|  |  |
| --- | --- |
| 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](mailto:agnieszka.kulakowska@tu.koszalin.pl) |
| COURSE TITLE: | Material strength |
| LECTURER’S NAME: | Dr hab. inż. Agnieszka Kułakowska, Prof. PK |
| E-MAIL ADDRESS OF THE LECTURER: | [agnieszka.kulakowska@tu.koszalin.pl](mailto:agnieszka.kulakowska@tu.koszalin.pl) |
| COURSE CODE (USOS): | 5S |
| ECTS POINTS FOR THE COURSE: | 5,5 ECTS |
| ACADEMIC YEAR: | 2023/2024 |
| 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?) | Lectures, Practice, Laboratory |
| LANGUAGE OF INSTRUCTION: | English, Polish, (separate group with English depends from number of the incoming students) |
| 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: |  |

………………………………………………………………..