1.	**Field of study**	**Scientific Information and Library Science**
2.	Faculty	Faculty of Humanities
3.	Academic year of entry	2024/2025 (winter term)
4.	Level of qualifications/degree	first-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time

7.	**General information about the module**
Module name	**Physico-chemical analysis of library materials**
Module code	W1-BN-S1-OPAF03
Number of the ECTS credits	4
Language of instruction	Polish
Purpose and description of the content of education	During the module, students will acquire knowledge in the field of chemistry, physics, materials science and conservation of library materials. In addition, they will acquire skills in using physical and chemical methods of conservation and protection of library collections. The module is primarily aimed at enabling the student to practically apply theory in practice and to adapt methods and tools from the field of natural sciences to library activities. This is achieved by using methods that activate students and acquire manual skills while working with library materials.
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)
OPAF03_1	student zna terminologię i metodologię z zakresu chemii, fizyki materiałoznawstwa i konserwatorstwa materiału bibliotecznego	K_W04	5
OPAF03_2	student zna i rozumie zależności między właściwościami chemicznymi a fizycznymi substancji chemicznych zawartych w materiale badawczym. Analizuje, interpretuje i opracowuje wyniki otrzymanych badań	K_W05	3
OPAF03_3	student zna i rozumie metody instrumentalne i analityczne stosowane do badań materiału bibliotecznego. Zna i rozumie przepisy BHP obowiązujące podczas pracy z odczynnikami chemicznymi zachowanie dziedzictwa kulturowego regionu, kraju, Europy	K_W07	5
OPAF03_4	student potrafi rozpoznać zniszczenia wywołane przemianami chemicznymi na zbiorach bibliotecznych oraz przeprowadzić badania chemiczne z wykorzystaniem metod instrumentalnych i analitycznych zgodnie z aktualnymi standardami międzynarodowymi	K_U02	4
OPAF03_5	student potrafi posługiwać się normami prawnymi i etycznymi podczas wykonywania badań na materiale bibliotecznym w działalności konserwatorskiej, bibliotecznej i informacyjnej	K_U07	4
OPAF03_6	student rozumie i przestrzega zapisy kodeksów etycznych związanych z pracami konserwatorskimi materiału bibliotecznego	K_K03	5
OPAF03_7	student ma świadomość przeprowadzania badań fizykochemicznych materiału bibliotecznego w odpowiedzialności za	K_K04	4

	zachowanie dziedzictwa kulturowego regionu, kraju, Europy.		

9. Methods of conducting classes

Code	Category	Name (description)
b08	Problem-solving methods	Activating method – peer learning *learning through the exchange of knowledge in a group/team/pair of students, i.e., in the so-called learning cell; a kind of mutual learning; an approach focused on student activity under the guidance of the person teaching the course; a learning situation where students with a similar level of experience learn from one another*
b09	Problem-solving methods	Activating method – flipped classroom *anticipatory learning; work in class is based on previously studied material indicated by the person teaching the course; preparation outside the classroom serves the purpose of getting familiar with the issues whose knowledge is necessary for participating in the in-class discussion and the training in the related practical skills; the activity is based on the work of students under the guidance of the person teaching the course*
c07	Demonstration methods	Screen presentation *a presentation of synthetic image content using computer graphics, e.g., a series of slides or other multimedia forms, usually accompanied by a commentary; typical components of a screen presentation include text organized into bulleted points, charts, images and animations, sometimes sound effects or music; a multimedia illustration of course content presented in the form of a projected image*
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*

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
OPAF03_fs_1	laboratory classes	30	course work	OPAF03_1, OPAF03_2, OPAF03_3, OPAF03_4, OPAF03_5, OPAF03_6, OPAF03_7	b08, b09, c07, d03, e01

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
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	Yes

		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	
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 *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

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.