GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Informatics, PG_00061893		
Field of study	Materials Engineering		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2026/2027
Education level	first-cycle studies	Subject group	Obligatory subject group in the field of study
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	Polish
Semester of study	1	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Corrosion and Electrochemistry -> Faculty of Chemistry -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Łukasz Gaweł	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	30.0	0.0	0.0	30

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	30	5.0	15.0	50

Subject objectives

Mastering the Excel spreadsheet at an advanced level by learning how to process experimental data, its statistical analysis, and the use of charts and pivot tables. Additionally, the use of the Word and PowerPoint will be discussed.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_W01] has advanced knowledge of mathematics, useful for formulating and solving complex problems in materials science	The student has knowledge of statistical analysis, regression equations and how to use them correctly for experimental data	[SW1] Assessment of factual knowledge
[K6_W05] has knowledge of mechanics, technology, and electrical engineering, including engineering graphics, as well as the use of computer-aided design and databases in the design of technological processes	The student has knowledge of computer operation, extension files for various purposes, and how to process them.	[SW1] Assessment of factual knowledge
[K6_U04] is able to use information and communication technologies appropriate for performing typical engineering tasks, and to apply known mathematical and physical models and methods to describe and explain chemical phenomena and processes	The student is able to use various software to analyze and process experimental data.	[SU4] Assessment of ability to use methods and tools

Subject contents

Course content – laboratory

Use of spreadsheets in practice, discussion of MS Office and related packages.
Regression lines, creating charts, pivot tables.

<table>
<tr><td>Prerequisites and co-requisites</td><td colspan="3">Basic knowledge of mathematics, function flow and statisticsBasic knowledge of using computers and peripheral devicesKnowledge of using the Windows environment</td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>laboratory</td><td>60.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">Microsoft Excel 2013. Step by step - CONT. Frye
Excel 2016 PL. Programming in VBA - A. Michael, R. Kuslejka</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">Online documentation, courses and step-by-step videos available on the Internet on popular websites.</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3">Description of experimental data using regression functions.
Using the if function.
Statistical analysis of experimental data.</td></tr>
<tr><td>Practical activites within the subject</td><td colspan="3">Not applicable</td></tr>
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