University of Gdańsk

Subject card

Subject name and code	Domain-specific IT Solutions, PG_00178144		
Field of study	Informatics and Econometrics		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2027/2028
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study
Mode of study	part-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	4	ECTS credits	2.0
Learning profile	academic	Assessment form	credit
Conducting unit	Department of Business Informatics -> Faculty of Management -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Dorota Buchnowska, prof. UG	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	8.0	0.0	0.0	0.0	0.0	8

E-learning hours included: 0.0

Learning activity and number of study hours

Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
Number of study hours	8	1.0	41.0	50

Subject objectives

Familiarize students with the concept of enterprise architecture. Teach students to build enterprise architecture using the ArchiMate enterprise architecture modeling language.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[IiEL3_W08] Has advanced knowledge and understanding of the possibilities and dilemmas of using informatics and statistics tools and their importance in the context of changing needs	The student knows and understands the fundamental elements of the ArchiMate language for enterprise architecture modeling and understands how to analyze selected aspects of its structure and functionality using IT tools.	[SW2] presentation/project/paper/ report
[IiEL3_U12] Can design and implement IT systems to enhance business operations and effectively utilize modern ICT technologies for management and business communication	The student is able to design the logical architecture of an enterprise information system, implement architectural models aligned with business requirements, and integrate modern ICT technologies to support organizational management and communication.	[SU2] presentation/project/paper/ report

Subject contents

The subject introduces the enterprise architecture concept and teaches students to build enterprise architecture using enterprise architecture modeling language ArchiMate

Prerequisites and co-requisites

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Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
the final project	51.0%	100.0%

Recommended reading

Basic literature	Fundamentals of Enterprise Architecture, by Tanu McCabe, ORreilly, 2024

	Supplementary literature	Digital Enterprises: Service-Focused, Digitally-Powered, Data-Fueled Editors: Henderik A. Proper, Bas van Gils, Kazem Haki, Springer 2023
	eResources addresses	
Example issues/ example questions/ tasks being completed	Developing Application layer enterprise architecture for a company in Archimate	
Work placement	Not applicable	

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