

Nazwa przedmiotu: Popularization of science				Kod przedmiotu:	
Nazwa jednostki realizującej przedmiot: Szkoła Doktorska US					
Rok / semestr: II/3-4		Status przedmiotu: fakultatywny		Język przedmiotu: angielski	
Rok	Semestr	Forma zajęć	Liczba godzin	Forma zaliczenia	ECTS
II	3-4	wykład			
		ćwiczenia			
		ćwiczenia laboratoryjne			
		konwersatorium	10	ZO	1
		seminarium			
RAZEM			10	ZO	1
Prowadzący zajęcia		Dr hab. Paulina Niedźwiedzka-Rystwej, prof. US			
Cel przedmiotu		The aim of the course is to familiarize students of doctoral studies with popularizing science as a key element in the scientific development of every scientist. Outlining the measurable effects of popularization for the researcher and recipients. Presentation of popularization of science as a mission important for society.			
Wymagania wstępne		Completion of earlier compulsory subjects - Scientific papers and Scientific project			
EFEKTY UCZENIA SIĘ					
Kategoria	Opis efektu			Odniesienie do efektów dla programu	
wiedza	1. The PhD student knows forms of dissemination of science and knows the principles of transfer and commercialization of knowledge in other areas of human activity			SD_W06	
	2. The PhD student knows and understands the need to acquire and conduct scientific projects			SD_W07	
umiejętności	3. The PhD student is able to provide the public with information and opinions on key issues related to their scientific discipline in a proper and commonly understandable way			SD_U07	
	4. The PhD student is able to present the results of research and scientific concepts			SD_U08	
	5. The PhD student establishes and undertakes cooperation in order to implement scientific projects (also interdisciplinary and international)			SD_U10	
	6. The PhD student plans his scientific development and is aware of the social role in inspiring the development of other people			SD_U11	
kompetencje społeczne	7. The PhD student is aware of the obligation to creatively seek answers to the challenges of the present and to shape attitudes towards new phenomena and problems			SD_K04	
	8. The PhD student is involved in popularization of science			SD_K05	
	9. The PhD student is ready to share the results of his research and popularize them (respecting the intellectual property rights)			SD_K08	
TREŚCI PROGRAMOWE					

Forma zajęć: konwersatorium		
L.p.	Treści	liczba godzin
1.	Popularization of science – advantages and difficulties.	2
2.	Important aspects of popularization - commercialization and internationalization, adaptation to the group of recipients, interdisciplinary and international projects. Open Access, Research Gate and other tools used in popularization	5
3.	Promoting science as a test of creativity and quality of a scientist. Popularization of science as a social mission.	3
Metody kształcenia:	<ul style="list-style-type: none"> - multimedia lectures - discussion - team work 	
Metody weryfikacji efektów uczenia się	<ul style="list-style-type: none"> - project - teaching practise - participation in promotional projects implemented by the University of Szczecin - participation in research grants 	1-9 1, 3, 4, 6, 7 1, 3, 4, 6, 7, 8, 9 2, 4, 5
Forma i warunki zaliczenia	Credit with a grade based on a project on how to popularize your own research	
Literatura podstawowa	McDrury, J. and Alterio, M. 2003. <i>Learning Through Storytelling in Higher Education Using Reflection and Experience to Improve Learning</i> . London: Kogan Page Ltd.	
Literatura uzupełniająca	Redfern, J., Burdass, D. and Verran, J. 2013. Transforming a school learning exercise into a public engagement event: the good the bad and the algae. <i>J Biol Ed</i> 47, 246– 252.	
	Redfern, J., Burdass, D. and Verran, J. 2015. Developing microbiological learning materials for schools: best practice. <i>FEMS Microbiol Lett</i> 362, fnv020.	
	Verran, J., Redfern, J., Moravej, H. and Adebola, Y. 2018. Refreshing the public appetite for 'good bacteria': menus made by microbes. <i>J Biol Educ</i> 53, 34-46	
NAKŁAD PRACY DOKTORANTA:		
	Liczba godzin	
Zajęcia dydaktyczne	10	
Przygotowanie się do zajęć	3	
Studiowanie literatury	2	
Udział w konsultacjach	3	
Przygotowanie projektu / eseju / itp.	5	
Przygotowanie się do egzaminu / zaliczenia	2	
Łączny nakład pracy doktoranta w godz.	25	
Liczba punktów ECTS	1	