

**Faculty of Chemistry NCU in Torun / Poland (PL TORUN01)**  
**Erasmus+ teaching offer for the academic year 2022/2023**  
**BSc level**

**Winter semester**

	Course	Type	ECTS credits
1	Physical chemistry I (Thermodynamics)	Lecture 15 Laboratory 45 Practice 15	8
2	Organic chemistry	Lecture 30 Laboratory 105 Practice 15	12
3	Optional		12

**Summer semester**

	Course	Type	ECTS credits
1	Physical chemistry II (Kinetics and Electrochemistry)	Lecture 15 Laboratory 45 Practice 15	8
2	Environmental chemistry and ecology	Lecture 15 Laboratory 45 Practice 15	7
3	Polymer synthesis and processing	Lecture 30	3
4	Optional		12

**Optional I**

	Course	Type	ECTS credits
1	From cosmochemistry to novel inorganic materials	Lecture 25 Laboratory 35 Practice 15	6
2	Nanomaterials and nanostructures	Lecture 30 Laboratory 45	6

**Optional II**

	Course	Type	ECTS credits
1	Pharmaceutical and cosmetic materials	Lecture 30 Laboratory 30	6
2	Cosmetic raw materials	Lecture 25 Laboratory 50	6

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**MSc level**

**Winter semester**

	Course	Type	ECTS credits
1	Chemical technology	Lecture 30 Laboratory 30	6
2	Nanochemistry	Lecture 30 Laboratory 30	6
3	Advanced instrumental analysis	Lecture 30 Laboratory 30	6
4	Solid and surface chemistry	Lecture 30 Laboratory 30	6
5	Organometallic and bioinorganic materials	Laboratory 60	6

**Summer semester**

	Course	Type	ECTS credits
1	Organic physical chemistry	Lecture 30	3
2	Natural and synthetic organic materials	Lecture 30 Laboratory 30	6
3	Membrane processes in chemical technology	Lecture 30 Laboratory 30	6
4	Separation techniques	Lecture 30 Laboratory 30	6
5	Adsorbents and catalysis	Lecture 30 Laboratory 30	6
6	Research project and seminar (upon an arrangement with the research group supervisor, students can participate in the research project)	Research project laboratory 120 hours (6 ECTS)	