1.	Field of study	Materials Science and Engineering
2.	Faculty	Faculty of Science and Technology
3.	Academic year of entry	2023/2024 (winter term), 2024/2025 (winter term)
4.	Level of qualifications/degree	first-cycle studies (in engineering)
5.	Degree profile	general academic
6.	Mode of study	full-time

7. General information about the	General information about the module		
Module name	Diploma Laboratory 2		
Module code	IM1A_PD_2		
Number of the ECTS credits	9		
Language of instruction			
Purpose and description of the content of education	The Diploma Laboratory 2 module shall enable students completing actions related to the preparation of the diploma thesis (carrying out the tests, project execution, proposing/executing a model). Owing to that students will be capable of starting the analysis and processing of the obtained results.		
List of modules that must be completed before starting this module (if necessary)	not applicable		

8. Learning	arning outcomes of the module					
Code	Description	Learning outcomes of the programme	Level of competent (scale 1-5)			
IM1A_PD2_1	Mastering the skill to perform an experiment for diploma theses at the engineer level in the field of materials engineering.	IM1A_K02	3			
		IM1A_U05	3			
		IM1A_U06	3			
IM1A_PD2_2	Mastering the research techniques used at the engineer diploma thesis preparation.	IM1A_U05	3			
		IM1A_U06	3			
		IM1A_U10	3			
IM1A_PD2_3	The skill to plan and implement individual stages of the prepared diploma thesis.	IM1A_K04	3			
		IM1A_U03	3			
		IM1A_U07	3			
		IM1A_U08	3			
		IM1A_U09	3			

9.	Methods of conducting classes			
	Code	Category	Name (description)	
d03		Programmed learning methods	Working with another teaching tool	

		e.g. using websites in any way or according to the rules set by the teacher; or making use of other subject-specific tools		
e01	Practical methods	Laboratory exercise / experiment [also conducted as fieldwork] a method of practical application of knowledge; implemented in three stages: the recognition of a problem induced by the task content, the formulation of the problem and the attempt to solve it accompanied by the assessment of the effects; the goal is to acquire skills, abilities and habits, and to consolidate the acquired knowledge so that it becomes operational; the laboratory method assumes greater independence of learners than carrying out an experiment		
e04		Project scheduling proceeding according to the steps proposed within a specific methodology for the completion of a task; e.g., identifying project objectives, determining the result, identifying strengths, limitations, opportunities and threats (SWOT), establishing a schedule of activities, assessing resources, establishing an implementation plan; the initial diagnosis; the reassessment of assumptions; the process of preparing the practical implementation of a project		
f01	Methods of self-learning	Self-education a method which involves independent acquisition of knowledge, skills and social competences, extending their scope and quality; complementary to the learning process taking place in class; taking on the task of developing and adjusting qualifications on one's own; self-study		

10.	Forms of teaching						
	Code	Name		Assessment of the learning outcomes of the module	Learning outcomes of the module	Methods of conducting classes	
IM1	A_PD2_fs1	tutoring	70		IM1A_PD2_1, IM1A_PD2_2, IM1A_PD2_3	d03, e01, e04, f01	

11. The student's work, apart from participation in classes, includes in particular:				
Code	Category	Name (description)	Is it part of the BUNA?	
a01	Preparation for classes	Search for materials and review activities necessary for class participation reviewing literature, documentation, tools and materials as well as the specifics of the syllabus and the range of activities indicated in it as required for full participation in classes	No	
a02	Preparation for classes	Literature reading / analysis of source materials reading the literature indicated in the syllabus; reviewing, organizing, analyzing and selecting source materials to be used in class	No	
a03	Preparation for classes	Developing practical skills activities involving the repetition, refinement and consolidation of practical skills, including those developed during previous classes or new skills necessary for the implementation of subsequent elements of the curriculum (as preparation for class participation)	No	
a05	Preparation for classes	Production/preparation of tools, materials or documentation necessary for class participation developing, preparing and assessing the usefulness of tools and materials (e.g. aids, scenarios, research tools, equipment, etc.) to be employed in class or as an aid when preparing for classes	No	
b01	Consulting the curriculum and the organization of classes	Getting acquainted with the syllabus content reading through the syllabus and getting acquainted with its content	Yes	
c02	Preparation for verification of learning outcomes	Studying the literature used in and the materials produced in class exploring the studied content, inquiring, considering, assimilating, interpreting it, or organizing knowledge obtained from the literature, documentation, instructions, scenarios, etc., used in class as well as from the notes or other materials/artifacts made in class	No	

d01	learning outcomes	Analysis of the corrective feedback provided by the academic teacher on the results of the verification of learning outcomes reading through the academic teacher's comments, assessments and opinions on the implementation of the task aimed at checking the level of the achieved learning outcomes	Yes
d02	learning outcomes	Development of a corrective action plan as well as supplementary/corrective tasks reviewing and selecting tasks and activities enabling the elimination of errors indicated by the academic teacher, their verification or correction resulting in completing the task with at least the minimum passing grade	Yes

Information on the details of the module implementation in a given academic year can be found in the syllabus available in the USOS system: https://usosweb.us.edu.pl.