FACULTY:	Department of Mechanical Engineering
FIELD OF STUDY:	Mechanics and Machine Building
ERASMUS COORDINATOR OF THE FACULTY:	Prof. nadzw. dr hab. inż. Agnieszka Kułakowska
E-MAIL ADDRESS OF THE COORDINATOR:	Prof. nadzw. dr hab. inż. Agnieszka Kułakowska
COURSE TITLE:	Material strength
LECTURER'S NAME:	Prof. nadzw. dr hab. inż. Agnieszka Kułakowska
E-MAIL ADDRESS OF THE LECTURER:	agnieszka.kulakowska@tu.koszalin.pl
ECTS POINTS FOR THE COURSE:	4 ECTS
ACADEMIC YEAR:	2020/2021
SEMESTER: (W – winter, S – summer)	W
HOURS IN SEMESTER:	30+30
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:	English
ASSESSMENT METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	Written exam
COURSE CONTENT:	Basic concepts and determine the strength of materials. The concept of strain - strain of pure volume, purely amorphous. Elements of the theory of elasticity of the elastic properties of the material, the strength properties of the material. Hooke's law for simple stretching. Tension and compression of straight bars. Bending simple beams. Pure bending of simple beams with the participation of shear forces. Torsion bars. Analysis of stress and strain. Complex strength. Determination of stress and strains- Hooke's law. Quantitative analysis of straight bars statically determinate and statically indeterminate in tension and compression. Analysis of bending a straight bar. Determination of stresses in a bending bar. Determination of stresses in the beams. Bending diagonal beams. The graphs of bending moments, shear forces and normal stress determination within the framework of statically determinate
ADDITIONAL INFORMATION:	

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