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| FACULTY: | Faculty of Mechanical and Energy Engineering |
| FIELD OF STUDY: | Management and Production Engineering |
| ERASMUS COORDINATOR OF THE FACULTY: | Dr hab. inż. Łukasz Bohdal, prof. P.K. |
| E-MAIL ADDRESS OF THE COORDINATOR: | lukasz.bohdal@tu.koszalin.pl |
| COURSE TITLE: | Material strength |
| LECTURER’S NAME: | Dr hab. inż. Agnieszka Kułakowska, prof. P.K. |
| E-MAIL ADDRESS OF THE LECTURER: | agnieszka.kulakowska@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 5,5 ECTS |
| COURSE CODE (USOS): | 6S |
| ACADEMIC YEAR: | 2025/2026 |
| SEMESTER:  (W – winter, S – summer) | S |
| HOURS IN SEMESTER: | 30,30, 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, 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: | Introduction. Health and safety information in the laboratory. Presentation of the general scope of the laboratory exercises.  Impact bending test.  Static tensile and compression test.  Analysis of stress and strain in the straight rod during bending test using numerical analysis.  Moments of inertia of cross-sectional plane - numerical exercise.  Determination of forces and stresses in a plane truss rods - numerical exercise.  Analysis of stress and strain in the beam statically indeterminate. |
| ADDITIONAL INFORMATION: |  |

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