

FACULTY:	Department of Mechanical Engineering
FIELD OF STUDY:	Mechanics and Machine Building
ERASMUS COORDINATOR OF THE FACULTY:	Dr hab. inż. Agnieszka Kułakowska, Prof. PK
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COURSE TITLE:	Modeling of manufacturing processes
LECTURER'S NAME:	Dr hab. inż. Łukasz Bohdal, Prof. PK
E-MAIL ADDRESS OF THE LECTURER:	<a href="mailto:lukasz.bohdal@tu.koszalin.pl">lukasz.bohdal@tu.koszalin.pl</a>
COURSE CODE (USOS):	3
ECTS POINTS FOR THE COURSE:	3 ECTS
ACADEMIC YEAR:	2024/2025
SEMESTER: (W – winter, S – summer)	W
HOURS IN SEMESTER:	15 + 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?)	Lecture + practice
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 METHOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	Written exam
COURSE CONTENT:	The scope of the course includes the following topics: Basic concepts related to the modeling of manufacturing processes. Mathematical and physical modeling of manufacturing processes. The concept of incremental description. Methods of solving equations of motion of continuous and discrete objects. Simulation of chosen manufacturing processes using FEM and CAE software.
ADDITIONAL INFORMATION:	

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