

**Programme for students of Master Studies in English applicable from the academic year  
2026/2027**

During the second degree chemistry studies student is obliged to obtain at least 6 ECTS for subjects that are not related to the field of studies (general courses), including general university subjects from the areas of humanities or social sciences minimum 5 ECTS. Each year a student is expected to accumulate 60 ECTS credits (however, minimum 30 ECTS credits per a semester).

**Semestr 1.**

Subject	Hours	Lecture	Laboratory	ECTS points	
Biochemistry	60	30	30	5	Exam/Grade
Nuclear Chemistry	60	30	30	5	Exam/Grade
Crystallography	30	10	20	2,5	Exam/Grade
Physical chemistry	60	30	30	5	Exam/Grade
Instrumental analysis	45	15	30	4	Exam/Grade
Organic chemistry	30	30		2	Exam
Data analysis	15		15	1	Grade
Molecular spectroscopy	30	15	15	2,5	Grade
Occupational health and safety	4	4		0,5	Grade
Introduction to intellectual property management	4	4		0,5	Grade
Elective courses	45	45		3	Grade
<b>Total</b>	<b>383</b>	<b>168</b>	<b>170</b>	<b>31</b>	

**Semestr 2.**

Subject	Hours	Lecture	Laboratory	ECTS points	
Spectroscopic Identification of Organic Compounds	45	15	30	4,5	Exam/Grade
Organic synthesis laboratory A/B	60/90		60/90	6/9	Exam/Grade
Environmental Analysis	45	15	30	4,5	Exam/Grade
Physicochemistry of new materials	20	20		1,5	Exam

Polymers and their contemporary applications	45	15	30	4	Grade
Students' Project I*	75		75	6,5	Grade
General university lectures	30	30		2	
<b>Total</b>	<b>320</b>	<b>95</b>	<b>225</b>	<b>29</b>	

\* The project cannot be part of a master's thesis.

**Semestr 3.** (elective courses selected by the student in consultation with the Scientific supervisor)

Subject	Hours	Lecture	Laboratory	ECTS points	
Diploma seminar I	15	15		1	Grade
Diploma's laboratory I	150		150	12	Grade
Students' Project II*	100		100	10	Grade
Elective courses	90	90		5	Grade
General university lectures	60	60		4	Grade
<b>Total</b>	<b>415</b>	<b>165</b>	<b>250</b>	<b>32</b>	

\* The project cannot be part of a master's thesis.

**Semestr 4.** (elective courses selected by the student in consultation with the Scientific supervisor)

Subject	Hours	Lecture	Laboratory	ECTS points	
Diploma seminar II	45	45		3	Grade
Diploma's laboratory II	250		250	20	Grade
Elective courses	90	90		5	Grade
<b>Total</b>	<b>385</b>	<b>135</b>	<b>250</b>	<b>28</b>	