Course code								
Type and description	Elective Course							
ECTS credit	1							
Course name	Scientific Research Methodology							
Course name in Polish	Metodyka badań naukowych							
Language of instruction	English							
Course level	8 PRK							
Course coordinator	prof. dr hab. inż. Andrzej Bartoszewicz							
Course instructors	prof. dr hab. inż. Andrzej Bartoszewicz							
Delivery methods and course duration		Lecture	Tutorials	Laboratory	Project	Seminar	Other	Total of teaching hours during semester
	Contact hours	5	10	0	0	0	0	15
	E-learning	No	No	No	No	No	No	
	Assessment criteria (weightage)	0,33	0,67					
	<ol> <li>electrical, electronic and control engineering.</li> <li>The secondary objective is to familiarize students with their PhD program organization.</li> <li>The course also aims at developing skills necessary for performing effective research and publishing research results among professionals and general public.</li> </ol>							
Learning outcomes	Having completed the course student:  1. knows and understands research methodology appropriate for electrical, electronic and control engineering – effects W4, U1  2. knows and understands the principles of research results dissemination in conventional and open access environment - effects W4, U1, U2  3. can disseminate research results among professionals and general public – effects W4, U2, K1  4. is prepared to critically asses his/her own contribution to the field of electrical, electronic and control engineering - effects W4, U1, K1							
Assessment methods	Outcomes 1-3 – oral presentation							
	Outcome 4 - homework							
Prerequisites	none							
Course content with	Course contents							
delivery methods	LECTURE							
	1. Requiremer	nts impos	ed on the	PhD candid	lates by t	he Law o	n Higher	Education and Science

	(Ustawa 2.0) and current regulations of the Polish Ministry of Science and Higher Education.			
	2. Fundamentals of academic writing and good practices in preparing research publications, public presentations and PhD theses.			
	3. Dissemination of research results.			
	4. Brief introduction to bibliometric factors.			
	TUTORIALS			
	Introduction to practical aspects of determining and interpreting various bibliometric factors.			
	2. Introduction to the use of databases fundamental for electrical, electronic and control engineering.			
	3. Paradigms of academic writing in electrical, electronic and control engineering.			
	4. Selection of appropriate means for dissemination of results.			
Basic reference materials	1. The Law on Higher Education and Science (Ustawa 2.0) and current regulations of the Polish Ministry of Science and Higher Education.			
	2. Van Emden J., Easteal J., Technical writing and speaking. An introduction, McGraw Hill, 1996.			
Other reference materials	Selected internet sources.			
	2. Writing an Engineering Technical Report available at : <a href="https://www.monash.edu/rlo/">https://www.monash.edu/rlo/</a> assignment-samples/engineering/eng-writing-technical-reports			
Average student workload	10h			
outside classroom				
Comments				
Last update				