Course code										
Type and description	CC - Core Course									
ECTS credits	2									
Course name	Methodology of	research	work							
Course name in Polish	Metodyka Pracy badawczej									
Language of instruction	English									
Course level	8 PRK									
Course coordinator	prof. dr hab. inż. Beata Kolesińska									
Course instructors	prof. dr hab. inż. Beata Kolesińska, dr. hab, inż Agnieszka Ruppert, prof PŁ									
Delivery methods and course duration		Lecture	Tutorials	Laboratory	Project	Seminar	Other	Total of teaching hours during semester		
	Contact hours	15	0	0	0	0	0	15		
	E-learning	No	No	No	No	No	No			
	Assessment criteria (weightage)	1.0	0.00	0.00	0.00	0.00	0.00			
Learning outcomes	The aim of the course is also to enable students to acquire practical knowledge in the field of writing the scientific manuscripts and communicating their research to broader public.  A PhD student after completing the course:  1. can classify and describe various programs financed / co-financed by structural funds and Horizon Europe (2021-2027) W1  2. can design and prepare selected fragments of the project application financed from the European Union structural funds W1  3. can define the principles of project management, from preparing the application to completing the implementation of the research and development project W1  4. knows how to present the scientific results to the broad public W2  5. can evaluate the quality of the scientific results which could be chosen for the publication. U1  6. can analyze the scientific results in respect of their novelty and scientific value U2									
	7. can communi				C U3					
Assessment methods	Verification methods of learning outcomes effects <i>W1</i> , <i>W2</i> , <i>U1</i> , <i>U2</i> , <i>U3</i> – written project/essay The final grade consists of: Result from the project concerning the grant preparation -50% Result from the project concerning the preparation of the publication -50%									
		Basics of patent law, basics of project management and literature search								
Prerequisites	Basics of patent	law, basi	cs of projec	ot manageme	nt and liter	ature searc	n			

	Writing of the introduction of article: selection of literature, the methods of presentation of current state of
	knowledge and research motivation. Description of scientific experiment. Structure and requirements of result presentation and discussion. Preparation of the illustrations. Writing of conclusions, summary and abstract. Importance of the letter to editor (the form and the content). Selection of the proper journal. Style and syntax of chemical English. Editorial cycle, reviews of scientific articles, responses for review, correction of proofs.
Basic reference materials	1. "Poradnik wynalazcy. Procedury zgłaszania w systemie krajowym, europejskim i międzynarodowym". Praca zbiorowa pod redakcją A. Pyrża, Krajowa Izba Gospodarcza, Warszawa 2009, Urząd Patentowy Rzeczypospolitej Polskiej, Warszawa 2009, ISBN: 978-83-913279-1
	2. "Fundusze Unijne i europejskie" Aneta Szymańska, Wydawnictwo Złote Myśli, ISBN: 978-83-7582- 229-8
	3. Competition documentation for open calls for research projects
	4.current scientific articles, given by the lecturer
Other reference materials	current scientific articles, given by the lecturer
Average student workload	20 hrs
outside classroom	
Comments	-
Last update	2022-01-25