Zachodniopomorski Uniwersytet Technologiczny w Szczecinie

			Faculty o	of Food Scie	ences and	Fisheries	;			
Field of stu	udy	Αqι	uaculture and	Fisheries						
Mode of study		sta	stationary Level first			cle	1475 L -	÷		
Graduate's qualification		ication inży	inżynier Wi				WNO.	Z1K		
Fields of science		agr	icultural scier	ices						
Disciplines of science		ence ani	mal science a	nd fisheries (100						
Education	al profi	le ger	neral academi	r	,,,					
Module		<u> </u>		C						
		11+i	lisation of s	asfood by-prod						
Code	Course unit									
		tion								
Field of specialisation			oortmont of M	ast Tachnalagy						
FCTC	nny iac									
ECTS					age onglich					
	ourse cr	ean exa	amination	Language	english					
Electives		9	1	Elective gro	bup			1		
Form of in	structio	on Coo	d Semeste	r Hours	5	ECTS	Weight	Credit		
laboratory	course	e L	6	30		3.0	0.50	credits		
lecture		W	6	30		3.0	0.50	examination		
Leading te	eacher	Lisi	ecki Sławomir	· (Slawomir.Lisied	ki@zut.edu.pl)					
Other teachers		Par (Ma	Panicz Remigiusz (rpanicz@zut.edu.pl), Sobczak Małgorzata (Malgorzata.Sobczak@zut.edu.pl)							
Prerequisi	tes									
W-1	The ba	sic knowledge of	seafood raw m	aterials characteris	sation					
W-2	The student is able to make an experiment, perform simple analyzes and describe the results of the experiment. The student can use professional literature and IT tools									
Module/co										
C-1	Knowle	dge and skills re	lated to preserv	vation and utilisatio	on of seafood by-	products				
Course co	l ntent d	ivided into vari	ous forms of i	nstruction				Number of hours		
T-L-1	-1 Introduction, occupational health and safety in the laboratory.						1			
T-L-2	Selected methods of preservation and utilisation of seafood by-products							27		
T-L-3	Passing the practical part of the course							2		
T-W-1	Aim of subject. Course syllabus									
T-W-2	Classifi	27								
T-W-3	Exam		2							
Student workload - forms of activity						Number of hours				
A-L-1	Practise participation							30		
A-L-2	Preparation for passing the practise							30		
A-L-3	Preparation of lab reports							28		
A-L-4	Passing the practical part of the course									
A-W-1	Lecture participation							30		
A-W-2	Propar	28								
A-W-4	Fxam		20							
Teaching	mothod									
M_1		s / 1001s								
M-2	Practis	- e. work in aroups	s. lab reports.							
Evaluation	methe	ds (F - progras	sive D_final)							
S-1	P	Fxam	SIVE, F - IIIIdl)							
5-2	Р	Test								
5-3	F	Assessment of la	ab reports and s	student activity						

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Desigr	ned lea	rning outcomes	Reference to the learning outcomes designed for the fields of study	Reference to Learning Outcomes for qualifications at PQF 6, 7 or 8	Reference to learning outcomes for qualifications at level 6 or 7 that enable acquiring engineering competences	Course objectives	Course content		Teaching methods	Evaluation methods	
Knowledge				•							
AQF_1A_C25b_W01 Student has knowled methods of preservati Student knows basic r used for solving simpl processing of seafood	ge of clas on and ut nethods, e enginee by-produ	sification and characterization of tilitisation of seafood by-products. techniques, tools and materials ering tasks within the scope of ucts.	AQF_1A_W03 AQF_1A_W16	P6S_WG P6S_WK	P6S_WG P6S_WK	C-1	T-W-1 T-W-2	T-W-3	M-1	S-1	
Skills											
AQF_1A_C25b_U01 Student is able to plar preservation and utilis measurements, interp conclusions. Student i experimental methods	n and con sation pro pretation t s able to s to formu	duct seafood by-products cess experiments, including the obtained results and draw use analytic, numerical and Jlate and solve engineering tasks.	AQF_1A_U01 AQF_1A_U02 AQF_1A_U07 AQF_1A_U08 AQF_1A_U24	P6S_UK P6S_UW	P6S_UW	C-1	T-L-1 T-L-2	T-L-3	M-2	S-2 S-3	
Social competences											
AQF_1A_C25b_K01 Student understands t professional and perso colleagues. Is able to perform the function of time necessary to acc	of learning and raising betences, motivating other e and work in a group. Is able to leader; is able to estimate the he assigned task.	AQF_1A_K01 AQF_1A_K03 AQF_1A_K05 AQF_1A_K06	P6S_KK P6S_KO P6S_KR		C-1	T-L-1 T-L-2 T-L-3	T-W-1 T-W-2 T-W-3	M-1 M-2	S-3		
Outcomes	Grade		Evaluation criterion								
Knowledge											
AQF_1A_C25b_W01	2,0										
	3,0	Student has basic knowledge of classification and characterisation of methods of preservation and utilitization of seafood by-products. Student knows basic methods, techniques, tools and materials used for solving simple engineering tasks within the scope of processing of seafood by-products.									
	3,5										
	4,0										
	4,5										
Skille	5,0										
//di_i/(_0200_001	3,0	Student plans and conducts seafood by-products preservation and utilisation process experiments, including measurements, interpretation the obtained results and draw conclusions. Student uses analytic, numerical and experimental methods to									
	25	formulate and solve engineering tasks.									
	40										
	4.5										
	5,0										
Other social com	petence	es									
AQF_1A_C25b_K01	2,0										
	3,0	Student understands the need of learning and raising professional and personal competences, motivating other colleagues. Student cooperates and works in a group. Student performs the function of a team leader and estimates the time necessary to accomplish the assigned task.								agues. cessary	
	3,5										
	4,0										
	4,5										
	5,0										
Required reading	1										
1. Se-Kwon Kim, Se	eafood p	rocessing by-products. Trends	s and application	s, Springer, 2	014						