

FACULTY:	Faculty of Electronics and Computer Science
FIELD OF STUDY:	Computer Science
ERASMUS COORDINATOR OF THE FACULTY:	Robert Wirski, PhD
E-MAIL ADDRESS OF THE COORDINATOR:	<a href="mailto:robert.wirski@tu.koszalin.pl">robert.wirski@tu.koszalin.pl</a>
COURSE TITLE:	Computer Architecture and Operating Systems
LECTURER'S NAME:	Dariusz Gretkowski, PhD
E-MAIL ADDRESS OF THE LECTURER:	<a href="mailto:dariusz.gretkowski@tu.koszalin.pl">dariusz.gretkowski@tu.koszalin.pl</a>
ECTS POINTS FOR THE COURSE:	3
ACADEMIC YEAR:	2021/2022
SEMESTER: (W – winter, S – summer)	S
HOURS IN SEMESTER:	30
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 – 30h
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METHOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	Written exam or class test
COURSE CONTENT:	Architecture of the computer system. Types of memory and types of addressing in computer systems. Pipelined and scalar instruction processing. Structure and functioning of the coprocessor. Structure and functioning of MMX, SSE, and AVX blocks. Functional - structural organization of the computer system. Architectures of arithmetic and logic systems. Systems controlling the operation of a computer system. Microprogram control blocks. Structures of various microprogram control blocks with absolute and relative addressing. Architex program for designing and simulating a computer system. The concept of the operating system (structure, main tasks, and common issues).
ADDITIONAL INFORMATION:	

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