength 6. Study on mechanical properties of thermosetting polymers |
| ADDITIONAL INFORMATION: | - |

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