Course code								
Type and description	EC							
ECTS credit	1							
Course name	Physical Organic Chemistry part I							
Course name in Polish	Chemia fizyko-organiczna, czesc 1							
Language of instruction	English							
Course level	8 PRK							
Course coordinator	Piotr Kaszyński							
Course instructors	Piotr Kaszyński							
Delivery methods and course duration		Lecture	Tutorials	Laboratory	Project	Seminar	Other	Total of teaching hours during semester
	Contact hours	0	0	0	15		0	15
	E-learning	No	No	No	No	No	No	
	Assessment criteria (weightage)	0,00					0,00	
Course objective	To understand relationships between the electronic structure and reactivity in concerted and photochemical reactions							
Learning outcomes	After the course a PhD student is able to: 1. understand properties and reactivity of organic compounds in the context of their electronic structures. W4, U4, K1 2. understand chemical processes and methods of their investigation, W4, U4, K1 3. knows selected pericyclic and photochemical processes, W4, U4, K1							
Assessment methods	Effects W4, U4, K1							
	Assigned projects and written and oral assessment The final evaluation is based on:							
	attendance - 35% projects - 25% assessment - 40%							
Prerequisites	Sophomore Org	anic Chemi	stry I and II					
Course content with delivery methods	Lecture and Homework 1. Bonding: the Huckel approximation 2. Thermal Pericyclic Reactions							
Basic reference materials	 Lecture notes, provided. Modern Physical Organic Chemistry, Anslyn E. V. and Dougherty, D. A. University Science Book, 2006 							

Other reference materials	1. Advanced Organic Chemistry, Part A: Structure and Mechanisms.					
	(5th Edition) Carey, F. A., and Sundberg, R. A.; Springer, 2007. (an electronic version is available on line).					
	2. Perspectives on Structure and Mechanism in Organic Chemistry					
	Felix A. Carroll (Brooks/Cole, 1998)					
	3. Advanced Organic Chemistry. Reactions, Mechanisms, and Structures,					
	(5th Edition) Smith and March; J. Wiley & Sons 2001.					
Average student workload	25 h					
outside classroom						
Comments						
Last update	March 15, 2023					