

1.	Field of study	Aquamatics - Interdisciplinary Management of Water Environments
2.	Faculty	Faculty of Natural Sciences
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 module	
Module name		Diploma thesis 1
Module code		W2-AQ-S1-050
Number of the ECTS credits		6
Language of instruction		Polish
Purpose and description of the content of education		Moduł Praca dyplomowa ma zapewnić studentowi czas potrzebny na tworzenie tekstu pracy, wykonywanie obliczeń, materiału ilustracyjnego, dodatkowe studia literatury oraz dyskusję z promotorem lub opiekunem naukowym zagadnień i problemów napotykanym przy realizacji celu naukowego pracy, uzyskiwanie wskazówek do dalszych działań, wyjaśnianie wątpliwości oraz weryfikację poprawności bieżącej pracy. Obejmuje również przygotowanie wystąpień (prezentacji) na Seminarium inżynierskim.
List of modules that must be completed before starting this module (if necessary)		[W2-AQ-S1-021] GIS 1 [W2-AQ-S1-022] GIS 2 [W2-AQ-S1-015] Water status and resources monitoring [W2-AQ-S1-018] Basics of chemical analytics [W2-AQ-S1-023] Basics of data analysis [W2-AQ-S1-012] Basics of chemistry [W2-AQ-S1-014] Basics of ecology [W2-AQ-S1-031] Basics of ecotoxicology [W2-AQ-S1-011] Basics of engineering geology [W2-AQ-S1-008] Basics of hydrobiology [W2-AQ-S1-010] Basic of hydrogeology [W2-AQ-S1-009] Basics of hydrology [W2-AQ-S1-025] Basics of hydrotechnics [W2-AQ-S1-034] Basics of ichtyology [W2-AQ-S1-007] Basics of computer science and network security [W2-AQ-S1-005] Basics of mathematics and statistics 1 [W2-AQ-S1-016] Basics of meteorology and climatology [W2-AQ-S1-032] Basics of chemometric methods [W2-AQ-S1-017] Basics of aquatic microbiology [W2-AQ-S1-024] Basics of environmental protection [W2-AQ-S1-020] Basics of water reclamation and renaturalisation [W2-AQ-S1-019] Basic principles of documentation preparation [W2-AQ-S1-026] Engineering project 1 [W2-AQ-S1-027] Engineering project 2 [W2-AQ-S1-030] Engineering proseminar [W2-AQ-S1-045] Basics of hydrogeology - field classes

[W2-AQ-S1-046] Basics of hydrology - field classes

8. Learning outcomes of the module

Code	Description	Learning outcomes of the programme	Level of competence (scale 1-5)
W2-AQ-S1-050_1	Ma szczegółową wiedzę związaną z tematyką pracy dyplomowej, jej powiązań z innymi komponentami w aspekcie przyrodniczym, gospodarczym, ekonomicznym, prawnym i etycznym, wie jakie technologie może zastosować do realizacji celu naukowego oraz gdzie i na jakich zasadach może uzyskać do nich dostęp.	AQ1_U01	4
		AQ1_U03	4
		AQ1_W08	4
W2-AQ-S1-050_2	Zapoznał się z literaturą naukową konieczną do realizacji pracy dyplomowej, sprawnie i zgodnie z zasadami etyki ją wykorzystuje, potrafi robić notatki, omówienia, kwerendy, korzystać z archiwaliów, baz danych.	AQ1_U03	4
		AQ1_U11	4
		AQ1_W02	4

9. Methods of conducting classes

Code	Category	Name (description)
d01	Programmed learning methods	Working with a computer <i>e.g., Webquest; implementation of educational tasks using electronic and digital devices, computer programs and Internet applications; the academic teacher acts as a consultant; students' work is carried out step by step according to the plan laid own by the person teaching the course and following his instructions, and proceeds towards producing the indicated results within the set deadline</i>
d03	Programmed learning methods	Working with another teaching tool <i>e.g. using websites in any way or according to the rules set by the teacher; or making use of other subject-specific tools</i>
e03	Practical methods	Creation/production – creative workshop <i>an activity involving creating/producing a work/artifact based on the individual, creative effort of the participant; the creative workshop is characterized by the presence and openness which make it possible to access the essence of the work/ peculiarity of the artifact at every stage of its creation/production</i>

10. Forms of teaching

Code	Name	Number of hours	Assessment of the learning outcomes of the module	Learning outcomes of the module	Methods of conducting classes
W2-AQS1-050_fs_1	practical classes	5	course work	W2-AQ-S1-050_1, W2-AQ-S1-050_2	d01, d03, e03

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 <i>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</i>	No
a02	Preparation for classes	Literature reading / analysis of source materials <i>reading the literature indicated in the syllabus; reviewing, organizing, analyzing and selecting source materials to be used in class</i>	No

a04	Preparation for classes	Consulting materials complementary to those indicated in the syllabus <i>agreeing on materials complementary to those indicated in the syllabus, supporting the implementation of tasks resulting from or necessary for class participation</i>	No
a05	Preparation for classes	Production/preparation of tools, materials or documentation necessary for class participation <i>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</i>	No
b01	Consulting the curriculum and the organization of classes	Getting acquainted with the syllabus content <i>reading through the syllabus and getting acquainted with its content</i>	No
b03	Consulting the curriculum and the organization of classes	Consulting the schedule <i>getting acquainted with the class schedule, possibly in the presence of the year tutor, in order to optimize participation in classes, including those supplementary to the core subjects listed in the pursued study programme</i>	No
c01	Preparation for verification of learning outcomes	Determining the stages of task implementation contributing to the verification of learning outcomes <i>devising a task implementation strategy embracing the division of content, the range of activities, implementation time and/or the method(s) of obtaining the necessary materials and tools, etc.</i>	No
c03	Preparation for verification of learning outcomes	Implementation of an individual or group assignment necessary for course/phase/ examination completion <i>a set of activities aimed at performing an assigned task, to be executed out of class, as an obligatory phase/element of the verification of the learning outcomes assigned to the course</i>	No
d01	Consulting the results of the verification of learning outcomes	Analysis of the corrective feedback provided by the academic teacher on the results of the verification of learning outcomes <i>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</i>	Yes
e01	Activities complementary to the classes	Undertaking, on one's own initiative and individually, activities aimed at expanding the scope or depth of the teaching content, also beyond the walls of the University <i>a set of activities undertaken independently and on the student's own initiative, aimed at expanding the depth and scope of knowledge and skills, their revision and repetition, retention or verification, also activities carried outside the university, e.g., in a culture promoting or educational institution, a laboratory, in the open air, etc.; also self-education</i>	No

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>.