COURSE PROGRAMME

1.	Field of study	Chemistry
2.	Academic year of entry	2017/2018 (winter term) The number and date of a Faculty Council's resolution: 65 (20.06.2017 r.)
3.	Level of qualifications/degree	second-cycle studies
4.	Degree profile	general academic
5.	Mode of study	full-time
6.	ISCED code	0531 (Chemistry)

Learning outcomes

7.	Description of learning outcomes	Attachment no. 1
8.	Model learning outcomes	

Programme of study

9.	Connection between the field of study and university development strategy, including the university mission		
10.	Number of semesters	4	
11.	Degree	magister (Master's Degree)	
12.	Area (or areas - for joint or interdisciplinary studies) of education to which the programme is assigned and the leading discipline of art or science for the POL-on system	science studies [chemistry]	
13.	Areas, fields and disciplines of art or science to which the learning outcomes of the field of study are related, indicating the percentage shares in which the programme of study refer to the various fields of science	science studies chemical sciences - 100% chemistry	
14.	Specializations	Applied Chemistry Computer Chemistry Environmental Chemistry Forensic Chemistry Medicinal Chemistry	
15.	Number of ECTS credits required to achieve the qualification equivalent to	Applied Chemistry: 120, Computer Chemistry: 120,	

the level of study Environmental Chemistry: 120, Medicinal Chemistry: 120, Medicinal Chemistry: 120, Medicinal Chemistry science studies - 100% Environmental Chemistry science studies - 100% Medicinal Chemistry science stud		T	
Medicinal Chemistry: 120 Applied Chemistry science studies - 100% Environmental Chemistry science studies - 100% Environmental Chemistry science studies - 100% Environmental Chemistry science studies - 100% Environmental Chemistry science studies - 100% Environmental Chemistry science studies - 100% Medicinal Chemistry science studies - 100% Percentage of the ECTS credits for optional modules in relation to the total number of ECTS credits that a student must obtain in the modules taught 18. Total number of ECTS credits that a student must obtain in modules from humanities or social science areas of education (not less than 5 ECTS) - in the case of fields of study assigned to an assosther than, respectively, the humanistic or social studies 18. Modules description (including) learning outcomes, number of ECTS credits and assessment methods of the learning outcomes, number of ECTS credits and assessment methods of the learning outcomes, number of ECTS credits and assessment methods of the learning outcomes are to a depleted the mistry: 6 Applied Chemistry: 6 Applied Chemistry: 6 Medicinal Chemistry: 120, Forensic Chemistry		the level of study	
16. Percentage of the ECTS credits for action of the areas to which the learning outcomes are related to the learning outcomes. Applied Chemistry science studies - 100% Environmental Chemistry science studies - 100% Environmental Chemistry science studies - 100% Medicinal Chemistry science studies - 100% Modules of ECTS credits that a student must obtain in modules from humanities or social science areas of education (not less than 5 ECTS) - in the case of fields of study assigned to areas other than, respectively, the humanistic or social studies Modules description (including) learning outcomes, number of ECTS credits and assessment methods of the learning outcomes, number of ECTS credits and assessment methods of the learning outcomes, number of ECTS credits and assessment methods of the learning outcomes areas of early assessment methods of the learning outcomes areas of early assessment methods of the learning outcomes areas of early assessment methods of the learning outcomes areas of early assessment methods of the learning outcomes areas of early assessment methods of the learning outcomes areas of early assessment methods of the learning outcomes areas of early assessment methods of the learning outcomes areas of early assessment method of the learning o			
each of the areas to which the learning outcomes are related to the total number of ECTS credits Computer Chemistry science studies - 100%			Medicinal Chemistry: 120
learning outcomes are related to the total number of ECTS credits Computer Chemistry science studies - 100%	16		
total number of ECTS credits Computer Chemistry science studies - 100% Environmental Chemistry science studies - 100% Forensic Chemistry science studies - 100% Medicinal Chemistry science studies - 100% Medicinal Chemistry science studies - 100% Medicinal Chemistry science studies - 100% Applied Chemistry self- Computer Chemistry 68% Forensic Chemistry 88% Computer Chemistry 88% Computer Chemistry 68% Applied Chemistry 68% Medicinal Chemistry: 68% Forensic Chemistry 68% Applied Chemistry: 68% Applied Chemistry: 120, Computer Chemistry: 120, Environmental Chemistry: 120, Medicinal Chemistry: 120, Medicinal Chemistry: 120, Medicinal Chemistry: 120 Medicinal Chemistry: 120 Applied Chemistry: 120 Forensic Chemistry: 120 Applied Chemistry: 68 Computer Chemistry: 120, Medicinal Chemistry: 120, Medicinal Chemistry: 120, Medicinal Chemistry: 120 Medicinal Chemistry: 6 Computer Chemistry: 6 Forensic Chemistry: 120 Forensic Chemistry: 120 Forensic Chemistry: 120 Forensic Chemistry: 120 Forensic Chemist			science studies - 100%
science studies - 100% Environmental Chemistry science studies - 100% Forensic Chemistry science studies - 100% Medicinal Chemistry science studies - 100% Medicinal Chemistry science studies - 100% Medicinal Chemistry science studies - 100% Applied Chemistry: 68%, Computer Chemistry: 68%, Medicinal Chemistry: 68%, Medicinal Chemistry: 68%, Medicinal Chemistry: 120, Computer Chemistry: 120, Computer Chemistry: 120, Computer Chemistry: 120, Environmental Chemistry: 120, Environmental Chemistry: 120, Medicinal Chemistry: 6, Computer Chemistry: 6, Medicinal Chemistry: 6, Medicinal Chemistry: 6, Medicinal Chemistry: 6, Medicinal Chemistry: 6, Applied Chemistry: 6, Medicinal Chemistry: 6, Applied Chemistry: 6, Medicinal Chemistry: 6, Medicinal Chemistry: 6, Medicinal Chemistry: 6, Applied Chemistry: 6, Medicinal Chemistry: 6, Medicinal Chemistry: 6, Medicinal Chemistry: 6, Applied Chemistry: 6, Medicinal Chemistry: 6, Attachment no. 2 Modules description (including learning outcomes, number of ECTS credits and assessment methods of the learning outcomes) Attachment no. 3 Attachment no. 3 Applied Chemistry			Computer Chamietre
Environmental Chemistry science studies - 100% Egrensic Chemistry science studies - 100% Medicinal Chemistry science studies - 100% Medicinal Chemistry science studies - 100% Medicinal Chemistry science studies - 100% Applied Chemistry: 68%, Computer Chemistry: 68%, Medicinal Chemistry: 68%, Medicinal Chemistry: 120, Computer Chemistry: 120, Environmental Chemistry: 6, Environmental Chemist		total number of EC15 credits	
Science studies - 100% Forensic Chemistry Science studies - 100% Medicinal Chemistry Science studies - 100% Medicinal Chemistry Science studies - 100% Medicinal Chemistry Science studies - 100% Science studies - 100% Medicinal Chemistry Science studies - 100% Applied Chemistry : 68% Computer Chemistry : 68% Forensic Chemistry : 68% Medicinal Chemistry : 68% Medicinal Chemistry : 68% Medicinal Chemistry : 120 Science Studies Medicinal Chemistry : 120 Medicinal Chemistry :			Science Statutes 10070
Eorensic Chemistry Science studies - 100% Medicinal Chemistry Science studies - 100% Medicinal Chemistry Science studies - 100% Scie			
science studies - 100% Medicinal Chemistry science studies - 100% Applied Chemistry: 68%, Computer Chemistry: 68%, Forensic Chemistry: 68%, Medicinal Chemistry: 68%, Computer Chemistry: 68%, Medicinal Chemistry: 68%, Forensic Chemistry: 68%, Medicinal Chemistry: 120, Computer Chemistry: 120, Environmental Chemistry: 120, Medicinal Chemistry: 120, Medicinal Chemistry: 120, Medicinal Chemistry: 120, Forensic Chemistry: 120, Medicinal Chemistry: 120 Applied Chemistry: 120, Environmental Chemistry: 120, Forensic Chemistry: 120, Medicinal Chemistry: 120 Medicinal Chemistry: 6, Computer Chemistry: 6, Computer Chemistry: 6, Medicinal Chemistry: 120, Medicinal			science studies - 100%
science studies - 100% Medicinal Chemistry science studies - 100% 17. Percentage of the ECTS credits for optional modules in relation to the total number of ECTS credits 18. Total number of ECTS credits that a student must obtain in the modules taught 19. Number of ECTS credits that a student must obtain in modules from humanities or social science areas of education (not less than 5 ECTS) - in the case of fields of study assigned to areas other than, respectively, the humanistic or social studies 20. Modules description (including learning outcomes) 10. Modules description (including learning outcomes) 21. Course structure 22. Graduation requirements for a Applied Chemistry Applied Chemistry: 68%, Computer Chemistry: 68%, Medicinal Chemistry: 120, Environmental Chemistry: 120, Environmental Chemistry: 120, Medicinal Chemistry: 120, Medicinal Chemistry: 6, Computer Chemistry: 6, Computer Chemistry: 6, Medicinal Chemistry: 6 Applied Chemistry: 68%, Medicinal Chemistry: 120, Medicinal Chemistry: 120, Medicinal Chemistry: 6, Computer Chemistry: 6, Medicinal Chemistry: 6 Applied Chemistry: 6 Applied Chemistry: 69%, Medicinal Chemistry: 69%, Medicinal Chemistry: 69%, Medicinal Chemistry: 69%, Medicinal Chemistry: 120, Medicina			Forensic Chemistry
Science studies - 100%			
Science studies - 100%			Madiainal Chamiatry
17. Percentage of the ECTS credits for optional modules in relation to the total number of ECTS credits 18. Total number of ECTS credits that a student must obtain in the modules taught 19. Number of ECTS credits that a student must obtain in modules from humanities or social science areas of education (not less than 5 ECTS) - in the case of fields of study assigned to areas other than, respectively, the humanistic or social studies 20. Modules description (including learning outcomes, number of ECTS) and the flearning outcomes of the learning outcomes of			science studies - 100%
optional modules in relation to the total number of ECTS credits 18. Total number of ECTS credits that a student must obtain in the modules taught 19. Number of ECTS credits that a student must obtain in modules from humanities or social science areas of education (not less than 5 ECTS) - in the case of fields of study assigned to areas other than, respectively, the humanistic or social studies 20. Modules description (including learning outcomes, number of ECTS credits and assessment methods of the learning outcomes) 21. Course structure 22. Graduation requirements for a Computer Chemistry: 68%, Environmental Chemistry: 68%, Medicinal Chemistry: 120, Computer Chemistry: 120, Environmental Chemistry: 120, Forensic Chemistry: 120, Applied Chemistry: 6, Computer Chemistry: 120, Environmental Chemistry: 6, Computer Chemistry: 120, Forensic Chemistry: 6, Computer Chemistry: 6, Computer Chemistry: 120, Forensic Chemistry: 6, Computer Chemistry: 120, Forensic Chemistry: 6, Computer Chemistry: 6, Medicinal Chemistry: 6, Computer Chemistry: 6, Medicinal Chemistry: 6, Computer Chemistry: 120, Forensic Chemistry: 6, Computer Chemistry: 6, Computer Chemistry: 120, Forensic Chemistry: 120, Forens	17	Dercentage of the ECTS gradite for	
total number of ECTS credits Environmental Chemistry: 68%, Forensic Chemistry: 68% Medicinal Chemistry: 68% 18. Total number of ECTS credits that a student must obtain in the modules taught Applied Chemistry: 120, Computer Chemistry: 120, Environmental Chemistry: 120, Forensic Chemistry: 120, Environmental Chemistry: 120, Medicinal Chemistry: 120 Medicinal Chemistry: 6, Environmental Chemistry: 6, Environmental Chemistry: 6, Medicinal Chemistry: 6, Medicinal Chemistry: 6 Modules description (including learning outcomes, number of ECTS credits and assessment methods of the learning outcomes) 21. Course structure Attachment no. 3 Applied Chemistry: 68%, Medicinal Chemistry: 120, Computer Chemistry: 120, Medicinal Chemistry: 6, Computer Chemistry: 6, Medicinal Chemistry: 6, Medicinal Chemistry: 6, Medicinal Chemistry: 6 Attachment no. 2	11'		
Forensic Chemistry: 68%, Medicinal Chemistry: 68% 18. Total number of ECTS credits that a student must obtain in the modules taught 19. Number of ECTS credits that a student must obtain in modules from humanities or social science areas of education (not less than 5 ECTS) - in the case of fields of study assigned to areas other than, respectively, the humanistic or social studies 20. Modules description (including learning outcomes, number of ECTS credits and assessment methods of the learning outcomes) 21. Course structure Attachment no. 3 Applied Chemistry: 120, Computer Chemistry: 120, Environmental Chemistry: 120 Applied Chemistry: 120 Applied Chemistry: 6, Computer Chemistry: 6, Environmental Chemistry: 6, Hordinal Chemistry: 6, Medicinal Chemistry: 6, Medicinal Chemistry: 6 Attachment no. 2			
18. Total number of ECTS credits that a student must obtain in the modules taught Applied Chemistry: 120, Computer Chemistry: 120, Forensic Chemistry: 120, Medicinal Chemistry: 120, Medicinal Chemistry: 120, Medicinal Chemistry: 120 19. Number of ECTS credits that a student must obtain in modules from humanities or social science areas of education (not less than 5 ECTS) - in the case of fields of study assigned to areas other than, respectively, the humanistic or social studies 20. Modules description (including learning outcomes, number of ECTS credits and assessment methods of the learning outcomes) 21. Course structure Applied Chemistry: 120, Computer Chemistry: 120, Medicinal Chemistry: 120, Medicinal Chemistry: 6, Computer Chemistry: 6, Computer Chemistry: 6, Medicinal Chemistry: 6, Medicinal Chemistry: 6 Attachment no. 2 Attachment no. 3 Applied Chemistry: 120, Computer Chemistry: 120, Medicinal Chemistry: 120, Medicinal Chemistry: 6, Computer Chemistry: 6, Medicinal Chemistry: 6, Medicinal Chemistry: 6 Attachment no. 2			
student must obtain in the modules taught Computer Chemistry: 120, Environmental Chemistry: 120, Forensic Chemistry: 120, Medicinal Chemistry: 120 19. Number of ECTS credits that a student must obtain in modules from humanities or social science areas of education (not less than 5 ECTS) - in the case of fields of study assigned to areas other than, respectively, the humanistic or social studies 20. Modules description (including learning outcomes, number of ECTS credits and assessment methods of the learning outcomes) Attachment no. 2 Attachment no. 3 Attachment no. 3 Applied Chemistry: 120, Environmental Chemistry: 120, Medicinal Chemistry: 6, Computer Chemistry: 6, Environmental Chemistry: 6, Forensic Chemistry: 6, Medicinal Chemistry: 6 Attachment no. 2			Medicinal Chemistry: 68%
taught Environmental Chemistry: 120, Forensic Chemistry: 120, Medicinal Chemistry: 120 19. Number of ECTS credits that a student must obtain in modules from humanities or social science areas of education (not less than 5 ECTS) - in the case of fields of study assigned to areas other than, respectively, the humanistic or social studies 20. Modules description (including learning outcomes, number of ECTS credits and assessment methods of the learning outcomes) 21. Course structure Attachment no. 3 Applied Chemistry: 120, Medicinal Chemistry: 6, Environmental Chemistry: 6, Computer Chemistry: 6, Forensic Chemistry: 6, Medicinal Chemistry: 6 Medicinal Chemistry: 6 Attachment no. 2	18		Applied Chemistry: 120,
Forensic Chemistry: 120, Medicinal Chemistry: 120 19. Number of ECTS credits that a student must obtain in modules from humanities or social science areas of education (not less than 5 ECTS) - in the case of fields of study assigned to areas other than, respectively, the humanistic or social studies 20. Modules description (including learning outcomes, number of ECTS credits and assessment methods of the learning outcomes) Attachment no. 2 Applied Chemistry: 6, Computer Chemistry: 6, Environmental Chemistry: 6, Medicinal Chemistry: 6 Attachment no. 2 Attachment no. 2			
Medicinal Chemistry: 120 19. Number of ECTS credits that a student must obtain in modules from humanities or social science areas of education (not less than 5 ECTS) - in the case of fields of study assigned to areas other than, respectively, the humanistic or social studies 20. Modules description (including learning outcomes, number of ECTS credits and assessment methods of the learning outcomes) Attachment no. 2 Attachment no. 3 Attachment no. 3 Attachment no. 3 Applied Chemistry: 6, Computer Chemistry: 6, Environmental Chemistry: 6, Forensic Chemistry: 6 Attachment no. 2		taugnt	
19. Number of ECTS credits that a student must obtain in modules from humanities or social science areas of education (not less than 5 ECTS) - in the case of fields of study assigned to areas other than, respectively, the humanistic or social studies 20. Modules description (including learning outcomes, number of ECTS credits and assessment methods of the learning outcomes) 21. Course structure Applied Chemistry: 6, Computer Chemistry: 6, Environmental Chemistry: 6 Medicinal Chemistry: 6 Attachment no. 2 Attachment no. 2			
student must obtain in modules from humanities or social science areas of education (not less than 5 ECTS) - in the case of fields of study assigned to areas other than, respectively, the humanistic or social studies 20. Modules description (including learning outcomes, number of ECTS credits and assessment methods of the learning outcomes) Attachment no. 2 Attachment no. 3 21. Course structure Attachment no. 3 Applied Chemistry: 6, Environmental Chemistry: 6, Forensic Chemistry: 6, Medicinal Chemistry: 6 Medicinal Chemistry: 6 Attachment no. 2	19	Number of ECTS credits that a	·
humanities or social science areas of education (not less than 5 ECTS) - in the case of fields of study assigned to areas other than, respectively, the humanistic or social studies 20. Modules description (including learning outcomes, number of ECTS credits and assessment methods of the learning outcomes) 21. Course structure Attachment no. 3 Applied Chemistry: 6, Forensic Chemistry: 6, Medicinal Chemistry: 6 Attachment no. 2	1-0		
the case of fields of study assigned to areas other than, respectively, the humanistic or social studies 20. Modules description (including learning outcomes, number of ECTS credits and assessment methods of the learning outcomes) 21. Course structure 22. Graduation requirements for a Medicinal Chemistry: 6 Attachment no. 2 Attachment no. 2		humanities or social science areas of	Environmental Chemistry: 6,
areas other than, respectively, the humanistic or social studies 20. Modules description (including learning outcomes, number of ECTS credits and assessment methods of the learning outcomes) 21. Course structure Attachment no. 3 Applied Chemistry			
humanistic or social studies 20. Modules description (including learning outcomes, number of ECTS credits and assessment methods of the learning outcomes) 21. Course structure Attachment no. 3 Attachment no. 3 Applied Chemistry			Medicinal Chemistry: 6
20. Modules description (including learning outcomes, number of ECTS credits and assessment methods of the learning outcomes) 21. Course structure 22. Graduation requirements for a Attachment no. 2 Attachment no. 3 Applied Chemistry			
learning outcomes, number of ECTS credits and assessment methods of the learning outcomes) 21. Course structure Attachment no. 3 22. Graduation requirements for a Applied Chemistry	20		Attachment no. 2
the learning outcomes) 21. Course structure Attachment no. 3 22. Graduation requirements for a Applied Chemistry			
21. Course structure Attachment no. 3 22. Graduation requirements for a Applied Chemistry			
22. Graduation requirements for a Applied Chemistry		,	
			Attachment no. 3
particular specialization	22		Applied Chemistry
		particular specialization	

2025-04-04 21:33:05 []

		Computer Chemistry Environmental Chemistry Forensic Chemistry Medicinal Chemistry
23.	Organization of the process of obtaining a degree	
24.	Internships (hours and conditions) in the case of practical programmes and in general university programme - if such requires internship	
25.	Total number of ECTS credits that a student must obtain in internships	Applied Chemistry: 0, Computer Chemistry: 0, Environmental Chemistry: 0, Forensic Chemistry: 0, Medicinal Chemistry: 0
26.	Number of ECTS credits - higher than 50% of the total number of credits - that a student must obtain: • in general university programmes within a module connected with research carried out in the area to develop his/her knowledge and research skills; • in practical programmes within a module connected with vocational preparation to allow a student to develop practical and social skills	Applied Chemistry: 106, Computer Chemistry: 106, Environmental Chemistry: 106, Forensic Chemistry: 106, Medicinal Chemistry: 106
27.	Minimum staff resources and staff to student ratio	Attachment minimum staff

Additional information

28	General description of the programme	
29	General description of the specialization	Applied Chemistry

2025-04-04 21:33:05 [] 3 / 4

		Computer Chemistry
		Environmental Chemistry
		Forensic Chemistry
		Medicinal Chemistry
30.	Learning outcomes coverage matrix	Attachment no. 4

(pieczęć i podpis Dziekana)

2025-04-04 21:33:05 []