



## Subject card

Subject name and code	MOLECULAR MODELLING, PG_00038906						
Field of study	Chemistry						
Date of commencement of studies	February 2024	Academic year of realisation of subject			2024/2025		
Education level	second-cycle studies	Subject group			Optional subject group		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			3.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Pharmaceutical Technology and Biochemistry -> Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Maciej Bagiński				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	30.0	0.0	0.0	45
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours		Self-study		SUM
	Number of study hours	45	5.0		25.0		75
Subject objectives	The aim of the course is to familiarize students with selected topics in the field of molecular modeling, which can be useful in carrying out the thesis and may also serve as the basis for specific items on the third level studies. The strategic objective will be achieved through assimilation of theoretical knowledge as well as practical execution of tasks within the project. Presented the content of education in the subject encouraged to broaden the knowledge by the use of electronic resources and indicated Recommended reading.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	K7_W05		-has knowledge about the molecular properties of simple organic molecules as well as biopolymers -understands the nature of interactions between biomolecules and is able to analyze these interactions			[SW1] Assessment of factual knowledge	
	K7_U01		-can find literature source information about the tested model -can critically compare literature data with the results of molecular modeling simulations			[SU2] Assessment of ability to analyse information	
	K7_W02		-has knowledge about the molecular properties of simple organic molecules as well as biopolymers -understands the nature of interactions between biomolecules and is able to analyze these interactions			[SW1] Assessment of factual knowledge	



Example issues/ example questions/ tasks being completed	molecular dynamics molecular mechanics intermolecular interactions molecular docking
Work placement	Not applicable