

1.	Field of study	Water Management - Aquamatics
2.	Faculty	Faculty of Natural Sciences
3.	Academic year of entry	2025/2026 (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		Basics of computer science and network security
Module code		W2-GW-AQ-S1-007
Number of the ECTS credits		4
Language of instruction		Polish
Purpose and description of the content of education		Moduł ma za zadanie zapoznać studenta z szeroko pojętymi zasadami bezpieczeństwa IT, pracy w Internecie i Intranecie, zasadami działania komputerów, serwerów, usług, chmur, Internetu, pracy zdalnej oraz zaznajomienie studenta z zasadami i problematyką własności intelektualnej. Przedmiot umożliwi wprowadzenie studenta w zasoby Uniwersytetu Śląskiego w Katowicach w tym zasoby biblioteczne oraz dostępne oprogramowanie (Statistica).
List of modules that must be completed before starting this module (if necessary)		not applicable

8.	Learning outcomes of the module		
Code	Description	Learning outcomes of the programme	Level of competenc (scale 1-5)
W2-GW-AQ-S1-007_1	Zna i rozumie podstawowe zasady bezpieczeństwa pracy z danymi, programami i systemami operacyjnymi.	GW-AQ1_W01	5
W2-GW-AQ-S1-007_3	Zna pojęcie prywatności w oprogramowaniu i serwisach internetowych.	GW-AQ1_U08 GW-AQ1_W01 GW-AQ1_W08	5 5 5
W2-GW-AQ-S1-007_4	Zna problematykę licencji oprogramowania i legalności oprogramowania (użytek domowy, użytek prywatny, użytek biznesowy).	GW-AQ1_U08 GW-AQ1_W01 GW-AQ1_W08	5 5 5
W2-GW-AQ-S1-007_5	Zna i rozumie zasady działania Internetu, sieci, chmur, serwerów.	GW-AQ1_W06	3
W2-GW-AQ-S1-007_6	Umie dobrać odpowiednie narzędzie pracy zdalnej do aktualnych potrzeb.	GW-AQ1_U02 GW-AQ1_U03 GW-AQ1_W08	5 5 5
W2-GW-AQ-	Umie wyszukać potrzebną informacji w Internecie zarówno z wykorzystaniem narzędzi Google jak i Youtube.		

S1-007_7		GW-AQ1_U02 GW-AQ1_U03 GW-AQ1_W08	5 5 5
W2-GW-AQ-S1-007_8	Zna zasoby (bazy danych, literatura) i udostępnione programy Uniwersytetu Śląskiego.	GW-AQ1_U02 GW-AQ1_U03 GW-AQ1_W08	3 3 3
W2-GW-AQ-S1-007_2	Potrafi wykorzystywać techniki informatyczne do realizacji zadań stawianych przyszłemu inżynierowi.	GW-AQ1_K05 GW-AQ1_U02 GW-AQ1_U11	3 2 2

9. Methods of conducting classes		
Code	Category	Name (description)
b01	Problem-solving methods	Problem-based lecture <i>an analysis of a selected scientific or practical problem accompanied by its assessment and an attempt to provide a solution to the issues presented in the lecture as well as the indication of the consequences of the proposed solution</i>
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>
e07	Practical methods	Simulation <i>an indirect method; imitating reality in order to gain experience approximating a real one; recreating a real-world situation so that its participant can acquire an experience close to the authentic one; work on "replacement" material</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-GW-AQ-007_fs_1	lecture	15	course work	W2-GW-AQ-S1-007_1, W2-GW-AQ-S1-007_3, W2-GW-AQ-S1-007_4, W2-GW-AQ-S1-007_5, W2-GW-AQ-S1-007_8	b01
W2-GW-AQ-007_fs_2	laboratory classes	30	course work	W2-GW-AQ-S1-007_2, W2-GW-AQ-S1-007_5, W2-GW-AQ-S1-007_6, W2-GW-AQ-S1-007_7, W2-GW-AQ-S1-007_8	d01, d03, e07

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
a03	Preparation for classes	Developing practical skills <i>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)</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
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

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>.