

| | |
|--|--|
| FACULTY: | Faculty of Technology and Education |
| FIELD OF STUDY: | Materials Science and Engineering |
| COURSE TITLE: | Strength of Materials |
| LECTURER'S NAME: | dr hab. inż. Bogdan Wilczyński, University Professor |
| E-MAIL ADDRESS OF THE LECTURER: | bogdan.wilczynski@tu.koszalin.pl |
| ECTS POINTS FOR THE COURSE: | 5 |
| ACADEMIC YEAR: | 2015/2016 |
| SEMESTER: (W – winter, S – summer) | W |
| HOURS IN SEMESTER: | 30+30=60 |
| 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?) | Lectures (30h), Classes (30h) |
| LANGUAGE OF INSTRUCTION: | English |
| ASSESSMENT METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?) | Written exam, class test |
| COURSE CONTENT: | The course covers the following topics: tension and compression, geometrical properties of cross-sections, torsion of circular shafts, bending moments and shearing forces, stresses in beams, deflections of beams, shearing stresses in beams, energy methods, statically intermediate beams, buckling of columns and beams, complex stress state, strength criteria, the finite element method. |
| ADDITIONAL INFORMATION: | Required knowledge – mechanics, differential and integral calculus. |
| RECOMMENDED LITERATURE | |