

Course code																																							
Type and description	Background Course																																						
ECTS credit	2																																						
Course name	Advances in Fermented Food and Beverages																																						
Course name in Polish	Postępy w technologii żywności i napojów fermentowanych																																						
Language of instruction	English																																						
Course level	8 PRK																																						
Course coordinator	Dr hab. inż. Edyta Kordialik-Bogacka, prof. uczelni (0000-0002-4166-6074)																																						
Course instructors	Dr hab. inż. Edyta Kordialik-Bogacka, prof. uczelni (0000-0002-4166-6074), Dr hab. inż. Anna Diowks, prof. uczelni (0000-0001-8673-8847); Dr hab. inż. Katarzyna Ślizewska, prof. uczelni (0000-0002-3161-1707)																																						
Delivery methods and course duration	<table><tr><td></td><td>Lecture</td><td>Tutorials</td><td>Laboratory</td><td>Project</td><td>Seminar</td><td>Other</td><td>Total of teaching hours during semester</td></tr><tr><td>Contact hours</td><td>5</td><td></td><td>10</td><td></td><td></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></td></tr><tr><td>Assessment criteria (weightage)</td><td>1,00</td><td></td><td>1,00</td><td></td><td></td><td>0,00</td><td></td></tr></table>								Lecture	Tutorials	Laboratory	Project	Seminar	Other	Total of teaching hours during semester	Contact hours	5		10			0	15	E-learning	No	No	No	No	No	No		Assessment criteria (weightage)	1,00		1,00			0,00	
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Course objective	The aim of the course is to familiarize PhD students with modern applications in fermentation technology, including baking, dairy and alcoholic beverages technologies																																						
Learning outcomes	After completing the course student is able to: 1. List and describe innovative fermented products – outcomes W1, K1 2. List novel raw materials and additives and explain their technological role – outcomes W1, K1 3. Describe potential modifications in technologies of fermented products – outcomes W1, K1 4. Select and apply the appropriate analytical techniques - outcomes U3, K1 5. Interpret and evaluate the results of analysis critically - outcomes W4, K1, K2 6. Organize work in a group, cooperate with members of the group, show responsibility for the entrusted range of studies, quality of own work - outcomes U3																																						
Assessment methods	Learning outcomes 1-3: written test. Learning outcomes 4-6: laboratory reports, assessment of work, attitude and engagement in the classes. Final assessment includes: 1. written test (80%) 2. laboratory reports and student activity (20%)																																						
Prerequisites	Knowledge of biochemistry, microbiology and biotechnology																																						
Course content with delivery methods	LECTURE Presentation of innovations in fermented food and beverages production (bread, meat and milk products, beer, wine and spirits), including use of starters, probiotics, immobilized microorganisms, alternative raw materials, enzymes, biologically active substances and other additives. LABORATORY The programme covers microbiological problems, fermentation technologies, including starters, fermentation with immobilized cells.																																						
Basic reference materials	Sandeep Kumar Panda; Prathap Kumar Halady Shetty (Eds). Innovations in Technologies for Fermented Food and Beverage Industries, Springer, 1st edition, 2018																																						
Other reference materials	-																																						
Average student workload outside classroom	35 h																																						
Comments	-																																						
Last update	25.01.2022																																						