

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
COURSE TITLE:	Material strength
LECTURER'S NAME:	Dr hab. inż. Agnieszka Kułakowska, Prof. PK
E-MAIL ADDRESS OF THE LECTURER:	<a href="mailto:agnieszka.kulakowska@tu.koszalin.pl">agnieszka.kulakowska@tu.koszalin.pl</a>
COURSE CODE (USOS):	5S
ECTS POINTS FOR THE COURSE:	6 ECTS
ACADEMIC YEAR:	2026/2027
SEMESTER: (W – winter, S – summer)	S
HOURS IN SEMESTER:	30+30+15
LEVEL OF THE COURSE: (1 <sup>st</sup> cycle, 2 <sup>nd</sup> cycle, 3 <sup>rd</sup> cycle)	1 <sup>st</sup> cycle
TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?)	Lectures, Practice, Laboratory
LANGUAGE OF INSTRUCTION:	<ul style="list-style-type: none"> <li>• English full time scheme for classes with 5 and more international Erasmus+ students enrolled/accepted;</li> <li>• 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;</li> </ul>
ASSESSMENT METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	Written exam
COURSE CONTENT:	<p>Introduction. Health and safety information in the laboratory. Presentation of the general scope of the laboratory exercises.</p> <p>Impact bending test.</p> <p>Static tensile and compression test.</p> <p>Analysis of stress and strain in the straight rod during bending test using numerical analysis.</p> <p>Moments of inertia of cross-sectional plane - numerical exercise.</p> <p>Determination of forces and stresses in a plane truss rods - numerical exercise.</p> <p>Analysis of stress and strain in the beam statically indeterminate.</p>
ADDITIONAL INFORMATION:	

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