A COURSE SYLLABUS – DOCTORAL SCHOOL

REGARDING THE QUALIFICATION CYCLE FROM 2021 TO 2025

GENERAL INFORMATION ABOUT COURSE								
Course title Scient		Scientific	ientific research methodology					
Name of the unit running the course		Doctoral School at University of Rzeszów						
Type of course (obligatory, optional)		obligatory						
Year and semester of studies		l year, 1 semestr						
Discipline		Nutrition and food technology						
Language of Cou	rse	Polish						
Name of Course of	coordinator	Agata Znamirowska PhD, DSc, Associate Professor						
Name of Course I	Name of Course lecturer		Agata Znamirowska PhD, DSc, Associate Professor					
Prerequisites								
	BR	IEF DESCR	IPTION OF COURSE					
		(100-	200 words)					
The aim of the	course is to familiari	ze with th	e current scientific	research and trends	s in the world			
achievements ir	n the field of food tech	nology and	nutrition. As part o	f the course, researcl	h methods will			
be discussed, in	cluding statistical anal	ysis and the	e principles of publis	shing the results.				
COURSE LE	ARNING OUTCOMES	AND METH	ODS OF EVALUAT	ING LEARNING OU	TCOMES			
Learning	The description of	of the	Relation to the	Learning Format	Method of			
outcome	learning outcome de	efined for	degree	(Lectures, classes,)	assessment			
	the course		programme		oflearning			
			outcomes		outcomes			
			(symbol)		(e.g. test, orai exam, written			
					exam, project,)			
Knowledge								
(no.)								
1	Knows and understands the		P8S-WG/1	Lectures, classes	written exam			
	theoretical foundations and							
	current global achievements as							
	food tochnology on	nterests in						
	nutrition	u numan						
<u> </u>	Knows the main trer	nds in the	P85 WG/2	Lectures, classes	tost			
2	development of	research			test			
	methods in the discipli	ine of food	r03-W0/3					
	and nutrition to	echnology,						
	including methods of	statistical						
	analysis							
3	He knows the	rules of	P8S-WG/4	Lectures	written exam			
	disseminating research	n results						
Skills								
(no.)								
1	He can formulate a	goal and	P8S-UW/1	Classes	test			
	research hypothesis and carry							
	out verification							
2	Can creatively use research tools		P8S-UW/1	classes	test			
	and make correct conc	lusions						
Social								
competence								
(no.)								
				<u> </u>				

Comostor	Locturos		MAI – NUME	SER OF H	UURS	othors	ECTS	
Semester	Lectores	Classes		es	internships	others	ECIS	
(no.)		/Seminars						
I	10	20					0	
F.G. LECTURE A PRO	RI FM-SOI VING I F		DORTED BY A MU		SENTATION/DIST	ANCELEAR	NING	
CLASSES: TEXT ANALYSIS AND DISCUSSION// GROUP WORK (PROBLEM SOLVING, CASE STUDY. DISCUSSION)/ DISTANCE LEARNING								
		COL	JRSE CONTE	NT				
1. Lectures/	Seminars:							
Colontifia	databases and	d publications	rrant world as	iovomort			arch mathed in	
agricultur	al sciences P	rinciples of same	ing, observatio	nevenient	s. Experience	on vario	ous populations	
(microord	anisms, plant	s. animal and hu	man populatio	ns). Classi	fication of ex	perimen	ts according to	
various ci	riteria: the pla	ce of conducting	and the experi	mental un	it, the numbe	r of facto	ors studied, the	
experime	ntal layout (m	ethod of drawing)	repetition in p	lace and ir	n seasons (seri	es of exp	eriments).	
2. Seminars	; / Lab classes/	others:	amont in ssian	tific racas	rch Cognitiv	and uti	litarian goals in	
aricultur	nce and the co	oncept of measur	ement in scien orking (resear	tific resea	rch. Cognitive	ch stage	litarian goals in	
methods	The concept	and significance of	of statistical hv	notheses	at the stage of	of researc	h design Basic	
concepts	used in rese	arch methods. E	xamples of re	esearch p	rojects. ANO	VA analy	vsis (one, two,	
multivaria	ate). Correlatio	on and regression	analysis in dev	eloping th	ne relationship	betwee	n two features.	
Interpreta	ation of results	and inference.	·					
		COURSE A	SSESSMENT	CRITERI	A			
The condition for	completing th	na coursa is achiev	ving all the ass	imed lear	ning outcome	c Tho ni	umber of points	
obtained (> 50%)	of the maximu	im number of poi	nts) decides ab	out the po	ositive grade f	or the su	biect (pass and	
exam): satisfactor	ry 51-60%, sati	sfactory plus 61-6	9%, good 70-79	9%, good p	olus 80-89%, v	very good	90-100%	
TOTAL Ph	D STUDENT	WORKLOAD RE	QUIRED TO	ACHIEVE	THE INTEN	IDED LE	ARNING	
			OUTCOMES					
•	•	- NUMBER OF H	IOURS AND	ECTS CR	EDITS			
Activity					Numbe	er of hour	S	
Scheduled course contact hours			30					
Other contact ha	ure involving ·	the teacher (cons	ultation hours					
Other contact hours involving the teacher (consultation n								
Non-contact hours – student's own work (preparation for 30								
classes or examinations, project, etc.)								
Total number of hours			60					
l otal number of								

INSTRUCTIONAL MATERIALS					
Compulsory	Adam Grobler. Metodologia nauk Kraków : "Aureus" : "Znak", 2006.				
literature:	Koronacki Jacek, Jan Mielniczuk. Statystyka dla studentów kierunków techniczny i przyrodniczych/WNT, Warszwa 2001.				
	Zygmunt Hajduk, Ogólna metodologia nauk. Katolicki Uniwersytet Lubelski Jan Pawła II. Wydział Filozofii Wyd. 6 uzup Lublin : Wydawnictwo KUL, 2012. Stanisz A. Przystępny kurs statystyki z zastosowaniem STATISTICA PL na przykładach medycyny. Tom 1-3. StatSoft, Kraków 2006				
Complementary	Dudziak A., Żejmo A.: Redagowanie prac dyplomowych: wskazówki metodyczne dla				
literature:	studentów. Difin, Warszawa 2008				
	Kozłowski R.: Praktyczny sposób pisania prac dyplomowych: z wykorzystanie				
	programu komputerowego i Internetu. Warszawa, Oficyna a Wolters Kluwer				
	business 2009				