GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Preparation fot the diploma, PG_00061747		
Field of study	Recycling and Energy Recovery		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2025/2026
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	3	Language of instruction	Polish
Semester of study	6	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Chemistry Technology and Biotechnology of Food -> Faculty of Chemistry -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Robert Tylingo	
	Teachers	dr hab. inż. Robert Tylingo dr inż. Szymon Mania dr inż. Adrianna Banach-Kopeć Karol Staszczyk	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	0.0	0.0	20.0	20

E-learning hours included: 0.0

eNauczanie source addresses:

Moodle ID: 5225 Przygotowanie do dyplomu
https://enauczanie.pg.edu.pl/2025/course/view.php?id=5225

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	20	2.0	28.0	50

Subject objectives

The course aims to prepare students for the independent, formally correct and substantively sound development of the assumptions of an engineering diploma thesis and for effective presentation of its concept. During the seminar, students become familiar with the requirements concerning the structure, editing and ethics of thesis preparation, the rules of searching for, critically analysing and documenting literature, and methods of planning the scope, objectives, methodology and schedule of the diploma project. The course also develops communication skills necessary for preparing presentations and discussing an engineering problem in public.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_W02] analyzes engineering and technological issues and problems in the area of raw materials and energy recovery using appropriate and appropriate analytical, numerical and experimental tools and methods	The student identifies the engineering problem that constitutes the subject of the planned diploma thesis, analyses its conditions, and justifies the selection of an analytical, numerical, experimental or design approach appropriate to the field of raw material and energy recovery.	[SW3] Assessment of knowledge contained in written work and projects
[K6_K04] effectively, clearly and unambiguously communicates information, describes activities and communicates their results/ outcomes to engineers or the wider public using appropriate communication methods and tools.	The student prepares and delivers a well-structured presentation of the diploma thesis concept using correct technical terminology, proper citation rules and appropriate visual communication tools; the student is able to answer questions clearly and justify the adopted assumptions.	[SK2] Assessment of progress of work
[K6_W06] integrates and extracts data from multiple sources to analyze complex engineering and technology problems.	The student searches for, selects, evaluates the credibility of and integrates information from databases, scientific publications, standards, legal acts and other technical sources in order to build the theoretical background of the diploma thesis.	[SW3] Assessment of knowledge contained in written work and projects
[K6_K03] is committed to independent lifelong learning and independently follows the development of science and technology, especially in the area of recycling raw materials and energy.	The student independently supplements the knowledge necessary to complete the diploma thesis, uses a reference manager, follows the principles of academic integrity and systematically develops the competences needed for further learning in the field of raw material and energy recovery.	[SK4] Assessment of communication skills, including language correctness
[K6_U02] solves engineering issues and problems in the area of raw materials and energy recovery through the use of appropriate analytical, numerical and experimental tools and methods.	The student formulates the topic, objective, scope and structure of the diploma thesis, prepares a preliminary implementation plan and an organised bibliography, and then proposes a methodology for solving the selected engineering issue in accordance with formal and substantive requirements.	[SU3] Assessment of ability to use knowledge gained from the subject

Subject contents

Course content – seminar
Seminar: the role and scope of an engineering diploma thesis; diploma rules at the Faculty of Civil and Environmental Engineering of Gdańsk University of Technology, the timetable for thesis preparation and the diploma examination; formal, editorial and ethical requirements for the thesis, including documentation of progress and anti-plagiarism rules; the structure of the thesis, formulation of the topic, objective, scope and research questions/problems; selection of analytical, numerical, experimental or design methods appropriate to the problem; sources of scientific and technical information, databases, and the rules for searching, selecting and critically analysing literature; citation, paraphrasing, footnotes and bibliography preparation, including the use of a reference manager; preparation of a work plan and preliminary bibliography; principles of preparing a presentation on the diploma thesis; individual student presentations, seminar discussion and feedback.

Prerequisites and co-requisites

Students should have basic knowledge of engineering issues related to raw material and energy recovery, be able to use basic scientific and technical information sources as well as editing and presentation tools. The ability to prepare short written and oral statements, readiness for independent work and systematic completion of tasks are required. Knowledge of English sufficient to read specialist literature is recommended.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Evaluation of the presentation	60.0%	100.0%

Recommended reading	Basic literature	Wydział Inżynierii Lądowej i Środowiska Politechniki Gdańskiej, Szczegółowe zasady dyplomowania i przeprowadzania egzaminów dyplomowych na Wydziale Inżynierii Lądowej i Środowiska Politechniki Gdańskiej. Studia inżynierskie (pierwszego stopnia) i studia magisterskie (drugiego stopnia), Gdańsk, b.r. Weiner January, Maciej; Weiner January, Mikołaj, Technika pisania i prezentowania przyrodniczych prac naukowych, Wydawnictwo Naukowe PWN, Warszawa, 2018. Council of Science Editors, The CSE Manual: Scientific Style and Format for Authors, Editors, and Publishers, 9th ed., The University of Chicago Press, Chicago, 2024.
	Supplementary literature	Reviewed scientific publications
	eResources addresses	
Example issues/ example questions/ tasks being completed	Formulating the topic, objective, scope and expected outcome of the diploma thesis. Selecting and justifying analytical, numerical, experimental or design methods for the chosen problem. Searching for and critically evaluating at least 10 scientific and technical sources related to the thesis topic. Preparing an outline of the thesis with a proposed chapter structure and implementation schedule. Developing sample citations, paraphrases and a bibliography using a reference manager. Preparing and delivering a short presentation of the diploma thesis concept together with answers to seminar questions. Identifying formal and ethical errors in sample thesis excerpts, e.g. incorrect citation or plagiarism risk. Formulating answers to sample problem-based questions related to the planned engineering thesis topic.	
Practical activites within the subject	Not applicable	

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