

Course code																																							
Type and description	Background Course																																						
ECTS credit	2																																						
Course name	Methods of Scientific Research																																						
Course name in Polish	Metodyka pracy badawczej																																						
Language of instruction	English																																						
Course level	8 PRK																																						
Course coordinator	Prof. dr hab. inż. Alina Kunicka-Styczyńska (0000-0002-4611-9109)																																						
Course instructors	Prof. dr hab. inż. Alina Kunicka-Styczyńska (0000-0002-4611-9109)																																						
Delivery methods and course duration	<table><tr><th></th><th>Lecture</th><th>Tutorials</th><th>Laboratory</th><th>Project</th><th>Seminar</th><th>Other</th><th>Total of teaching hours during semester</th></tr><tr><td>Contact hours</td><td>0</td><td>15</td><td>0</td><td>0</td><td>0</td><td>0</td><td>15</td></tr><tr><td>E-learning</td><td>No</td><td>No</td><td>No</td><td>No</td><td>No</td><td>No</td><td>No</td></tr><tr><td>Assessment criteria (weightage)</td><td>0,00</td><td>1,00</td><td>0,00</td><td>0,00</td><td>0,00</td><td>0,00</td><td></td></tr></table>								Lecture	Tutorials	Laboratory	Project	Seminar	Other	Total of teaching hours during semester	Contact hours	0	15	0	0	0	0	15	E-learning	No	No	No	No	No	No	No	Assessment criteria (weightage)	0,00	1,00	0,00	0,00	0,00	0,00	
	Lecture	Tutorials	Laboratory	Project	Seminar	Other	Total of teaching hours during semester																																
Contact hours	0	15	0	0	0	0	15																																
E-learning	No	No	No	No	No	No	No																																
Assessment criteria (weightage)	0,00	1,00	0,00	0,00	0,00	0,00																																	
Course objective	<p>The objective of the course is gaining knowledge and skills in:</p> <ol style="list-style-type: none">1. Defining the aims and goals of research, searching and formulating research problems in food technology and nutrition discipline2. Defining and formulating research components in evidence-based research3. A scientific paper preparation – main compounds and experimental data presenting, drawing conclusions4. Presenting research results – conference speech, short communications																																						
Learning outcomes	<p>After completing the course a student is able to:</p> <ol style="list-style-type: none">1. Formulate research hypothesis taking into account both the needs of the food industry and the consumer, filling the gap in a specific research area – W4, U1, U2, K12. Choose the best research approach – observational, experimental – W4, U1, U2, K13. Define the methodological approach on the basis of literature review – W4, U1, U2, K14. Formulate data analysis – W4, U1, U2, K15. Presenting the research results - U1, U2, K1																																						
Assessment methods	<p>Learning outcomes 1-4 – manuscript draft Learning outcome 5 – presentation The final evaluation is based on:</p> <ol style="list-style-type: none">1. preparation a draft of literature review - 70%2. presentation - 30%																																						
Prerequisites	Not applicable																																						
Course content with delivery methods	<p>TUTORIALS</p> <ol style="list-style-type: none">1. Social needs and demands of food industry – searching for the research problem2. Research problem formulation: hypothesis, scientific question, aims and objectives formulation3. Resources of scientific information4. Analytical approach and critical literature review5. Meta-analysis of data6. Presentation of the research data as the opportunity for critical discussion in the scientific world																																						
Basic reference materials	<ol style="list-style-type: none">1. Özhan Çaparlar C., Dönmez A. What is scientific research and how can it be done. Turk J Anaesthesiol Reanim 2016, 44, 212-2182. Dunn K.P. Scientific Research and Methodology. https://bookdown.org/pkaldunn/Book/3. Rewhorn S. Writing your successful literature review. Journal of Geography in Higher Education 2018, 42, 143-1474. Booth A., Sutton A., Papaioannou D., Systematic Approaches to a Successful Literature Review, Sage Publications Ltd, London 2016																																						
Other reference materials	<ol style="list-style-type: none">1. Kumar R., Research Methodology. A step-by-step Guide for Beginners, Sage Publications Ltd, London 20112. Mack N., Woodsong C., MacQueen K.M., Guest G., Namey, E. 2005. Qualitative research methods: a data collector's field guide. North Carolina: Family Health International																																						
Average student workload outside classroom	35h																																						
Comments	-																																						
Last update	25.01.2022																																						