

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:	<a href="mailto:agnieszka.kulakowska@tu.koszalin.pl">agnieszka.kulakowska@tu.koszalin.pl</a>
COURSE TITLE:	Operational Researches
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):	11
ECTS POINTS FOR THE COURSE:	4 ECTS
ACADEMIC YEAR:	2025/2026
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 METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	Written exam
COURSE CONTENT:	Geometric method, simplex method, transport problem, upper-left corner method, smallest element method, VAM method, e-perturbation method, potential method, optimisation of processes, mathematical model, research object, results analysis, real problems in scientific environments
ADDITIONAL INFORMATION:	

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