Curriculum title: USEFZ-EaITA-O-I-S-	23/24Z									
Course title: algebra liniowa (line (PODSTAWOWE)	ar algebra)							Course code: US71AIJ2857_1	4S	
Name of field of study: Economics and IT A	pplications									
Mode and cycle of study: first-degree, full - tin	ne		Profile of study general aca	/: ademic			Specialt	y:		
Course / module status obligatory					Language o semester	f instruction:	sh langu	lage		
Year	Semester		Form	of	No. o	f hours		Type of credit	E	ECTS
			instruc	tion		w tym e-lea	arning	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4	
1	2		discussion	classes	30	0		pg		4
			lectu	ire	15	0		е		
Total					4	45				4
Course / module coordinator	dr hab. MAŁG	ORZA	TA GUZOWSI	KA						
Course instructor	dr hab. MAŁG	ORZA	TA GUZOWSI	KA						
Course / module objectives	Completing an economics, st fundamental r	nd revi tatistic ole an	ising mathem s and econor d which deal	atical know netrics as w with best p	ledge so that tl /ell as other fie ractices in deci	ne students Ids of scien sion-makin	can suce ce where q.	cessfully study the s economic calculation	tate-of-al on plays	rt a
Prerequisites	 knowledge: a skills: a cand competence 	a cand didate (attitu	idate demons can solve ma de): a candid	strates the k thematical ate demons	nowledge of m problems on th trates excellen	athematics e elementar t learning s	on the b y level; kills.	asic high school leve	el;	
				LEARNIN	G OUTCOMES					
Category		No.	Code	Descriptio	on				Ref. to bence	programme hmarks
		1	EP1	Student of linear	knows definit space.	ions and t	he elem	entary properties	K_	_W05
knowledge		2	EP2	Student matrixes procedu	knows the ele as well as ca res of solving	ementary p in recogniz i any syste	propertie ze and i em of lin	es of the real nterpret the ear equations.	κ_	_W05
		3	EP3	Student forms, ei	knows terms igenvectors a	and metho nd eigenv	ods rela [.] alues.	ted to square	K_	_W05
		1	EP4	Student apply the and simp	can use vecto em to solving ble economic	or and mat the system problems.	rices ca ns of lir	Iculus and can near equations	K	_U05
skills		2	EP5	Student determin	can examine le eigenvecto	the proper	ties of o envalue	quadratic and s.	K_	_U05
		3	EP6	Student internation mathematic	can easily co onal group of atical or busir	mmunicate people in ness tasks	e in Eng order to	lish in an o carry out	K_ K_	_U05 _U16
social competences		1	EP7	Student mathema knowled knowled	is ready to cr atical tools ar ge as well as ge to solve so	ritically as nd to supp to use his ocio-econo	sess his lement a knowle omic pro	s knowledge of and deepen his dge and expert oblems.	ĸ	_K02
								Semester	No. o	f hours
										w tym e- learning
Subject title: algebra lin	iowa (linear alge	bra)								
Format of instruction: led	ture									

1. Basic algebraic structu	ires		2	2	0				
2. Vector spaces: linear of spaces.	ombinat	ion and linear independence of vector, bases and dimension for vector	or	2	2	0			
3. Algebraic operations o	n matric	es and their properties		2	2	0			
4. Determinants. Laplace	's expan	sion. Trace and rank of a matrix.		2	2	0			
5. Inverse of matrices. Ma	atrices e	quation.		2	2	0			
6. System of linear equat	ions and	it solutions.		2	2	0			
7. Linear and quadratic for Sylvester s law, positive application in economics	2	3	0						
Format of instruction: discussion classes									
1. Vector spaces: linear of spaces	ombinat	ion and linear independence of vector, bases and dimension for vector	or	2	3	0			
2. Algebraic operations o multiplication.	n matric	es: matrix addition, scalar multiplication, transpose and matrix		2	3	0			
3. Determinants. Laplace		2	2	0					
4. Inverse of matrices. Ma	atrices e	quation.		2	4	0			
5. Systems of linear equations and methods of solving them (Gaussian elimination, Cramer method, Kronecker - Capelli theorem).						0			
6. Systems of linear ineq	2	4	0						
7. Linear and quadratic forms. Canonical form of a square form. Classification of quadratic forms, Sylvester s law. Eigenvalues and eigenvectors.						0			
8. Application of linear algebra in economics. 2									
Modes of delivery	Lectur	es with slides shows. Exercises - problem solving	·						
	No. of learning outcome from the syllabus								
Assessment methods	EGZAI				EP1,EP2,	EP3			
	KOLO	KWIUM			EP4,EP5,	EP6,EP7			
	Metody zasadac	i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów zo h okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.	szczegó	Inymi potrzeba	mi na waru	nkach i			
Grading criteria	Grading criteria Credits are given to students who have learned the following skills, by: 5 short one-question (exercise) tests with passing score of 5 -10 points; 1 final test (5 exercises, 10 points each). Total passing score: minimum 25 points under the condition of all the short tests being passed; The examination form and requirements: The final examination tests if a student has achieved all the projected learning outcomes concerning knowledge. It consists of 10 questions. The passing score is 50%. The way of calculating the grade Fail (2.0) 0%-50% Satisfactory (3.0) 51% -60% Satisfactory plus (3.5) 61% - 70% Good (4.0) 71% - 80% Good plus (4.5) 81% - 90%								
Grade calculation principles									
	Very g Grade	ood (5.0) 91% -100% calculation principles							
	Very g Grade The fir	ood (5.0) 91% -100% calculation principles nal grade is calculated as a weighted averge of partial and final tests.							
	Very g Grade The fir Sem.	ood (5.0) 91% -100% calculation principles nal grade is calculated as a weighted averge of partial and final tests. Course Type of the test of the test of the test of tes	of credit	Grade cal method	c. Wei	ght for the verage			
Final grade calculation	Very g Grade The fir Sem. 2	ood (5.0) 91% -100% calculation principles nal grade is calculated as a weighted averge of partial and final tests. Course Type of algebra liniowa (linear algebra)	of credit	Grade cal method Arytmetyczi	c. Wei a	ght for the verage			
Final grade calculation method	Very g Grade The fir Sem. 2 2	ood (5.0) 91% -100% calculation principles nal grade is calculated as a weighted averge of partial and final tests. Course Type of algebra liniowa (linear algebra) algebra liniowa (linear algebra) [wykład] egzami	of credit	Grade cal method Arytmetyczr	c. Wei a na	ght for the verage			
Final grade calculation method	Very g Grade The fir Sem. 2 2 2 2	ood (5.0) 91% -100% calculation principles nal grade is calculated as a weighted averge of partial and final tests. Course Type of algebra liniowa (linear algebra) algebra liniowa (linear algebra) [wykład] egzami zaliczer ocen	of credit n ie z	Grade cal method Arytmetyczr	c. Wei a na	ght for the verage			
Final grade calculation method	Very g Grade The fir Sem. 2 2 2 Barbar Studer	ood (5.0) 91% -100% calculation principles hal grade is calculated as a weighted averge of partial and final tests. Course Type of algebra liniowa (linear algebra) algebra liniowa (linear algebra) [wykład] egzami algebra liniowa (linear algebra) [wiczenia] zaliczer a Batóg, Beata Bieszk-Stolorz, Iwona Fory , Małgorzata Guzowska, Krzysz ts of Economics, Finance, and Management, Difin	of credit n ie z tof Hebe	Grade cal method Arytmetyczr rlein (2021): N	c. Wei na Mathematic	ght for the verage			

Supplementary reading	C. Edwards, D. Penney (2	C. Edwards, D. Penney (2005): Differential equations and Linear Algebra, Pearson Prentice Hall							
Supplementary reading	V. Ilyin, E. Poznyak (1986)	ık (1986): Linear Algebra, MIRPublisher							
		STUDENT WORKLOAD							
		No. of hours							
			W tym e-learning						
Contact hours		45	0						
Participation in test / exam		3	0						
Preparation for contact	nours	15	0						
Private reading and stud	dying	8	0						
Participation in tutorials		14	0						
Preparation of project /	essay / etc.	0	0						
Preparation for test / exa	am	15	0						
TOTAL workload		100							
ECTS credits		4							

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z

(PODSTAWOWE)									
lame of field of study: Economics and IT A	pplications								
Node and cycle of study: first-degree, full - tim	ne	Profile of study general aca	^{y:} ademic			Specialt	y:		
Course / module status obligatory				Language semeste	of instruction er: 3 - engli	sh langu	uage		
	Compositor	Form	n of	No. of hours		Tomo of one did		ото	
rear	Semester	instruction			w tym e-le	arning	Type of credit		.015
		discussion	classes	15	0		pg		
2	3	labora	atory	15	0		pg	4	
		lectu	ıre	15	0		е		
Total					45				4
Course / module coordinator	dr hab. MAŁGORZ	ATA PORADA-	ROCHO						
Course instructor	dr MIRELA ROMA	NOWSKA							
				an Ilmalanata		1	law of undury second	ماري مراي م	
Course / module objectives	financial informati management. - knowledge - the - skills - students	environment on on contained in student knows can read with u	their behavi n the financia the basics o inderstanding	f accounting basic infor	, managemen , managemen mation such	terpretat nake the nt, busin as in the	ion of using research right decisions and o ess economics, financial statements	a method: efficient b and othe	s by pusines er sourc
Course / module objectives Prerequisites	 financial informati management. knowledge - the skills - students competence (atti to observe and an 	nvironment on on contained in student knows can read with u tudes) - studen alyze the enviro	their behavi n the financia the basics o inderstanding thas instille onment.	for. Understa al statements f accounting g basic infor d habits of li	nding and in s in order to r , manageme mation such felong learni	terpretat nake the nt, busin as in the ng, the a	ion of using research right decisions and o ess economics, financial statements bility to work in a gro	a method: efficient b and othe	s by ousines: er sourc s prepar
Course / module objectives Prerequisites	the impact of the e financial informati management. - knowledge - the - skills - students - competence (atti to observe and an	nvironment on on contained in student knows can read with u tudes) - studen alyze the enviro	their behavin the financia the basics o understanding thas instille onment.	ior. Understa al statements f accounting g basic infor d habits of li a OUTCOMES	nding and in s in order to r , managemer mation such felong learni	terpretat make the nt, busin as in the ng, the a	ion of using research right decisions and o ess economics, financial statements bility to work in a gro	a method: efficient t and othe up and is	s by ousines: er sourc
Course / module objectives Prerequisites Category	the impact of the e financial informati management. - knowledge - the - skills - students - competence (atti to observe and an	nvironment on on contained in student knows can read with u tudes) - studen alyze the enviro	n their behavi n the financia the basics o understanding thas instille onment. LEARNING	ior. Understa al statements f accounting g basic infor d habits of li 6 OUTCOMES n	nding and in s in order to r , managemen mation such felong learni	terpretat nake the nt, busin as in the ng, the a	ion of using research right decisions and o ess economics, financial statements bility to work in a gro	a method: efficient t a and othe oup and is Ref. to p bench	s by pusines er sourc prepar
Course / module objectives Prerequisites Category	the impact of the e financial informati management. - knowledge - the - skills - students - competence (atti to observe and an Nc	EP1	their behaving the financia the basics of a solution of the basics of a solution of the basics of the basic of	ior. Understa al statements f accounting g basic infor d habits of li c OUTCOMES n n nas an unde f financial s	nding and in s in order to r , manageme mation such felong learni S erstanding o statements	terpretat nake the nt, busin as in the ng, the a of the ba and rep	ion of using research right decisions and o ess economics, financial statements bility to work in a gro asic information orts.	Ref. to p benck	s by pusines: or source prepar
Course / module objectives Prerequisites Category knowledge	the impact of the e financial informati management. - knowledge - the s - skills - students - competence (atti to observe and an No	EP2	their behavion the financia the basics or inderstanding thas instille onment.	ior. Understa al statements f accounting g basic infor d habits of li a OUTCOMES n nas an under f financial s nas an under valuation n ize the con	nding and in s in order to r , managemen mation such felong learni S erstanding of statements erstanding of neasures pl npany.	terpretat nake the nt, busin as in the ng, the a of the ba and rep of the ba	ion of using research right decisions and o ess economics, financial statements bility to work in a gro asic information orts. asic construction na that	Ref. to p bench	s by pusines er source prepar program nmarks W07
Course / module objectives Prerequisites Category knowledge	the impact of the e financial informati management. - knowledge - the s - skills - students - competence (atti to observe and an No 1 2	EP3	 their behavion the financia the basics or understanding that instille onment. LEARNING Description Student has of e character 	ior. Understa al statements f accounting g basic infor d habits of li a OUTCOMES n has an under of financial s has an under valuation n rize the com has the abili- ge to descri	nding and in s in order to r , management mation such felong learni s erstanding of statements erstanding of neasures pl npany. ity to use of be and ana g place in t	terpretat nake the nt, busin as in the ng, the a of the ba and rep of the ba nenome f basic t lyze spe he enter	asic information orts. asic construction na that heoretical period	Ref. to p bencl K_	s by pusines er source prepar program hmarks W07 W07
Course / module objectives Prerequisites Category knowledge skills	the impact of the e financial informati management. - knowledge - the : - skills - students - competence (atti to observe and an 1 2 1 2	EP3 EP4	 hteir behaving in the financia the basics of an entity of the basics of the basics of the basic of the ba	ior. Understa al statements f accounting g basic infor d habits of li a OUTCOMES n as an under of financial s mas an under valuation n rize the con mas the abili- ge to descri- esses takin mas the abili- te the effec	nding and in s in order to r mation such felong learni s erstanding of statements erstanding of neasures pl npany. ity to use of be and ana g place in t ity to the us ts.	terpretat nake the nt, busin as in the ng, the a of the ba and rep of the ba nenome f basic t lyze spe he enter se of app	ion of using research right decisions and o ess economics, financial statements bility to work in a gro asic information orts. asic construction na that heoretical ecific phenomena rprise.	Ref. to p bencl K_ K_ K_	s by pusines er source prepar program hmarks W07 W07 W07
Course / module objectives Prerequisites Category knowledge skills	the impact of the e financial informati management. - knowledge - the : - skills - students : - competence (atti to observe and an 1 2 1 2 3	EP1 EP2 EP4 EP5	 hteir behaving in the financia the basics or inderstanding thas instille onment. LEARNING Description Student has instille ontent or inderstanding that instille on the second student has instituted and procession. 	or. Understa al statements f accounting g basic infor d habits of li a OUTCOMES n has an under of financial s has an under valuation n ize the con has the abili- ge to descri esses takin has the abili- te the effec- has the abili- te the effec- has the abili- te the effec- has the abili- te to descri	nding and in s in order to r , managemen mation such felong learni s erstanding of statements erstanding of heasures pl hpany. ity to use of be and ana g place in t ity to use of be and ana g place in t	terpretat nake the nt, busin as in the ng, the a of the ba and rep of the ba and rep of the ba intenome f basic t lyze spe he enter basic t	ion of using research right decisions and o ess economics, financial statements bility to work in a gro asic information orts. asic construction na that heoretical ecific phenomena rprise. propriate methods heoretical ecific phenomena rprise.	Ref. to p bencl K_ K_ K_	s by pusines: r source prepar orogramm nmarks W07 W07 U07 U07
Course / module objectives Prerequisites Category knowledge skills social competences	the impact of the e financial informati management. - knowledge - the s - skills - students - competence (atti to observe and an 1 2 1 2 3 1	Implicit on the provision of the provision	 their behavion the financia the basics or understanding thas instille onment. LEARNING Description Student h content or cont	ior. Understa al statements f accounting g basic infor d habits of li a OUTCOMES n has an under of financial s has an under financial s has an under financial s has an under svaluation n has the ability to descri esses takin has the ability to descri esses takin has the ability for the ability for the ability for the	nding and in s in order to r , management mation such felong learni s erstanding of statements erstanding of heasures pl hpany. ity to use of be and ana g place in t ity to the us ts. ity to use of be and ana g place in t ity to use of be and ana g place in t	terpretat nake the nt, busin as in the as in the ng, the a of the ba and rep of the ba and rep of the ba in the basic t lyze spe he enter f basic t lyze spe he enter decisio	ion of using research right decisions and o ess economics, financial statements bility to work in a gro asic information orts. asic construction na that heoretical ecific phenomena rprise. propriate methods heoretical ecific phenomena rprise.	Ref. to p bencl K_ K_ K_ K_ K_	s by pusines: r source prepar marks W07 W07 U07 U13 U07 K04
Course / module objectives Prerequisites Category knowledge skills social competences	the impact of the e financial informati management. - knowledge - the s - skills - students - competence (atti to observe and an 1 2 1 2 3 1	Implicit on contained in contained in contained in student knows can read with u tudes) - studen alyze the environ contained in contained with u tudes) - studen alyze the environ contained in contained with u tudes) - studen alyze the environ contained with u tudes and the environ contained withe environ contained with u tudes and the e	 their behavion the financia the basics or understanding thas instille onment. LEARNING Description Student h content or content or content or content or content or content or content has and process. Student h knowledg and process. 	ior. Understa al statements f accounting g basic infor d habits of li a OUTCOMES n has an under of financial s has an under financial s has an under valuation n rize the com has the ability to descri esses takin has the ability to descri esses takin has the ability for the	nding and in s in order to r management mation such felong learni s erstanding of statements erstanding of heasures pl npany. ity to use of be and ana g place in t ity to use of be and ana g place in t ity to use of be and ana g place in t	terpretat nake the nt, busin as in the as in the ng, the a of the ba and rep of the ba and rep of the ba and rep of the ba se of app f basic t lyze spe he enter decisio	asic information orts. asic construction na that heoretical ecific phenomena rprise. propriate methods heoretical ecific phenomena rprise. propriate methods	Ref. to p bencl K_ K_ K_ K_ K_ K_ K_	s by pusines or source prepaie worgram hmarks W07 W07 U07 U07 U13 U07 K04 hours

1. The nature and role of	analysis in business management.	3	2	0
2. Criteria for the classific conditions.	ation of economic analysis methods and their usefulness in the current market	3	2	0
3. Characteristics of sour	ces of information for economic analysis.	3	1	0
4. A preliminary assessm	ent of the situation of the assets.	3	2	0
5. A preliminary assessm	ent of the situation of the capital.	3	1	0
6. Evaluation of short-term	n and long-term static liquidity.	3	2	0
7. Cash conversion cycle	3	2	0	
8. The nature and assess	3	1	0	
9. Concept and measuren	3	2	0	
Format of instruction: discu	ussion classes	-		
1. Reading the basic finar	ncial statements of the selected companies.	3	2	0
2. Methods of economic a factors.	analysis: logarithm and subsequent substitutions - tasks with two or three	3	2	0
3. A preliminary assessm	3	2	0	
4. A preliminary assessm	3	2	0	
5. Analysis of a company	3	2	0	
6. Project presentation.	3	2	0	
7. Summarising knowledg	3	1	0	
8. The role of Corporate S	Social Responsibility in financial analysis - examples.	3	2	0
Format of instruction: labor	ratory			
1. Study of short-term and	d long-term financial static liquidity of company X.	3	2	0
2. Establishing and interp	pretation of the cash conversion cycle (operating, net).	3	2	0
3. Evaluation of net worki conversion cycle (operati	ng capital in the company X. Identifying and interpretation of the cash ng, net).	3	2	0
4. Assessment of the con	npany's profitability.	3	3	0
5. Corporate debt analysi	S.	3	2	0
6. Analysis of a company	's financial condition - case study.	3	4	0
Modes of delivery	Lectures, case study, exercises.			
			No. of I outcome sylla	earning from the abus
	EGZAMIN PISEMNY		EP1 FP2	EP3
Assessment methods	KOLOKWIUM		EP3,EP4,	EP5
	PROJEKT		EP6	
	Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze sz zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.	zczególnymi potrzeb	ami na warui	nkach i
	Credit for lectures: in the form of a written exam. Credit for classes and laboratory classes: consists of a written test (50%) and a achievements in the field of knowledge (theoretical questions) and student ski interpretation).	a project (50%). Te II (practical tasks t	est tests the ogether wi	e th an
Grading criteria	Grade calculation principles The final grade is a weighted average of: 30% of the laboratory classes grade,	30% of the classes	s grade, and	d 40%
	grade of the lectures. Grading of the credit: 51-60% of points - satisfactory; 61-70% - satisfactory +; 7 91%- very good.	71-80% - good; 81-	90% - good	l +; from

	Sem.	Course		Type of credit	Grade calc. method	Weight for the average				
	3	analiza ekonomica enterprise)	zna w przedsi biorstwie (economic analysis i	n	Wa ona					
method	3	analiza ekonomica enterprise) (wykła	zna w przedsi biorstwie (economic analysis i dl	ⁿ egzamin		0,40				
	3	analiza ekonomica enterprise) [labora	zna w przedsi biorstwie (economic analysis i atorium]	n zaliczenie z ocen		0,30				
	3	analiza ekonomica enterprise) [wicz	zna w przedsi biorstwie (economic analysis i enia]	n zaliczenie z ocen		0,30				
	Bragg	S.M. (2014): Financ	ial Analysis: Second Edition A Business Deci	sion Guide. Edition	: 2					
Basic reading	Brigha	Brigham E.F., Houston J.F. (2009): Fundamentals of Financial Management, South-Western Cengage Learning								
	Friedlo	Friedlob G.T., Schleifer L.F. (2003): Essentials of Financial Analysis, John Wiley & Sons								
Supplementary reading	Lee A. Planni	C., Lee J.C., Lee C. ng & Forecasting: Tl	F. (2009): Financial Analysis, Planning & For heory and Application, World Scientific Publis	ecasting: Theory a hing Co. Pte. Ltd	nd Application" Fir	nancial Analysis,				
			STUDENT WORKLOAD							
			No. of hours							
				W tym e-lea	W tym e-learning					
Contact hours			45	0						
Participation in test / ex	am		4	0						
Preparation for contact	hours		15	0						
Private reading and stu	dying		15	0						
Participation in tutorials			8	0						
Preparation of project /	essay /	etc.	5	0						
Preparation for test / ex	am		8	0						
TOTAL workload			100							
ECTS credits			4							

Curriculum title: 01000/047

USEFZ-EalTA-O-I-S	-23/24Z								
Unit: In ynieria informaty	vczna biznesu (IT eng	gineering in	business)	[moduł]				
Course title: analiza i projektowa (KIERUNKOWE)	anie systemów i	inforn	nacyjnych (I	IS analysis	s and design))	Course code: US71AIJ2717_5	i0S	
Name of field of study: Economics and IT A	Applications								
Mode and cycle of study: first-degree, full - ti	me		Profile of study general aca	y: ademic		Specialt	y:		
Course / module status elective		I			Language semeste	of instruction: er: 4 - english langu	Jage		
Year	Semeste	۲	Form	n of	No. d	of hours	Type of credit	F	FCTS
	Centeste	-	instruction			w tym e-learning			-010
2	4		labora	atory	30	0	pg		4
			lectu	ıre	15	0	pg		
Total						45			4
Course / module coordinator	dr KAROLINA	MUSZ	Y SKA						
Course instructor	dr KAROLINA	MUSZ	Y SKA						
Course / module objectives	The goal of th design and IT the acquired k	e cour tools mowle	rse is to famil supporting th edge for analy	iarize the st nis field, as /zing and de	tudent with the well as to help esigning inforr	e theoretical issues o the student acquire nation systems.	f information system the ability to use the	s analysi se tools a	s and and utilize
Prerequisites	Basic skills in	comp	outer and Inte	rnet use.					
				LEARNIN	G OUTCOMES				
Category		No.	Code	Descripti	on			Ref. to benc	programme hmarks
		1	EP1	Student information	knows and ι tion systems	Inderstands the co analysis and desig	ncepts of gn.	К_	_W08
knowledge		2	EP2	Student systems and defi	is familiar w analysis and ne requireme	ith the methods of d design and know ents.	information rs how to capture	K_	_W13
		3	EP3	Student and des	is familiar wi ign of inform	ith IT tools support ation systems.	ting the analysis	K_	_W08
		1	EP4	Student exempla function methods	can use the ary informations and inform s and tools.	theoretical knowle on system, to mode ation structures, u	dge to analyze an el selected sing appropriate	K_ K_	_U08 _U12
skills		2	EP5	Student design t	can use the he user's inte	acquired methods erface for an exem	and IT tools to plary system.	K_ K_	_U08 _U12
		3	EP6	Student internati busines	can easily co ional group c s tasks and p	ommunicate in Eng f people in order to projects.	glish in an o carry out	K_ K_	_U16 _U18
social competences		1	EP7	Student it to solv systems	is ready to s ve issues reg in organizat	upplement their kr arding developme ions.	nowledge and use nt of information	ĸ	_K02
			CONTENT				Semester	No. o	f hours
									w tym e- learning
Subject title: analiza i p	rojektowanie sys	stemóv	v informacyjn	nych (IS ana	alysis and desi	gn)			
Format of instruction: le	cture								

1. Introduction to the ana	alysis and		4	2	0				
2. Methods of gathering, dynamics of the system	defining - use case	and documenting system requirements; modeling the function e diagrams.	ons and	4	2	0			
3. Modeling the informati	ion struct	ures - class/object diagrams.		4	2	0			
4. Modeling the functions	s and dyn	amics of the system - activity and sequence diagrams.		4	2	0			
5. Designing the databas class diagram.	se and phy	ysical structure of the system - generating physical data mod	lel from	4	2	0			
6. Types and principles o	of designi	ng system user interface.		4	2	0			
7. Alternative approaches	7. Alternative approaches to system analysis and design. 4								
Format of instruction: labo	oratory								
1. Definition of the design that require informatization	4	2	0						
2. Identification and desc	4	2	0						
3. Modeling the functions	s - use ca	se diagrams.		4	4	0			
4. Modeling the informati	ion struct	ures - class diagram.		4	4	0			
5. Modeling the dynamics	s of the s	ystem - activity diagrams.		4	4	0			
6. Interaction diagrams -	sequenc	e diagrams.		4	4	0			
7. Design of database an	d physica	al structure of the system.		4	2	0			
8. Design of windows for	4	4	0						
9. Design of web form us	ser's inter	face.		4	4	0			
Modes of delivery	multim	edia presentations, teamwork, case study, lecture based on	multimedia prese	entations					
				No. of learning outcome from the syllabus					
					outcome	from the abus			
					outcome	from the abus			
Assessment methods	KOLOP	(WIUM			ep1,EP2,	EPS			
Assessment methods	KOLOP PROJE	(WIUM KT			EP1,EP2,	EP3 EP6,EP7			
Assessment methods	KOLOF PROJE Metody i zasadach	(WIUM KT formy weryfikacji efektów uczenia si mog zosta zmienione dla stu n okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.	dentów ze szczegó	Inymi potrzeba	EP1,EP2, EP4,EP5,	EP3 EP6,EP7			
Assessment methods	KOLOH PROJE Metody i zasadach Written analysi minimu Project analysi minimu	KWIUM KT formy weryfikacji efektów uczenia si mog zosta zmienione dla stu nokre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. In test verifies the achievement of learning outcomes in terms is and design, as well as methods and tools supporting this a um of 51% of points must be obtained. Is verifies the achievement of learning outcomes on practical is and design for a sample system using the known tools /dia um of 51% of points must be obtained.	dentów ze szczegó of knowledge re area. To get a pos skills and teamwo grams. To get a	Inymi potrzeba garding infor sitive grade f ork. Projects positive grac	EP1,EP2, EP4,EP5, ami na waruu mation sys rom the tes focus on p le from the	From the abus EP3 EP6,EP7 Inkach i Stems St a performing project a			
Assessment methods	KOLOP PROJE Metody i zasadacl Written analysi minimu Project analysi minimu Grade d	KWIUM KT formy weryfikacji efektów uczenia si mog zosta zmienione dla stu o kre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. In test verifies the achievement of learning outcomes in terms is and design, as well as methods and tools supporting this a um of 51% of points must be obtained. Is verifies the achievement of learning outcomes on practical is and design for a sample system using the known tools /dia um of 51% of points must be obtained. Is and design for a sample system using the known tools /dia um of 51% of points must be obtained.	dentów ze szczegó of knowledge re area. To get a pos skills and teamwo grams. To get a	Inymi potrzeba garding infor sitive grade f ork. Projects positive grac	EP1,EP2, EP4,EP5, ami na waruu rmation sys rom the tes focus on p le from the	From the abus EP3 EP6,EP7 Inkach i Stems St a performing project a			
Assessment methods	KOLOP PROJE Metody i zasadach Written analysi minimu Project analysi minimu Grade o The fin (70%).	KWIUM KT formy weryfikacji efektów uczenia si mog zosta zmienione dla stu nokre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. In test verifies the achievement of learning outcomes in terms is and design, as well as methods and tools supporting this a um of 51% of points must be obtained. It verifies the achievement of learning outcomes on practical is and design for a sample system using the known tools /dia um of 51% of points must be obtained. It verifies the achievement of learning outcomes on practical is and design for a sample system using the known tools /dia um of 51% of points must be obtained. It is an design for a sample system using the known tools /dia um of 51% of points must be obtained. It is an design principles al grade of the course is a weighted average of the two grade. The pass is granted only in case of positive assessment of b	dentów ze szczegó of knowledge re area. To get a pos skills and teamwo agrams. To get a es - from the written te	Inymi potrzeba garding infor sitive grade f ork. Projects positive grac ten test (30%	EP1,EP2, EP4,EP5, ami na waruu rmation sys rom the tes focus on p le from the ple from the project.	From the abus			
Assessment methods	KOLOP PROJE Metody i zasadacl Written analysi minimu Project analysi minimu Grade o The fin (70%).	KWIUM KT formy weryfikacji efektów uczenia si mog zosta zmienione dla stu okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. test verifies the achievement of learning outcomes in terms s and design, as well as methods and tools supporting this a um of 51% of points must be obtained. verifies the achievement of learning outcomes on practical s and design for a sample system using the known tools /dia um of 51% of points must be obtained. calculation principles al grade of the course is a weighted average of the two grade The pass is granted only in case of positive assessment of b Course	dentów ze szczegó of knowledge re area. To get a pos skills and teamwo grams. To get a es - from the writt oth the written te Type of credit	Inymi potrzeba garding infor sitive grade f ork. Projects positive grac ten test (30% est and the pr Grade cal method	EP1,EP2, EP4,EP5, ami na waruu rmation sys rom the tes focus on p le from the project.	From the abus			
Assessment methods Grading criteria Final grade calculation	KOLOP PROJE Metody i zasadach Written analysi minimu Grade o The fin (70%). Sem. 4	KWIUM KT formy weryfikacji efektów uczenia si mog zosta zmienione dla stu okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. it test verifies the achievement of learning outcomes in terms is and design, as well as methods and tools supporting this a um of 51% of points must be obtained. verifies the achievement of learning outcomes on practical is and design for a sample system using the known tools /dia um of 51% of points must be obtained. calculation principles al grade of the course is a weighted average of the two grade The pass is granted only in case of positive assessment of b Course analiza i projektowanie systemów informacyjnych (IS analysis and design)	dentów ze szczegó of knowledge re area. To get a pos skills and teamwo grams. To get a es - from the writt oth the written te Type of credit	Inymi potrzeba garding infor sitive grade f ork. Projects positive grac ten test (30% est and the pr Grade cal method Wa ona	EP1,EP2, EP4,EP5, ami na waruu rmation sys rom the test focus on p le from the plant the p roject.	From the abus EP3 EP6,EP7 Inkach i Stems St a performing project a project a ght for the iverage			
Assessment methods Grading criteria Final grade calculation method	KOLOP PROJE Metody i zasadach Written analysi minimu Grade o The fin (70%). Sem. 4 4	KWIUM KT formy weryfikacji efektów uczenia si mog zosta zmienione dla stu okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. itest verifies the achievement of learning outcomes in terms is and design, as well as methods and tools supporting this a um of 51% of points must be obtained. verifies the achievement of learning outcomes on practical s and design for a sample system using the known tools /dia um of 51% of points must be obtained. calculation principles al grade of the course is a weighted average of the two grade The pass is granted only in case of positive assessment of b Course analiza i projektowanie systemów informacyjnych (IS analysis and design) analiza i projektowanie systemów informacyjnych (IS analysis and design) [laboratorium]	dentów ze szczegó of knowledge re area. To get a pos skills and teamwo grams. To get a es - from the writt oth the written te Type of credit zaliczenie z ocen	Inymi potrzeba garding infor sitive grade f ork. Projects positive grac ten test (30% est and the pr Grade cal method Wa ona	EP1,EP2, EP4,EP5, ami na waruu mation sys rom the tes focus on p le from the p) and the p roject.	From the abus EP3 EP6,EP7 Inkach i Stems St a Derforming Project a Groject Ght for the Verage 0,70			
Assessment methods Grading criteria Final grade calculation method	KOLOH PROJE Metody i zasadach Written analysi minimu Grade o The fin (70%). Sem. 4 4	KWIUM KT formy weryfikacji efektów uczenia si mog zosta zmienione dla stu okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. itest verifies the achievement of learning outcomes in terms is and design, as well as methods and tools supporting this a um of 51% of points must be obtained. verifies the achievement of learning outcomes on practical s and design for a sample system using the known tools /dia um of 51% of points must be obtained. calculation principles al grade of the course is a weighted average of the two grade The pass is granted only in case of positive assessment of b Course analiza i projektowanie systemów informacyjnych (IS analysis and design) analiza i projektowanie systemów informacyjnych (IS analysis and design) [laboratorium] analiza i projektowanie systemów informacyjnych (IS analysis and design) [wykład]	dentów ze szczegó of knowledge re area. To get a pos skills and teamwo grams. To get a es - from the writt oth the written te Type of credit zaliczenie z ocen zaliczenie z ocen	Inymi potrzeba garding infor sitive grade f ork. Projects positive grac ten test (30% est and the pr Grade cal method Wa ona	EP1,EP2, EP4,EP5, ami na waruu mation sys rom the tes focus on p le from the oj and the p roject.	From the abus EP3 EP6,EP7 Inkach i Stems St a Derforming Project a Gynt for the Iverage 0,70 0,30			
Assessment methods Grading criteria Final grade calculation method Basic reading	KOLOP PROJE Metody i zasadach Written analysi minimu Project analysi minimu Grade o The fin (70%). Sem. 4 4 4 4 4	KWIUM KT formy weryfikacji efektów uczenia si mog zosta zmienione dla stu nokre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. notre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. notest verifies the achievement of learning outcomes in terms s and design, as well as methods and tools supporting this a um of 51% of points must be obtained. reverifies the achievement of learning outcomes on practical is and design for a sample system using the known tools /dia um of 51% of points must be obtained. calculation principles al grade of the course is a weighted average of the two grade The pass is granted only in case of positive assessment of b Course analiza i projektowanie systemów informacyjnych (IS analysis and design) analiza i projektowanie systemów informacyjnych (IS analysis and design) [laboratorium] analiza i projektowanie systemów informacyjnych (IS analysis and design) [wykład] ch J.S., George J.F. (2020): Modern Systems Analysis and Desig	dentów ze szczegó of knowledge rej area. To get a pos skills and teamwo grams. To get a es - from the written oth the written te Type of credit zaliczenie z ocen zaliczenie z ocen n, 9th Edition, Pea	Inymi potrzeba garding infor sitive grade f ork. Projects positive grac ten test (30% est and the pr Grade cal method Wa ona	EP1,EP2, EP4,EP5, ami na waruu rmation sys rom the tes focus on p le from the poject.	From the abus EP3 EP6,EP7 Inkach i Stems St a Derforming Project a Ght for the Iverage 0,70 0,30			
Assessment methods Grading criteria Final grade calculation method Basic reading	KOLOP PROJE Metody i zasadach Written analysi minimu Project analysi minimu Grade o The fin (70%). Sem. 4 4 4 4 4 4 5 Seidl M Springe	CWIUM KT formy weryfikacji efektów uczenia si mog zosta zmienione dla stu nokre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. it test verifies the achievement of learning outcomes in terms is and design, as well as methods and tools supporting this a um of 51% of points must be obtained. verifies the achievement of learning outcomes on practical is and design for a sample system using the known tools /dia um of 51% of points must be obtained. calculation principles al grade of the course is a weighted average of the two grade The pass is granted only in case of positive assessment of b Course analiza i projektowanie systemów informacyjnych (IS analysis and design) analiza i projektowanie systemów informacyjnych (IS analysis and design) [laboratorium] analiza i projektowanie systemów informacyjnych (IS analysis and design) [wykład] ch J.S., George J.F. (2020): Modern Systems Analysis and Desig ., Scholz M., Huemer Ch., Kappel G. (2015): UML @ Classroom: ar	dentów ze szczegó of knowledge rea area. To get a pos skills and teamwo grams. To get a es - from the written oth the written te Type of credit zaliczenie z ocen zaliczenie z ocen n, 9th Edition, Pea An Introduction to	Inymi potrzeba garding infor sitive grade f ork. Projects positive grac ten test (30% est and the pr Grade cal method Wa ona Wa ona	EP1,EP2, EP4,EP5, ami na waruu rmation sys rom the tes focus on p le from the coject.	From the abus EP3 EP6,EP7 Inkach i Stems St a Derforming Project a Oroject O,70 0,30 Dg,			
Assessment methods Grading criteria Final grade calculation method Basic reading Supplementary reading	KOLOP PROJE Metody i zasadaci Written analysi minimu Grade o The fin (70%). Sem. 4 4 4 4 Valacio Seidl M Springe Wrycza	KWIUM KT formy weryfikacji efektów uczenia si mog zosta zmienione dla stu okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. test verifies the achievement of learning outcomes in terms is and design, as well as methods and tools supporting this a um of 51% of points must be obtained. sverifies the achievement of learning outcomes on practical is and design for a sample system using the known tools /dia um of 51% of points must be obtained. salculation principles al grade of the course is a weighted average of the two grade The pass is granted only in case of positive assessment of b Course analiza i projektowanie systemów informacyjnych (IS analysis and design) analiza i projektowanie systemów informacyjnych (IS analysis and design) [laboratorium] analiza i projektowanie systemów informacyjnych (IS analysis and design) [wykład] ch J.S., George J.F. (2020): Modern Systems Analysis and Desig ., Scholz M., Huemer Ch., Kappel G. (2015): UML @ Classroom: str	dentów ze szczegó of knowledge re- area. To get a pos skills and teamwo agrams. To get a es - from the written oth the written te Type of credit zaliczenie z ocen zaliczenie z ocen n, 9th Edition, Pea An Introduction to	Inymi potrzeba garding infor sitive grade f ork. Projects positive grac ten test (30% est and the pr Grade cal method Wa ona Wa ona	EP1,EP2, EP4,EP5, ami na waruu roation sys rom the tes focus on p le from the o) and the p roject.	From the abus EP3 EP6,EP7 Inkach i Stems St a Derforming Project a Groject Ght for the Iverage 0,70 0,30 Ing, Ing, Ing, Ing, Ing, Ing, Ing, Ing,			

	STUDENT WORKLOAD							
	No. of hours							
		W tym e-learning						
Contact hours	45	0						
Participation in test / exam	3	0						
Preparation for contact hours	10	0						
Private reading and studying	6	0						
Participation in tutorials	12	0						
Preparation of project / essay / etc.	14	0						
Preparation for test / exam	10	0						
TOTAL workload	100							
ECTS credits	4							

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Course title: Course code: US71AIJ2857_1S analiza matematyczna (mathematical analysis) (PODSTAWOWE) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Profile of study: Specialty: general academic first-degree, full - time Course / module status Language of instruction: semester: 1 - english language obligatory No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning discussion classes 30 0 pg 1 1 4 15 0 lecture е Total 45 4 Course / module dr BARBARA BATÓG coordinator Course instructor dr BARBARA BATÓG Course / module Course deals with differential and integral calculus for single and many variable functions; elements of this course will objectives be used in other courses (for example economics, statistics and econometrics) Knowledge: student knows mathematics on the high school level Skills: student is able to solve mathematical problems on the high school level Prerequisites Social competencies: student studies systematically LEARNING OUTCOMES Ref. to programme Code Description Category No. benchmarks student is able to explain the concept of limits, continuity, monotonicity, extrema, convexity, curvature, 1 EP1 K_W05 inflection points and asymptotes for single variable function. knowledge Student is able to explain the concept of indefinite and EP2 2 K_W05 definite integral for single variable function. Student knows necessary and sufficient conditions of EP3 3 K_W05 existing of extrema of many variable functions. Student is able to analyze the properties of single 1 EP4 variable functions by means of derivatives; student K U05 computes elasticities and marginal values. Student is able to use integration by substitution and by skills EP5 2 parts in computing basic types of indefinite and definite K_U05 integrals. Student is able to compute local extrema of many 3 EP6 K U05 variable functions. Student is ready to apply mathematical analysis in EP7 social competences 1 K K02 economic problems. No. of hours CONTENT Semester w tym elearning Subject title: analiza matematyczna (mathematical analysis) Format of instruction: lecture 1. Cartesian product. Definition and properties of functions: injection, surjection, bijection, monotonicity, 2 inverse functions, cyclometric functions, function composition. Elementary functions. Examples of 1 0 countable and uncountable sets. 2. Metric space. Neighborhood and punctured neighborhood, open and closed set, bounded set. Limits 2 0 1 of the sequences, convergent and divergent sequences, Euler's number e, indeterminate forms.

3. Definition and properti	es of lim	its and continuity.			1	1	0					
4. Difference quotient, de differentiable function, de higher-order derivatives.	efinition a erivative Derivati	and properties of d s of elementary fu ves in geometry ar	lerivative of single variable function, prope nctions; rules for finding the derivatives, di nd economics.	rties of fferential,	1	2	0					
5. Lagrange's and Rolle's necessary and sufficient points, curvature. L'Hôpi	theoren conditio tal's rule	ns. Application of on ns of existing of lo . Asymptotes.	derivatives to analyze single variable function ocal and global extrema, monotonicity, infle	ions: ection	1	4	0					
6. Indefinite integrals, int	egration	by substitution an	d by parts.		1	1	0					
7. Riemann definite integ between definite integral	ral, fund and area	amental theorem o a.	of integral calculus. Improper integrals. Rel	ationship	1	2	0					
8. Differentiability, partial	l derivati	ves and local extre	ema of many variable functions.		1	1	0					
Format of instruction: disc	ussion c	lasses				-						
1. Cartesian product. Def inverse functions, cyclon	inition a	nd properties of functions, functions	nctions: injection, surjection, bijection, mo omposition. Elementary functions.	onotonicity,	1	4	0					
2. Limits of the sequence	es, conve	rgent and diverge	nt sequences, Euler's number e, indetermin	nate forms.	1	2	0					
3. Limits and continuity of	of functio	ons.			1	2	0					
4. Computing the derivat		1	4	0								
5. Application of derivative existing of local and glob Asymptotes.	ves to an bal extrer	alyze single variat na, monotonicity, i	ble functions: necessary and sufficient con inflection points, curvature. L'Hôpital's rule	ditions of	1	6	0					
6. Computing basic types	/ parts.	1	4	0								
7. Computing basic types of definite integrals. Area of figures.						4	0					
8. Partial derivatives and local extrema of many variable functions.						4	0					
Modes of delivery	Lectur	e, exercises in gro	ups.									
						No outo	o. of learning come from the syllabus					
Assessment methods	EGZAMIN PISEMNY EP1,EP2,EP3,EP4,E P5,EP6,EP7											
	KOLOKWIUM EP4,EP5,EP6,EP7											
	Metody i zasadac	formy weryfikacji efe h okre lonych w Reg	ektów uczenia si mog zosta zmienione dla stu ulaminie Studiów Uniwersytetu Szczeci skiego.	identów ze szcze	gólnymi potrzek	oami na	warunkach i					
	Exerci Lectur	ses: 2 colloquia - r es: exam - max. 5	nax. 5 problems each problems and max. 5 theoretical questions									
Grading criteria	Grade calculation principles											
	The fir	al grade is calcula	nted as an average of grades of exercises a	nd lectures.								
	Sem.	Course		Type of cred	t Grade ca	alc. d	Weight for the average					
Final grade calculation	1	analiza matematy	czna (mathematical analysis)		Arytmetyc	zna						
	1	analiza matematy	czna (mathematical analysis) [wiczenia]	zaliczenie z ocen								
	1	analiza matematy	czna (mathematical analysis) [wykład]	egzamin								
	Batóg I	B., Bieszk-Stolorz B	., Fory I., Guzowska M., Heberlein K. (2021):	Mathematics for	r Students of E	conom	ics, Finance and					
Basic reading	Ivianag	ement, Dinn		Hoffmann L.D., Bradley G.L. (2006): Calculus for Business, Economics, and the Social and Life Sciences, McGraw-Hill Science/Engineering/Math								
	Hoffma Scienc	inn L.D., Bradley G. e/Engineering/Math	L. (2006): Calculus for Business, Economics,	and the Social a	nd Life Scienc	es, McG	Fraw-Hill					
	Hoffma Scienc Marvin Educat	inn L.D., Bradley G. e/Engineering/Math L. Bittinger, David J ion, Boston	L. (2006): Calculus for Business, Economics, J.Ellenbogen, Scott A.Surgent (2012): Calculu	and the Social a	nd Life Scienc tions, Addison	es, McC -Wesley	/, Pearson					
Supplementary reading	Hoffma Scienc Marvin Educat Ciałow Econor	inn L.D., Bradley G. e/Engineering/Math L. Bittinger, David C ion, Boston icz B. (2017): Workd nics Press	L. (2006): Calculus for Business, Economics, J.Ellenbogen, Scott A.Surgent (2012): Calculus outs in Calculus and Linear Algebra with Appli	and the Social a s and its Applica cations in Econo	nd Life Scienc tions, Addison omics, Cracow	es, McC -Wesley Univers	/, Pearson					
Supplementary reading	Manag Hoffma Scienc Marvin Educat Ciałow Econor	inn L.D., Bradley G. e/Engineering/Math L. Bittinger, David J ion, Boston icz B. (2017): Worko nics Press	L. (2006): Calculus for Business, Economics, J.Ellenbogen, Scott A.Surgent (2012): Calculus puts in Calculus and Linear Algebra with Appli STUDENT WORKLOAD	and the Social a s and its Applica cations in Econo	nd Life Scienc tions, Addison omics, Cracow	es, McC -Wesley Univers	ity of					
Supplementary reading	Manag Hoffma Scienc Marvin Educat Ciałow Econor	inn L.D., Bradley G. e/Engineering/Math L. Bittinger, David J ion, Boston icz B. (2017): Worko nics Press	L. (2006): Calculus for Business, Economics, J.Ellenbogen, Scott A.Surgent (2012): Calculus outs in Calculus and Linear Algebra with Appli STUDENT WORKLOAD No. of hours	and the Social a s and its Applica cations in Econo	nd Life Scienc tions, Addison omics, Cracow	es, McC -Wesley Univers	ity of					
Supplementary reading	Manag Hoffma Scienc Marvin Educat Ciałow Econor	inn L.D., Bradley G. e/Engineering/Math L. Bittinger, David C ion, Boston icz B. (2017): Workd nics Press	L. (2006): Calculus for Business, Economics, J.Ellenbogen, Scott A.Surgent (2012): Calculus outs in Calculus and Linear Algebra with Appli STUDENT WORKLOAD No. of hours	and the Social a s and its Applica cations in Econo W tym e-le	nd Life Scienc tions, Addison mics, Cracow	es, McC -Wesley Univers	ity of					

Participation in test / exam	6	0
Preparation for contact hours	15	0
Private reading and studying	5	0
Participation in tutorials	13	0
Preparation of project / essay / etc.	0	0
Preparation for test / exam	16	0
TOTAL workload	100	
ECTS credits	4	

Curriculum title:

USEFZ-EallA-U-I-S-2	23/242								
Course title: analiza pozycji rynko (PODSTAWOWE)	wej przedsi b	oiorst	w (analysis o	of enterpris	ses' market p	osition)	Course code: US71AIJ2861_	15S	
Name of field of study: Economics and IT Ap	oplications								
Mode and cycle of study: first-degree, full - tim	e		Profile of study general aca	r: ademic		Specia	lty:		
Course / module status obligatory		I			Language of semester	instruction: : 2 - english lang	uage		
Year	Semeste	er	Form of		No. of	hours	Type of credit	E	ECTS
			Instruc	tion		w tym e-learning	<i></i>		
1	2	2 dis		classes	15	0	pg		4
	_			re	15	0	pg		
Total					3	30			4
Course / module coordinator	prof. dr hab. I	GA RI	UDAWSKA	1		I		I	
Course instructor	prof. dr hab. I	GA RI	UDAWSKA						
Course / module objectives	To make stude To make stude	ents fa ents a	amiliar with th ble to practice	e principles e skills refer	of analysis of ring analysis o	market position of f market position o	enterprise. of company.		
Prerequisites	Regarding kno Regarding ski Regarding soo	owledg IIs: a s cial co	ge: a student student can in ompetencies: a	knows prino iterpret basi a student ca	ciples of macro c market mech in work in a tea	economics and pr anisms. m.	nciples of managem	ent.	
				LEARNING	GOUTCOMES				
Category		No.	Code	Descriptio	on			Ref. to p benc	orogramme hmarks
knowledge		1	EP1	Student specifics enterpris	has a basic ki and structur se.	nowledge about e of market posi	purposes, tion analysis of an	K_W01	
		2	EP2	Student position	knows princip analysis of ar	bles of methods n enterprise.	and tools of marke	t κ_	W05
skills		1	EP3	Student of encounte enterpris	can give the p ered in analys se.	proper solutions is of market pos	to typical problem ition of an	s K_	_U05
		2	EP4	Student of position	can apply bas analysis.	ic methods and	tools of market	K_	_U04
		1	EP5	Student i regarding	is ready to tal g analysis of	ke part in prepar market position.	ing projects	ĸ	_K01
social competences		2	EP6	Student i referring in entrep	is ready to for different asp reneurship.	mulate opinions ects of analysis	and views of market position	ĸ	_K04
			CONTENT				Semester	No. o	f hours
									w tym e- learning
Subject title: analiza poz	ycji rynkowej pr	zedsi	biorstw (ana	lysis of ente	erprises' marke	t position)			
Format of instruction: lec	ture								
1. Domain of market po	sition analysis	in ent	erprise.				2	1	0
2. Levels and basic eler	ments of market	posit	ion analysis o	f enterprise			2	2	0
3. External analysis of a	a company.						2	3	0
4. Sectoral analysis.							2	3	0

5. Resources and capabi	ilities in e	enterprise.			2	2	0
6. Competitive advantage	e and the	e scope of a compa	any.		2	2	0
7. Implications of the inte	ernalizati	on of market posit	ion analysis of enterprise.		2	2	0
Format of instruction: disc	ussion c	lasses			ŀ		
1. Exercise on the domai	in of mar	ket position analys	sis of enterprise		2	1	0
2. Exercise on the levels and elements of market position analysis of enterprise.					2	1	0
3. Designing external analysis of a company.					2	2	0
4. Designing sectoral and	alysis.				2	2	0
5. Exercise on the resour	rces and	capabilities of a co	ompany.		2	2	0
6. Exercise on the compe	etitive ad	vantage			2	2	0
7. Exercise on the implications of the internalization of market position analysis.			2	2	0		
8. Concluding exercise o	on applyi	ng market position	analysis of enterprise.		2	3	0
Modes of delivery	PPT p	resentation, case s	studies, discussion based on papers, team	work			
						No. of outcome sylla	learning from the abus
Assessment methods	KOLO					EP1,EP2	EP6
	FROJ	PROJEKT					,EF3
	zasadac	h okre lonych w Reg	ektow uczenia si mog zosta zmienione dla stu julaminie Studiów Uniwersytetu Szczeci skiego.	Identow ze szczego	olnymi potrzeba	mi na waru	nkach i
Grading criteria	-50% c -50% p The co The co Grade	colloquium (60% po poster prepared with pondition for passing pondition for passing calculation principle	bints) - open questions thin groups g the exercises is getting a positive grade f g the lectures is getting a positive mark in S	for a poster. the test.			
	The fir	nal grade from the	course is equal to the arithmetic mean of g	rades from the e	exercises and t	he lecture	e.
	Sem.	Course		Type of credit	Grade calo method	:. Wei a	ght for the average
Final grade calculation	2	analiza pozycji ryr enterprises' marke	nkowej przedsi biorstw (analysis of et position)		Nieobliczan	а	
method	2	analiza pozycji ryr enterprises' marke	nkowej przedsi biorstw (analysis of et position) [wykład]	zaliczenie z ocen			
	2	analiza pozycji ryr enterprises' marke	nkowej przedsi biorstw (analysis of et position) [wiczenia]	zaliczenie z ocen			
	A.War	ner (2010): Strategio	c analysis and choices, A structured approach	, Business Expert	Press, New Yo	ork	
	М.М. С	Crossan, M.J. Rouse	e et al (2011): Strategic analysis and action, 8t	h edition, Pearsor	n Canada , Tor	onto	
Basic reading	R.M.G	rant (2013): Contem	porary strategic analysis: text and cases, John	n Wiley and Sons	Ltd., 8th edition	n, Chiches	ter
	Rothae	ermel, Frank T. (201	17): Strategic management. 3th Edition, McGra	aw-Hill Education	New York		
	Harvar	d Business Review	- current issues :				
Supplementary reading	J. Blue	e (2015): Strategic A	nalysis Report, Tesla Motors & Powerwal				
			STUDENT WORKLOAD				
			No. of hours				
				W tym e-lea	tym e-learning		
Contact hours 20							
Contact hours			30	0			

Preparation for contact hours	19	0
Private reading and studying	10	0
Participation in tutorials	15	0
Preparation of project / essay / etc.	19	0
Preparation for test / exam	0	0
TOTAL workload	100	
ECTS credits	4	

Curriculum title: USEFZ-EaITA-O-I-S-2	23/24Z									
Course title: bankowo (banking (PODSTAWOWE))							Course code: US71AIWNEIZ	_16S	
Name of field of study: Economics and IT A	oplications									
Mode and cycle of study: first-degree, full - tim	ie		Profile of study general aca	/: ademic		Sp	pecialty:			
Course / module status obligatory		I			Language of semester:	instruction: : 2 - english l	langua	ige		
	Semester F ins		Form	of	No. of	hours				
Year			instruc	tion		w tym e-learni	ing	Type of credit	E	CTS
1	discussion classes		15	0		pg		Δ		
	2		lectu	re	15	0		pg		т
Total					3	0				4
Course / module coordinator	dr DOROTA S	KAŁA		•			•			
Course instructor	dr AGNIESZK	A PRE	-PEREPECZ	0						
Course / module objectives	The goal of th place within th	is cou he ban	rse is to intro king system.	duce topic	s that may be us	sed to identify	and un	derstand the prim	ary proces	ses taking
Prerequisites	The student u taking place in	nders n the f	tands the bas inancial secto	ic function or, understa	ality of financial ands the need fo	institutions, h	as an a ous stud	ability to analyse b dy process.	asic proce	esses
				LEARNIN	IG OUTCOMES					
Category		No.	Code	Description			Ref. to p benc	orogramme hmarks		
		1	EP1	Student defines and describes the rules and features regarding bank activities.		К_	W02			
knowledge		2	EP2	The stud	dent describes y and its effect	s the role of t on financia	bankir I stabi	ng system in the lity.	• K_W02	
		3	EP3	The stud	dent has know e and the effec	ledge of the cts of its evo	bankir lution.	ng system	К_	W02
akilla		1	EP4	The stud financia	dent is able to I situation and	identify fact market posi	tors sh ition of	aping the f banks.	K_ K_	U02 U17
SKIIS		2	EP5	The stue	dent is able to ing the risk-pr	analyse bas ofitability rel	sic eler lation i	nents n a bank.	К_	U02
		1	EP6	The stue weaknes	dent is prepare sses of individ	ed to clearly ual banks.	preser	nt strenghts and	K_ K_	K01 K04
social competences		2	EP7	The stue regardir	dent is interest ng bank activiti	ted in further ies.	studi	es and analyses	К_	K04
		3	EP8	The stud team, ar banks.	dent is prepare nalysing the ba	ed to act as a asic characte	n activeristics	ve member of a s of chosen	K_ K_	K01 K04
			CONTENT					Somostor	No. of	hours
			CONTENT					Semeslei		w tym e- learning
Subject title: bankowo	(banking)						I			
Format of instruction: lec	ture									
1. The structure and ch framework. The role an	anges within the difference of banks	e mod s. The	ern banking s role of bankir	ystem. Ow ng systems	nership changes in modern ecor	s. Regulatory nomies.		2	3	0
2. Bank funding structu	ires: sources, st	tability	and maturity	·				2	2	0
3. Main categories of ba	ank assets and t	their li	nks with risk	and profita	bility.			2	2	0

4. Assets and liabilities n operational risk.	Assets and liabilities management in banking. Bank risk - credit risk, liquidity risk, mar perational risk.					4	0
5. Bank capital, capital ad	dequacy	, Basle I, II and III a	greements.		2	2	0
6. The banking system an Moral hazard problems.	nd the fir	nancial safety net.	Banking supervision and deposit insurance s	ystems.	2	2	0
Format of instruction: disc	ussion c	lasses					
1. The analysis of change shareholder structure, pr	es in the ivate ve	modern banking s rsus public banks	ystems. Privatisation, nationalisation and discussion.		2	2	0
2. Bank balance sheet an	d incom	e statement analys	sis.		2	4	0
3. Main elements of the a banks, banking activities	sset and within t	l liability transaction he regulatory fram	ons and intermediation functions of commerci ework.	al	2	2	0
4. Bank risk - credit risk (case stu	ıdy).			2	2	0
5. Market risk and capital	adequa	cy: problem solvin	g, calculations.		2	2	0
6. Student presentations - analysis of chosen banks, in the context of their shareholder struct market position, profitability and risk.			, size,	2	2	0	
7. Summary and final cor	nclusion	S.			2	1	0
Modes of delivery	Power	point presentation	s, text analysis and discussion, team projects	s (student pres	senations)		
						No. of I outcome	earning from the
						sylla	abus
							FD 0
Assessment methods	KOLOKWIUM					EP1,EP2, EP4.EP5.	EP3 EP6.EP7.E
	PREZE	ENTACJA				P8	
	Metody zasadad	i formy weryfikacji ef h okre lonych w Reg	ektów uczenia si mog zosta zmienione dla stude µlaminie Studiów Uniwersytetu Szczeci skiego.	ntów ze szczegó	Inymi potrzeba	ımi na waru	nkach i
	Lectur	e grading: Written	test, in the form of a multiple choice test (80%	% points), with	2-4 additiona	al short qu	estions
	20% p	ooints). Exam grad al grades: student	ing: 50% pass, 75% grade 4.0. presentations, homework assignments and re	eports handed	in at the end	of each cl	ass.
	Stude	nt presentations: g	roup projects (3 students max), oral presenta	tions of chose	en banks duri	ng the fina	l class
Grading criteria	Grade	calculation principle	is				
	The fir	nal grade will be ca	Iculated as a weighted mean of the written te	st grade (70%)	and project/	presentatio	on grade
	(30%).	Students have to	receive a positive grade on the tutorial in orde	er to participat	e in the final	exam (lect	ures).
	Sem.	Course		Type of credit	Grade cal method	c. Wei	ght for the verage
Final grade calculation	2	bankowo (banki	ing)		Nieobliczar	na	
method	2	bankowo (banki	ing) [wykład] z	aliczenie z ocen			
	2	bankowo (banki	ing) [wiczenia]	aliczenie z cen			
	De Ha	an, J., Oosterloo, S.	, Schoenmaker, D. (2018): Financial Markets and	Institutions, C	ambridge Univ	ersity Pres	S
Basic reading	Matthe	ws, K., Mishkin, F.,	Giuliodori, M. (2013): The Economics of Money,	Banking and F	nancial Marke	t, Pearson	
	Choud	hry, M. (2012): Princ	ciples of Banking, Wiley				
Supplementary reading	Koch,	T, MacDonald, S. (2	009): Bank Management, South Western College	e Pub			
	Saund	ers, A., Cornett, M.	(2011): Financial Institutions Management: a Risl	k Management	Approach, MC	C Graw-Hill	
			STUDENT WORKLOAD				
			No. of hours				
				W tym e-lea	rning		
Contact hours			30	0			
Participation in test / exa	am		0	0			
Preparation for contact	hours		16	0			
Private reading and stud	dying		13	0			

Participation in tutorials	9	0
Preparation of project / essay / etc.	16	0
Preparation for test / exam	16	0
TOTAL workload	100	
ECTS credits	4	

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z

Course title: bazy danych na pot (KIERUNKOWE)	rzeby ekonomii ((data	bases in ec	conomic a	pplications)		Course code: US71AIJ2721_	_67S	
Name of field of study: Economics and IT A	Applications								
Mode and cycle of study: first-degree, full - tir	ne	F	Profile of stud	^{y:} ademic		Specialty	/:		
Course / module status obligatory					Language o	of instruction: r: 5 - english langu	age		
Year	Semester	,	Form	n of	No. o	No. of hours		: 6	ECTS
			Instruction			w tym e-learning			
0	_	laboratory		15	0	pg		0	
3	5	lecture		15	0	е		3	
Total						30			3
Course / module coordinator	dr AGATA WAW	VRZY	'NIAK						
Course instructor	dr AGATA WAV	VRZY	NIAK						
Course / module objectives	The aim of the o modeling relation The aim of the o	cours onal o	se is transfer databases ar se is also pre	ring knowle nd impleme paring stud	edge of design i ntation in MS S dents for using	methodology for relat QL Server environme databases in econom	tional database; de ent. lic applications.	veloping s	kills in
Prerequisites	Skills: student i Competencies: from informatio Knowledge: stu	s cor stud n tec dent	mputer literation ent is able to chnologies. has a genera	te and work work in a t	team, has deep	Windows operating e rooted habits of lifelo q of economic entitie	nvironment; ong learning and co	onsciously	/ benefits
				LEARNIN	IG OUTCOMES	5	- ,		
Category		No.	Code	Descript	Description		Ref. to benc	Ref. to programme benchmarks	
		1	EP1	Student constru	nt has knowledge concerning functioning and ruction of databases.		K_W13		
knowledge		2	EP2	Student databas	t mastered the knowledge in the scope of: se design, data structure, database normalization. t knows the Structured Query Language (SQL) oncepts and principles.			K_W13	
	-	3	EP3	Student basic co				K_	K_W13
		1	EP4	Student databas	demonstrate e in economi	s the ability to prac c applications.	tical use of the	ĸ	_U12
skills		2	EP5	Student relation	nt can independently design the structure of nal database model.			K.	_U12
		3	EP6	Student Server.	implements	ohysical database r	model in MS SQL	ĸ	_U12
		4	EP7	Student and rep	is able to ger orts.	nerate queries in So	QL, create forms	K.	_U12
social competences		1	EP8	Student projects	is ready to pa in a team.	articipate in the pre	eparation of	<u>к</u>	_K01
			CONTENT				Semester	No. o	f hours w tym e- learning
Subject title: bazy dany	ch na potrzeby eko	onom	nii (databases	s in econon	nic applications	5)	1	1	
Format of instruction: le	cture								
1. An introduction to d	latabases . Applica	ations	s of database	es in econo	mics and busin	ess	5	2	0
2. Database Analysis							5	2	0

3. Database design - Entity Relationship Diagram. Database normalization and normal forms (1NF - 6NF) 5					
4. Database language - S	QL. Types of commands, types of data, fur	actions, group functions	5 2	2	0
5. SQL - defining data			5 2	2	0
6. SQL - data manipulation	n (select, insert, update, delete)		5 3	3	0
7. Database transactions. Data security (access and protection) 5					0
Format of instruction: labo	atory				
1. The Database Environment and Development Process 5					0
2. Modeling Data in the C	ganization		5 2	2	0
3. Logical Database Des	n and Relational Model		5 2	2	0
4. MS SQL Server - database management (new database, create table, create index) 5					0
5. MS SQL Server - SELE top	CT statement with clauses: where, order b	y, asc, desc, and, or, between, like,	5 3	3	0
6. MS SQL Server - join o join	auses in SQL: inner join, right outer join, I	eft outer join, full outer join, cross	5 2	2	0
7. MS SQL Server - SQL aggregation, group by clause, having clause, subqueries, create view statement, procedures 5				2	0
8. Laboratory examination - practical test 5			5	1	0
Modes of delivery	Computer laboratory., Lecture illustrated	by multimedia presentations.			
				No. of I outcome sylla	earning from the abus
	EGZAMIN PISEMNY			EP1 EP2	FP3
Assessment methods	SPRAWDZIAN		· · · · · · · · · · · · · · · · · · ·	EP4,EP5,EP6,EP7	
	ZAJ CIA PRAKTYCZNE (WERYFIKACJA	POPRZEZ OBSERWACJ)	!	EP4,EP5,EP6,EP7,E	
	Metody i formy weryfikacji efektów uczenia si zasadach okre lonych w Regulaminie Studiów	mog zosta zmienione dla studentów ze szczeg Uniwersytetu Szczeci skiego.	ólnymi potrzebam	i na warur	nkach i
	Credit for laboratory classes: points for Credit for lectures: the lecture grade is e Student passes the course when knows perform basic operations in the chosen of	asks getting during laboratories (40%) and qual to the exam grade. The exam consists basic concepts from the scope of databas database management system (based on S	l practical test (s of 5 theoretica e design princip QL).	60%). I question les and is	ns. s able to
Grading criteria	Grade calculation principles				
	The final grade is an average of the grad	es received from the laboratory examinatio	on and the exam	•	
	Sem. Course	Type of credit	Grade calc. method	Weig	ght for the verage
Final grade calculation	5 bazy danych na potrzeby ekonomii applications)	(databases in economic	Arytmetyczna		
method	5 bazy danych na potrzeby ekonomii applications) [laboratorium]	(databases in economic zaliczenie z ocen			
	5 bazy danych na potrzeby ekonomii applications) [wykład]	(databases in economic egzamin			
Basic reading	Forta B. (2014): SQL in 10 Minutes, Sams	each Yourself (4th Edition), Pearson Educati	on		
Dubio reduing	Hoffer J. A., Prescott Ramesh V. & Topi H.	(2013): Modern Database Management (11th	ed.), Pearson Ec	lucation	
	Coronel C. (2017): Database Systems: Dea	sign, Implementation, & Management - 12th e	dition, Cengage I	earning	
Supplementary reading	Date C. J. (2012): Database Design and R	elational Theory: Normal Forms and All That .	azz, O'Reilly Me	dia	
	Pratt Ph. J. (2015): Concepts of Database	Management - 8th edition, Cengage Learning			
	STUDE	NT WORKLOAD			
	No. of hours				
1					

Contact hours	30	0
Participation in test / exam	4	0
Preparation for contact hours	8	0
Private reading and studying	11	0
Participation in tutorials	10	0
Preparation of project / essay / etc.	0	0
Preparation for test / exam	12	0
TOTAL workload	75	
ECTS credits	3	

ekonometria (econo (KIERUNKOWE)	metrics)						Course code: US71AIJ2855_2	24S
Name of field of study: Economics and IT A	pplications							
Mode and cycle of study: first-degree, full - tin	ne	Profile of stud general ac	dy: cademic			Specialt	/:	
Course / module status obligatory				Language o	of instruction: er: 3 - englis	h langu	age	
Year	Semester	Forr	n of	No. c	of hours		Type of credit	ECTS
		diaguagiau			w tym e-lea	rning		
		aiscussio	n classes	15	0		pg	
2	3	labora	atory	15	0		pg	4
		lect	ure	15	0		е	
Total					45			4
Course / module coordinator	dr hab. JACEK BA	TÓG						
Course instructor	dr hab. JACEK BA	TÓG						
								husis of same main
Course / module objectives	Acquirement of ba processes as well statistical program	isic knowledge as possession the related to	e on economon n of skills of estimation a	etric methods exploitation of nd verificatior	and their ap f chosen fun n of linear ec	plication ction of l onometr	s in quantitative ana Excel spreadsheet ar ic models.	nd chosen
Course / module objectives Prerequisites	Acquirement of ba processes as well statistical program Student in the are - knowledge: show probability theory - skills: can perfor basic function of	usic knowledge as possession <u>nme related to</u> a of: vs acquaintane , mathematica m basic mathe Excel spreadsl	e on economo n of skills of o estimation a ce of problem I statistics an ematical oper heet.	etric methods exploitation of nd verification ns and method ad basics of m rations, calcul	and their ap f chosen fun n of linear ec ds of algebra acroeconom ate chosen s	plication ction of l onometr , mathen ics, micr tatistica	s in quantitative ana Excel spreadsheet ar ic models. natical analysis, deso oeconomics and fina measures, verify hy	criptive statistics, ance, pothesis and use
Course / module objectives Prerequisites	Acquirement of ba processes as well statistical program Student in the are - knowledge: show probability theory - skills: can perfor basic function of	usic knowledge as possession me related to a of: vs acquaintane mathematica m basic mathe Excel spreads	e on economi n of skills of o estimation a ce of problem I statistics an ematical oper heet. LEARNING	etric methods exploitation or nd verification ns and method d basics of m rations, calcul G OUTCOMES	and their ap f chosen fun <u>n of linear ec</u> ds of algebra acroeconom ate chosen s	plication ction of l onometr , mathen ics, micr tatistica	s in quantitative ana Excel spreadsheet ar ic models. natical analysis, deso oeconomics and fina measures, verify hy	criptive statistics, ance, pothesis and use
Course / module objectives Prerequisites Category	Acquirement of ba processes as well statistical program Student in the are - knowledge: show probability theory - skills: can perfor basic function of	asic knowledge as possession me related to a of: vs acquaintane , mathematica m basic mathe Excel spreads	e on economin n of skills of of estimation a ce of problem I statistics an ematical oper heet. LEARNING	etric methods exploitation of nd verification ns and method d basics of m rations, calcul G OUTCOMES	and their ap f chosen fun <u>n of linear ec</u> ds of algebra acroeconom ate chosen s	plication ction of l <u>onometr</u> , mathen ics, micr tatistica	s in quantitative ana Excel spreadsheet ar ic models. natical analysis, desc oeconomics and fina measures, verify hy	Ref. to programme benchmarks
Course / module objectives Prerequisites Category	Acquirement of ba processes as well statistical program Student in the are - knowledge: show probability theory - skills: can perfor basic function of Not	Isic knowledge as possession me related to a of: ws acquaintane mathematica m basic mathe Excel spreads	e on econom n of skills of e estimation a ce of problem I statistics an ematical oper heet. LEARNING Description Student I model as interdepo	etric methods exploitation of nd verification ad basics of m rations, calcul G OUTCOMES on knows speci s well as stag endency.	and their ap f chosen fun n of linear ec ds of algebra lacroeconom ate chosen s ficity and s ges of mode	plication ction of l onometr , mathen ics, micr tatistica tructure eling of	s in quantitative ana Excel spreadsheet an ic models. natical analysis, dese oeconomics and fina measures, verify hy e of econometric dynamics and	Ref. to programme benchmarks K_W05 K_W10
Course / module objectives Prerequisites Category knowledge	Acquirement of ba processes as well statistical program Student in the are - knowledge: show probability theory - skills: can perfor basic function of Not 2	isic knowledgi as possession me related to a of: vs acquaintant mathematica m basic mathe Excel spreads	e on economin n of skills of e estimation a ce of problem I statistics an ematical oper heet. LEARNING Description Student I model as interdeper Student as well a	etric methods exploitation of nd verification ins and method d basics of m rations, calcul G OUTCOMES on knows speci s well as stag endency. understand of on and verific s basic issue	and their ap f chosen funn n of linear ec ds of algebra lacroeconom ate chosen s ficity and s ges of mode of theoretic cation of lin es from ecc	tructure eling of al founce	s in quantitative ana Excel spreadsheet an ic models. natical analysis, dese oeconomics and fina i measures, verify hy of econometric dynamics and lations of nometric model ic forecasting.	Ref. to programme benchmarks K_W05 K_W10 K_W10
Course / module objectives Prerequisites Category knowledge	Acquirement of ba processes as well statistical program Student in the are - knowledge: shou probability theory - skills: can perfor basic function of 1	Isic knowledge as possession me related to a of: vs acquaintane mathematica m basic mathe Excel spreads EP1 EP2 EP3	e on economin n of skills of of estimation a ce of problem I statistics an ematical oper heet. LEARNING Description Student I model as interdeper Student of estimation as well a Student of and inter	etric methods exploitation of nd verification as and method ad basics of m rations, calcul G OUTCOMES on knows speci s well as stag endency. understand of s basic issue can construct rdependency	and their ap f chosen fun- n of linear ec ds of algebra hacroeconom ate chosen s ficity and s ges of mode of theoretic cation of lin es from ecc ct econome r and interp	tructure eling of al found tric mon	s in quantitative ana Excel spreadsheet an ic models. natical analysis, dese oeconomics and fina measures, verify hy e of econometric dynamics and lations of nometric model ic forecasting. dels of dynamics ined results.	Ref. to programme benchmarks K_W05 K_W10 K_U06 K_U10
Course / module objectives Prerequisites Category knowledge skills	Acquirement of ba processes as well statistical program Student in the are - knowledge: show probability theory - skills: can perfor basic function of 1 2 1 2	isic knowledge as possession me related to a of: vs acquaintant m basic mathe Excel spreads c. Code EP1 EP2 EP3 EP4	e on economin n of skills of e estimation a ce of problem I statistics an ematical oper heet. LEARNING Description Student I model as interdepe Student of as well a Student of and inter	etric methods exploitation of nd verification and sand method ad basics of m rations, calcul G OUTCOMES an knows speci s well as stag endency. understand d on and verific s basic issue can construct rdependency can compute nple econom heir quality.	and their ap f chosen fun- n of linear ec ds of algebra lacroeconom ate chosen s ficity and s ges of mode of theoretic cation of lin es from ecc ct econome r and interp	tructure eling of al founder tric moder and found ear eco nometr tric moder fret obta	s in quantitative ana Excel spreadsheet an ic models. hatical analysis, dese oeconomics and fina- l measures, verify hy of econometric dynamics and lations of nometric model ic forecasting. dels of dynamics ined results. omic phenomena he series and	Ref. to programme benchmarks K_W05 K_W10 K_W10 K_U06 K_U10 K_U06 K_U10
Course / module objectives Prerequisites Category knowledge	Acquirement of ba processes as well statistical program Student in the are - knowledge: shou probability theory - skills: can perfor basic function of 1 2 1 2 3	isic knowledge as possession me related to a of: vs acquaintance mathematica m basic mathe Excel spreads EP1 EP2 EP3 EP4 EP5	e on economin n of skills of of estimation a ce of problem I statistics an ematical oper heet. LEARNING Description Student I model as interdeper Student of estimation as well a Student of estimation as well a Student of estimation as student of and inter	etric methods exploitation of nd verification as and method d basics of m rations, calcul G OUTCOMES on knows speci s well as stag endency. understand of s basic issue can construe dependency can compute nple econom heir quality. can use fund ation and verificial	and their ap f chosen fun- n of linear ec ds of algebra hacroeconom ate chosen s ficity and s ges of mode of theoretic cation of lin es from ecc ct econome r and interp e forecasts netric mode	tructure eling of al found tric mometr al found ear eco nometr tric mod ret obta of econ ls of tin cel spre linear e	s in quantitative ana Excel spreadsheet an ic models. natical analysis, desc oeconomics and fina measures, verify hy e of econometric dynamics and lations of nometric model ic forecasting. dels of dynamics ined results. omic phenomena ne series and eadsheet related conometric	Ref. to programme benchmarks K_W05 K_W10 K_W10 K_U06 K_U10 K_U06 K_U10 K_U06 K_U10 K_U06 K_U10 K_U10 K_U10 K_U10 K_U15
Course / module objectives Prerequisites Category knowledge skills skills	Acquirement of ba processes as well statistical program Student in the are - knowledge: show probability theory - skills: can perfor basic function of 1 2 1 2 3 3 1	isic knowledge as possession me related to a of: vs acquaintance mathematica m basic mathe Excel spreads . Code EP1 EP2 EP3 EP3 EP4 EP5 EP6	e on economin n of skills of e estimation a ce of problem I statistics an ematical oper heet. LEARNING Description Student I model as interdeped Student of as well a Student of as well a Student of as student of and inter Student of and inter Student of assess th Student of Student of Student of Stud	etric methods exploitation of nd verification and verification and basics of m rations, calcul G OUTCOMES an knows speci s well as stage endency. understand do on and verific s basic issue can construct dependency can compute nple econom heir quality. can use func ation and verific ation and verific	and their ap f chosen fun- n of linear ec ds of algebra lacroeconom ate chosen s ficity and s ges of mode of theoretic cation of lin- es from ecc ct econome y and interp e forecasts netric mode ctions of Ex- rification of ates the imp ending his/l	plication ction of l onometr , mathen ics, micr tatistica tructure eling of al found ear eco nometr tric moor ret obta of econ ls of tin cel spre linear e ortance ner know	s in quantitative ana Excel spreadsheet an ic models. hatical analysis, dese oeconomics and fina- l measures, verify hy e of econometric dynamics and lations of nometric model ic forecasting. dels of dynamics ined results. omic phenomena he series and eadsheet related conometric e of teamwork and wledge.	Ref. to programme benchmarks K_W05 K_W10 K_W10 K_U06 K_U10 K_U06 K_U10 K_U10 K_U06 K_U10 K_U10 K_U06 K_U10 K_U10 K_U15 K_K01 K_K02

Format of instructions last							
1 Definition and subject		matrice. Types of statistical regularities. Econometric model		2	2	0	
2 Stages of economotric	modelli			3	2	0	
2. Estimation of structurel non-metric models. OI C						0	
3. Estimation of structural parameters of econometric models - OLS. 3						0	
4. Verification of econometric models. Chosen challenges of building of econometric models. 3						0	
5. Nonlinear models - bui	ilding an	d applications.		3	3	0	
6. Econometric forecasti	ng - intro	duction.		3	2	0	
Format of instruction: disc	ussion c	asses					
1. Specification of indepe	endent v	ariables.		3	2	0	
2. Selection of analytical	form of	econometric models.		3	1	0	
3. Estimation and verifica	ation of I	near econometric models.		3	6	0	
4. Nonlinear models in an	nalysis o	f economic phenomena.		3	3	0	
5. Econometric forecasti	ng.			3	3	0	
Format of instruction: labo	ratory					i	
1. Examples of specificat	tion of in	dependent variables.		3	2	0	
2. Examples of selection of analytical form of econometric models. 3						0	
3. Examples of estimation and verification of linear econometric models. 3						0	
4. Exploitation of nonlinear models in analysis of economic phenomena. 3					2	0	
5. Examples of econometric forecasting. 3					2	0	
6. Project presentation a	nd discu	ssion.		3	1	0	
Modes of delivery	Lectur statist	es with use of multimedia presentations. Solving problems by cal programme. Team work oriented on project preparation.	means of Exce	I spreadshee	t and chos	en	
					No. of outcome sylla	learning from the abus	
	EC74						
Assessment methods	KOLO				EP1,EP2 EP3.EP4.EP5		
	PROJ	кт			EP3,EP4,EP5,EP6		
	Metody zasadac	formy weryfikacji efektów uczenia si mog zosta zmienione dla stud h okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.	lentów ze szczego	ólnymi potrzeba	ami na waru	nkach i	
Grading criteria	Form a - stude educa - a lect Form a - stude effects	and requirements of exercise and laboratory credit: ints are assessed by means of test (exercises) and the group p ional effects of skills, ure mark is identical with an exam mark. ind requirements of exam: ints are assessed by means of oral exam (2 questions) which a of knowledge (after drawing of questions students have some	project (laborate allows to verify e minutes to pre	ory), which ve of achieveme epare their an	erify achiev ent of educ swers).	vement of	
	Grade	calculation principles					
	Final g - stude regula model - the fi (weigh	rade of the course: ont can be granted a satisfactory credit when he is able at least rities, formulation of model hypothesis, estimation of structura s, as well as solve assignments related to these issues, nal mark is equal to a weighted average calculated from three t 0,3) and exam (weight 0,4).	t to discuss pro al parameters a partial marks: e	oblems related nd verification exercises (we	d to statist n of econo ight 0,3), la	ical metric aboratory	
	Sem.	Course	Type of credit	Grade cal method	c. Wei a	ght for the verage	
Final grade calculation	3	ekonometria (econometrics)		Wa ona			
method	3	ekonometria (econometrics) [laboratorium]	zaliczenie z ocen			0,30	
	3	ekonometria (econometrics) [wykład]	egzamin			0,40	
	3	ekonometria (econometrics) [wiczenia]				0,30	

	Hayashi F. (2001): Econor	netrics, Princeton University Press					
	Johnston J. (1991): Econo	metric methods, McGraw-Hill International Editic	n				
Basic reading	Myoung-jae Lee (2016): Matching, Discontinuity, Difference in Differences, and Beyond 1st Edition, Oxford University Press						
	William H. Greene (2012): Econometric Analysis, 7th edition., Prentice Hall						
	Wooldridge J.M. (2013): Ir	Wooldridge J.M. (2013): Introductory Econometrics. A Modern Approach, South-Western					
	Batóg J., Batóg B. (2015): Conditional Income Convergence in the European Union: R&D Spending and Export Influence Transformations in Business & Economics, Vol. 14, No. 3C (36C), Wilno						
	Hozer J. (1997): Ekonome	tria, Katedra Ekonometrii i Statystyki, Stowarzys	zenie Pomoc i Rozwój				
Supplementary reading	Hozer J. (2007): Ekonome Pomoc i Rozwój	tria stosowana w przykładach i zadaniach, Kated	dra Ekonometrii i Statystyki US, Stowarzyszenie				
	Maddala G.S. (2021): Eko	nometria, Wydawnictwo Naukowe PWN					
		STUDENT WORKLOAD					
		No. of hours					
			W tym e-learning				
Contact hours		45	0				
Participation in test / exa	am	3	0				
Preparation for contact	hours	13	0				
Private reading and stud	dying	5	0				
Participation in tutorials		14	0				
Preparation of project /	essay / etc.	10	0				
Preparation for test / example	am	10	0				
TOTAL workload		100					
ECTS credits		4					

Curriculum title:

USEFZ-EaITA-O-I-S-23/24Z Unit: Analiza i diagnoza w przedsi biorstwie (Analysis and diagnosis in enterprise [moduł] Course code: Course title: ekonomika przedsi biorstw (corporate economics) US71AIJ2713_47S (KIERUNKOWE) Name of field of study: Economics and IT Applications Mode and cycle of study: Profile of study: Specialty: first-degree, full - time general academic Course / module status Language of instruction: elective semester: 4 - english language No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning discussion classes 15 0 pg 2 3 4 0 15 lecture pg Total 30 3 Course / module dr WOJCIECH LEO SKI coordinator Course instructor dr WOJCIECH LEO SKI, dr KAROLINA BEYER To introduce the student to the mechanism of the functioning and development of economic organisations, their Course / module functioning principles, internal and external determinants of functioning enterprises. objectives The student acquires the ability to analyze micro and macro environment of enterprises. Knowledge: the student should know basic economic terms. Prerequisites Skills: the student can work in groups and use the case study. Competencies: the student understand the neccesity of lifelong learning. LEARNING OUTCOMES Ref. to programme Code Category No. Description benchmarks Students know types of organisations and organisational EP1 K_W12 1 and legal frame of business activity. Students know relations between national and knowledge international organisations, internal and external K_W01 2 EP2 elements of business environment, resources of K_W12 enterprises. The student can choose the right type of business activity and analyze micro and macro environment of K U16 skills 1 EP3 enterprises. Moreover students can use different K_U18 methods to analyze business environment. Student can speak correctly using acquired knowledge K K01 social competences 1 EP4 and skills. No. of hours CONTENT Semester w tvm elearning Subject title: ekonomika przedsi biorstw (corporate economics) Format of instruction: lecture 2 1. Introduction of economics. The concept of organisation and the organisational life cycle. 4 0 2 2. Enterpreneur, entrepreneurial skills, types of entrepreneurs, theories. 4 0 3. Theoretical and practical basics of the functioning enterprizes. Classification of enterprises. Models 2 4 0 of the firm. 4. Organisational and legal frame of business activity. Types of entrepreneurship and entrepreneurial 4 2 0 organisations.

5. Business environment of the enterprise - internal. Theories. 4 2 0					0		
6. Business environment of the enterprise - external. Theories. 4					2	0	
7. Business management, functions and roles of managers. Management skills. 4					1	0	
8. Corporate Social Responsibility. 4					2	0	
Format of instruction: disc	ussion c	lasses		I			
1. The definition of organ statement.	ization,	enterprise, organizational life cycle model, mission and visio	n	4	2	0	
2. Legal forms of busines	ss - stude	ents? presentations and case studies.		4	2	0	
3. Relationships between	enterpri	ises.		4	2	0	
4. Mergers, acquisitions a	and strat	egic alliances - case studies and students? presentations.		4	2	0	
5. Strategic analysis of a	compan	y - individual or group work under project.		4	2	0	
6. Enterprises resources. assessment, and rewardi	. Human ing of err	Resources management. The attraction, selection, training, ployees.		4	2	0	
7. The issue of intellectua	al capital	of a company.		4	2	0	
8. Verification of education	on effect	S.		4	1	0	
Modes of delivery	-the lea -the di -workin -case s -stude	cture with using a presentation software program sscusion of students ng individually and in a team study nts presentation on chosen topics			No. of I outcome	learning	
					Sylia	abus	
Assessment methods	KOLO	KWIUM			EP1,EP2		
Assessment methods	PROJE	кт			EP2,EP3,EP4		
	ZAJ C	CIA PRAKTYCZNE (WERYFIKACJA POPRZEZ OBSERWACJ			EP1,EP2,	,EP3,EP4	
	Metody i zasadac	i formy weryfikacji efektów uczenia si mog zosta zmienione dla stu h okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.	identów ze szczegó	olnymi potrzeban	ni na waru	nkach i	
Grading criteria	Evalua The gr 70% w 20% in 10% di Evalua Writter Grade	ation of the exercises: ade will be calculated on the basis of three assignments work ritten test combine of open questions idividual or group work under presentations and strategic and iscussions during classes, solving case studies. In test, in the form of a multiple choice single answer question calculation principles	th: alysis project ns.				
	The fire		(
	The fir	al grade will be calculated as the anthmetic mean of grades	irom exercises a	na lectures.			
	Sem.	Course	Type of credit	Grade calc. method	. Wei	ght for the werage	
Final grade calculation	4	ekonomika przedsi biorstw (corporate economics)		Arytmetyczna	a		
method	4	ekonomika przedsi biorstw (corporate economics) [wiczenia]	zaliczenie z ocen				
	4	ekonomika przedsi biorstw (corporate economics) [wykład]	zaliczenie z ocen				
	Begg D	D. (2014): Economics, McGraw-Hill Education - Europe					
		Ronald J. (2019): Business Essentials, Global Edition, Pearson Ec	lucation Limited				
Basic reading Griffin R. W. (2016): Management. Cengage Learning							
Basic reading	Griffin	R. W. (2016): Management, Cengage Learning					
Basic reading	Griffin	R. W. (2016): Management, Cengage Learning ski C. (2013): Business Enterprise. The Integration of Approache	s, Warsaw Schoo	I of Economics I	Press		
Basic reading	Griffin Suszy	R. W. (2016): Management, Cengage Learning ski C. (2013): Business Enterprise. The Integration of Approache D. (2018): Business Essentials, Cambridge Scholars Publishing;	s, Warsaw Schoo	I of Economics I	Press		

STUDENT WORKLOAD								
	No. of hours							
		W tym e-learning						
Contact hours	30	0						
Participation in test / exam	2	0						
Preparation for contact hours	8	0						
Private reading and studying	5	0						
Participation in tutorials	8	0						
Preparation of project / essay / etc.	12	0						
Preparation for test / exam	10	0						
TOTAL workload	75							
ECTS credits	3							

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Course title: Course code: E-learning Training (szkolenie e-learningowe) EFZ71AIJ2362_2S (INNE DO ZALICZENIA) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Profile of study: Specialty: first-degree, full - time general academic Course / module status Language of instruction: semester: 1 - english language obligatory No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning discussion classes 1 1 2 0 2 р Total 2 0 Course / module mgr KONRAD MIELKO coordinator Course instructor mgr KONRAD MIELKO Train students in the field of distance learning methods and techniques, including the functionality of an e-learning Course / module platform and forms of electronic communication with lecturers and administration at the University. Presentation of objectives forms and methods of assessment using the methods and techniques of distance learning. Prerequisites Active student account in the stud.usz.edu.pl domain. Basics of computer operation LEARNING OUTCOMES Ref. to programme Category No. Code Description benchmarks Knows the basic methods of using Microsoft 365 cloud 1 EP1 tools for communication within the university Has knowledge of the rules for completing subjects knowledge 2 EP2 taught with the use of distance learning methods and techniques Knows the rules of navigating the e-learning platform EP3 3 1 EP4 Can log into the distance learning platform Can contact the lecturer and university employees in 2 EP5 skills electronic form Is able to find the right subject taught online and 3 EP6 correctly take the exam / test online Has the ability to cooperate and communicate with other students and lecturers in the remote work mode social competences 1 EP7 No. of hours CONTENT Semester w tym elearning Subject title: E-learning Training (szkolenie e-learningowe) Format of instruction: discussion classes 1. Operation of the e-learning platform 1 1 1 2. Electronic communication at the university 1 1 1 e-learning using the Moodle platform Modes of delivery

						No. of learning outcome from the				
						Syliadus				
Assessment methods	SPRA	WDZIAN				EP1,EP2,EP3,EP4,E P5,EP6,EP7				
	Metody zasada	i formy weryfikacji ef ch okre lonych w Reg	ektów uczenia si mog zosta zmienione dla s julaminie Studiów Uniwersytetu Szczeci skiego	studentów ze szczegó o.	Inymi potrzeba	ımi na warunkach i				
	Passing without a grade on the basis of the test results.									
Grading criteria	Grade	calculation principle	95							
	Obtai	Obtaining at least 60% correct answers.								
Final grade calculation	Sem.	Course	Grade cal method	c. Weight for the average						
method	1	E-learning Trainin	g (szkolenie e-learningowe)		Nieobliczar	ia				
	1	E-learning Trainin	g (szkolenie e-learningowe) [wiczenia]	zaliczenie						
Basic reading										
Supplementary reading										
			STUDENT WORKLOAD							
			No. of hours							
				W tym e-learning						
Contact hours			2	2	2					
Participation in test / ex	am		0	0	0					
Preparation for contact	hours		0	0	0					
Private reading and studying			0	0						
Participation in tutorials			0	0	0					
Preparation of project / essay / etc.			0	0	0					
Preparation for test / ex	am		0	0						
TOTAL workload			2							
ECTS credits			0							

Curriculum title: USEFZ-EaITA-O-I-S-	23/24Z								
Unit: Foreign language (j	zyk obcy) [modu	ıł]							
Course title: English language (j (OGÓLNOUCZELNIA	zyk angielski) ANE)						Course code: EFZ71AIJ3507	_8S	
Name of field of study: Economics and IT A	pplications								
Mode and cycle of study: first-degree, full - tin	ne	I	Profile of study general act	y: ademic		Specialty	r:		
Course / module status elective					Language of semester language english la	instruction: : 3 - english langu , semester: 5 - eng inguage	age, semester: 4 Jlish language, se	- english emester:	6 -
No on	Compositor		Form	of	No. of	hours	Tunna of anadit		-070
Year	Semester		instruction			w tym e-learning	Type of credit		CIS
0	3		lekto	rat	30	0	pg		2
2	4		lekto	rat	30	0	pg		2
2	5		lekto	rat	30	0	pg		3
3	6		lekto	rat	30	0	pg		3
Total					1	20			10
Course / module coordinator	mgr MONIKA MA	ATU:	SZCZYK					·	
Course instructor	mgr MONIKA MA	ATU:	SZCZYK , mg	r MIROSŁA					
Course / module objectives	Get students acc English, present	quai the	inted with the ir point of vie	vocabulary w and argu	regarding eco ments as well a	nomic issues so that is formulate written s	t they are able to fre statements regardir	ely comm ng busines	unicate in s issues.
Prerequisites	Level of languag	je co	ompetence de	efined as B2	2				
				LEARNIN	G OUTCOMES				
Category	•	No.	Code	Descriptio	on Ref. to prog benchma				
knowledge		1	EP1	He/She k function	nows the voc ing, foreign tr	abulary regarding ade and globalizat	economy and its	³ K_W03	
skills		1	EP2	Student is able to communicate freely with an English- speaking interlocutor on economic topics, is able to analyze and present his point of view and arguments				K_U16	
		2	EP3	Student problem	can carry out s in the form (a written analysis of an email, formal	of business letter, report.	К_	<u>U16</u>
social competences		1	EP4	He/She is knowled learning.	s ready to sup ge and skills;	pplement and impr understands the r	ove acquired need for lifelong	К_	K02
							No. of	hours	
								w tym e- learning	
Subject title: English lar	nguage (j zyk angie	elsk	i)						
Format of instruction: lel	ktorat	noto	ncas related	to vocabula	ry and topics w	ithin the score			1
proposed in the textbo	ook.	Jere			ry and topics w	tunn the scope	3	24	0
2. Classes devoted to t	the repetition of the	e ma	aterial covere	d.			3	6	0

3. Activities to improve all proposed in the textbook	4	24	0								
4. Classes devoted to the	4	6	0								
5. Activities to improve all language competences related to vocabulary and topics within the scope proposed in the textbook.											
6. Classes devoted to the	6	0									
7. Activities to improve all language competences related to vocabulary and topics within the scope											
proposed in the textbook.											
conversation. 0 0 0											
simulation of scenes related to the work environment, listening to business dialogues and presentations (audio), Modes of delivery watching short videos (video), reading, analyzing and translating advanced business texts, writing texts (letters, emails, reports), presentations of self-prepared topics related to the field of study (projector) No. of learning											
	outcome from t syllabus										
	KOLO					EP1,EP3					
Assessment methods	PRAC	A PISEMNA/ ESEJ	/ RECENZJA			EP1,EP3					
	PREZE	ENTACJA				EP1,EP2					
	PROJE	ЕКТ				EP1,EP2,EP3,EP4					
	ZAJ C	ZAJ CIA PRAKTYCZNE (WERYFIKACJA POPRZEZ OBSERWACJ)									
	Metody i zasadac	i formy weryfikacji ef h okre lonych w Reg	ektów uczenia si mog zosta zmienione dla stu Julaminie Studiów Uniwersytetu Szczeci skiego.	dentów ze szcze	gólnymi potrzeb	ami na waru	nkach i				
	Assessment criteria: attendance, active participation in classes, passing partial tests, written essays and presentations.										
Grading criteria	Grade	Grade calculation principles									
	The grade for the semester is based on grades from tests, essays, and class participation.										
	Sem.	Course		Type of crea	it Grade ca method	lc. We	ight for the average				
	3	English language	(j zyk angielski)		Nieoblicza	na					
	3	English language	(j zyk angielski) [lektorat]	zaliczenie z ocen							
Final grade calculation	4	English language	(j zyk angielski)		Nieoblicza	na					
method	4	English language	(j zyk angielski) [lektorat]	zaliczenie z ocen							
	5	English language	(j zyk angielski)		Nieoblicza	na					
	5	English language	(j zyk angielski) [lektorat]	ocen							
	6	English language	(j zyk angielski)		Nieoblicza	na					
	6	English language	(j zyk angielski) [lektorat]	ocen							
Basic reading	John A	llison,Rachel Apple	by (2013): The Business Advanced, Macmillar	, Oxford							
Supplementary reading	Artykuł	y z internetu									
			STUDENT WORKLOAD								
	No. of hours										
				W tym e-l	earning						
Contact hours			120	0							
Participation in test / exa	am		10	0							
Preparation for contact I	nours		30	0							
Private reading and studying			20	0							

Participation in tutorials	20	0
Preparation of project / essay / etc.	25	0
Preparation for test / exam	25	0
TOTAL workload	250	
ECTS credits	10	

Curriculum title: USEFZ-EaITA-O-I-S-2	23/24Z									
Course title: finanse przedsi biors (PODSTAWOWE)	ourse title: inanse przedsi biorstw (corporate finance) PODSTAWOWE) Course code: EFZ71AIJ3432_1S									
Name of field of study: Economics and IT Ap	plications						1			
Mode and cycle of study: Profile of study: Specialty: first-degree, full - time general academic										
Course / module status Language of instruction: obligatory semester: 4 - english language										
Voar	Somosta)r	Form	of	No. of	hours	Type of credit	6	erte	
	Semeste	71	instruc	tion		w tym e-learning	Type of credit		2013	
2	4		lectu	re	15	0	pg		2	
Total					1	5			2	
Course / module coordinator	dr hab. ADAM	ADAN	ICZYK							
Course instructor	dr hab. ADAM	ADAM	ICZYK							
Course / module objectives	The aim of the rules, affecting money over the	e cours g the f me. es	se is explain t inances of the stimate the co	o the stude e company. st of capital	nts the mechan The goal is also , and value stop	isms of firm financi o to teach students cks and bonds.	ng, gaining knowled how to determine th	lge of the ne variable	norms and e value of	
Prerequisites	The student h	as a g ere and	eneral knowle I the real ecor	edge of final	nce and account	ting, knows and une ronment. He unders	derstands the relati tands the need for I	onship be lifelong lea	tween arning.	
				LEARNING	G OUTCOMES					
Category		No.	Code	Descriptio	on			Ref. to p benc	orogramme hmarks	
knowledge		1	EP1	Student corporate	knows and un e finance.	derstands the me	chanism of	W02		
skills		1	EP2	Student is able to identify, classify the business funding. K_U07					_U01	
3003		2	EP3	Student	is able to use	management.	K_U02			
social competences		1	EP4	Student	understands t	he need for learni	ing throughout	K_	K_K02	
		•	CONTENT	•			Semester	No. of hours		
			CONTENT				Comostor		w tym e- learning	
Subject title: finanse prze	edsi biorstw(co	orpora	te finance)							
Format of instruction: lec	ture						1		1	
1. The finance function,	corporate obje	ctives	, sources of c	apital.			4	2	0	
2. Introduction to finance	cial statement a	nalysi	S.				4	2	0	
3. Sources of finance.							4	2	0	
4. Cost of capital.							4	2	0	
5. Capital structure theories.						4	2	0		
6. Payout policy theories.						4	2	0		
7. Capital budgeting- th	e capital investi	ments	process.				4	2	0	
8. Working capital mana	agement.						4	1	0	
Modes of delivery	Multimedia Case studies	preser s	ntations relate	d to comme	entary on currer	nt issues in the field	of corporate financ	e, probler	n solving,,	

		No. of learning outcome from the syllabus									
Assessment methods											
	KOLO	KWIUM					EP1,EP2,EP3,EP4				
	Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze szczególnymi potrzebami na warunkach i zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.										
A credit for lectures: written test. The scale of grading: 55% - passed (grade 3,0) 65%- grade 3,5 70%- grade 4 85%- grade 4,5 90%- grade 5											
	Grade	calculation principle	2S								
	The fi	The final course grade is equal to the lecture grade.									
Final grade calculation	Sem.	Course			Type of credit	Grade cal method	c. Weight for th average				
method	4	4 finanse przedsi biorstw (corporate finance)					а				
	4 finanse przedsi biorstw (corporate finance) [wykład] zaliczenie z ocen										
Pasic reading	R.A. B York	realey, S.C. Myers,	A.J. Marcus (2018): Fundamentals	of Corporate F	Finance, 9th Ed	ition, C Graw	Hill Education, New				
	R.A. B Bostor	realey, S.C. Myers, ו	F. Allen (2011): Principles of corpor	ate finance: C	oncise, 2nd. in	ternational ed	., McGrath-Hill,				
Supplementary reading	I. Weld	ch (2014): Corporate	Finance, 3rd. (free online access).								
			STUDENT WORKLOAI	כ							
			No. of hours								
			W tym e-learning			rning					
Contact hours			15		0						
Participation in test / ex	am		2		0						
Preparation for contact	hours		10		0						
Private reading and studying			10		0						
Participation in tutorials			7		0						
Preparation of project / essay / etc.			0		0						
Preparation for test / ex	am		6 0								
TOTAL workload			50								
ECTS credits			2								

Curriculum title: USEFZ-EaITA-O-I-S-2	23/24Z									
Course title: finanse publiczne (pu (PODSTAWOWE)	ublic finance)							Course code: US71AIWNEIZ	_25S	
Name of field of study: Economics and IT Ap	plications									
Mode and cycle of study: first-degree, full - tim	e		Profile of study general aca	/: ademic			Specialty	:		
Course / module status obligatory					Language of semester:	instruction: 3 - englis	h langua	age		
			Form	of	No. of	hours				
Year	Semeste	ər	instruc	tion		w tym e-lea	arning	Type of credit	E	ECTS
2	3		lectu	re	30	0		е		3
Total					3	0				3
Course / module coordinator	dr NATALIA N	IARSK	(A-DZIOBA							
Course instructor	dr NATALIA N	IARSK	(A-DZIOBA							
Course / module objectives	The goal of th processes in	is cou public	rse is to provi finance.	ide students	with tools, and	d the skills	to use the	ese tools, to under	stand and	analyze
Prerequisites	Students have Students have Students can	e knov e the a use th	vledge of the f bility to analy sources of l	fundamental ze the conse knowledge a	s of finance, ac equences of the wailable on the	counting, l e use of ce Internet ar	aw, and r tain finar nd in the t	nacroeconomics. ncial instruments. rade press.		
				LEARNING	OUTCOMES					
Category		No.	Code	Descriptio	n				Ref. to p	orogramme hmarks
		1	EP1	Student k	nows a role a	and a size	of the p	ublic sector.	K_	W02
knowledge		2	EP2	Student knows key factors determining a national fiscal architecture.					K_	W06
		1	EP3	Student is able to define and characterize public resources, public expenditure and public debt policy.					K_ K_	_U02 _U03
skills		2	EP4	Student can use public finance data and formulate policy applications.				K_	_U06 _U10	
		3	EP5	Student o	an evaluate p	public fina	nce poli	cies.	ĸ	_U17
social competences		1	EP6	Student i critical id finance.	s ready and w eas and prop	villing to o osals refe	commun ring to t	icate and presen he public	t K_ K_	_K01 _K04
		2	EP7	Student i skills in t	s interested in he field of pu	n further s blic financ	tudies a e.	nd perfecting	K_ K_	_K02 _K05
								Compatible	No. o	f hours
			CONTENT					Semester		w tym e- learning
Subject title: finanse pub	bliczne (public fi	inance	e)							
Format of instruction: lec	ture									
1. The nature of public f	finance and the	main	divisions of th	ne subject. P	Public finance a	nd private	finance.	3	2	0
2. Public goods, public	choice and poli	itical p	rocess.					3	3	0
3. Sources of public rev	venues. Taxes, f	ees ar	nd revenues fr	rom public p	roperty and pu	blic enterp	rises.	3	2	0
4. Taxation. Characteris	tics of a good t	ax sys	stem. Taxes ar	nd equity.				3	2	0
5. Theory of income taxation. Income taxation in Poland and other countries. 3 2										0

6. Theory of consumption		3	2	0							
7. Polish taxation system		3	2	0							
8. Classification of public		3	2	0							
9. Central and local publi		3	2	0							
10. Social security and se	ocial insu	urance.			3	2	0				
11. Budget balance - defi	cit or su	rplus. Limitations	and effect of budget imbalance.		3	2	0				
12. Public debt managem	nent - too	ls, methods and a	ssumptions. Public debt limitations.		3	3	0				
13. Budgeting in public s		3	2	0							
14. Private-public partner		3	2	0							
Modes of delivery	Interac	tive lectures focus	sed on current policy debates and issues, r	eports analysis	s.		-				
						No. of	learning e from the				
						syl	abus				
Assessment methods	EGZAN					EP1,EP2	.,EP3,EP4,E				
	Metedui					P5,EP6,I	<u>:</u> P7				
	zasadac	h okre lonych w Reg	ulaminie Studiów Uniwersytetu Szczeci skiego.	dentow ze szcze	joinyini polizeb	anni na wart	Inkacii i				
	The co	ndition to pass is	to receive a positive mark of an exam.								
Grading criteria	Grade	calculation principle	S								
	The fin	al grade for the su	ibiect equals the grade for the exam.								
Final grade calculation	Sem.	Course		Type of cred	t Grade ca method	lc. We	ight for the average				
method	3	finanse publiczne		Nieoblicza	na						
	3	finanse publiczne	(public finance) [wykład]	egzamin							
	Jonath	an Gruber (2016):	Public Finance and Public Policy, Worth Publis	shers, New York							
Basic reading	Stiglitz J. E. (2015): Economics of the Public Sector (IV ed.), W. Norton & Co										
	Ulbrich	H. (ed.) (2011): Pu	blic finance in theory and practice, Routledge			mont Dola					
	Macmil	lan				nent, Paigi	ave				
Supplementary reading	Europe	an Commission (20	20): Taxation Trends in the European Union 2	020 ed, Publica	tions Office of t	he Europea	an Union				
	Sobcza Wrocła	ak E., Raszkowski A w University of Eco	A, Sztando A. (eds) (2016): Local and regional nomics,	economy in the	ory and practice	, Publishin	g House of				
			STUDENT WORKLOAD								
			No. of hours								
				W tym e-le	arning						
Contact hours			30	0							
Participation in test / exa	am		2	0							
Preparation for contact hours			0	0							
Private reading and stud	dying		15	0							
Participation in tutorials			10	0							
Preparation of project /	essay / e	etc.	0	0							
Preparation for test / ex	0										
TOTAL workload	75										
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ECTS credits	3										

Curriculum title: USEFZ-EaITA-O-I-S-2	23/24Z									
Unit: Foreign language (j	zyk obcy) [mod	luł]								
Course title: German language (j (OGÓLNOUCZELNIA	zyk niemiecki) NE)							Course code: EFZ71AIJ3508_	<u>7</u> \$	
Name of field of study: Economics and IT Ap	oplications									
Mode and cycle of study: first-degree, full - tim	e		Profile of study general aca	/: ademic			Specialty	r:		
Course / module status Language of instruction: elective semester: 3 - j zyk niemieck semester: 5 - j zyk niemieck				ki, semester: 4 - j ki, semester: 6 - j	zyk nie zyk nie	emiecki, emiecki				
Year	Semester		Form	of tion	No. of	hours	mina	Type of credit		ECTS
	3		lekto	rat	30	0		pq		2
2	4		lekto	rat	30	0		pg		2
	5		lekto	rat	30	0		pg		3
3	6	lektorat		30	0		pg		3	
Total			120						10	
Course / module coordinator	mgr KAJETANA	AJETANA GUTT-JAKUBIAK								
Course instructor	mgr KAJETANA	gr KAJETANA GUTT-JAKUBIAK								
Course / module objectives	Improved linguing structures and	istic tech	competence i niques of wor	in general a king with so	nd specialised volume to the special of the special sector of the	/ocabulary, erman at B2	commur level	nication skills, advar	nced gra	mmatical
Prerequisites	Level of linguis	stic c	ompetence de	efined as lev	vel B1					
				LEARNIN	G OUTCOMES					
Category		No.	Code	Descriptio	on				Ref. to ben	programme chmarks
		1	EP1	The stud	lent recognize nd written exp	s the approression.	opriate	linguistic register	к к	_U09 _U12
		2	EP2	The stud grammat	lent identifies tical and lexica	and define al structure	s the ki es.	nown	K K	_U09 _U12
		3	EP3	The stud phrases patterns	lent is able to and reproduce	select app e them in c	ropriate lifferent	e language t situational	к к	_U09 _U12
skills		4	EP4	The stud	lent is able to a terminate termination of the second second second second second second second second second s	summarise comprehei	e an ora nsibly.	ll or written	K K	_U10 _U12
		5	EP5	He/She is recommo interests classes.	s able to expre endations, exp s, which forms	ess opinion press likes the basis	ns, mak and dis for con	e slikes and versational	K K K	_U10 _U11 _U12
		6	EP6	Creates form of a	coherent and a formal letter,	logical text informal le	ts on a etter, re	given topic in the view	к к	_U10 _U12
social competences		1	EP7	Demons learning	trates an activ and improven	e attitude the second sec	towards guage s	s continuous skills	к	_K01
			CONTENT					Semester	No. o	of hours
										w tym e- learning
Subject title: German lan	iguage (j zyk niei	miec	ki)							
Format of instruction: lek	torat									

1. Course content determ	ined by	the teacher with re	eference to the Common European Fra	mework of	3	30	0			
2. Course content determ	ined by	I the teacher with re	eference to the Common European Fra	mework of		20	0			
Reference for Languages 3. Curriculum content det	- level E ermined	31+ I by the teacher wit	th reference to the Common European	Framework of	4	30	0			
Reference for Languages	- level E	31+ the teacher with re	forence to the Common European Fra	mowork of	5	30				
Reference for Languages	- level E	32	erence to the Common European Fra	Inework of	6	30	0			
Modes of delivery	-conve -simul -listen -watch -readir -gram -writin	imulating scenes from everyday life stening to dialogues, texts and messages ratching short films eading, analysing and translating texts rammar exercises (written and interactive) rriting short texts (e-mails, letters)								
	-prese	ntations of self-pre	epared issues			No. of	learning			
						outcome from the syllabus				
Assessment methods	KOLO	KWIUM				EP1,EP2,EP3,EP4,E				
	PRAC	A PISEMNA/ ESEJ/	RECENZJA			EP1,EP2 P5,EP6,E	, EP3,EP4,E P7			
	Metody i zasadac	i formy weryfikacji efe h okre lonych w Reg	ektów uczenia si mog zosta zmienione d ulaminie Studiów Uniwersytetu Szczeci sk	lla studentów ze s iego.	zczególnymi potrzeb	ami na waru	nkach i			
Grading criteriaThe course ends with a credit on the basis of partial grades received during the semester for specific student activities and works: attendance, activity, prepared project and a test. Questions about the knowledge and skills acquired during the classes - a satisfactory grade is awarded if 60% of points are obtained Assessment: The student will receive a satisfactory grade - when he/she has acquired language skills at B1 level by extending systematising knowledge of German grammar and vocabulary, which verifies the achieved learning outcomes in terms of knowledge and skills acquired during class participation.										
	Grade	calculation principle	S							
	The final grade is equal to the grade for the credit test as indicated in the study plan.									
	Sem.	Course Type of credit Grade meth					ght for the average			
	3	German language (j zyk niemiecki) W								
	3	German language	(j zyk niemiecki) [lektorat]	zaliczenie ocen	Z		1,00			
Final grade calculation	4	German language	(j zyk niemiecki)		Wa ona					
method	4	German language	(j zyk niemiecki) [lektorat]	zaliczenie ocen	Z		1,00			
	5	German language	(j zyk niemiecki)		Wa ona					
	5	German language	(j zyk niemiecki) [lektorat]	zaliczenie ocen	2 Z		1,00			
	6	German language	(j zyk niemiecki)		Wa ona					
	6	German language	(j zyk niemiecki) [lektorat]	ocen	Z		1,00			
Basic reading	(2017):	Panorama B1 , Co	rnelsen Verlag							
	(2014):	: Sicher B1+, Huebe	er Verlag							
	(2016):	Sprach training Stu	udio D , Cornelsen Verlag							
Supplementary reading	(2013):	: Studio D B1, Corne	elsen Verlag							
	(2015):	: Studio D B2, Corne	elsen Verlag							
			STUDENT WORKLOAD							
			No. of hours	344.						
				vv tym	e-iearning					
Contact hours			120	0						
Participation in test / exa	am		0	0						

Preparation for contact hours	40	0
Private reading and studying	10	0
Participation in tutorials	50	0
Preparation of project / essay / etc.	10	0
Preparation for test / exam	20	0
TOTAL workload	250	
ECTS credits	10	

r										
Curriculum title: USEFZ-EaITA-O-I-S-23	3/24Z									
Course title: globalizacja biznesu ((PODSTAWOWE)	business glo	baliza	ation)				Course code: US71AIJ2860_	36S		
Name of field of study: Economics and IT Ap	plications									
Mode and cycle of study: first-degree, full - time	•		Profile of study general aca	y: ademic		Specialt	y:			
Course / module status obligatory					Language o semester	f instruction: : 6 - english lang u	lage			
	•		Form	of	No. of	fhours				
Year	Semeste	er	instruction			w tym e-learning	Type of credit	E	CTS	
3	6		lectu	ire	15	0	pg		2	
Total						15			2	
Course / module coordinator	dr in . MARCI	N GR	YCZKA							
Course instructor	dr hab. TOMA	SZ BE	RNAT							
Course / module objectives	This course p environment i the society.	rovide n the (es an overview context of glo	v of currer balization	nt challenges and , the role of Multi	d opportunities for b inational Corporatio	usiness in the interi ns (MNCs) and their	national responsi	bilities to	
Prerequisites	Elementary m	icroed	conomics and	macroeco	onomics knowled	lge				
				LEARNI	NG OUTCOMES					
Category		No.	Code	Descript	tion		Ref. to programm benchmarks			
knowledge		1	EP1	Studen globaliz enviror	t has an under zation process iment	standing of the gl and business in t	obal economy, the he global	bal economy, the he global K_W01 K_W02 K_W03 K_W07		
skills		1	EP2	Studen interna	t is able to pres tional arena.	resent the evolution of MNCs in the			_U01 _U02 _U03 _U05 _U07	
		2	EP3	Student is able to identify the sources of the importance and influence of MNCs in			of debates around in the global world	f debates around K_U06 n the global world K_U07 K_U10		
social competences		1	EP4	Studen in inter	t is ready to ca national teams	rry out business t	tasks and projects	κ_	_K01	
			CONTENT				Comotor	No. o	f hours	
			CONTENT				Semester		w tym e- learning	
Subject title: globalizacja	biznesu (busir	ness g	lobalization)						. <u> </u>	
Format of instruction: lect	ure									
1. Globalization and regi	onalization - se	electe	d issues				6	3	0	
2. Multinational corporat	ions and their	role ir	the global ec	conomy			6	3	0	
3. Foreign direct investm	nent and its im	portar	nce in the cont	temporary	world economy		6	3	0	
4. New trends in the glob economy	oal economy - o	creativ	/e economy, g	green ecor	nomy, circular ec	onomy, sharing	6	3	0	
5. Economy 4.0 - selecte	d trends and is	sues					6	3	0	
Modes of delivery	The course	will be	e studied thro	ugh lectur	es, debates and	case studies on spe	cific aspects			

						No. of learning outcome from th syllabus	ן ופ			
Assessment methods										
	PRAC	A PISEMNA/ ESEJ	REGENZJA EP1,EP2,EP3,E							
	Metody zasadac	i formy weryfikacji ef h okre lonych w Reg	ektów uczenia si mog zosta zmienione dla st ulaminie Studiów Uniwersytetu Szczeci skiego.	udentów ze szczegó	Inymi potrzeba	ami na warunkach i				
	Studer aspect on the partici	nts will be required ts: economic, polit ir social responsib pate classes ative	I to write one argumentative essay related ical, social or cultural, OR approaching the ilities in that economy (70 points for that p y (30 points for that part).	to the influences role of MNCs in art). Additionaly	of globalizat different eco students are	ion on different nomies, with a foo obliged to	cus			
Grading criteria	Grade	calculation principle								
	The fir studer 4.0, 85 The fir	nal grade of the co nt needs at least 55 -92 - grade 4.5, 93 nal grade of the co	urse is calculated as follows: i points to pass the course, i.e. 55-68 point points or more - grade 5.0 urse is equal to the grade of the lectures	s equals grade 3.	0, 69-75 - gra	de 3.5, 76-84 - gra	ade			
Final grade calculation	Sem.	Course		Type of credit	Grade cal method	c. Weight for t average	the			
method	6	globalizacja bizne	su (business globalization)	na						
	6	globalizacja bizne	su (business globalization) [wykład]	zaliczenie z ocen						
	Baldwi	n R. (2016): The Gr	eat Convergence: Information Technology an	d the New Globaliz	ation, Harvar	d University Press				
	Bijaoui I. (2017): SMEs in an Era of Globalization, Palgrave MAcmillan, New York									
Basic reading	Ghahr	Ghahroudi M.R. (2018): Foreign Direct Investment, World Scientific Publishing								
	Griffin	R.W., Pustay M. (20	014): International Business, Global Edition., F	earson Education	Limited					
	Mazzucato M. (2018): The Value of Everything: Making and Taking in the Global Economy, Penguin									
	Ball, D.; McCulloch, W.H.; FrantzP.L.;Geringer,M.; Minor, M.S. (2007): International Business: The Challenge of Global Competition., McGraw Hill									
	Maiorescu R., Wrigley B. (2017): Diversity in Multinational Corporations, Routledge									
Supplementary reading	Ramge T., Schwochow J. (2018): The Global Economy as You've Never Seen It: 99 Ingenious Infographics That Put It All Together, The Experiment									
	Rivera-Batiz F.L., Rivera-Batiz L.A. (2018): International Trade, Capital Flows and Economic Development, World Scient Publishing Company									
	Rygma	an A.M. (2010): Oxfo	ord Handbook of International Business, Oxfor	d University Press						
			STUDENT WORKLOAD							
			No. of hours							
				W tym e-lea	rning					
Contact hours			15	0						
Participation in test / exa	am		0	0						
Preparation for contact	hours		0	0						
Private reading and stud	dying		6	0						
Participation in tutorials			14	0						
Preparation of project /	essay /	etc.	15	0						
Preparation for test / example 1	am		0	0						
TOTAL workload			50							
ECTS credits			2							

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Course title: Course code: informatyka ekonomiczna (economic informatics) US71AIJ2717_26S (KIERUNKOWE) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Profile of study: Specialty: first-degree, full - time general academic Course / module status Language of instruction: semester: 3 - english language obligatory No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning laboratory 15 0 pg 2 3 3 lecture 15 0 pg Total 30 3 Course / module dr OLGA PILIPCZUK coordinator dr OLGA PILIPCZUK Course instructor The aim of the course is to provide the knowledge about the types and the role of information systems used in Course / module business organizations. objectives The practical aspects cover getting skills of business process creation, analysis and measurement using BPM software. The student knows the basics of the economy. Prerequisites The student knows the basics of management. The student knows the basics of information technology. LEARNING OUTCOMES Ref. to programme Code Description Category No. benchmarks The student has a basic knowledge of informatics K W13 EP1 knowledge 1 systems used in business organizations. K_W15 The student is able to model and analyze processes K U12 1 EP2 using ARIS methodology. K_U17 skills The student defines the requirements for an information 2 EP3 system to meet the needs of economic organization. K U08 The student is ready for entrepreneurial and team social competences 1 EP4 K_K01 thinking. No. of hours CONTENT Semester w tym elearning Subject title: informatyka ekonomiczna (economic informatics) Format of instruction: lecture 2 0 1. The basics of Economic Informatics. Enterprise Information systems. 3 3 3 0 2. Fundamentals of Business Process Management. BPM systems. 4 0 3. The basics of ARIS Methodology. 3 4. Business Process measurement. З 2 ٥ 2 5. Business Process Improvement methodologies. 3 0 2 0 6. New trends in BPM. Intelligent and Cognitive BPM. 3 Format of instruction: laboratory

[<u> </u>			
1. BPM software overview	w.				3	2	0			
2. Business proces mode	elling.				3	8	0			
3. Business process mea	asuremer	nt.			3	3	0			
4. Business process imp	rovemen	ıt.			3	2	0			
Modes of delivery	multim	nedia presentation	s, Computer labs with BPM software tool.							
					No. of learning outcome from the syllabus					
	KOLO	KWIIIM		ED3 ED3						
Assessment methods	PREZE		EP1							
	PROJE	PROJEKT								
	Metody i zasadac	i formy weryfikacji ef h okre lonych w Reg	ektów uczenia si mog zosta zmienione dla stuo julaminie Studiów Uniwersytetu Szczeci skiego.	dentów ze szczegó	olnymi potrzeba	mi na waru	nkach i			
Grading criteria Lectures. Theoretical knowledge is checked on the basis of the test and the presentations. The grade for lectures is an average of the written test and the presentation. Test results evaluation method: - 3,0 - student must obtain 56% of points. - 3,5 - student must obtain 61% of points. - 4,0 - student must obtain 71% of points. - 4,5 - student must obtain 81% of points. - 5,0 student must obtain 96% of the points. Labs: The knowledge is checked on the basis of the project. Grade calculation principles										
	The fir	nal grade is calcula	ated as an average of lectures and labs							
	Sem.	Course		Type of credit	Grade calo method	c. Wei a	ght for the verage			
Final grade calculation	3	informatyka ekono	omiczna (economic informatics)		Arytmetyczn	a				
	3	informatyka ekono	omiczna (economic informatics) [wykład]							
	3	ппоппацука екопо								
	Davis F	s R., Brabander E. (2007): ARIS Design Platform, Getting started with BPM, Springer								
Basic reading	Dumas, M., La Rosa, M., Mendling, J., Reijers, H. (2018): Fundamentals of Business Process Management, Springer-Verlag Berlin Heidelberg									
Daolo rodaling	Garime	ella K., Lees M., Wi	llams B. (2008): BPM Basics for dummies, Wile	Эу						
	Scheer AW. (2000): ARIS-Business process modelling, Springer									
Supplementary reading										
			STUDENT WORKLOAD							
			No. of hours							
				W tym e-lea	rning					
Contact hours			30	0						
Participation in test / ex	am		4	0	0					
Preparation for contact	hours		6	0						
Private reading and stud	dying		8	0						
Participation in tutorials			8 0							
Preparation of project /	essay / e	etc.	10	0						
Preparation for test / ex	am		9	0						
•			•				,			

TOTAL workload	75
ECTS credits	3

Curriculum title: USEFZ-EaITA-O-I-S-	23/24Z								
Unit: Metody analiz rynko	wych (Market r	esea	rch methods	s) [moduł]					
Course title: inwestycje na rynku (KIERUNKOWE)	kapitałowym (capita	al market inv	vestments)			Course code: US71AIJ2931_5	3S	
Name of field of study: Economics and IT A	pplications								
Mode and cycle of study: first-degree, full - tin	ne		Profile of study general aca	/: ademic		Special	ty:		
Course / module status elective					Language of semester	instruction: : 4 - english lang	uage		
Voor Somoot			Form	of	No. of	hours	Trues of an alit	БОТО	
Year	Semeste	er	instruction			w tym e-learning	lype of credit	ECIS	
2	4		labora	tory	15	0	pg	3	
			lectu	re	15	0	pg		
Total		30 3							
Course / module coordinator	dr hab. SEBAS	hab. SEBASTIAN MAJEWSKI							
Course instructor	dr hab. SEBAS	ab. SEBASTIAN MAJEWSKI							
Course / module objectives	Acquire basic methods of an investors. The	know alysis indic	ledge about t of basic fina ation of the b	he organization ncial instrume enefits and th	on of the capit ents, methods reats of appli	tal market as part on and strategies of ed investment stra	of the financial market investing accessible tegies.	. Introduction to to individual	
Prerequisites	- Student know econometrics, - Student is ab functions of E - Student has	ws the , finan ble to s xcel s the ab	basic econor cial mathema search the rel preadsheet. ility to work i	mic and finand tics, economi ationship bety n a team, has	cial issues, ha cs, finance an ween the econ habits of lifel	as a basic knowled nd financial analys nomic and financia ong learning.	ge of mathematics, si is, I phenomena, and to	atistics, use the basic	
	•			LEARNING	OUTCOMES				
Category		No.	Code	Description				Ref. to programme benchmarks	
luceuledee		1	EP1	Student kn capital ma	ows the str rket.	ucture and funct	ioning of the	K_W01	
knowledge		2	EP2	Student kn instrument	lows the bas ts and inves	sics of valuation stment strategies	of financial	K_W02	
		1	EP3	Student ca on the cap data to inte	in independ ital market, erpret the ev	ently make inves and to use econ vents on the capi	tment decisions omic and financial tal market.	K_U13	
skills		2	EP4	Student is instrument and also to investmen	able to mak ts, using teo o use an ana t.	te the valuation o chnical and funda alysis of the prof	of financial amental analysis, itability of the	K_U15	
		3	EP5	Student is profitabilit	able to clas v and risk.	sify investments	in terms of their	K_U13	
		1	EP6	Student is knowledge investmen	able to com and skills i t decisions	plement and imp in fields of makin in the capital ma	prove his og rational rket.	K_K01	
social competences		2	EP7	Investment decisions in the capital market. Student is creative in obtaining information about the situation on the capital market, is inquiring in analyzing of development of the capital market, and also is focused on the quantitative description of the phenomena occurring in the capital market			K_K04		

				0	No. of hours						
		CONTENT		Semester		w tym e- learning					
Subject title: inwestycje na	a rynku k	apitałowym (capital market investments)	I								
Format of instruction: lectu	ire										
1. The nature and functions of the capital market as a part of the financial market. Principles of the Polish capital market functioning. 4											
2. Instruments of capital market. 4											
3. Technical analysis - as	sumptio	ns, charts, trends, formations and indicators.		4	2	0					
4. Fundamental analysis	- assumj	ptions, steps of analysis.		4	2	0					
5. Investing on the capita Short- and long-term inve	I market esting.	- investment strategies, sources of information and their inte	erpretation.	4	2	0					
6. The risk on the market	and its v	valuation. Risk management.		4	2	0					
7. Portfolio Analysis - sel	ected m	ethods.		4	2	0					
8. Financial conglomerate	es - instr	uments from different market segments.		4	1	0					
Format of instruction: labo	ratory										
1. Rate of return - the typ	es and p	roperties.		4	2	0					
2. Technical analysis.				4	2	0					
3. Fundamental analysis		4	2	0							
4. Market valuation of the	4	3	0								
5. Valuation of risk. 4						0					
6. Portfolios methods - M	4	3	0								
Modes of delivery	The co capital	urse comprises lectures using multimedia tools and exercise market with the use of EXCEL spreadsheet and Statistica, a uses on the capital market with the use of statistical and econ	es in comput case study n	er labs - solving nethods for expla s	problems f aining the p	orm the problems /					
	proces	No. of	No. of learning								
		syllabus									
Assessment methods		EP1,EP2,EP3,EP4,E									
	KOLO	P5,EP6,EP7									
	Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze szczególnymi potrzebami na warunkach i zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.										
	Studer	nts are evaluated on the basis of a written test concerning kn	owledge from	n both lectures a	nd laborate	ories.					
Crading criteria	Grade	calculation principles									
Grading chiena											
	I he fin	al grade of the course is possible only when a student gets t	he positive g	grade from the tes	st.						
	Sem.	Course	Type of cr	edit Grade cal method	lc. Wei a	ght for the verage					
Final grade calculation	4	inwestycje na rynku kapitałowym (capital market investments)		Arytmetycz	na						
method	4	inwestycje na rynku kapitałowym (capital market investments) [wykład]	zaliczenie z ocen	-							
	4	inwestycje na rynku kapitałowym (capital market investments) [laboratorium]	zaliczenie z ocen	:							
	E.J. Elt	on (2017): Modern Portfolio Theory and Investment Analysis, Joh	n Wiley & So	ns							
Basic reading	J. Teal	(2018): Financial Trading and Investing, Elsevier Books									
	P. Hop	kin (2018): Fundamentals of Risk Management, Kogan Page									

	Czekaj J. (2008): Rynki, instrumenty i instytucje finansowe, PWN							
	Jajuga K., Jajuga T. (2009): Inwestycje. Instrumenty finansowe, aktywa niefinansowe, ryzyko finansowe, in ynieria finansowa, PWN							
Supplementary reading	Sopo ko A. (2010): Rynkc	we instrumenty finansowe, PWN						
	Tarczy ski W. (2002): Fur	Tarczy ski W. (2002): Fundamentalny portfel papierów warto ciowych, PWE						
	Tarczy ski W., Łuniewska	M. (2004): Dywersyfikacja ryzyka na polskim ryn	ku kapitałowym, Placet					
		STUDENT WORKLOAD						
		No. of hours						
			W tym e-learning					
Contact hours		30	0					
Participation in test / exa	am	2	0					
Preparation for contact I	hours	10	0					
Private reading and stud	dying	13	0					
Participation in tutorials		10	0					
Preparation of project / e	essay / etc.	0	0					
Preparation for test / exa	am	10	0					
TOTAL workload		75						
ECTS credits		3						

Curriculum title: USEFZ-EaITA-O-I-S-2	23/24Z										
Unit: Rynek i konkurencja	(Market and c	ompe	tition) [mod	luł]							
Course title: konkurencja i koncer (KIERUNKOWE)	ntracja rynkow	va (co	mpetition a	nd monope	oly)			Course code: US71AIJ2860_	60S		
Name of field of study: Economics and IT Ap	oplications										
Mode and cycle of study: first-degree, full - tim	e	1	Profile of study general aca	y: ademic			Specialty	:			
Course / module status La elective S					Language of semester:	instruction: : 5 - englis	h langua	ige			
			Form	of	No. of	hours					
Year	Semester		instruction			w tym e-learning		Type of credit	E	ECTS	
3	5		discussion	classes	15	0		pg		3	
			lecture		15	0		pg			
Total					3	0				3	
Course / module coordinator	dr hab. TOMA	SZ BE	RNAT	•			·				
Course instructor	dr hab. TOMA	SZ BE	RNAT								
Course / module objectives	Study questio concentrated. regulators. An	tudy questions and issues of market concentration that face enterprise on the basis of economic theory the market is oncentrated. Analysis of the impact of different models on the market behavior of businesses, consumers and state equilators. An attempt to answer the question of what is better for the market competition or concentration									
Prerequisites	The student ke economy, stud conclusions b	nows f dent vo ased o	the basics of ersed in curre on their know	economics ent economi vledge of the	(microeconomic ic events. The s e news of econo	cs and mac tudent is at mic life.	roeconor ble to thin	nics) and the princ k analytically, prop	iples of m perly form	arket ulate	
				LEARNIN	G OUTCOMES						
Category		No.	Code	Descriptio	on				Ref. to p benc	Ref. to programme benchmarks	
knowledge		1	EP1	Student market n	knows definiti nonopolisatio	ions from i n field.	the com	petition and	K_ K_	K_W01 K_W07	
skills		1	EP2	Student activity of and pose	has the abilitie on market und sibility to poss	es of analy er the pers ses marke	vsis of th spective t power.	e company of competition	K_ K_ K_	U01 U03 U07	
social competences		1	EP3	Student easily co	can think in cr mmunicate in	reative and English.	d innova	tive way and	K_ K_	K01 K02	
		-	CONTENT	-				Comostor	No. of	hours	
			CONTENT					Semester		w tym e- learning	
Subject title: konkurencj	a i koncentracja	rynko	owa (competi	tion and mo	nopoly)					0	
Format of instruction: lec	ture										
1. Principles of market of	competition							5	3	0	
2. The economic foundation	ations of market	conce	entration					5	2	0	
3. Competition from the	point of view o	f mark	et actors					5	2	0	
4. Concepts of measuring	ng the monopol	y pow	er					5	2	0	
5. Monopolization and t	he problem of r	esouro	e allocation					5	2	0	
6. Competition or conce	entration?							5	2	0	
7. Practical examples of	f concentrated r	narket	in contempo	orary econor	nies			5	2	0	

Format of instruction: disc	cussion c	lasses						
1. Principles of market competition 5 3 0								
2. The economic foundations of market concentration 5								0
3. Competition from the point of view of market actors 5 2 0								
4. Concepts of measuring the monopoly power 5 2 0								
5. Monopolization and the problem of resource allocation 5 2 0								
6. Competition or concentration? 5 2 0								
7. Practical examples of concentrated market in contemporary economies 5 0 0								0
8. Case studies - monopolization vs competition in global market 5 2 0								0
Modes of delivery	The m solvin	ain form of knowle g, also discussion	dge transfer is lectures with case studies. To develop knowledge the exercises i	es. The main in e-learning	way of system	excercises is will be preser	case stue nted to st	dies udents.
	No. of learning outcome from the syllabus							learning e from the abus
Assessment methods	KOLO	KWIUM					EP1,EP2	,EP3
	PREZE	ENTACJA					EP1,EP2	,EP3
	Metody zasadac	i formy weryfikacji ef h okre lonych w Reg	ektów uczenia si mog zosta zmienione dla julaminie Studiów Uniwersytetu Szczeci skiej	studentów ze go.	szczegó	Inymi potrzebar	ni na waru	nkach i
Grading criteria	- Studi points learnir Credit based conce Rating - The s interve - The s acting - The s Grade	ents are assessed), for checking the ng system. for the classes: St on case studies for ntration - partly by g: student receives a ention. student is given a s under concentrati student receives a calculation principle	on the basis of a written test covering to knowledge of the basic principles of the sudents are assessed on the basis of a w or checking the knowledge of the basic p e-learning system. satisfactory grade - if he can provide so score good - when also can define the basic on and competition. very good - if also able to predict the lik	written test co orinciples of t me basic def asic relations rely impact of	n of known petition overing the man initions ships of events	wiedge basen n and concent the verificatio ket competitio s of terms rela ccurring in dif taking place	ted to sta ferent ma	ry (50% aartiy by e- wledge ate arkets irkets.
	Sem.	Course		Type of	credit	Grade calc method	. We	ight for the average
Final grade calculation	5	konkurencja i kono monopoly)	centracja rynkowa (competition and			Arytmetyczna	a	
method	5	konkurencja i kon	centracja rynkowa (competition and	zaliczeni	e z			
	5	konkurencja i konc	centracja rynkowa (competition and	zaliczeni	e z			
	Bernat	monopoly) [wykłac T. (2009): Competit	d tion of entities with reference to competition	ocen of the econo	mv Pri	nt Group Danie	el Krzanov	vski
	Domat				,,,			
	G. C. A	Allen (2010): Monop	oly and Restrictive Practices, Routledge, N	New York				
Basic reading	Lele M	. (2007): Monopoly	Rules, Kogan Page Publishers					
	McKen	zie R. (2008): In De	fense of Monopoly: How Market Power For	sters Creative	Produc	tion, University	of Michig	an Press
Supplementary reading	Sherm	ann R (1989): The F	Regulation of Monopoly, Cambridge Univer	sity Press				
			STUDENT WORKLOAD					
			No. of hours					
				W tyn	n e-lea	rning		

Contact hours	30	0
Participation in test / exam	2	0
Preparation for contact hours	10	0
Private reading and studying	10	0
Participation in tutorials	10	0
Preparation of project / essay / etc.	10	0
Preparation for test / exam	3	0
TOTAL workload	75	
ECTS credits	3	

Curriculum title: USEFZ-EaITA-O-I-S-2	23/24Z									
Course title: makroekonomia (ma (PODSTAWOWE)	croeconomics	5)						Course code: US71AIJ2859_	2S	
Name of field of study: Economics and IT A	oplications									
Mode and cycle of study: first-degree, full - tim	le		Profile of study	y: ademic			Specialty	<u>.</u>		
Course / module status			-		Language of	instruction:				
obligatory					semester	: 1 - englis	h langu	age		
X			Form	n of	No. of	No. of hours				
Year	Semeste	ər	instruc	ction		w tym e-lea	arning	Type of credit	E	ECTS
1	1		discussion	n classes	30	0		pg		4
			lectu	ure	15	0		е		•
Total					4	5				4
Course / module coordinator	dr hab. RAFA	Ł NAG	AJ							
Course instructor	dr hab. RAFA	Ł NAG	AJ							
Course / module objectives	To acquaint the relationships	he stud in the	lent with the economy, an	basic issue d to make s	es and models of students able to	f macroeco perceive th	nomics, t e relatior	o explain key proce ships between par	esses and ts of the e	conomy.
Prerequisites	Student's abil	lity to c	consider phei	nomena in a	a cause and effe	ct manner a	and willin	gness to acquire e	conomic l	knowledge.
	·			LEARNIN	G OUTCOMES					
Category		No.	Code	Descripti	on				Ref. to p benc	programme hmarks
		1	EP1	Student macroed between	has general k conomic proce economic op	nowledge esses as w erators.	about m ell as th	ain variables and e relationship	и К_	_W01
knowledge		2	EP2	Student aggrega unemplo them.	knows and de ites (ie produc oyment) and th	escribes th tion, aggro ne process	e basic egate de ses takin	macroeconomic mand, inflation, ig place within	K_ K_	_W01 _W02
		1	EP3	Student macroed	can correctly conomic aggre	identify, c gates.	lassify a	nd explain the	ĸ	_U01
skills		2	EP4	Student that occ role that the glob	can recognize ur between pa i individual eco al equilibrium	e and desc irts of the onomic op	ribe the econom erators	relationships y, as well as the play in achieving	K_ K_	_U01 _U05
social competences		1	EP5	The stud solving	dent is aware o macroeconom	of the impo ic problem	ortance	of knowledge in	ĸ	_K02
			CONTENT					Compation	No. o	f hours
			CONTENT					Semester		w tym e- learning
Subject title: makroekon	omia (macroeco	onomio	cs)					·		
Format of instruction: lec	ture									
1. Fundamentals of eco	nomics and fun	nctioni	ng of the eco	nomy. The	state of balance	in the ecor	iomy.	1	4	0
2. Main macroeconomic unemployment, inflation	c problems: glol n.	bal pro	oduct and eco	onomic grov	wth, labor marke	et and		1	3	0
3. The monetary system	n and monetary	policy						1	3	0
4. Private and public ag	gregate deman	d.						1	3	0

5. Interest rate and aggre	egate der	nand.				1	2	0
Format of instruction: disc	ussion c	lasses						
1. Introduction to economics. Circular flow of income and the equilibrium in the economy.							6	0
2. Basic macroeconomic problems: measurement of global product including GDP, unemployment, inflation.							6	0
3. Financial market. Mone	ey and b	anking system. Mo	onetary policy.			1	4	0
4. Private and public sec	tor dema	and versus aggreg	ate demand.			1	6	0
5. International trade vers market.	sus aggr	egate demand. Inc	ome and short-term equilibrium on the con	modity		1	4	0
6. Repetition and summa	ry of ma	croeconomic issu	es.			1	4	0
Modes of delivery	solvin	g tasks and proble	m questions, multimedia lectures, explanat	ion of theor	у			
							No. of I outcome sylla	earning from the abus
	EC74						ED4 ED2	
Assessment methods	EGZAI						EP1,EP2,	EP3,EP4
	KOLO	KWIUM					P5	
	Metody i zasadac	i formy weryfikacji ef h okre lonych w Reg	ektów uczenia si mog zosta zmienione dla stu Julaminie Studiów Uniwersytetu Szczeci skiego.	dentów ze sz	czególny	mi potrzeba	mi na waru	nkach i
Grading criteria	Grading criteria Credit for the classes: Students are assessed on the basis of two written colloquiums/tests. Tests consist of test questions and open tasks. Credit for lectures: Students are assessed on the basis of the written exam that consists of test questions. Graduating: a positive grade means that the the student has scored more than half of the points possible in both the colloquia and the exam.							
	Grade	calculation principle	25					
	The fir ambig	nal grade is the ari uous, then the exa	thmetic of grades of the classes and the example and the examp	am. If the re	sult of t	his arithme	etic mean	is
	Sem.	Course		Type of c	redit	Grade calc. Weight for method average		ght for the verage
Final grade calculation method	1	makroekonomia (macroeconomics)		A	Arytmetyczn	а	
	1	makroekonomia (macroeconomics) [wykład]	egzamin	-			
	1	makroekonomia (macroeconomics) [wiczenia]	ocen	2			
	C.J. Jo	ones. (2018): Macr	oeconomics, 3rd Edition., Norton & Company,	Inc., New Yo	ork/Londo	on		
Basic reading	Krugm	an, P., Wells, R. (20	018): Macroeconomics, 5th Edition, Worth Publ	ishers, New	York			
	N.G. M	lankiw (2016): Macr	oeconomics, 9th Edition, Worth Publishers, Ne	w York				
Supplementary reading	Mankiv	w, N.G. (2018): Prin	ciples of Macroeconomics, 8th Edition, Cenga	je Learning,	Inc.			
			STUDENT WORKLOAD					
			No. of hours					
				W tym e	e-learnii	ng		
Contact hours 45 0								
Participation in test / exa	am		6	0				
Preparation for contact	hours		10	0				
Private reading and stud	dying		10	0				
Participation in tutorials			15	0				
Preparation of project /	essay / e	etc.	0	0				
Preparation for test / exam 14 0								

TOTAL workload	100
ECTS credits	4

Curriculum title: USEFZ-EaITA-O-I-S-2	23/24Z									
Course title: marketing (Marketing (PODSTAWOWE)	3)						Course code: US71AIJ2866_	17S		
Name of field of study: Economics and IT Ap	oplications									
Mode and cycle of study: first-degree, full - tim	e		Profile of study general aca	/: ademic		Specialt	y:			
Course / module status obligatory					Language of semester	instruction: : 2 - english langu	Jage			
X			Form	of	No. of	hours		_		
Year	Semeste	er	instruc	tion		w tym e-learning	Type of credit	e of credit E		
1	2		discussion	classes	15	0	pg		3	
			lectu	re	15	0	pg			
Total					3	30			3	
Course / module coordinator	dr MAŁGORZ	ATA W	I CICKA-FER	NANDO						
Course instructor	prof. dr hab.	EDYT	A RUDAWSKA	, dr MAGD	ALENA KOWAI	_SKA				
Course / module objectives	The aim is to	preser	nt the essence	e of the cond	cept of marketin	ng as a way for runi	ning a business.			
Prerequisites	- In the field o - In the field o - In the field o	f knov f skills ompet	vledge - stude s - student is a ences (attitud	nt defines t able to analy les) - studer	he basic conce /se the rules of nt is able to wo	pts of economic the market mechan rk in a team and tak	iism e the discussion in a	a specified	d area	
		•		LEARNING	GOUTCOMES			•		
Category		No.	Code	Descriptio	on			Ref. to p benc	Ref. to programme benchmarks	
		1	EP1	Student I manager	knows the es nent.	sence of the com	pany marketing	к_	K_W04	
knowledge		2	EP2	Student I mix.	lists and desc	ribes the instrum	ents of marketing	К_	W04	
skills		1	EP3	Student I instrume of marke marketin	has the ability nts used by t t practice and g to a specifie	/ to suggest the s he company - to a I develops the co c company.	hape of marketing analyse examples ncept of	я К_	K_U04	
		2	EP4	Student I in team.	has the ability	/ to cooperate and	d solve problems	К_	_U18	
social competences		1	EP5	Student i marketin	is ready to for g manageme	rmulate their own nt and make decis	ideas concerning sions.	К_	_K04	
			CONTENT	1			Semester	No. of	f hours	
									w tym e- learning	
Subject title: marketing (Marketing)									
Format of instruction: lec	ture								.	
1. The development of r	marketing conce	ept					2	2	0	
2. Marketing environme	ent						2	2	0	
3. Market segmentation	, targeting and	positio	oning				2	3	0	
4. The development of p	product concept	t					2	2	0	
5. Pricing strategies 2 2 0							0			

6. Managing marketing o	hannels				2	2	0	
7. Marketing communica	2	2	0					
Format of instruction: disc	ussion c	lasses		I				
1. Getting familiar with the specific marketing-oriented companies 2 2								
2. The analysis of marke	t environ	ment			2	2	0	
3. Running the process of target market 2 3 0								
4. The development of the	ne conce	ot of the product a	nd product life cycle for the selected produc	ct	2	2	0	
5. Establishing prices ar	nd strateg	jies for price differ	entiation		2	2	0	
6. Selection of the metho	od of dist	ribution of the sele	ected offer		2	2	0	
7. Preparation of promot	tional act	ivities for the selec	cted company		2	2	0	
Modes of delivery	Multin	nedia presentation	, discussion, case studies, group work					
						No. of outcom syl	learning e from the labus	
Assessment methods	ZAJ ((WERYFIKACJA POPRZEZ OBSERWACJ			EP1,EP2	2,EP3 5	
	Metody	i formy weryfikacji ef	ektów uczenia si mog zosta zmienione dla stu	dentów ze szcze	gólnymi potrzeba	ami na waru	unkach i	
Grading criteria	verifyi lecture Credit Scale The st The st The st Grade	ng the knowledge e is based on a tes for lectures: writte of grading: udent receives ad udent receives a y calculation principle grade of the course	and skills of students on issues discussed t. en test. equate assessment if he receives at least 70 ood mark if he receives at least 80% of the p ery good if he receives at least 90% of the p es	during the exe % of the point points available ioints available the student du	rcises. The pases available	nd lecture	es (test)	
	Sem.	Course		Type of cred	t Grade cal method	c. We	ight for the average	
Final grade calculation	2	marketing (Marke	ting)		Arytmetycz	na	-	
method	2	marketing (Marke	ting) [wiczenia]	zaliczenie z ocen				
	2	marketing (Marke	ting) [wykład]	zaliczenie z ocen				
Desis reading	Kotler	P., Armstrong G., (2	2016): Principles of Marketing, Prentice Hall					
Basic reading	V. Kun Busine	nar, Werner Reinart ss and Economics.	z (2018): Customer Relationship Management: Springer-Verlag, Berlin	Concept, Strate	egy, and Tools.,	, Springer	Texts in	
	Ketller	, K.L., Kotler P., (20	15): Marketing Management, Global Edition Pe	arson				
Supplementary reading	Palme	r A. (2014): Principle	es of Services Marketing, Mc Graw Hill Educati	on				
	Ph. Ko	tler, H. Kartajaya, I.	Setiawan (2021): Marketing 5.0, John Wiley 8	Sons				
			STUDENT WORKLOAD					
			No. of hours					
				W tym e-le	arning			
Contact hours			30	0				
Participation in test / ex	am		4	0				
Preparation for contact	hours		7	0	0			

Private reading and studying	7	0
Participation in tutorials	12	0
Preparation of project / essay / etc.	0	0
Preparation for test / exam	15	0
TOTAL workload	75	
ECTS credits	3	

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z

Course title: matematyka finansc (KIERUNKOWE)	owa i ubezpiecz	eniov	va (financial	and insur	ance mathem	atics)		Course code: US71AIJ2857_2	27S	
Name of field of study: Economics and IT A	opplications									
Mode and cycle of study: first-degree, full - tir	ne		Profile of study general aca	r: ademic			Specialt	y:		
Course / module status obligatory		I			Language o semester	f instruction: : 3 - englis	h langu	lage		
Year Semester			Semester Form of		No. of hours		EC	тѕ		
			Instruc	tion		w tym e-lea	arning			
2	3		discussion	classes	30	0		pg		4
_			lectu	re	15	0		е		•
Total					4	45				4
Course / module coordinator	dr hab. IWONA	FOR	Y							
Course instructor	dr hab. IWONA	FOR	Y							
Course / module objectives	Obtaining basi applicable in the economic and	ic kno he fina finan	wledge of cal ancial and ins cial developm	culating the surance issuments.	e value of mone les. Acquisition	ey over time n of the abil	, getting ity to use	to know the basic p known methods in	rinciples an the analysi	d rules s of
Prerequisites	- knowledge of entrepreneurs - using the me spreadsheet,	f the f hip, fi ethods	undamentals nance and bar s of the subject	of mathema nking, ct Mathema	itical analysis, tics as in force	probability, on graduat	descript ion (basi	ive statistics, and m c), to use the basic f	ath, functions of	Excel
		WOIK	in a team, the		G OUTCOMES					
Category		No.	Code	Descriptio	on				Ref. to pro benchr	ogrammo narks
		1	EP1	Student which ap	knows the ba ply quantitat	sic financi ive method	al and i Is.	nsurance issues	K_W K_W	/05 /06
knowledge		2	EP2	Student over time loans, ev	knows the me e, constructio valuation of in	ethods use on schedul ivestment	ed in ma es for re projects	tters of money epayment of s.	K_W	/05
	-	3	EP3	Student insuranc	understands e rates.	the theore	tical cal	culation of	K_W	/10
		1	EP4	Student problems results.	can describe s of an econo	in a quant mic-financ	itative n ial and	nanner the interpret the	K_U	08
skills		2	EP5	Student and insu	adaptation to rance methoo	the analys ds of finan	sis of fir cial mat	nancial markets hematics.	K_U	10
	-	3	EP6	Student a	assessment o ent decisions.	of the finar	icial and	d social	к_บ	05
social competences		1	EP7	Student knowled individua available	is able to con ge and skills ally and in gro data on the o	nplement a in English pups using economic	nd imp while w the lite and fina	rove their vorking erature and uncial capacity.	к_к	01
				1				Semester	No. of h	ours
										w tym e- learning

Format of instruction: lectu	re								
1. The possibilities of using mathematics in finance. The theory of interest. Time Value of Money (current and future). 3 2 0									
2. Capitalizations of simple, compound, continuous. The intensity of interest. The capitalization of the variable interest rate. Simple and compound discounts. 3 2 0									
3. Interest rates - concepts and types. The rate of return. Nominal rate, effective, real. Methods for estimating the discount rate. 3 2 0									
4. Rent account (the current value and future cash flows). Annuity century. Create a pension fund. Fixed 3 2 0									
5. Schedules for repayments installments combined.	5. Schedules for repayment of loans. Debt cancellation plans. Rules repayment. Fixed repayment 3 2 0								
6. The use of mathematic effectiveness of investme	al finance fixed assets in the economy. Review of methods evaluate the nt projects. Dynamic methods of evaluation of investment projects.	3	2	0					
7. Fundamentals of actua	rial calculation. Calculation of insurance premiums.	3	3	0					
Format of instruction: disc	ission classes								
1. Introduction to time va current and future.	ue of money. Percentage of simple and complex. Determining the value of	3	4	0					
2. The possibilities of usi value. Determination of t	ng basic formulas in Excel spreadsheet for determining the current and future e effective rate.	3	2	0					
3. Nominal rate, effective variable interest rate.	and real rate. Equivalent rate. The intensity of interest. The capitalization of th	e 3	2	0					
4. Discount rate methods		3	2	0					
5. Sequences of payment forming an arithmetic pro	Annuities compatible and incompatible. Fixed annuity amount. Annuities gression, forming a series of geometric pension, annuity generalized.	3	4	0					
6. Compatible and incom	patible annuities. Arithmetic and geometric annuities.	3	2	0					
7. Construction of annuit	repayment plan with decreasing and selected rate.	3	4	0					
8. The principle of equiva period. Consolidation.	ence and installment debt, loan schemes. Conversion. Loans with grace	3	4	0					
period. consolidation. 3 2 9. Conversion of debt. Loans with grace period. Consolidation. 3 2									
10. Dynamic measures of	evaluation of investment projects.	3	4	0					
Modes of delivery The course comprises lectures with a presentation of research of economic and financial developments and									
Modes of delivery	I ne course comprises lectures with a presentation of research of economic simulations, everyises, and labs - work individually and in groups	and financial develo	pments an	d					
Modes of delivery	simulations, exercises, and labs - work individually and in groups.	and financial develo	No. of	d learning					
Modes of delivery	simulations, exercises, and labs - work individually and in groups.	and financial develo	No. of loutcome	d learning from the abus					
Modes of delivery	simulations, exercises, and labs - work individually and in groups.	and financial develo	No. of l outcome sylla	d learning from the abus					
Modes of delivery	EGZAMIN PISEMNY	and financial develo	No. of loutcome sylla	d learning from the abus ,EP3					
Modes of delivery	EGZAMIN PISEMNY KOLOKWIUM	and financial develo	EP1,EP2	d learning from the abus ,EP3 ,EP6					
Modes of delivery Assessment methods	EGZAMIN PISEMNY KOLOKWIUM PROJEKT	and financial develo	Principal States	d learning from the abus ,EP3 ,EP6 ,EP6,EP7					
Modes of delivery Assessment methods	EGZAMIN PISEMNY KOLOKWIUM PROJEKT Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.	szczególnymi potrzeb	Proments an No. of l outcome sylla EP1,EP2, EP4,EP5, EP4,EP5, ami na waru	d learning from the abus EP3 EP6 EP6,EP7 nkach i					
Modes of delivery Assessment methods	Ine course comprises lectures with a presentation of research of economic simulations, exercises, and labs - work individually and in groups. EGZAMIN PISEMNY KOLOKWIUM PROJEKT Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. Lecture: written exam test.	szczególnymi potrzeb	Proments an No. of l outcome sylla EP1,EP2 EP4,EP5 EP4,EP5 ami na waru	d learning from the abus ,EP3 ,EP6 ,EP6,EP7 nkach i					
Modes of delivery Assessment methods	The course comprises lectures with a presentation of research of economic simulations, exercises, and labs - work individually and in groups. EGZAMIN PISEMNY KOLOKWIUM PROJEKT Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. Lecture: written exam test. Exercise: Partial credit during exercise.	and financial develo	Poments an No. of l outcome sylla EP1,EP2, EP4,EP5, EP4,EP5, ami na waru	d learning ofrom the abus ,EP3 ,EP6 ,EP6,EP7 nkach i					
Modes of delivery Assessment methods Grading criteria	The course comprises lectures with a presentation of research of economic simulations, exercises, and labs - work individually and in groups. EGZAMIN PISEMNY KOLOKWIUM PROJEKT Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. Lecture: written exam test. Exercise: Partial credit during exercise. Grade calculation principles	szczególnymi potrzeb	Proments an No. of outcome sylla EP1,EP2, EP4,EP5, EP4,EP5, ami na waru	d learning ofrom the abus EP3 EP6 EP6,EP7 nkach i					
Modes of delivery Assessment methods Grading criteria	Ine course comprises lectures with a presentation of research of economic simulations, exercises, and labs - work individually and in groups. EGZAMIN PISEMNY KOLOKWIUM PROJEKT Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. Lecture: written exam test. Exercise: Partial credit during exercise. Grade calculation principles Final course grade - avarage of exam and exercise	szczególnymi potrzeb	Proments an No. of outcome sylla EP1,EP2, EP4,EP5, EP4,EP5, ami na waru	d learning ofrom the abus EP3 EP6 EP6,EP7 nkach i					
Modes of delivery Assessment methods Grading criteria	Ine course comprises lectures with a presentation of research of economic simulations, exercises, and labs - work individually and in groups. EGZAMIN PISEMNY KOLOKWIUM PROJEKT Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. Lecture: written exam test. Exercise: Partial credit during exercise. Grade calculation principles Final course grade - avarage of exam and exercise Sem. Course	szczególnymi potrzeb	Proments an No. of l outcome sylla EP1,EP2, EP4,EP5, EP4,EP5, ami na waru	d learning of from the abus ,EP3 ,EP6 ,EP6,EP7 nkach i					
Modes of delivery Assessment methods Grading criteria Final grade calculation	Ine course comprises lectures with a presentation of research of economic simulations, exercises, and labs - work individually and in groups. EGZAMIN PISEMNY KOLOKWIUM PROJEKT Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. Lecture: written exam test. Exercise: Partial credit during exercise. Grade calculation principles Final course grade - avarage of exam and exercise Sem. Course 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics)	szczególnymi potrzeb	Proments an No. of l outcome sylla EP1,EP2, EP4,EP5, EP4,EP5, ami na waru	d learning ofrom the abus ,EP3 ,EP6 ,EP6,EP7 nkach i					
Modes of delivery Assessment methods Grading criteria Final grade calculation method	The course comprises lectures with a presentation of research of economic simulations, exercises, and labs - work individually and in groups. EGZAMIN PISEMNY KOLOKWIUM PROJEKT Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. Lecture: written exam test. Exercise: Partial credit during exercise. Grade calculation principles Type of a matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics)	f credit Grade ca method Arytmetycz	Proments an No. of l outcome sylla EP1,EP2, EP4,EP5, EP4,EP5, ami na waru	d learning ofrom the abus ,EP3 ,EP6 ,EP6,EP7 nkach i ght for the iverage					
Modes of delivery Assessment methods Grading criteria Final grade calculation method	The course comprises lectures with a presentation of research of economic simulations, exercises, and labs - work individually and in groups. EGZAMIN PISEMNY KOLOKWIUM PROJEKT Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. Lecture: written exam test. Exercise: Partial credit during exercise. Grade calculation principles Type of a matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) [wiczenia] 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) [wiczenia] 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) [wiczenia] 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) [wiczenia] 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) [wiczenia]	f credit Grade ca Martinancial develo	Proments an No. of l outcome sylla EP1,EP2, EP4,EP5, EP4,EP5, ami na waru	d learning ofrom the abus ,EP3 ,EP6 ,EP6,EP7 nkach i ght for the iverage					
Modes of delivery Assessment methods Grading criteria Final grade calculation method	The course comprises lectures with a presentation of research of economic simulations, exercises, and labs - work individually and in groups. EGZAMIN PISEMNY KOLOKWIUM PROJEKT Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. Lecture: written exam test. Exercise: Partial credit during exercise. Grade calculation principles Final course grade - avarage of exam and exercise Sem. Course 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) [wiczenia] 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) [wiczenia] 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) [wiczenia] 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) [wiczenia] 3 matematyka finansowa i ubezpieczeniowa (financial and egzamii) 3 matematyka finansowa i ubezpieczeniowa (financial and egzamii) 3 matematyka finansowa i ubezpieczeniowa (financial and egzamii) 4 matematyka finansowa i ubezpieczeniowa (financial and egzamii) 5 with a finansowa i ubezpieczeniowa (financial and egzamii) 1 matematyka finansowa i ubezpi	f credit Grade ca method Arytmetycz ie z Finance, Elsevier But	Proments an No. of l outcome sylla EP1,EP2, EP4,EP5, EP4,EP5, ami na waru	d learning ofrom the abus ,EP3 ,EP6 ,EP6,EP7 nkach i ght for the iverage inemann,					
Modes of delivery Assessment methods Grading criteria Final grade calculation method	Intercourse comprises lectures with a presentation of research of economic simulations, exercises, and labs - work individually and in groups. EGZAMIN PISEMNY KOLOKWIUM PROJEKT Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. Lecture: written exam test. Exercise: Partial credit during exercise. Grade calculation principles Final course grade - avarage of exam and exercise Sem. Course 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) [wiczenia] 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) [wiczenia] 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) [wiczenia] 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) [wiczenia] 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) [wiczenia] 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) [wiczenia] 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) [wiczenia] 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) [wiczenia] 3 matematyka finansowa i ubezpie	f credit Grade ca method f credit Arytmetycz ie z Finance, Elsevier But New York	Proments an No. of l outcome sylla EP1,EP2, EP4,EP5, ami na waru clc. Wei d d ama terworth-He	d learning of from the abus ,EP3 ,EP6 ,EP6,EP7 nkach i ght for the iverage inemann,					
Modes of delivery Assessment methods Grading criteria Final grade calculation method Basic reading	The course comprises lectures with a presentation of research of economic simulations, exercises, and labs - work individually and in groups. EGZAMIN PISEMNY KOLOKWIUM PROJEKT Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego. Lecture: written exam test. Exercise: Partial credit during exercise. Grade calculation principles Final course grade - avarage of exam and exercise Sem. Course Type of a matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) [wiczenia] 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) [wiczenia] 3 matematyka finansowa i ubezpieczeniowa (financial and insurance mathematics) [wiczenia] John McCutcheon, William F. Scott (2005): An Introduction to the Mathematics of Amsterdam, Karatzas I.; Shreve S. (1998): Methods of Mathematical Finance, Springer-Verlag Leslie Jane Federer Vaaler, James W. Daniel (2009): Mathematical Interest Theorem America, Washington,	szczególnymi potrzeb szczególnymi potrzeb f credit Grade ca method Arytmetycz ie z i Finance, Elsevier But New York y, 2nd ed., Mathemat	Proments an No. of l outcome sylla EP1,EP2, EP4,EP5, EP4,EP5, ami na waruu	d learning of from the abus ,EP3 ,EP6 ,EP6,EP7 nkach i ght for the iverage inemann,					

	Borowski J., Gopla ski R., rozwi zania., Szkoła Głów	Kasprzak K., Melon L., Podgórska M. (2003): Ma na Handlowa	atematyka finansowa - przykłady, zadania testy,				
	Foltynowicz I. (2001): wiczenia z matematyki finansowej w Excelu: w poszukiwaniu równa bankierów., Mikom						
	Jaworski P., Micał J. (200)05): Modelowanie matematyczne w finansach i ubezpieczeniach., Poltext					
Supplementary reading	Matłoka M. (2000): Matematyka w finansach i bankowo ci., Akademia Ekonomiczna w Poznaniu						
	Podgórska M., Klimkowsk	a J. (2005): Matematyka finansowa., PWN					
	Sharpe W. (1985): Investr	nents, Prentice-Hall					
	Smaga E. (2000): Arytmet	yka finansowa., PWN					
		STUDENT WORKLOAD					
		No. of hours					
			W tym e-learning				
Contact hours		45	0				
Participation in test / ex	am	3	0				
Preparation for contact	hours	8	0				
Private reading and stue	dying	8	0				
Participation in tutorials		12	0				
Preparation of project /	essay / etc.	12	0				
Preparation for test / ex	am	12 0					
TOTAL workload	FOTAL workload 100						
ECTS credits		4					

Curriculum title:	
LISEE7-EaITA-O-I-S-23/247	

Unit: Metody analiz rynkov	wych (Market r	esea	rch methods	s) [moduł]]					
Course title: metody ilo ciowe w l (KIERUNKOWE)	badaniach ma	rketin	gowych (qu	antitative	e methods in ma	arketing)		Course code: US71AIJ2931_	52S	
Name of field of study: Economics and IT Ap	oplications							1		
Mode and cycle of study: first-degree, full - tim	le		Profile of study general aca	y: ademic		S	pecialty			
Course / module status elective					Language of semester:	instruction: : 4 - english	langua	age		
Year	Semeste	Semester Form of instruction		No. of	hours	ning	Type of credit	E	CTS	
			labora	itorv	15	0		DQ		
2	4		lectu	ire	15	0		pg		3
Total					3	0				3
Course / module coordinator	dr hab. CHRIS	TIAN	LIS				I			
Course instructor dr hab. SEBASTIAN MAJEWSKI										
Course / module objectivesObtaining basic knowledge of measurement in research of attitudes, preferences and motivations. The acquisition of ability to construct a questionnaire in marketing research and planning audit.										
 - the knowledge of procedures for estimating parameters of the population structure, - the knowledge of using methods of module "Statistics"; - the knowledge of terminology of the subject "Marketing". 										
				LEARNI	NG OUTCOMES					
Category		No.	Code	Descript	ion				Ref. to p benc	programme hmarks
languiledre		1	EP1	Student knows and kin	t knows the the the method for d and a size of	e steps of ma determining the sample	arketin g the p	g research, ersonal scope	к_	W04
knowledge		2	EP2	Student preferent position	t knows the me nces, motivatio n.	thods of me n, market s	easurei hares,	nent of attitudes competitive	, к_	W10
akilla		1	EP3	Student prefere	ts can prepare and attitue	a questionn des.	aire to	study the	К_	_U10
SKIIIS		2	EP4	Student researc	t can critical an hes.	alyse the co	onditio	ns of marketing	К_	_U06
social competences		1	EP5	Student by the s importa departn	t is ready to use statistical institution ance and conse nents of public	e the results utes and ap quences of statistics.	s of res preciat coope	earch conducted tes the ration with the	я К_	<u>K02</u>
			CONTENT					Semester	No. of	f hours
										w tym e- learning
Subject title: metody ilo	ciowe w badani	iach m	arketingowy	ch (quantit	ative methods in	marketing)				
Format of instruction: lec	ture									1
1. The formulation of go	oals, the organiz	ation	of research, o	descriptior	n of the field of m	arketing rese	arch.	4	2	0
2. Marketing information secondary sources.	n system, analy	sis of	environment,	, the criteri	a for the quality e	evaluation of	datas	4	2	0
3the building of the q selection_	juestionnaire, th	ne num	ber of respo	ndents and	d the criteria for t	he responder	nts'	4	2	0

4. The study of motivatio	on. Obser	vations. Experiments.		4	2	0			
5. Studies of attitudes, p	6.	4	2	0					
6. Researches of shares and attractiveness of the	position	4	2	0					
7. Methods of multidimer	nsional c	omparative analysis		4	3	0			
Format of instruction: labo	oratory								
1. Definition of a researc	h and ide	ntification of sources of marketing information.		4	3	0			
2. Measuring scales in marketing research. 4 3 0									
3. Construction of the questionnaire, verification of assumptions, representativeness problems. 4 3 0									
4. Measurement in motivational and experimental researches. 4 3									
5. The application of mul	tidimens	ional analysis in marketing.		4	3	0			
Modes of delivery	The co studies solving	urse comprises lectures with a presentation of research of so s (questionnaires analysis and solving of problems tied with g.	ocio-economic observation and	phenomena ai I measuremer	nd exercis it), and pro	es - case oblem			
					No. of outcome	learning from the			
		- Syn	4543						
Assessment methods	KOLO	KWIUM			EP1,EP2,EP3,EP4,E P5				
	PRAC	EP1,EP2,EP3,EP4,E P5							
/ Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze szczególnymi potrzebami na warunkach i zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.									
Credit for the lecture is on the basis of a written test. Credit for laboratories is on the basis of one work, i.e. a case study (analysis of questionnaires and problem solving related to observation and measurement). Grading: The final grade of the course is possible only when a student gets a positive grade of the test									
Grading criteria	Grade calculation principles								
	The final grade of the course is calculated as follows: - Students are evaluated on the basis of a written test and one work - case study (questionnaires analysis and solving of problems tied with observation and measurement)								
	The fin	al grade is the average of the grades for the lecture and for t	he laboratory cl	asses.					
	Sem.	Course	Type of credit	Grade cal method	c. We	ght for the average			
Final grade calculation	4	metody ilo ciowe w badaniach marketingowych (quantitative methods in marketing)		Arytmetycz	na				
incured.	4	metody ilo ciowe w badaniach marketingowych (quantitative methods in marketing) [laboratorium]	zaliczenie z ocen						
	4	metody lio clowe w badaniach marketingowych (quantitative methods in marketing) [wykład]	zaliczenie z ocen						
	Brandii	narte P. (2011): Quantitative Methods, An Introduction for Busine	ss Management,	John Wiley an	d Sons Ltd				
	David I	R. Anderson (2016): Quantitative Methods for Business, Cengage	Learning						
	Grover Publica	R., Vriens M. (2006): The Handbook of Marketing Research. Use tions, Inc	es, Misuses, and	Future Advanc	es, SAGE				
Basic reading	McClav Edition	ve J.T., Benson P.G., Sincich T. (2018): Statistics For Business na , New Jersey	ad Economics, P	earson Prentice	e Hall, 13th	Global			
	R. Lym	an Ott, Michael Longnecker (2015): An Introduction to Statistical I	Methods and Da	a Analysis, Du	xbury Thor	nson			
	Scott S	mith and Gerald Albaum (2005): Fundamentals in Marketing Res	earch, Sage Pub	lications, Inc., I	ondon, Ne	w Delhi			
	Waters	D. (2011): Quantitative Methods for Business, Pearson Education	n Limited						
	Dennis	D. Boos, L. A. Stefanski (2013): Essential Statistical Inference, S	pringer-Verlag N	ew York Inc.					
Supplementary reading	Freedn	nan D., Pisani R., Purves R. (2007): Statistics, W.W. Norton & Co	mpany, 4th Ed.,	New York, Lond	don				
	Walesi	ak M. (2006): Uogólniona miara odległo ci w statystycznej analizi	e wielowymiarow	ej, WN AE Wro	ocław				
	Wasse	rman L. (2005): All of Statistics. The Concise Course of Statistical	Inference, Sprin	ger					

STUDENT WORKLOAD							
	No. of hours						
		W tym e-learning					
Contact hours	30	0					
Participation in test / exam	5	0					
Preparation for contact hours	8	0					
Private reading and studying	8	0					
Participation in tutorials	14	0					
Preparation of project / essay / etc.	0	0					
Preparation for test / exam	10	0					
TOTAL workload	75						
ECTS credits	3						

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z

03EFZ-EditA-0-1-3-2	23/242										
Course title: metody wyceny prze (KIERUNKOWE)	ourse title: metody wyceny przedsi biorstw (enterprise appraisal methods) (KIERUNKOWE)										
Name of field of study: Economics and IT A	oplications										
Mode and cycle of study:	00		Profile of study	y: ademic		ຣ	Specialty	:			
			general act	adenne							
Course / module status obligatory					Language of semeste	r: 6 - english	langu	age			
			Form	n of	No. o	of hours					
Year	Semeste	Semester		instruction		w tym e-lear	ning	Type of credit	E	CTS	
3	6		lectu	ıre	15	0		е		2	
Total						15				2	
Course / module coordinator	dr hab. KATAI	RZYN	A BYRKA-KIT	A			•				
Course instructor	prof. dr hab.	DARIU	ISZ ZARZECH	KI							
Course / module objectives	Subject cover	s issu	es of busines	s valuation	methods.						
 - Knowledge: the student knows the basics of accounting, finance, statistics, economic analysis, methods for assessing the effectiveness of investments and financial planning. The student has a general knowledge of the macro-and microeconomics and management; - Skills: the student can handle a spread sheet; - Competence (attitude): students can work in groups, has habits of lifelong learning. 											
			1	LEARNIN	G OUTCOMES						
Category		No.	Code	e Description Ref. to probenchr			brogramme hmarks				
knowledge		1	EP1	Student function	has specific of the valuat	knowledge o ion	on natu	re, purpose and	K_W07		
e		2	EP2	Student	knows the m	ethods for v	aluing	businesses	К_	W07	
-1.''		1	EP3	Student practice	is able to app	oly known m	ethods	of valuation in	K_ K_	K_U07 K_U16	
SKIIIS		2	EP4	Student valuatio	is able to bui n of compani	ld a financia es	l mode	I for the	K_ K_	U07 U16	
social competences		1	EP5	Student behavio	is ready to re ur in busines	ecognize and s valuation	l avoid	unethical	K_ K_	K03 K05	
									No. of	hours	
			CONTENT					Semester		w tym e- learning	
Subject title: metody wy	ceny przedsi bi	orstw	(enterprise a	ppraisal me	thods)						
Format of instruction: lec	ture										
1. The essence of the o	bjectives, functi	ions, k	ousiness valu	ations				6	2	0	
2. Overview of the basic	c concepts of er	nterpri	se valuation					6	2	0	
3. Legal determinants of	of the valuation of	of con	panies in Po	land				6	2	0	
4. Income approach to	valuation of con	npanie	es					6	2	0	
5. Estimating the cost of	of capital for the	purpo	oses of busin	ess valuatio	on			6	2	0	
6. Market approach to valuing businesses 6 2 0						0					

7. Special cases in the va	aluation of			6	2	0			
8. Summary of the materi	ial					6	1	0	
Modes of delivery	Lectur	es with a presenta	tions and examples for practical solutions	(case study)).				
							No. of outcome sylla	earning from the abus	
Assessment methods							EP1,EP2	EP3,EP4,E	
	EGZAI						P5		
Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze szczególnymi potrzebami na warunkach i zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.									
Credit for lectures: Course ends with an exam test.									
Grading criteria	Grade	calculation principle	S						
The final grade is equal to the grade from lectures.									
	Sem.	m. Course Type			redit	Grade cal method	c. Wei a	ght for the verage	
Final grade calculation method	6	6 metody wyceny przedsi biorstw (enterprise appraisal methods)					а		
	6	6 metody wyceny przedsi biorstw (enterprise appraisal methods) egzamin egzamin							
Hitchner James R. (2011): Financial Valuation: Applications and Models, John Wiley & Sons									
Basic reading	Mercer	r Z. Christopher, Hai	rms Travis W. (2008): Business Valuation: An	Integrated T	heory	, John Wiley	& Sons		
Dasie reading	Pratt Shannon P. (2005): The Market Approach to Valuing Businesses, John Wiley & Sons								
	Zarzec	ki D. (1999): Metody	y wyceny przedsi biorstw, Fundacja Rozwoju	Rachunkowo	o ci w	Polsce			
	czasop	pismo (2008): Valuat	ion Strategies, Thomson RIA						
Supplementary reading	dane ry	ynkowe (2012): Ibbc	otson Year Book, Morningstar						
	Zadora	a H. (2010): Wycena	a przedsi biorstw w teorii i praktyce, Wydawnictwo Stowarzyszenia Ksi gowych w Polsce						
			STUDENT WORKLOAD						
			No. of hours						
				W tym e	e-lear	ning			
Contact hours			15	0					
Participation in test / exa	am		2	0					
Preparation for contact	hours		8	0					
Private reading and stud	dying		8	0					
Participation in tutorials			7	0					
Preparation of project /	essay / e	etc.	0	0					
Preparation for test / exa	am		10	0					
TOTAL workload			50						
ECTS credits			2						

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z

03LFZ-EarrA-0-1-3-	23/242												
Course title: mi dzynarodowe stosunki ekonomiczne (international economic relations) (PODSTAWOWE) Course code: US71AIJ2890_37S													
Name of field of study: Economics and IT A	pplications												
Mode and cycle of study: first-degree, full - tin	ne		Profile of study general aca	demic			Specialty	/:					
Course / module status obligatory					Language or semester	f instruction: :: 6 - englis	h langu	age					
Vear	Semeste)r	Form of		No. of	f hours		Type of credit		FCTS			
i cai	Oemeste	-1	instruc	tion		w tym e-learning		Type of creat		LOIO			
3	6		discussion	classes	15	0		pg		3			
0			lectu	re	15	0		pg		0			
Total						30				3			
Course / module coordinator	dr in . MARCI	N GR)	CZKA	L			-						
Course instructor	dr in . MARCI	N GR	CZKA										
Course / module objectives Acquiring the knowledge about the world economy processes, especially the ones concerning goods, services, labor force and capital flows; comprehension of the electronic market and e-commerce phenomena; familiarity with concerning concerning technology transfer inpovation and competitive accomments related to international technology transfer inpovation and competitive accomments related to international technology transfer inpovation and competitive accomments related to international technology transfer inpovation and competitive accomments related to international technology transfer inpovation and competitive accomments related to international technology transfer inpovation and competitive accomments related to international technology transfer inpovation and competitive accomments related to international technology transfer inpovation and competitive accomments related to international technology transfer inpovation and competitive accomments related to international technology transfer inpovation and competitive accomments related to international technology transfer inpovation and competitive accomments related to international technology transfer inpovation and competitive accomments related to international technology transfer inpovation accomments related to international technology technology transfer inpovation accomments related to international technology techno													
Prerequisites Basic knowledge in the following fields: microeconomics, macroeconomics, international trade, international finance													
-		_		LEARNING	OUTCOMES								
Category		No.	Code	Description Ref. to program benchmarks					programm chmarks				
knowledge		1	EP1	Student H tendencie foreign tr world	knows the material tension of te	ain trends nic globaliz omic proce	of econo ation, k sses tal	omic policies and nows the role of king place in the	к	_W16			
		1	EP2	Student i economic benefits a the world	s able to correctly identify and explain the c policies of the state and understands the and risks associated with the development of l economy and globalization.				к	_U16			
skills		2		2 EP3 Cor nor clea his cor var		Student h terms of Understa topics, in communi normal co clear, det his positi consider various o	Student has the ability to use the English language in erms of knowledge gained in the course of study. Inderstand the main ideas of complex text on business opics, including understanding the discussion. Can communicate so spontaneously and fluently to perform formal conversation with native speakers. Can formulate clear, detailed oral and written ideas, as well as explain is position on issues that are being discussed, considering the advantages and disadvantages of				, K	K_U16	
		3	EP5	Student can freely communicate in English in an international group to carry out business tasks and projects. Is able to interact and work in organizations where the language of communication is English.				ĸ	_U16 _U18				
social competences		1	EP4	Student i and to pa changing	s prepared to rticipate in d environmen	o form their lecision-ma at conditior	r own id aking p ns.	leas and beliefs rocess in a	к	_K02			
		_	CONTENT				_	Semester	No.	of hours			
										learning			

Subject title: mi dzynarod	lowe sto	sunki ekonomiczne (international economic relations)							
Format of instruction: lectu	ure				1	1			
1. World economy - basic	6	2	0						
2. Evolution of the intern	6	3	0						
3. International services	6	3	0						
4. International labour fo	rce flow	S		6	3	0			
5. Foreign direct investm	6	2	0						
6. WTO and its role in the	e interna	tional trade		6	2	0			
Format of instruction: disc	ussion o	classes			i	i			
1. Formal markets and th	neir trans	sition into electronic markets		6	3	0			
2. International technolog	gy trans	fer and knowledge diffusion		6	3	0			
3. Foreign direct investm	nent - pra	actical issues		6	2	0			
4. International trade stat	tistics ?	selected issues		6	4	0			
5. New phenomena in glo	obal eco	nomy		6	3	0			
Modes of delivery	lectur	es, discussions, PowerPoint presentations, usage of Internet	resources an	d electronic data	abases				
	No. of learning outcome from the syllabus								
Assessment methods	KOLO								
	PREZ	ENTACJA			EP1,EP4	.EP5			
	Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze szczególnymi potrzebami na warunkach i zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.								
	Self-p writte 30 poi	repared presentation on topic selected AND AGREED with the n test consisting of 25 questions (multi-choice, 1 point each) p ints for this part), student's activity during classes (maximum	e lecturer (ma blus 1 open-e 10 points for	nximum 60 points anded question (this part).	s for this p 5 points) (r	art), final naximum			
Grading criteria	Grade	calculation principles							
	The fir studer 4.0, 85	nal grade of the course is calculated as follows: nt needs at least 55 points to pass the course, i.e. 55-68 points 5-92 - grade 4.5, 93 points or more - grade 5.0.	s equals grad	le 3.0, 69-75 - gra	ade 3.5, 76	•84 - grade			
	Sem.	Course	Type of cre	edit Grade ca method	lc. Wei	ight for the average			
Final grade calculation	6	mi dzynarodowe stosunki ekonomiczne (international economic relations)		Wa ona					
method	6	mi dzynarodowe stosunki ekonomiczne (international economic relations) [wykład]	zaliczenie z ocen			0,30			
	6	mi dzynarodowe stosunki ekonomiczne (international economic relations) [wiczenia]	zaliczenie z ocen			0,70			
	Carba	ugh R. (2018): International Economics, Cengage							
Chesbrough H. (2011): Open Services Innovation: Rethinking Your Business to Grow and Compete in a New Era., Jos Bass, A Wiley Imprint Dicken P. (2015): Global Shift: Mapping the Changing Contours of the World Economy., Guilford Publications									
							Basic reading	Feens	tra R., Taylor A. (2017): International Economics, Worth Publishers
	Gopina	ath G., Helpman E. and Rogoff K. (eds.) (2014): Handbook of Inte	rnational Ecor	nomics, Volume 4	, Elsevier				
	Krugm	nan P.R., Obstfeld M., Melitz M. (2017): International Economics: T	heory and Po	licy, Pearson Edu	cation Limit	ted			
	Schen	k C.R. (2021): International Economic Relations since 1945, Routh	edge						

	Bingham A., Spradlin D. (2011): The Open Innovation Marketplace. Creating Value in the Challenge Driven Enterprise., FT Press						
	Ghahroudi M.R. (2018): Foreign Direct Investment, World Scientific Publishing						
Supplementary reading	Moosa I. (2002): Foreign Direct Investment. Theory, Evidence and Practice, Palgrave Macmillan UK						
	Rugman A.M. (ed.) (2010)	: The Oxford Handbook of International Business	., Oxford University Press				
STUDENT WORKLOAD							
		No. of hours					
			W tym e-learning				
Contact hours		30	0				
Participation in test / exam		2	0				
Preparation for contact	hours	13	0				
Private reading and stud	dying	10	0				
Participation in tutorials		10	0				
Preparation of project /	essay / etc.	10	0				
Preparation for test / exam		0	0				
TOTAL workload		75					
ECTS credits		3					

Curriculum title: USEFZ-EaITA-O-I-S-2	23/24Z										
Course title: mikroekonomia (microeconomics) (PODSTAWOWE) Course code: US71AIJ2860_18S									18S		
Name of field of study: Economics and IT A	pplications							•			
Mode and cycle of study: first-degree, full - tim	ıe	I	Profile of study general aca	/: ademic		ç	Specialty				
Course / module status obligatory					Language o semeste	of instruction: r: 2 - english	langua	age			
No. or	0		Form	of	No. o	f hours		T		-070	
Year	Semeste	r	instruc	ction		w tym e-lear	ning	Type of credit	E	2015	
1	2		discussion	classes	30	0		pg		4	
			lectu	ire	15	0		е			
Total						45				4	
Course / module coordinator	dr hab. TOMAS	SZ BE	RNAT								
Course instructor	dr hab. TOMAS	SZ BE	RNAT								
Course / module objectives	The aim is to p the behavior o methods and t	oresen f indiv ools f	It the basic is /idual entities or the analys	sues of micr , micro-ecor is of micro-e	oeconomics o nomic theory o conomic activ	course, in par of choice: cor /ities of econ	ticular th sumers omic age	ne functioning of ir and businesses, t ents.	ndividual r he basic c	narkets, onceptual	
Prerequisites	The student kr economic ever Students are a relationship be The student is economic life.	nows f nts. Ible to etweer able f	the basics of solve the ba n the main ca to think analy	economics a sic tasks of i tegories, wh tically, prop	and the princip mathematics a ich are subjec erly formulate	oles of marke and use (prop at to economic conclusions	t econor erly inte c analys based o	ny, student is orier rpreted) graphs sh is. n their knowledge	ntented in lowing the of the nev	current vs of	
				LEARNING	OUTCOMES						
Category		No.	Code	Descriptio	n				Ref. to programme benchmarks		
knowledge		1	EP1	Student k basic ecc	nows basic pnomic even	methodolog ts.	jy allow	ed to analysis	K_ K_ K_	K_W01 K_W03 K_W07	
skills		1	EP2	Students different situation	can predict issues from in different r	possible sc market and market struc	enarios can ass ture.	come from sess company	K_ K_ K_	_U01 _U05 _U07	
social competences		1	EP3	Student of easily con of people projects.	can think in o mmunicate i in order to o	creative and n English in carry out bu	innova an inte siness	tive way and rnational group tasks and	K_ K_ K_	_K01 _K02 _K04	
			CONTENT					Semester	No. o	f hours	
Subject title: mikroekon	omia (microecon	omics	5)							rearring	
Format of instruction: lec	ture										
1. Introduction to micro	peconomics							2	3	0	
2. Theory of demand a	nd supply							2	2	0	
3. Market equilibrium a	nd its changes							2	2	0	
4. Company choice - th	eory of production	on						2	2	0	
5. Costs, revenue and profits							2	2	0		

6. Optimal choice of com	pany			2	2	0		
7. Market structure - perfect competition 2								
Format of instruction: discussion classes								
1. Introduction to microeconomics 2 3 0								
2. Economics meory of numan behaviour 2								
3. Theory of demand and	supply			2	3	0		
4. Market equilibrium and	l its char	nges		2	3	0		
5. Company choice - theo	ory of pro	oduction		2	3	0		
6. Costs, revenue and pro	ofits			2	3	0		
7. Optimal choice of com	pany			2	3	0		
8. Market structure - perf	ect comp	petition		2	3	0		
9. Market structure - impe	erfect co	mpetition		2	3	0		
10. The case studies ana	lysis			2	3	0		
Modes of delivery	Main fo	orm of knowledge transfer is lectures with case studies. The m	ain way of exce	rcises is cas	e studies :	solving,		
					No. of	earning		
	outcome from the syllabus							
Assessment methods	EGZAN				EP1			
	KOLO				EP1			
	PREZE	INTACJA			EP1,EP2,	,EP3		
Grading criteria	Grading criteria Credit for classes: Grading criteria - The student receives a satisfactory grade - if he can provide some basic definitions of terms related to microeconomics and solve simple algebraic tasks. - The student is given a score good - when also can define the basic relationships occurring in different markets , as well as to solve problems in which it can represent causal relationships that take place in the markets, as well as to solve good - if also able to predict the likely impact of events taking place in the markets , as well as able to solve case studies that require properties and corporate of the basic of events taking place in the markets , as							
	Grade	calculation principles						
	The fin	al course grade is the arithmetic mean of the exercise and lect	ture grades.					
	Sem.	Course	Type of credit	Grade cal method	c. Wei a	ght for the verage		
Final grade calculation	2	mikroekonomia (microeconomics)		Arytmetyczr	na			
	2	mikroekonomia (microeconomics) [wykład]	egzamin					
	2	mikroekonomia (microeconomics) [wiczenia]	zaliczenie z ocen					
	N. Gree	gory Mankiw (2017): Principles of Microeconomics, New York						
Basic reading	Perloff	J. (2007): Microeconomics, Pearson International Edition						
Forbes								
Supplementary reading	The Ec	onomist						
The Financial Time								

STUDENT WORKLOAD							
	No. of hours						
		W tym e-learning					
Contact hours	45	0					
Participation in test / exam	0	0					
Preparation for contact hours	15	0					
Private reading and studying	10	0					
Participation in tutorials	15	0					
Preparation of project / essay / etc.	5	0					
Preparation for test / exam	10	0					
TOTAL workload	100						
ECTS credits	4						

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Course title: Course code: modelowanie i symulacje w analizie biznesowej (computer aided modelling and simulation) US71AIJ2895_68S (KIERUNKOWE) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Profile of study: Specialty: first-degree, full - time general academic Course / module status Language of instruction: semester: 5 - english language obligatory No. of hours Form of Semester ECTS Year Type of credit instruction w tym e-learning 15 0 laboratory pg 3 5 2 lecture 15 0 pg Total 30 2 Course / module dr AGATA WAWRZYNIAK coordinator Course instructor dr hab. MAŁGORZATA ŁATUSZY SKA Course / module Preparing students for the use of computer simulation methods in conducting business analysis in enterprises. objectives Knowledge: a student has a general understanding of the functioning of business objects; Prerequisites Skills: a student is able to operate a computer in MS Windows operating environment; Competence: a student is able to work in a group. LEARNING OUTCOMES Ref. to programme benchmarks Category No. Code Description Student has the knowledge about the capabilities and knowledge 1 EP1 limitations of computer simulation methods in the K W08 analysis of the business. Student can create computer simulation models to solve FP2 1 K U08 specific business problems. skills Student is able to plan the simulation experiments and 2 EP3 K U10 interpret the results. Student is ready to formulate his own ideas for solving 1 EP4 business problems using methods and tools for K_K04 social competences modeling and simulation of processes. No. of hours CONTENT Semester w tym elearning Subject title: modelowanie i symulacje w analizie biznesowej (computer aided modelling and simulation) Format of instruction: lecture 3 0 1. Introduction to computer simulation. Basic concepts and definitions 5 6 2. System Dynamics as the technique of continuous simulation 5 ٥ 5 2 3. Techniques of discrete simulation 0 2 4. Languages and tools of computer simulation 5 0 5. An overview of applications of computer simulation methods for economic and business problems 2 5 0 solving (case studies) Format of instruction: laboratory 2 0 1. Discussion on character of causal relationships appearing in economic objects 5
2. Acquisition of ability to	o work ir	simulation packa	ge environment			5	4	0	
3. Constructing and solve making problems (practic	ing simu cal tasks	lation models in si	mulation package environment for specifi	c decision-		5	7	0	
4. Evaluation of achieved	l educati	onal effects				5	2	0	
Modes of delivery Lectures: multimedia presentation Laboratories: discussion, case studies, performing simulation experiments, the development of the in groups.								t, working	
								No. of learning outcome from the syllabus	
							FD4		
Assessment methods	ZAJ C		(WERYFIKACJA POPRZEZ OBSERWACJ)			EP1 EP2.EP3	EP4	
	Metody	i formy weryfikacji efe	ektów uczenia si mog zosta zmienione dla st ulaminie Studiów Uniwersytetu Szczeci skiego.	, udentów ze sz	zczególr	nymi potrzeba	mi na waru	inkach i	
	Lectures: grade based on a written test. Laboratories: the number of points received for the realization of individual and group projects (max. 20 points): for 20 points: 5,0; 18-19: 4,5; 16-17: 4,0; 14-15: 3,5; 12-13: 3,0, 11 and under: 2.0) - mark from the laboratories.								
Grading criteria	Grade	calculation principle	s						
	The co The fir	ondition for obtaini nal grade of the co	ng the final grade is to pass lectures and I urse results from the arithmetic mean of a	aboratories Il grades obt	at a mi tained f	inimum 3.0. for lectures	and labor	atories.	
	Sem.	Course		Type of c	credit	Grade cal method	c. We	ight for the average	
Final grade calculation	5	5 modelowanie i symulacje w analizie biznesowej (computer aided modelling and simulation)				Arytmetyczi	na		
method	5	modelowanie i syr aided modelling a	nulacje w analizie biznesowej (computer nd simulation) [laboratorium]	zaliczenie ocen	z				
	5 modelowanie i symulacje w analizie biznesowej (computer zaliczenie z aided modelling and simulation) [wykład] ocen								
	Kirkwo	od C.W. (2013): Sys	stem Dynamics Methods: A Quick Introduction	n, Arizona St	ate Univ	versity			
Basic reading	Sterma	Sterman J.D. (2000): Business Dynamics: Systems Thinking and Modeling for a Complex World, McGraw-Hill/Irwin							
Duble reduing	Warren K. (2002): Competitive Strategy Dynamics, John Wiley & Sons								
	(2013)	: Road Maps: A Gui	de to Learning System Dynamics, http://clexc	hange.org/cu	urriculur	n/roadmaps.	asp		
Supplementary reading	Łatusz	y ska M. (2008): Sy	mulacja komputerowa dynamiki systemów, Wydawnictwo PWSZ						
	Mielcza Wrocła	arek B. (2009): Mod awskiej	elowanie symulacyjne w zarz dzaniu. Symula	acja dyskretn	ia, Oficy	/na Wydawni	cza Polite	chniki	
			STUDENT WORKLOAD						
			No. of hours						
				W tym	e-learr	ning			
Contact hours			30	0					
Participation in test / exa	am		0	0					
Preparation for contact	hours		4	0					
Private reading and stud	dying		6	0					
Participation in tutorials			6	0					
Preparation of project /	essay / o	etc.	0	0					
Preparation for test / ex	am		4	0					
TOTAL workload			50						
ECTS credits			2						

Curriculum title: USFF7-FaITA-O-I-S-23/24Z

05EFZ-EarrA-0-1-5-2	3/242										
Course title: multimedia w działali (KIERUNKOWE)	ourse title: nultimedia w działalno ci biznesowej (multimedia applications in business) Course code: KIERUNKOWE) EFZ71AIJ3432_10S										
Name of field of study: Economics and IT Ap	plications										
Mode and cycle of study: first-degree, full - tim	e	I	Profile of study general aca	demic		Specialt	y:				
Course / module status obligatory					Language of semester	instruction: : 2 - english langu	lage				
Year	Semester		Year Semester		Form	of	No. of	hours	Type of credit	E	ECTS
			Instruction			w tym e-learning					
1	2		laborat	tory	15	0	pg		3		
	<u></u>		lectu	re	15	0	pg		0		
Total					3	0			3		
Course / module coordinator	dr GRZEGORZ	woj	ARNIK								
Course instructor	mgr AGNIESZK	(A MI	LUNIEC , dr G	RZEGORZ W	OJARNIK						
Course / module objectives	Preparing stude multimedia pres	ents i senta	to communica ations and app	te effectively blications for	y with contem business pur	porary tools and res poses.	sources to build the	audiovisu	al and		
Prerequisites	Prerequisites Knowledge of basis of computer programming.										
LEARNING OUTCOMES											
Category		No. Code Description Ref. to progra					orogramme hmarks				
knowledge		1	EP1	Student knows the concepts and technologies in the field of multimedia applications and how to use them in the enterprise.					W13 W15		
		1	EP2	Student h programm	as an ability ning technolo	to use choosen d ogies to create mu	lesktop ultimedia projects	. к_	_U08		
skills		2	EP3	Student c internatio business	an easily cor nal group of tasks and pr	nmunicate in Eng people in order to ojects.	llish in an o carry out	К_ К_	K_U16 K_U18		
social competences		1	EP4	Thanks to to convey auditoriur	multimedia his ideas, w n.	technologies, the orks and projects	e student is ready s to the	K_	_K02		
			CONTENT				Semester	No. of	f hours		
									w tym e- learning		
Subject title: multimedia	w działalno ci bi	iznes	owej (multime	edia applicati	ions in busine	ss)	·		· · · · ·		
Format of instruction: lec	ture										
1. The essence of multi manipulation, multimed	media. Classifica lia equipment.	tion	models of mu	ltimedia syst	ems, multime	dia data	2	2	0		
2. Images, audio, anima	tion, video, intera	activi	ity, graphics a	ind audio co	nversion.		2	2	0		
3. Mind mapping.							2	2	0		
4. Computer graphics -	types of graphics	s, for	mats, softwar	e, automatic	animation, vio	leo morphing.	2	2	0		
5. Areas of use of multi advertising, internet ma	media in the ente Irketing.	erpris	e, teaching, re	emote educa	tion, entertain	ment, media	2	2	0		
6. Process of creating multimedia content. 2							2	2	0		

7. Multimedia designing	team.				2	2	0	
8. Examples of application	8. Examples of applications and prepare a multimedia presentation in different technologies.						0	
Format of instruction: labo	ratory							
1. Discussion topics laboratories and the introduction to XAML. 2								
2. Introduction to deskto	2	1	0					
3. The use of choosen pr		2	2	0				
4. Rules of XAML langua	2	3	0					
5. Basic XAML controls.					2	3	0	
6. Desktop applications, multimedia elements.						4	0	
Modes of delivery	Multim	nedia presentation,	teamwork, project in MS Silverlight techno	logy.				
						No. o outcom sy	f learning ne from the llabus	
Assessment methods	KOLO					ED4		
Assessment methods	PROJ	EKT				EP1,EP	2,EP3,EP4	
	Metody zasadac	i formy weryfikacji ef h okre lonych w Reg	ektów uczenia si mog zosta zmienione dla stu Julaminie Studiów Uniwersytetu Szczeci skiego.	dentów ze szcze	ególnymi potrzeb	ami na war	unkach i	
Laboratory classes: A credit in the form of a final project and a multimedia presentation made by the student. Lectures: Credit in the form of a test, which may also be conducted by means of distance communication. To pass the test a minimum of 50% of correct answers is required.								
Grading criteria Grade calculation principles								
	Arithm	netic mean of grade	es from lectures and laboratory classes.					
	Sem.	n. Course Type of cre			lit Grade ca method	lc. W	eight for the average	
Final grade calculation	2	multimedia w dzia in business)	łalno ci biznesowej (multimedia applications		Nieoblicza	na		
method	2	multimedia w dzia in business) [wykł	łalno ci biznesowej (multimedia applications ad]	zaliczenie z ocen				
	2	multimedia w dzia in business) [labo	łalno ci biznesowej (multimedia applications ratorium]	zaliczenie z ocen				
Basic reading	Troncy	R., Huet B., Schen	k S. (2011): Multimedia Semantics, Wiley					
	Anders	son J., McRee J., W	ilson R. (2010): Effective UI, O Reilly					
Supplementary reading	Parent	R. (2011): Animacja	a komputerowa. Algorytmy i techniki, PWN, Wa	arszawa				
	Rudny	T. (2010): Multimed	lia i grafika komputerowa. Podr cznik do nauk	i zawodu techn	ik informatyk, He	elion		
			STUDENT WORKLOAD					
			No. of hours					
				W tym e-l	earning			
Contact hours			30	0				
Participation in test / exa	am		2	0				
Preparation for contact	hours		10	0				
Private reading and stud	dying		10	0				
Participation in tutorials			3	0				
Preparation of project /	essay / o	etc.	10	0				
Preparation for test / ex	am		10	0				

TOTAL workload	75
ECTS credits	3

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Unit: Technologie internetowe w biznesie (IT in business) [moduł] Course title: Course code: narz dzia behawioralne w ekonomii (Behavioural tools in economics) EFZ71AIJ3432_5S (KIERUNKOWE) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Profile of study: Specialty: first-degree, full - time general academic Course / module status Language of instruction: elective semester: 5 - english language No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning konwersatorium 0 15 pg 3 5 3 laboratory 15 0 pg 30 Total 3 Course / module dr hab. RAFAŁ NAGAJ coordinator Course instructor dr PIOTR SZKUDLAREK Presentation of behavioural aspects of the problems of evaluation and economic decision-making and how they are Course / module used in economic practice. objectives Based on the results of research, special attention is paid to the process of evaluation and decision-making in the context of heuristics, cognitive limitations, self-control, emotions, motivation, morality or social interaction. Prerequisites Knowledge of economy-wide issues. LEARNING OUTCOMES Ref. to programme Category No. Code Description benchmarks K_W04 The student is familiar with behavioural economics tools K W08 1 EP1 knowledge for analysing economic behaviour. K_W10 K_W16 The student uses the tools used in behavioural K U04 economics to analyse economic behaviour (economic EP2 K U08 1 experiments, economic games, specialised apparatus K_U10 and software). skills The student analyses and evaluates the influence of K U13 EP3 behavioural factors on the evaluation and economic 2 K_U17 decision-making process. The student demonstrates creativity in individual and social competences 1 EP4 K_K01 group tasks. No. of hours CONTENT Semester w tym elearning Subject title: narz dzia behawioralne w ekonomii (Behavioural tools in economics) Format of instruction: konwersatorium 1. Origins of behavioural economics and main research areas. 5 1 0 2. Dualism of cognition and decision-making processes. 5 1 0 5 2 0 3. Moral and social values in economic behaviour. 5 2 0 4. Mood and emotion in the evaluation and economic decision-making process.

5. Heuristics and cogniti	5	3	0							
6. Preferences under und	5	2	0							
7. Psychology of the sto	5	2	0							
8. Nudges - shaping the	5	1	0							
9. A synthesis of the issu	5	1	0							
Format of instruction: labo	ratory									
1. Principles of planning economics research.	and con	ducting economic experiments. Organisation and stages of behav	vioural	5	1	0				
2. Introduction to method	ds, techr	iques and tools used in behavioural economics - part 1: Eye track	king.	5	2	0				
3. Introduction to method Electroencephalography	ds, techr	iques and tools used in behavioural economics - part 2:		5	2	0				
4. Introduction to method methods.	ds, techr	iques and tools used in behavioural economics - part 3: Biometric	C	5	2	0				
5. Formulation of research the research sample.	ch proble	ems and questions in a group project (self-study). Selection and si	ize of	5	1	0				
6. Implementation of res	earch (eo	conomic experiment) using a selected behavioural tool.		5	4	0				
7. Quantitative and quali obtained and formulation	tative an	alysis of the collected empirical material, interpretation of the rest clusions from the experiment carried out.	ults	5	2	0				
8. Communication of results - preparation of a written study of the results (research report) and 5						0				
Modes of delivery	- carry - carry - discu - brain	ing ingroups ving out an economic experiment ussion Istorming			No. of outcome sylla	learning ∋ from the abus				
Assessment methods	KOLO	KWIUM			EP1					
	PROJ	EP2,EP3	,EP4							
	ZAJ CIA PRAKTYCZNE (WERYFIKACJA POPRZEZ OBSERWACJ)									
	Metody zasadad	Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze szczególnymi potrzebami na warunkach i zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.								
Grading criteria The grade for the conversation classes is given on the basis of a written colloquium. Grading criteria The credit grade for laboratory classes is given on the basis of: written project: preparing a project and conducting an economic experiment using a selected behavioural tool (carried out as part of the laboratories) (60%) activity during laboratory classes: engaging in group tasks and preparing a group project/economic experiment design and presenting its results (40%) Grade calculation principles The final (coordinator) grade for the course is given on the basis of the arithmetic mean of the grades obtained for the conversation classes and for the laboratory classes.										
	Sem.	Course	ype of credit	Grade cal	c. Wei	ght for the				
Final grade calculation	5	narz dzia behawioralne w ekonomii (Behavioural tools in		Wa ona		weidye				
method	5	narz dzia behawioralne w ekonomii (Behavioural tools in zal	iczenie z			0.50				
	5	economics) [konwersatorium] oce narz dzia behawioralne w ekonomii (Behavioural tools in economics) [laboratorium] oce	en iczenie z en			0,50				

	Ja kowski P. (2009): Neur	onauka poznawcza. Jak mózg tworzy umysł, VIZJA PRESS&IT, Warszawa					
	Ja kowski P. (2004): Zarys psychofizjologii, Wydawnictwo Wy szej Szkoły Finansów i Zarz dzania w Warszawie, Warszawa						
	Kahneman D. (2022): Thir	Kahneman D. (2022): Thinking, Fast and Slow, Penguin Books, London					
Basic reading	Noga M. (2017): Neuroeko	pnomia a ekonomia głównego nurtu, CeDeWu, Wa	arszawa				
	Thaler R.H. (2016): Misbe	having. The Making of Behavioral Economics, Pe	nguin Books, London				
	Tyszka T. (2010): Decyzje	. Perspektywa psychologiczna i ekonomiczna, Wy	/dawnictwo Naukowe SCHOLAR, Warszawa				
	Zale kiewicz T. (2012): Ps	ychologia ekonomiczna, Wydawnictwo Naukowe	PWN, Warszawa				
	Ariely D. (2013): The (hon	est) truth about dishonesty, Perennial, New York					
	Dawson R. (2008): Sekret	y podejmowania trafnych decyzji, MT Biznes, Wa	rszawa				
	Krawczyk M. (red.) (2012)	Ekonomia eksperymentalna, Oficyna Wolters Kl	uwer business, Warszawa				
	Mruk H., Sznajder M. (2008): Neuromarketing. Interdyscyplinarne spojrzenie na klienta, Wydawnictwo Uniwersytetu Przyrodniczego w Poznaniu, Pozna						
Supplementary reading	Orlik K. (2017): Makroekonomia behawioralna, CeDeWu, Warszawa						
	Stasiuk K., Maison D. (201	Stasiuk K., Maison D. (2015): Psychologia konsumenta, Wydawnictwo Naukowe PWN, Warszawa					
	Thaler R.H., Sunstein C.R. (2022): Nudge. Improving Decision About Health, Wealth and Happiness, Penguin Books, London						
	Zielonka P. (2021): Giełda	i psychologia, CeDeWu, Warszawa					
		STUDENT WORKLOAD					
		No. of hours					
			W tym e-learning				
Contact hours		30	0				
Participation in test / ex	am	4	0				
Preparation for contact	hours	10	0				
Private reading and stu	dying	10	0				
Participation in tutorials		5	0				
Preparation of project /	essay / etc.	10	0				
Preparation for test / ex	am	6	0				
TOTAL workload		75					
ECTS credits		3					

Curriculum title: USEFZ-EaITA-O-I-S-2	23/24Z										
Unit: Technologie internet	owe w biznesi	e (IT	in business)) [moduł]							
Course title: narz dzia IT w marke (KIERUNKOWE)	etingu (IT tools	in m	arketing)						Course code: EFZ71AIJ3432	_9S	
Name of field of study: Economics and IT Ap	oplications										
Mode and cycle of study: Profile of study: Specialty: first-degree, full - time general academic											
Course / module status Language of instruction: elective semester: 5 - english language											
			Form	of		No. of	hours				
Year	Semeste	er	instruction				w tym e-learning		Type of credit	E	ECTS
3	5		labora	tory		15	0		pg		2
Total						1	5				2
Course / module coordinator	dr AGATA WA	WRZ	YNIAK								
Course instructor	dr BARBARA	W SI	KOWSKA								
Course / module objectives	Course / module objectivesThe aim of the course is to familiarise the student with the important role of information technology (IT) in modern business and marketing (in the context of improving productivity and saving costs). IT and marketing work together to maximise a company's marketing potential. The student will acquire skills to use various IT technologies and tools (CRM, CMS, analytical and reporting tools, marketing automation, big data, mobile applications, etc.) which are increasingly being used by marketers. The student will acquire competences in IT in order to implement necessary software to support marketing activities.							odern ogether to I tools are essary			
Prerequisites	Basic knowled	dge of	marketing an	d informat	ion f	technologies	•				
			1	LEARNIN	IG O	UTCOMES					
Category		No.	Code	Descript	ion					Ref. to benc	programme hmarks
knowledge		1	EP1	Student understand the important role of IT in marketing (in keeping abreast of changing technologies).			K_	_W15			
		2	EP2	Student data in t	des the	escribes various IT tools to store and analyse marketing information system.					_W15
skills		1	EP3	Student allowing campaig	car g to gns.	n compare a conduct ac	and contra Ivertising	ast diffe and pro	rent IT tools motional	ĸ	_U08
		2	EP4	Student assess via the l	is a the Inte	able to colle usefulness rnet.	ect, analyz of marke	ze, proce ting info	ess and critically rmation obtained	ĸ	_U04
social competences		1	EP5	Student the Inter limitatio	is a rnet	able to esta being awa of social me	blish con re of threa edia.	tacts and ats resul	d to function on ting with	ĸ	_K05
				-						No. o	f hours
			CONTENT						Semester		w tym e- learning
Subject title: narz dzia I	r w marketingu	(IT too	ols in marketii	ng)							
Format of instruction: lab	oratory										
1. The essence and sign agent of change. CMO a	1. The essence and significance of IT tools in marketing. Chief Marketing Officer (CMO) in the role of an agent of change. CMO as a chief marketing technologist. 5 1 0							0			
2. Digital channels: soc	ial media, mobil	le mar	keting, online	advertisin	ıg.				5	1	0
3. Computer implementation of tasks in the process of the customer service. Customer relationship management systems (CRM systems).							1	0			

4. Content Management	Systems	(CMS).			5	1		0
5. Mobile tools in market	ing.				5	1		0
6. Marketing through sea pages.	arch engi	nes and Internet m	essengers. The positioning and optimizatio	n of web	5	2		0
7. Tools allowing to cond	duct adve	ertising campaigns	s (e.g. Google AdWords, Facebook Ads).		5	1		0
8. Tools supporting cond	ducting p	romotional campa	igns (e.g. AdWords Editor, Hootsuite, Buffe	r).	5	1		0
9. Analytical and reporting tools (e.g. Google Analytics, Crazyegg, Brand24, Mention, Share Tally, Website Grader).						2		0
10. null	5	1		0				
11. Modern technologies: marketing automation, big data, social enterprise and marketing operations.						1		0
12. Integrated marketing software. Business solutions and case studies.					5	2		0
Modes of delivery	Case s	studies, Multimedia	a presentation, Group work					
						0	No. of loutcome sylla	earning from the abus
Assessment methods						E	3,EP4,	EP5
	Metody	i formy weryfikacii ef	ektów uczenia si mog zosta zmienione dla stur	lentów ze sz	zególnymi potr:	rebami u	na warur	nkach i
	zasadac	h okre lonych w Reg	ulaminie Studiów Uniwersytetu Szczeci skiego.			ebanni		
Credit for laboratory classes - students are assessed on the basis of practical tasks and a project. Students need to score at least 60% of the points in order to get a credit. Practical tasks verify outcomes in terms of knowledge and skills. Project - a project to achieve the learning outcomes tested on practical skills and teamwork.								
Grading criteria	Grade calculation principles							
	The fir	nal grade for the co	ourse is equal to the grade for the laboratory	/ classes.				
Final grade calculation	Sem.	Sem. Course Type of		Type of c	edit Grade	calc. nod	Weig	ght for the verage
method	5	5 narz dzia IT w marketingu (IT tools in marketing)			Nieoblic	Nieobliczana		
	5	narz dzia IT w ma	arketingu (IT tools in marketing) [laboratorium]	Z				
	D. Cha	ffey, F. Ellis-Chadw	ick (2019): Digital Marketing: Strategy, Implem	entation and	Practice, Pear	son Edu	ucation	Limited
Basic reading	D. Rya Publish	n (2016): Understar her	nding Digital Marketing: Marketing Strategies fo	r Engaging	he Digital Gene	eration,	Kogan	Page
	J. Ster	ne (2017): Artificial	Intelligence for Marketing: Practical Application	s, John Wile	y & Sons			
Supplementary reading	M. Joh	nsen (2016): Multilir	ngual Digital Marketing: Become The Market Le	eader, Maria	Johnsen			
			STUDENT WORKLOAD					
			No. of hours					
				W tym e	e-learning			
Contact hours			15	0				
Participation in test / ex	am		2	0				
Preparation for contact hours			8	0				
Private reading and stu	dying		5	0				
Participation in tutorials			8	0				
Preparation of project /	essay /	etc.	6	0				
Preparation for test / ex	am		6	0				

TOTAL workload	50
ECTS credits	2

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Course title: Course code: US71AIJ2935_38S negocjacje w biznesie (business negotiations) (PODSTAWOWE) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Profile of study: Specialty: general academic first-degree, full - time Course / module status Language of instruction: semester: 6 - english language obligatory No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning 3 6 laboratory 15 0 2 pg 2 Total 15 Course / module dr SANDRA MISIAK-KWIT coordinator Course instructor dr ANNA WIECZOREK-SZYMA SKA Course / module The purpose of this course is to introduce students to the theory and practice of business negotiation. objectives Prerequisites The basic knowledge of business communication, international economic relations, human resources. LEARNING OUTCOMES Ref. to programme Category No. Code Description benchmarks Student knows the structure of negotiations, basic styles 1 EP1 K_W14 and strategies. knowledge 2 EP2 Student knows the rules of ethical negotiations. K_W14 Student is able to perform brief negotiations on a given 1 EP3 K_U11 topic. skills Student is able to use chosen negotiation techniques in EP4 2 K U18 practice. Student is ready to negotiate ethically and responsibly in social competences 1 EP5 K K05 the professional life. No. of hours CONTENT Semester w tym elearning Subject title: negocjacje w biznesie (business negotiations) Format of instruction: laboratory 1. Structure of Negotiations. BATNA 6 2 0 6 3 0 2. Ethical Negotiations vs. Distributive Negotiation 2 3. Role of place, time and team in Negotiating. Preparation for Negotiations 6 0 4. Bargaining strategies and styles 6 3 0 2 0 5. Communication in Negotiations 6 6. Negotiations in international business and Cross-Cultural Negotiation 6 3 0 Workshop, active learning methods, role playing, text and cases analysis, movies with examples, group discussions. Modes of delivery

						No. of learning outcome from the syllabus				
	PRAC	A PISEMNA/ESE L				EP1 EP2 EP3				
Assessment methods)		EP1,EP2,EP3,EP4,E				
	Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze szczególnymi potrzebami na w zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.									
	To get a pass the student must get positive results of developed Negotiation Preparation Questionnaire and performed dialogue of Negotiation and actively collaborate and cooperate during the course.									
Grading criteria	Grade	calculation principle	S							
	The fir - Resu - Com	The final grade is obtained on the basis of the following: - Results of developed Negotiation Preparation Questionnaire and performed dialogue of Negotiation (60%) - Commitment to collaboration and cooperative working (40%)								
Final grade calculation	Sem.	Course		Type of credit	Grade cal method	c. Weight for the average				
method	6	negocjacje w bizn	esie (business negotiations)		Nieobliczan	a				
	6	negocjacje w bizn	esie (business negotiations) [laboratorium]	zaliczenie z ocen						
	Fells R	ay (2013): Effective	negotiation : from research to results, Cambr	idge University Pre	ess, New York					
Basic reading	Lewick	Lewicki R.J., Barry B., Saunders D.M. (2010): Negotiation., McGraw-Hill, New York								
	Shell, I York	Richard G. (2006): E	Bargaining for Advantage?Negotiations Strateg	gies for Reasonabl	e People., Pe	nguin Books, New				
	Hames	s D. S. (2012): Nego	tiation: closing deals, settling disputes, and m	aking team decisio	ons, SAGE, Th	ousand Oaks				
Supplementary reading	March Interna	R.M., Su-Hua Wu (; itional Ltd.	2007): The Chinese Negotiator: How to Succe	ed in the World?s	Largest Marke	et, Kodansha				
	-1		STUDENT WORKLOAD							
			No. of hours							
				W tym e-lea	W tym e-learning					
Contact hours			15	0						
Participation in test / ex	am		1	0						
Preparation for contact	hours		5	0						
Private reading and stu	dying		4	0						
Participation in tutorials	;		10	0						
Preparation of project /	essay /	etc.	15	0						
Preparation for test / ex	am		0	0						
TOTAL workload			50							
ECTS credits			2							

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Unit: Metody analiz rynkowych (Market research methods) [moduł] Course code: Course title: ocena przedsi wzi innowacyjnych (innovative initiative evaluation) EFZ71AIJ3433_13S (KIERUNKOWE) Name of field of study: Economics and IT Applications Mode and cycle of study: Profile of study: Specialty: first-degree, full - time general academic Course / module status Language of instruction: elective semester: 4 - english language No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning 0 laboratory 15 pg 2 4 3 lecture 15 0 pg 30 Total 3 Course / module dr KATARZYNA ŁOBACZ coordinator Course instructor dr KATARZYNA ŁOBACZ Obtaining basic knowledge of evaluation of the innovative projects, their financing, organization and requirements. Course / module objectives Student acquires also the skills of proper evaluation of innovative projects. Knowledge: the student knows the basic concepts of management, microecnomics, macroeconomics and basics of finance. Prerequisites Skills: assessment of the economic entity in the specific market conditions. Social competence: the student is able to work in a team, has instilled habots of lifelong learning. LEARNING OUTCOMES Ref. to programme Code Category No. Description benchmarks K_W14 A student knows the basic categories of asset used for EP1 1 K_W16 innovative projects. K W02 knowledge A student knows the selection of innovative assessment 2 EP2 techniques such as the scoring system, benchmarking, K_W12 QuickLook. K_W16 K U07 A student on the basis of certain parameters can K U13 1 EP3 evaluate the status of the innovative project and identify K U16 potential sources of financing. K U17 A student is able to identyfy problems and propose the K U13 FP4 2 directions of changes to improve the innovation project. K U16 K_U17 K U01 skills K U07 A student is able to identify sources od innovative risk in EP5 3 K U13 the projects. K U16 K_U17 K U01 K_U07 A student is able to access and evaluate the various EP6 K_U13 4 stages of evaluation of innovative projects. K_U16 K_U17 A student is ready to develop and improve his ability to K K01 1 EP7 work in the group and comply with ethical provisions in social competences K K05 his professional life.

			_	No. of hours				
		CONTENT		Semester		w tym e- learning		
Subject title: ocena przeds	si wzi	innowacyjnych (innovative initiative evaluation)						
Format of instruction: lectu	ure							
1. The asset in the development of innovative business and economy 4 2								
2. Macroeconomic conditions of innovative projects 4								
3. Strategies for innovation in the enterprises 4								
4. Risk and uncertainly in	n innova	tive projects		4	2	0		
5. Financing of innovative	e projec	ts		4	2	0		
6. Methods of asseessme	ent of in	novative projects		4	2	0		
7. Evaluation and criteria	for suc	cess of innovative projects financed form public funds		4	2	0		
8. Evaluation and criteria	for suc	cess of innovative projects funded by provate sector		4	2	0		
Format of instruction: labo	ratory					1		
1. Types, systematics an	d functio	ons of asset in innovative projects		4	2	0		
2. Analysis of the market	and cor	npetition		4	2	0		
3. Protection against the risk of an innovative project 4								
4. Sources of financing o	2	0						
5. The process of innova	2	0						
6. Innovative projects - case studies 4						0		
7. Calculation of the effectiveness of innovative projects 4 1 0						0		
Modes of delivery	Lectu	re with audiovisual aids, discoussions, case study analysis			•			
					No. of outcome	learning e from the		
					syll	abus		
	KOLO	EP1,EP2						
Assessment methods	PREZ	ENTACJA			EP7			
	PROJ	EP3,EP4,EP5,EP6						
	Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze szczególnymi potrzebami na warunkach i zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.							
	Credit	for laboratory classes: the execution of a final essay: prepara	tion of the p	project and its pro	esentation	or		
	skills.	ch and presentation of the results - the project is testing the a		of learning outco	ing outpou	rms of		
	achiev	red in terms of knowledge gained during participation in lecture	res and exc	ercises.		nes		
Grading criteria	The st	udent receives a satisfactory grade, when he can discuss the ts, their financing, organization and requirements, which cheo	basic know cks the achie	ledge of evaluation eved learning out	on of the ir comes in t	novative terms of		
	knowl	edge and skills obtained through participation in lectures and	exercises.					
	Glade							
	Final	grade od the course is the average of the grades obtained for I	lectures and	l laboratory class	es.			
	Sem.	Course	Type of cr	edit Grade ca method	c. We	ight for the average		
Final grade calculation	4	ocena przedsi wzi innowacyjnych (innovative initiative evaluation)		Arytmetycz	na			
method	4	ocena przedsi wzi innowacyjnych (innovative initiative evaluation) [wykład]	zaliczenie z ocen					
	4	ocena przedsi wzi innowacyjnych (innovative initiative evaluation) [laboratorium]	zaliczenie z ocen					

	Drucker P.F. (2007): Innovation and Entrepreneurship,, Taylor & Francis						
	Fagerberg J., Mowery D.C., Nelson R.R. (2005): The Oxford Handbook of Innovation, Oxford University Press,, New York						
	OECD; Oslo Manual : The Measurement of Scientific and Technological Activities, Proposed Guidelines for Collecting and Interpreting Technological Innovation Data,, Eurostat						
Basic reading	Shane S. (ed.) J (2008): H	Shane S. (ed.) J (2008): Handbook of Technology and Innovation Management, ohn Willey & Sons Limited, Chichester					
	Szopik-Depczy ska K. (2021): User-driven innovation in R&D departments in Poland, Wydawnictwo Uniwersytetu Szczeci skiego, Szczecin						
	Tidd J, Bessant J. (2009) Wolley & Sons Limited	Tidd J, Bessant J. (2009): Innovation Management. Integrating Technological, Market and Organisational Change.ion, John Wolley & Sons Limited					
Supplementary reading	Chesbrough H., (2006): C School Publishing Corpora	Open Innovation. The New Imperative for Creating	g and Profiting from Technology, Harvard Business				
STUDENT WORKLOAD							
		No. of hours					
			W tym e-learning				
Contact hours		30	0				
Participation in test / exa	am	2	0				
Preparation for contact	hours	9	0				
Private reading and stud	dying	8	0				
Participation in tutorials		7	0				
Preparation of project /	essay / etc.	10	0				
Preparation for test / exam		9 0					
TOTAL workload		75					
ECTS credits		3					

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Unit: Analiza i diagnoza w przedsi biorstwie (Analysis and diagnosis in enterprise [moduł] Course title: Course code: ocena ryzyka działalno ci gospodarczej (risk evaluation of economic activity) US71AIJ2715_46S (KIERUNKOWE) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Profile of study: Specialty: first-degree, full - time general academic Course / module status Language of instruction: semester: 4 - english language elective No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning 0 laboratory 15 pg 2 3 4 lecture 15 0 pg 30 Total 3 Course / module dr hab. TOMASZ WI NIEWSKI coordinator Course instructor dr hab. TOMASZ WI NIEWSKI Course / module The aim of the course is to familiarize students with the nature and risks and practical skills in the use of risk analysis objectives methods Social competence: students can work in groups, has instilled habits of lifelong learning. Skills: the student is able to use a Excel spreadsheet. Prerequisites Knowledge: the student knows the basics of accounting, financial and economic analysis, basic statistical methods and principles of financial planning. The student has a general knowledge of macro and microeconomics and management. LEARNING OUTCOMES Ref. to programme Category No. Code Description benchmarks Student knows the concept of risk and its possible 1 EP1 K W14 influence on businesses. knowledge 2 EP2 Student knows the methods of risk analysis. K_W14 Student can apply the known methods of risk analysis. K U10 1 EP3 K_U14 skills Student is able to assess the risks related to the K U10 2 EP4 business. K_U14 Student is ready to formulate their own ideas and make K_K04 FP5 decisions and carry out business responsibly and social competences 1 K_K05 ethically. No. of hours CONTENT Semester w tym elearning Subject title: ocena ryzyka działalno ci gospodarczej (risk evaluation of economic activity) Format of instruction: lecture 2 1. The nature of risk and risk measures 4 0 2. Classification of risk analysis methods 4 1 ٥ 2 3. Qualitative risk assessment 4 0 2 4 0 4. Sensitivity analysis

5. Scenario and probabil	istic ana	lysis				4	2	0
6. Decision trees method	I					4	2	0
7. Monte Carlo simulation	n methoo	ł				4	4	0
Format of instruction: laboratory								
1. Types of risk in busine	ess					4	2	0
2. Application of the Monte Carlo simulation methods							5	0
3. Sensitivity analysis 4							2	0
4. Scenario analysis						4	2	0
5. Application of the deci	ision tree	es method				4	4	0
Modes of delivery	Lectur	es with multimedia	a presentations and laboratories with self-w	/ork			•	
	No. of learning outcome from the syllabus							
Assessment methods						EP1.E	P2.EP3.EP4.E	
	PROJEKT P5							
	Metody zasadac	i formy weryfikacji ef h okre lonych w Reg	ektów uczenia si mog zosta zmienione dla stu julaminie Studiów Uniwersytetu Szczeci skiego.	dentów ze sz	zczegó	Inymi potrzeba	ami na w	arunkach i
Positive assessment of the project (one assessment for both lectures and laboratories).								
Grading criteria	Grade	Grade calculation principles						
	Final grade is equal to the project grade.							
	Sem.	Course		Type of c	credit	Grade cal method	c.	Weight for the average
Final grade calculation	4	ocena ryzyka dzia economic activity)	łalno ci gospodarczej (risk evaluation of			Arytmetycz	na	
metriod	4	ocena ryzyka dzia economic activity)	<pre>italno ci gospodarczej (risk evaluation of [laboratorium]</pre>	zaliczenie ocen	z			
	4	ocena ryzyka dzia economic activity)	łalno ci gospodarczej (risk evaluation of [wykład]	zaliczenie ocen	z			
	Crouhy	/ M., Galai D, Mark	R (2014): The Essentials of Risk Management	, McGraw-H	lill Edu	cation, 2nd. e	ed.	
Basic reading	Vose D	0. (2008): Risk Anal	ysis: A Quantitative Guide, John Wiley & Sons	, 3rd ed.				
	Yoe, C	harles (2019): Prim	er on risk analysis decision making under unce	ertainty, CR	C Pres	ss, 2nd ed.		
	Yoe, C	harles (2019): Prin	ciples of Risk Analysis Decision Making Under	Uncertainty	ı, CRC	Press, 2nd e	ed.	
	Darius FINAN	z Zarzecki (2014): K SAMI I RACHUNKO	CLASYCZNE METODY ANALIZY RYZYKA PR DWO 2 (3) 2014, 31–44.	OJEKTOW	INWE	STYCYJNYC	H, ZAR	Z DZANIE
Supplementary reading	Marcin Ubezpi	Pawlak (2016): Me ieczenia nr 4/2016 (tody analizy ryzyka w ocenie efektywno ci pro 82), cz. 2, s. 617–624.	jektów inwe	stycyjr	nych, Finanse	, Rynki	Finansowe,
	T. Wi Szczed	niewski (2008): Oce ci ski	na efektywno ci inwestycji rzeczowych ze szc.	zególnym uv	wzgl c	Inieniem ryzy	ka, Univ	versytet
	1		STUDENT WORKLOAD					
			No. of hours					
				W tym	e-lea	rning		
Contact hours			30	0				
Participation in test / ex	am		0	0				
Preparation for contact	hours		15	0				
Private reading and stu	dying		12	0				
Participation in tutorials			10	0				

Preparation of project / essay / etc.	8	0
Preparation for test / exam	0	0
TOTAL workload	75	
ECTS credits	3	

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z

00EI 2-Lai 1 A-0-1-0-2	3/242									
Course title: Course code: ochrona własno ci intelektualnej (intellectual property protection) EFZ71AIJ3435_3S (OGÓLNOUCZELNIANE) Course code:										
Name of field of study: Economics and IT Ap	plications									
Mode and cycle of study: first-degree, full - time	e	I	Profile of study general aca	r: ademic		Specia	lty:			
Course / module status obligatory					Language of semester:	instruction: 1 - english lang	Juage			
Year	Semester	Semester Form of		No. of	No. of hours		E	CTS		
		-	instruc	tion		w tym e-learning	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
1	1		lectu	re	8	0	pg		1	
Total					٤	3			1	
Course / module coordinator	dr PRZEMYSŁA	AW K	ATNER							
Course instructor	dr PRZEMYSŁA	AW K	ATNER							
Course / module objectives	To acquire kno	wledg	ge and skill to	analyse t	he basic issues c	of the copyright ar	id industrial property	v laws.		
Prerequisites	Student has a l	basic	knowledge of	f civil law.						
				LEARNI	NG OUTCOMES					
Category	rgory No. Code Description Ref. to probenching				programme hmarks					
knowledge	1 EP1 Student knows and understands basic concepts and principles of the protection of industrial property and of copyright and the need for intellectual property management. K_W				W07					
		1	EP2	Student	t uses acquired	knowledge in tl	heir activity.	K_	K_U07	
skills		2	EP3	Student knowled	t is ready to sys dge, in particula	stematically dee ar regarding leg	pen their al status updates.	κ_	K_U02	
social competences		1	EP4	Student profess ethics.	t is convinced o ional manner a	of importance of nd obeying rule	behaving in s of professional	ĸ_	K05	
	·							No. of	hours	
			CONTENT				Semester		w tym e- learning	
Subject title: ochrona wła	asno ci intelektu	ualnej	(intellectual	property p	rotection)			ļ		
Format of instruction: lect	ure									
1. Introduction to intelle related rights.	ctual property la	aw. Th	ne scope of th	e act of 4	February 1994 or	n copyright and	1	1	0	
2. The subject of copyrig	ght and the cont	tent of	f copyright.				1	1	0	
3. The duration of autho	r's economic rig	ghts.					1	1	0	
4. The transfer of author	r's economic rig	hts ar	nd the protect	ion of aut	hor's moral and e	conomic rights.	1	1	0	
5. The scope of the act of	of 30 June 2000	on lav	v of industria	l property.			1	1	0	
6. Inventions, utility models and industrial models. 1 2 0						0				
7. Trademarks and geog	raphical indicat	ions.	Pursuing clai	ms on acc	ount of violating	exclusive rights.	1	1	0	
Modes of delivery	Problem lect	ure.								

						No. of learning outcome from the syllabus		
Assessment methods								
	KOLO	KWIUM				EP1,EP2,EP3,EP4		
	Metody zasadac	i formy weryfikacji ef h okre lonych w Reg	ektów uczenia si mog zosta zmienione dla st julaminie Studiów Uniwersytetu Szczeci skiego	tudentów ze szczegó	Inymi potrzeba	imi na warunkach i		
	The le Gradir	ctures are assesse ng scale: 5.0 - 23-2	ed based on the multiple choice test (with 5 points; 4.5 - 21-22 points, 4.0 - 18-20 poir	negative points) tl nts, 3.5 - 16-17 poi	nat consists o nts, 3.0 - 13-1	of 20 questions. 5 points.		
Grading criteria	Grade	Grade calculation principles						
	The fir	The final grade is based on the grade of the lectures.						
Final anada salaulatian	Sem. Course Type of credit Gra				Grade cal method	c. Weight for the average		
method	1	1 ochrona własno ci intelektualnej (intellectual property Nieoblicz				a		
	1 ochrona własno ci intelektualnej (intellectual property zaliczenie z protection) [wykład] ocen							
	Act of	30 June 2000 on lav	w of industrial property.					
Basic reading	Act of	4 February 1994 on	copyright and related rights.					
Supplementary reading								
	1		STUDENT WORKLOAD					
			No. of hours					
				W tym e-lea	W tym e-learning			
Contact hours			8	0				
Participation in test / exa	am		2	0				
Preparation for contact	hours		0	0				
Private reading and stud	dying		7	0				
Participation in tutorials			4	0				
Preparation of project /	essay /	etc.	0	0	0			
Preparation for test / ex	am		4	4 0				
TOTAL workload			25					
ECTS credits			1					

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Course title: Course code: organizacja i zarz dzanie (organization and management) EFZ71AIJ3433_3S (PODSTAWOWE) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Profile of study: Specialty: general academic first-degree, full - time Course / module status Language of instruction: semester: 1 - english language obligatory No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning 1 1 lecture 15 0 2 pg 2 Total 15 Course / module dr ALEKSANDRA RUDAWSKA coordinator Course instructor dr ALEKSANDRA RUDAWSKA The course covers important concepts and practices of modern management. The topics are discussed in line with the organizational models and the management functions i.e. planning, organising, leading/motivating and controlling. Course / module Additionally, one of the course goals is to develop students skills in the field of: application of the decision making objectives procedure, describing external environment of organization and identifying opportunities and threats, proposing control system to deal with organizational problem. Prereauisites Student describes basic economic and social terms and understands the necessity of continuous learning. LEARNING OUTCOMES Ref. to programme Code Description Category No. benchmarks Student defines basic concepts related to the K_W12 EP1 management process and organizational functioning. 1 K_W14 Student explains the influence of the environment on the K W01 organization and identifies challenges that the EP2 knowledge 2 K_W12 contemporary environment makes to the organization. K_W16 Student explains the essence of every management K W12 3 EP3 function as well as basic theories describing that K_W14 functions. K U11 Student does decision making process consistent with FP4 1 K U13 the rational approach. K U17 Student participates in class discussions using English skills 2 EP5 K_U16 and presents management issues in English. Student identifies element of the organization and its K_U04 EP6 external environment and assesses environmental 3 K_U18 influence on the organization. Student identifies dilemmas connected with the K K01 1 EP7 social competences managerial work. K_K05 No. of hours CONTENT Semester w tym elearning Subject title: organizacja i zarz dzanie (organization and management) Format of instruction: lecture 1. Managing organizations in contemporary world - the challenges the managers are facing. 4 0 1 2 2. _how to deliver value_ 1 0

3. Organizing - designing organization structure.						1	3	0
4. Organizational culture						1	2	0
5. Leading people: leade	rship and	d motivating.				1	4	0
Modes of delivery	Discus Individ	ssions in groups., lual and group ass ing how students ι	Lecture with usage of the multimedia prese ignments showing practical applications o inderstand issues discussed during classe	entation with f chosen mass.	h nume anager	erous praction in the second s	cal exampl ents and er	es., abling
							No. of I outcome sylla	earning from the abus
Assessment methods	KOLO	KWIUM					EP1,EP2, P5,EP6,E	EP3,EP4,E P7
Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze szczególnymi potrzebami na warunkach i zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.								
Single choice test								
	Grade calculation principles							
Grading criteria	rading criteria Less than 55% of points - mark: 2,0 55%-66% of points - mark: 3,0 67%-74% of points - mark: 3,5 75%-82% of points - mark: 4,0 83%-89% of points - mark: 4,5 90% or more - mark: 5,0							
Final grade calculation	Sem.	Course		Type of c	credit	Grade cal method	c. Wei a	ght for the verage
method	method 1 organizacja i zarz		dzanie (organization and management)			Nieobliczar	na	
	1	organizacja i zarz dzanie (organization and management) zaliczenie z [wykład] ocen						
Basic reading	Batem	an T.S., Snell S.A.,	Konopaske R. (2019): Management: Leading	& Collaborat	ting in a	a Competitive	e World, Mc	Graw-Hill
	Garvin	D. A., Roberto M.A	. (2001): What You Don't Know About Making	Decisions, H	Harvard	I Business R	eview	
Supplementary reading	Jones	G. (2013): Organiza	ational Theory, Design and Change 7th ed., P	earson				
	Mullins	s L.J. (2019): Organ	isational Behaviour in the Workplace, 12th ed	., Pearson				
			STUDENT WORKLOAD					
			No. of hours					
				W tym	e-lear	ning		
Contact hours			15	0				
Participation in test / example	am		4	0				
Preparation for contact	hours		10	0				
Private reading and stud	dying		8	0				
Participation in tutorials			5	0)			
Preparation of project /	essay /	etc.	0	0	0			
Preparation for test / ex	am		8 0					
TOTAL workload			50					
ECTS credits			2					

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Course title: Course code: podstawy finansów (fundamentals of finance) US71AIWNEiZ_4S (PODSTAWOWE) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Profile of study: Specialty: first-degree, full - time general academic Course / module status Language of instruction: semester: 1 - english language obligatory No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning discussion classes 15 0 pg 1 1 3 15 0 lecture е Total 30 3 Course / module dr DOROTA SKAŁA coordinator Course instructor dr DOROTA SKAŁA Course / module The goal of this course is to introduce and describe the main institutions, markets and processes in the financial objectives system, both on a national and international level. The student has basic knowledge of the social and political framework, as well as a basic understanding of the business environment; is capable of solving basic mathematical problems; is able to use academic sources from both Prerequisites the internet and the literature. LEARNING OUTCOMES Ref. to programme Code Description benchmarks Category No. The student has knowledge of the position of finance within the general economic environment and of its links to other disciplines (such as sociology and law), while EP1 1 K_W02 understanding the main processes, categories and instruments within finance. knowledge The student has knowledge of the basic rules of financial system functioning, mainly with respect to financial and 2 EP2 non-financial institutions (of the private and public K_W02 sector) and its relations with the real economy. The student understands the role of money in the EP3 3 K_W02 economy and the money creation mechanism. The student is able to correctly interpret the money creation process in the modern economy, including its K U01 1 EP4 sources and link this to macroeconomic outcomes. K U02 The student is able to identify the perspectives and challenges related to changes within modern financial skills 2 EP5 K_U01 processes, including changes of institutions and markets. The student has basic skills of analysing the role of EP6 financial instruments usage by financial and non-3 K_U01 financial institutions.

	1	EP7	The student is capable to ident relating to using financial instru- public sector, in the context of	. к ₋	K_K01				
social competences	2	EP8	The student is prepared to com basic knowledge on the rules o modern financial system.	municate an f functioning	d present g of the	ĸ	K_K01		
	3	EP9	The student is interested in fur perfecting skills in the field of f	ther studies inance.	and	K K	K_K01 K_K02		
		CONTENT			Somostor	No. of hours			
		w tym e- learning							
Subject title: podstawy finansów (fundamentals of finance)									
Format of instruction: lecture									
1. The field and functions of finance.	1	2	0						
2. Financial system: structure, function	ns and	the main ma	rkets.		1	2	0		
3. Monetary and non-monetary financ	ial instit	utions.			1	3	0		
4. Central bank and its role in stabilis	ng mon	etary conditi	ons. Basic monetary policy tools.		1	2	0		
5. Interest rates and exchange rate as	determ	inants of the	finanicial market outcomes.		1	2	0		
6. The stock market, the efficient market theory, stock valuation. 1							0		
7. Financial crises: origins, development and consequences. 1							0		
Format of instruction: discussion classes									
1. The time value of money. Present and future values and the concept of discounting. 1							0		
2. Public finance and economic growth. Public spending and income, public finance deficit and public 1							0		
3. Evolution of money forms, functions of money. Inflation - forms and sources, measures.									
4. The framework of commercial banking. Main bank types and banking operations. Central banks. 1 3 0							0		
5. The euro as the common currency:	challen	ges and adva	antages.		1	2	0		
6. Summary of public finance knowled	lge.				1	1	0		
Modes of delivery Lecture windiscussion	h powe	rpoint preser study.	ntations, analysis of data and informa	ition sources,	basic financial	calculatio	ons,		
						No. of outcome syll	learning e from the abus		
ECZAMIN		v				ED1 ED2	ED?		
Assessment methods KOLOKWI						EP1,EP2	,EP3		
PRACA PIS	EMNA/	ESEJ/ RECE	NZJA			EP4,EP5	,EP6,EP9		
ZAJ CIA F	RAKTY	CZNE (WERY	(FIKACJA POPRZEZ OBSERWACJ)			EP7,EP8	,EP9		
Metody i forn zasadach okr	ıy weryfi e lonycl	kacji efektów u n w Regulamini	czenia si mog zosta zmienione dla stud je Studiów Uniwersytetu Szczeci skiego.	dentów ze szcze	gólnymi potrzeba	ami na waru	inkach i		
Final exam points). Ex Tutorial gra test. Writte Student pa presentatio	: Writte am grad ading: V n test g rticipations duri	n exam, in th ding: 50% pas Vritten test (3 rading: 50% ion in tutorial ng classes (2	e form of a multiple choice test (80% ss, 75% grade 4.0. 0% points) and student participation pass, 75% grade 4.0. Students must p s: graded written homework (80%) ar 20%).	points), with 2 in tutorials (7 pass the writte nd active partic	-4 additional sl 0%). Written tes n test in order cipation in the o	hort quest st - multip to pass th discussio	ions (20% le choice e tutorial. ns and		
Grade calcu	lation p	rinciples							
The final g	rade wil	l be calculate	ed as a weighted mean of the final exa	am grade (60%) and tutorial g	rade (40%)).		
Final grade calculation Sem. Co	Sem. Course Type of credit Grade c						ight for the average		
method 1 por	lstawy fi	inansów (fund	amentals of finance)		Nieobliczar	na			

	1	podstawy finansó	w (fundamentals of finance) [wykład]	egzamin					
	1	podstawy finansó	w (fundamentals of finance) [wiczenia]	zaliczenie z ocen					
	Howell	owells, D., Bain, K. (2008): The Economics of Money, Banking and Finance - a European text., Prentice Hall							
Basic reading	Meliche	elicher, R., Norton, E (2013): Introduction to Finance: Markets, Investment and Financial Management, Wiley							
	Mishkir	n, F (2012): Econon	nics of Money, Banking and Financial Mar	kets. The European Ed	ition., Pearson				
Supplementary reading	Bodie,	Bodie, Z., Merton, R, Cleeton, D. (2008): Financial Economics, Prentice Hall							
			STUDENT WORKLOAD						
			No. of hours						
				W tym e-lear	W tym e-learning				
Contact hours			30	0	0				
Participation in test / exa	am		2	0	0				
Preparation for contact I	nours		9	0					
Private reading and stud	dying		8	0					
Participation in tutorials			6	0					
Preparation of project / e	essay / e	etc.	10	0					
Preparation for test / exa	am		10	0	0				
TOTAL workload			75						
ECTS credits			3						

Curriculum title:

USEFZ-EalTA-O-I-S-	23/242						-		
Course title: podstawy programo (KIERUNKOWE)	ourse title: podstawy programowania komputerów (introduction to computer programming) (KIERUNKOWE) Course code: EFZ71AIJ3433_11S								
Name of field of study: Economics and IT A	pplications								
Mode and cycle of study: first-degree, full - tin	ne		Profile of study general aca	/: ademic		Specialty	r:		
Course / module status obligatory		1			Language of semester	instruction: : 3 - english langu	age		
Year	Year Semester		Semester Form of No. of hours		hours	Type of credit		ECTS	
			Instruc	ction		w tym e-learning	<i></i>		
2	3		labora	tory	30	0	pg		4
			lectu	ire	15	0	pg		
Total					4	15			4
Course / module coordinator	dr hab. JAKUB	SWA	CHA						
Course instructor	dr hab. JAKUB	SWA	CHA						
Course / module objectivesTo acquire knowledge of computer programming on the example of the Python language, and to master practical skills of programming in Python.									
Prerequisites Knowledge of basic computer skills.									
				LEARNIN	G OUTCOMES				
Category		No.	Code	Code Description Ref. to program			programme chmarks		
La suda das		1	EP1	Student knows the basic terms and structures K_V K_V				_W08	
knowledge		2	EP2	Student cycle.	knows the ph	ases of software d	levelopment life-	K_	_W08
		1	EP3	Student test prog	is able to inde grams in Pythe	ependently design on.	, implement and	ĸ	_U08
skills		2	EP4	Student given sp	is able to imp ecifications.	lement programs a	according to	ĸ	_U08
	-	3	EP5	Student impleme	is able to wor entation of a jo	k with other develo int software devel	opers in the lopment project.	K	_U18
social competences		1	EP6	Student under va	is aware of th arious licenses	e allowed terms of s.	f use of software	K	_K03
			CONTENT				Semester	No. o	f hours
									w tym e- learning
Subject title: podstawy	programowania k	ompu	uterów (introd	luction to c	omputer progra	mming)			
Format of instruction: lea	cture						1		1
1. Basic terminology o	f programming. N	letho	ds of algorith	m specifica	tion.		3	2	0
2. Computer as an obje	ect of programmin	ng.					3	2	0
3. Programming langua	ages. Programmi	ng pa	radigms.				3	1	0
4. The components of program. Simple and complex instructions.						3	2	0	
5. Strings, lists, tuples and their processing. 3 2						0			
6. Functions and modules.						3	2	0	

7. Dictionaries and sets.	3	2	0					
8. Software testing and d	3	2	0					
Format of instruction: labo	ratory		1					
1. Python syntax.				3	2	0		
2. Simple programs with input/output and calculations. 3						0		
3. Using conditional statements. 3						0		
4. Using loops. Processi	ng data s	equences.		3	4	0		
5. Built-in functions.				3	2	0		
6. Standard modules.				3	4	0		
7. Defining functions. Re	cursion.			3	4	0		
8. Defining classes. Inher	ritance.			3	4	0		
9. Files and databases.	3	2	0					
10. Testing programs. De	ebugger.			3	2	0		
Modes of delivery	- application development, programming - case study - problem solving - working in groups - project development No. of learning outcome from the							
	syllabus							
	KOLOKWIUM EP1,EP2							
Assessment methods	SPRA	VDZIAN			EP3			
	PROJE				EP4,EP5	,EP6		
	Metody i zasadac	i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze h okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.	szczegó	Inymi potrzeba	EP3,EP4 mi na warunkach i			
Grading criteria	Credit for lectures: the lectures grade is based on the results of a single-choice test covering the content of the lectures. Grading scale: 3.0: more than 50% points; 4.0: more than 70%, 5.0: more than 85%. Credit for laboratory classes: the grade is a weighted average of a programming test consisting of writing a computer program designated by the teacher (35% points), group project - a program written in collaboration with other students (topic selected by the group) (35% points), and completing laboratory exercises during the semester (30% points). Grading criteria Grade for laboratory classes: 3.0: more than 50% points; 4.0: more than 70%, 5.0: more than 85%.							
	The fir	al grade of the course is an arithmetic mean of the laboratory exercise	es grade	e and the lect	ures grad	e.		
	Sem.	Course Type of	of credit	Grade cal method	c. We	ignt for the average		
Final grade calculation	3	podstawy programowania komputerów (introduction to computer programming)		Arytmetyczr	na			
	3	podstawy programowania komputerów (introduction to computer programming) [laboratorium] ocen	ie z					
	3 podstawy programowania komputerów (introduction to computer programming) [wykład] zaliczenie z ocen							
Basic reading	Petkov Swach	Computer programming) [wykład] ocen Petkovic L. (2012): Introduction to Computing Using Python, Wiley						

	Matthes E. (2019): Python Crash Course, 2nd Edition: A Hands-On, Project-Based Introduction to Programming, No Starch Press							
Supplementary reading	Miller B., Ranum D. (2019): How to Think Like a Computer Scientist. Learning with Python: Interactive Edition, Runestone Interactive							
	Miller B., Ranum D. (2019): Problem Solving with Algorithms an	nd Data Structures, Runestone Interactive					
STUDENT WORKLOAD								
		No. of hours						
			W tym e-learning					
Contact hours		45	0					
Participation in test / exam		3	0					
Preparation for contact	hours	12	0					
Private reading and stud	dying	12	0					
Participation in tutorials		10	0					
Preparation of project /	essay / etc.	12	0					
Preparation for test / ex	am	6	0					
TOTAL workload		100						
ECTS credits		4						

Curriculum title:

USEFZ-EaITA-O-I-S-23/24Z Unit: In ynieria informatyczna biznesu (IT engineering in business) [moduł] Course code: Course title: podstawy sieci komputerowych (computer networks) US71AIJ2717_48S (KIERUNKOWE) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Profile of study: Specialty: first-degree, full - time general academic Course / module status Language of instruction: semester: 4 - english language elective No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning 0 laboratory 15 pg 2 4 3 lecture 15 0 pg 30 Total 3 Course / module dr hab. JAKUB SWACHA coordinator Course instructor dr hab. JAKUB SWACHA , mgr in . Piotr Niemcewicz Course / module Acquiring knowledge on computer networks and practical skills in designing, configuring and managing computer networks, including security issues. objectives Prerequisites Basic computer skills. LEARNING OUTCOMES Ref. to programme Category No. Code Description benchmarks Students know how computer networks are organized, 1 EP1 K W08 and how they work. knowledge Students know the tools used for diagnosing and 2 FP2 K W08 managing computer networks. Students can diagnose and configure computer skills 1 EP3 K U08 networks. Students are able to form their own ideas and beliefs and to participate in decision-making process regarding 1 EP4 K K04 social competences issues related to computer networks. No. of hours CONTENT Semester w tym elearning Subject title: podstawy sieci komputerowych (computer networks) Format of instruction: lecture 1. A conceptual introduction to the physical network infrastructure. Introduction to the organization of 2 0 4 logical networks. Introduction to Active Directory 2. Introduction to TCP/IP and TCP/IP addressing. Introduction to name resolution. Configuration of 2 4 0 dynamic IP addressing 3. A conceptual introduction to content delivery. Introduction to IP communication. Procedures to 4 1 0 perform subnetting 4. A conceptual introduction to IPv6 addressing. Introduction to unicast IPv6 addresses. Configuration of 4 1 0 IPv6 5. Introduction to administrative tools in Windows Server 2016. Introduction to performance monitoring 4 2 0 tools in Windows Server 2016. Procedures to perform server administration 6. Introduction to securely accessing Web content and files. A conceptual introduction to public key 4 2 0 infrastructure

troubleshoot Windows Fi	ter secur rewall	ity. Configuration	of Windows Firewall. Procedures to monito	or and	4	1	0			
8. Introduction to remote Configuration of routing	access.	Configuration of a	network policy server. Introduction to rout	ing.	4	2	0			
9. Various methods to im load balancing Introducti	plement on to se	server scalability	and availability. Implementation of Window Implementation of server virtualization	s network	4	1	0			
10. A conceptual introduce network printers Implement	ction to pentation	orinting. Introducti	on to the printing processes. Configuration	of	4	1	0			
Format of instruction: laboratory										
1. A conceptual introduction to the physical network infrastructure. Introduction to the organization of logical networks. Introduction to Active Directory 4 2 0										
2. Introduction to TCP/IP and TCP/IP addressing. Introduction to name resolution. Configuration of 4 1 0										
3. A conceptual introduction to content delivery. Introduction to IP communication. Procedures to 4 1 0										
4. A conceptual introduction to IPv6 addressing. Introduction to unicast IPv6 addresses. Configuration of 4 1 0										
5. Introduction to administ tools in Windows Server	strative t 2016. Pro	ools in Windows S ocedures to perfor	Server 2016. Introduction to performance more server administration	onitoring	4	2	0			
6. Introduction to secure infrastructure	y access	sing Web content a	and files. A conceptual introduction to publi	ic key	4	2	0			
7. Introduction to perime troubleshoot Windows Fi	ter secur irewall	ity. Configuration	of Windows Firewall. Procedures to monito	or and	4	1	0			
8. Introduction to remote Configuration of routing	access.	Configuration of a	network policy server. Introduction to rout	ing.	4	2	0			
9. Various methods to im	plement on to se	server scalability	and availability. Implementation of Window Implementation of server virtualization	s network	4	2	0			
10. A conceptual introduction to printing. Introduction to the printing processes. Configuration of 10. A conceptual introduction to printing. Introduction to the printing processes. Configuration of 10. A conceptual introduction of print management							0			
- lecture supported with multimedia presentation - case study										
	- probl	- problem solving								
	outcome from the syllabus									
Assessment methods	SPRAV	VDZIAN				EP1,EP2,EP3,EP4				
	741 0									
	ZAJ C		(WERYFIKACJA POPRZEZ OBSERWACJ)	dontáw zo ozozogá	Inumi notrzoba	EP3,EP4	nkaoh i			
	ZAJ C Metody i zasadac	IA PRAKTYCZNE formy weryfikacji efe h okre lonych w Reg	(WERYFIKACJA POPRZEZ OBSERWACJ) ektów uczenia si mog zosta zmienione dla stu julaminie Studiów Uniwersytetu Szczeci skiego.	dentów ze szczegó	Inymi potrzeba	EP3,EP4 ami na waru	nkach i			
	ZAJ C Metody i zasadac Labora Lecture	TA PRAKTYCZNE formy weryfikacji efo h okre lonych w Reg atories are evaluate es are evaluated b	(WERYFIKACJA POPRZEZ OBSERWACJ) ektów uczenia si mog zosta zmienione dla stu julaminie Studiów Uniwersytetu Szczeci skiego. ed based on individual practical exercises. ased on single-choice test.	dentów ze szczegó	Inymi potrzeba	EP3,EP4 ami na waru	nkach i			
	ZAJ C Metody i zasadac Labora Lecture Grade	TA PRAKTYCZNE formy weryfikacji efe h okre lonych w Reg atories are evaluate es are evaluated b calculation principle	(WERYFIKACJA POPRZEZ OBSERWACJ) ektów uczenia si mog zosta zmienione dla stu julaminie Studiów Uniwersytetu Szczeci skiego. ed based on individual practical exercises. ased on single-choice test.	dentów ze szczegó	lnymi potrzeba	EP3,EP4	nkach i			
Grading criteria	ZAJ C Metody i zasadaci Labora Lecture Grade The fin The fin	FIA PRAKTYCZNE formy weryfikacji efe h okre lonych w Reg atories are evaluated es are evaluated b calculation principle nal grade is the ave hal grade is based	(WERYFIKACJA POPRZEZ OBSERWACJ) ektów uczenia si mog zosta zmienione dla stu julaminie Studiów Uniwersytetu Szczeci skiego. ed based on individual practical exercises. ased on single-choice test. es erage of lecture grade (50% points) and labo on the number of points (Polish grade scale	dentów ze szczegó pratories grade (: e):	Inymi potrzeba 50% points).	EP3,EP4	nkach i			
Grading criteria	ZAJ C Metody i zasadaci Labora Lectur Grade The fin - 91-10 - 81-90	formy weryfikacji efo hokre lonych w Reg atories are evaluate es are evaluated b calculation principle hal grade is the ave lal grade is based 0: 5, : 4.5.	(WERYFIKACJA POPRZEZ OBSERWACJ) ektów uczenia si mog zosta zmienione dla stu julaminie Studiów Uniwersytetu Szczeci skiego. ed based on individual practical exercises. ased on single-choice test. se erage of lecture grade (50% points) and labo on the number of points (Polish grade scale	dentów ze szczegó pratories grade (: e):	Inymi potrzeba 50% points).	EP3,EP4	nkach i			
Grading criteria	ZAJ C Metody i zasadaci Labora Lectur Grade The fin The fin - 91-10 - 81-90 - 71-80 - 61-70	formy weryfikacji efo hokre lonych w Reg atories are evaluate es are evaluated b calculation principle al grade is the ave al grade is based 0: 5, : 4,5, : 4,5,	(WERYFIKACJA POPRZEZ OBSERWACJ) ektów uczenia si mog zosta zmienione dla stu julaminie Studiów Uniwersytetu Szczeci skiego. ed based on individual practical exercises. ased on single-choice test. es erage of lecture grade (50% points) and labo on the number of points (Polish grade scale	dentów ze szczegó pratories grade (! a):	Inymi potrzeba 50% points).	EP3,EP4	nkach i			
Grading criteria	ZAJ C Metody i zasadac Labora Lectur Grade The fin The fin - 91-10 - 81-90 - 71-80 - 61-70 - 50-60	formy weryfikacji efe h okre lonych w Reg atories are evaluated es are evaluated b calculation principle al grade is the ave al grade is based 0: 5, : 4,5, : 4, : 3,5, : 3,5, : 3,5,	(WERYFIKACJA POPRZEZ OBSERWACJ) ektów uczenia si mog zosta zmienione dla stu julaminie Studiów Uniwersytetu Szczeci skiego. ed based on individual practical exercises. ased on single-choice test. es erage of lecture grade (50% points) and labo on the number of points (Polish grade scale	dentów ze szczegó pratories grade ({ a):	Inymi potrzeba	EP3,EP4	nkach i			
Grading criteria	ZAJ C Metody i zasadaci Labora Lecture Grade The fin - 91-10 - 81-90 - 71-80 - 61-70 - 50-60 - less t Sem.	formy weryfikacji efe h okre lonych w Reg atories are evaluated es are evaluated b calculation principle al grade is the ave al grade is based 0: 5, : 4,5, : 4, : 3,5, : 3, han 50: 2.	(WERYFIKACJA POPRZEZ OBSERWACJ) ektów uczenia si mog zosta zmienione dla stu julaminie Studiów Uniwersytetu Szczeci skiego. ed based on individual practical exercises. ased on single-choice test. es erage of lecture grade (50% points) and labo on the number of points (Polish grade scale	dentów ze szczegó pratories grade (: e): Type of credit	Inymi potrzeba 50% points). Grade cal method	EP3,EP4 ami na waru c. Wei a	nkach i ght for the verage			
Grading criteria	ZAJ C Metody i zasadaci Labora Lecturi Grade The fin The fin - 91-10 - 81-90 - 71-80 - 61-70 - 50-60 - less t Sem. 4	formy weryfikacji efe h okre lonych w Reg atories are evaluated b calculation principle cal grade is the ave al grade is based 0: 5, : 4,5, : 3,5, : 3, han 50: 2. Course podstawy sieci kon	(WERYFIKACJA POPRZEZ OBSERWACJ) ektów uczenia si mog zosta zmienione dla stu julaminie Studiów Uniwersytetu Szczeci skiego. ed based on individual practical exercises. ased on single-choice test. es erage of lecture grade (50% points) and labo on the number of points (Polish grade scale	dentów ze szczegó pratories grade (e): Type of credit	Inymi potrzeba 50% points). Grade cal method Arytmetyczn	EP3,EP4 ami na waru c. Wei ana	nkach i ght for the verage			
Grading criteria Final grade calculation method	ZAJ C Metody i zasadaci Labora Lecture Grade The fin The fin - 91-10 - 81-90 - 61-70 - 50-60 - less t Sem. 4 4	formy weryfikacji efe h okre lonych w Reg atories are evaluated es are evaluated b calculation principle al grade is the ave al grade is based 0: 5, : 4,5, : 4, : 3,5, : 3, han 50: 2. Course podstawy sieci kon	(WERYFIKACJA POPRZEZ OBSERWACJ) ektów uczenia si mog zosta zmienione dla stu julaminie Studiów Uniwersytetu Szczeci skiego. ed based on individual practical exercises. ased on single-choice test. IS erage of lecture grade (50% points) and labo on the number of points (Polish grade scale mputerowych (computer networks) mputerowych (computer networks) [wykład]	dentów ze szczegó pratories grade (e): Type of credit zaliczenie z	Inymi potrzeba 50% points). Grade cal method Arytmetyczi	EP3,EP4 ami na waruu c. Wei na	nkach i ght for the verage			
Grading criteria Final grade calculation method	ZAJ C Metody i zasadaci Labora Lecture Grade The fin The fin - 91-10 - 81-90 - 61-70 - 50-60 - less t Sem. 4 4 4	formy weryfikacji efe h okre lonych w Reg atories are evaluated es are evaluated b calculation principle al grade is the ave al grade is based 0: 5, : 4,5, : 4, : 3,5, : 3, han 50: 2. Course podstawy sieci kon podstawy sieci kon [laboratorium]	(WERYFIKACJA POPRZEZ OBSERWACJ) ektów uczenia si mog zosta zmienione dla stu julaminie Studiów Uniwersytetu Szczeci skiego. ed based on individual practical exercises. ased on single-choice test. IS erage of lecture grade (50% points) and labor on the number of points (Polish grade scale mputerowych (computer networks) mputerowych (computer networks) [wykład] mputerowych (computer networks)	dentów ze szczegó pratories grade (e): Type of credit zaliczenie z ocen zaliczenie z ocen	Inymi potrzeba 50% points). Grade cal method Arytmetyczi	EP3,EP4 ami na waruu c. Wei na	nkach i ght for the verage			
Grading criteria Final grade calculation method	ZAJ C Metody i zasadaci Labora Lecture Grade The fin The fin The fin - 91-10 - 81-90 - 61-70 - 61-70 - 88m. 4 4 4 4 4 Eckertt	formy weryfikacji efe h okre lonych w Reg atories are evaluated es are evaluated b calculation principle al grade is the ave al grade is the ave al grade is based 0: 5, : 4,5, : 4, : 3,5, : 3, han 50: 2. Course podstawy sieci kou podstawy sieci kou laboratorium] J. (2020): Hands-C	(WERYFIKACJA POPRZEZ OBSERWACJ) ektów uczenia si mog zosta zmienione dla stu julaminie Studiów Uniwersytetu Szczeci skiego. ed based on individual practical exercises. ased on single-choice test. es erage of lecture grade (50% points) and labo on the number of points (Polish grade scale mputerowych (computer networks) mputerowych (computer networks) [wykład] mputerowych (computer networks) mputerowych (computer networks) mputerowych (computer networks) [wykład] mputerowych (computer networks) mputerowych (computer networks) mputerowych (computer networks) mputerowych (computer networks) mputerowych (computer networks) mputerowych (computer networks)	dentów ze szczegó pratories grade (e): Type of credit zaliczenie z ocen zaliczenie z ocen engage Learning	Inymi potrzeba 50% points). Grade cal method Arytmetyczi	EP3,EP4 ami na waruu c. Wei na	nkach i ght for the verage			
Grading criteria Final grade calculation method Basic reading	ZAJ C Metody i zasadaci Labora Lecture Grade The fin The fin - 91-10 - 81-90 - 71-80 - 61-70 - 50-60 - less t Sem. 4 4 4 4 Eckert Callawa	formy weryfikacji efe h okre lonych w Reg atories are evaluated es are evaluated b calculation principle al grade is the ave al grade is based 0: 5, : 4,5, : 4, : 3,5, : 3, han 50: 2. Course podstawy sieci kou podstawy sieci kou [laboratorium] J. (2020): Hands-C ay J. (2020): Compu	(WERYFIKACJA POPRZEZ OBSERWACJ) ektów uczenia si mog zosta zmienione dla stu julaminie Studiów Uniwersytetu Szczeci skiego. ed based on individual practical exercises. ased on single-choice test. es erage of lecture grade (50% points) and labo on the number of points (Polish grade scale mputerowych (computer networks) mputerowych (computer networks) [wykład] mputerowych (computer networks) on Microsoft Windows Server 2019. 3rd Ed., Ce uter Networking for Beginners, KDP Print	dentów ze szczegó pratories grade (e): Type of credit zaliczenie z ocen zaliczenie z ocen engage Learning	Inymi potrzeba	EP3,EP4 ami na waruu c. Wei na	nkach i ght for the iverage			
Grading criteria Final grade calculation method Basic reading	ZAJ C Metody i zasadaci Labora Lecture Grade The fin The fin - 91-10 - 81-90 - 71-80 - 61-70 - 50-60 - less t Sem. 4 4 4 4 Eckert Callawa	formy weryfikacji efe h okre lonych w Reg atories are evaluated b calculation principle al grade is the ave al grade is the ave al grade is based 0: 5, : 4,5, : 4, : 3,5, : 3, han 50: 2. Course podstawy sieci kou podstawy sieci kou [laboratorium] J. (2020): Hands-C ay J. (2020): Compu-	(WERYFIKACJA POPRZEZ OBSERWACJ) ektów uczenia si mog zosta zmienione dla stu julaminie Studiów Uniwersytetu Szczeci skiego. ed based on individual practical exercises. ased on single-choice test. es erage of lecture grade (50% points) and labo on the number of points (Polish grade scale mputerowych (computer networks) mputerowych (computer networks) [wykład] mputerowych (computer networks) on Microsoft Windows Server 2019. 3rd Ed., Ce uter Networking for Beginners, KDP Print er N. (2019): Computer networks, Pearson Ede	dentów ze szczegó pratories grade (e): Type of credit zaliczenie z ocen zaliczenie z ocen engage Learning	Inymi potrzeba	EP3,EP4 ami na waru c. Wei na	nkach i ght for the verage			
Grading criteria Final grade calculation method Basic reading Supplementary reading	ZAJ C Metody i zasadaci Labora Lecture Grade The fin The fin - 91-10 - 81-90 - 71-80 - 61-70 - 50-60 - less t Sem. 4 4 4 4 Eckert Callawa Boyle F	formy weryfikacji efe h okre lonych w Reg atories are evaluated b calculation principle al grade is the ave al grade is the ave al grade is based 0: 5, : 4,5, : 4, : 3,5, : 3, han 50: 2. Course podstawy sieci kou podstawy sieci kou [laboratorium] J. (2020): Hands-C ay J. (2020): Compu- poaum A.S., Feamst R.J., Clements J.A.	(WERYFIKACJA POPRZEZ OBSERWACJ) ektów uczenia si mog zosta zmienione dla stu julaminie Studiów Uniwersytetu Szczeci skiego. ed based on individual practical exercises. ased on single-choice test. es erage of lecture grade (50% points) and labo on the number of points (Polish grade scale mputerowych (computer networks) mputerowych (computer networks) [wykład] mputerowych (computer networks) on Microsoft Windows Server 2019. 3rd Ed., Ce uter Networking for Beginners, KDP Print er N. (2019): Computer networks, Pearson Ed (2014): Applied Networking Labs, Pearson Ed	dentów ze szczegó pratories grade (e): Type of credit zaliczenie z ocen zaliczenie z ocen engage Learning ucation ucation	Inymi potrzeba	EP3,EP4 ami na waru c. Wei na	nkach i ght for the verage			
Grading criteria Final grade calculation method Basic reading Supplementary reading	ZAJ C Metody i zasadaci Labora Lecture Grade The fin The fin - 91-10 - 81-90 - 71-80 - 61-70 - 50-60 - less t Sem. 4 4 4 4 4 Eckert Callawa Boyle F	formy weryfikacji efe h okre lonych w Reg atories are evaluated es are evaluated b calculation principle al grade is the ave al grade is the ave al grade is based 0: 5, : 4,5, : 4, : 3,5, : 3, han 50: 2. Course podstawy sieci kou podstawy sieci kou [laboratorium] J. (2020): Hands-C ay J. (2020): Compu- paum A.S., Feamst R.J., Clements J.A.	(WERYFIKACJA POPRZEZ OBSERWACJ) ektów uczenia si mog zosta zmienione dla stu julaminie Studiów Uniwersytetu Szczeci skiego. ed based on individual practical exercises. ased on single-choice test. IS erage of lecture grade (50% points) and labo on the number of points (Polish grade scale mputerowych (computer networks) mputerowych (computer networks) [wykład] mputerowych (computer networks) On Microsoft Windows Server 2019. 3rd Ed., Ce uter Networking for Beginners, KDP Print er N. (2019): Computer networks, Pearson Ed (2014): Applied Networking Labs, Pearson Ed STUDENT WORKLOAD	dentów ze szczegó pratories grade (e): Type of credit zaliczenie z ocen zaliczenie z ocen engage Learning ucation ucation	Inymi potrzeba	EP3,EP4 ami na waru c. Wei na	nkach i ght for the verage			
Grading criteria Final grade calculation method Basic reading Supplementary reading	ZAJ C Metody i zasadaci Labora Lecture Grade The fin The fin - 91-10 - 81-90 - 71-80 - 61-70 - 50-60 - less t Sem. 4 4 4 4 Eckert Callawa Tanent Boyle F	A PRAKTYCZNE formy weryfikacji efe h okre lonych w Reg atories are evaluated es are evaluated b calculation principle al grade is the ave al grade is the ave al grade is based 0: 5, : 4,5, : 4, : 3,5, : 3, han 50: 2. Course podstawy sieci kou podstawy sieci kou [laboratorium] J. (2020): Hands-C ay J. (2020): Compu- paum A.S., Feamst R.J., Clements J.A.	(WERYFIKACJA POPRZEZ OBSERWACJ) ektów uczenia si mog zosta zmienione dla stu ulaminie Studiów Uniwersytetu Szczeci skiego. ed based on individual practical exercises. ased on single-choice test. IS erage of lecture grade (50% points) and labo on the number of points (Polish grade scale mputerowych (computer networks) mputerowych (computer networks) [wykład] mputerowych (computer networks) On Microsoft Windows Server 2019. 3rd Ed., Ce uter Networking for Beginners, KDP Print er N. (2019): Computer networks, Pearson Ed (2014): Applied Networking Labs, Pearson Ed STUDENT WORKLOAD No. of hours	dentów ze szczegó pratories grade (e): Type of credit zaliczenie z ocen zaliczenie z ocen engage Learning ucation ucation	Inymi potrzeba	EP3,EP4 ami na waru c. Wei ana	nkach i			

Contact hours	30	0
Participation in test / exam	4	0
Preparation for contact hours	12	0
Private reading and studying	9	0
Participation in tutorials	10	0
Preparation of project / essay / etc.	0	0
Preparation for test / exam	10	0
TOTAL workload	75	
ECTS credits	3	

Curriculum title: USEFZ-EaITA-O-I-S-2	23/24Z										
Course title: Course code: polityka gospodarcza (economic policy) EFZ71AIJ3432_2 (PODSTAWOWE) EFZ71AIJ3432_2						_2\$					
Name of field of study: Economics and IT Ap	oplications										
Mode and cycle of study: first-degree, full - tim	le		Profile of study general aca	/: ademic			Specialty	:			
Course / module status obligatory					Language of semester:	instruction: : 2 - englis	h langua	age			
Year	Semester		Form of instruction		No. of hours		Type of credit	E	ECTS		
1	2		konwersatorium		15	0		pg		2	
Total					1	5				2	
Course / module coordinator	dr IZABELA SZ	ZAMR	EJ-BARAN	I							
Course instructor	dr IZABELA S	dr IZABELA SZAMREJ-BARAN									
Course / module objectives	To acquaint students with the basic knowledge of economic policy, in particular with the economic impact of regulation and state intervention in the economy. To study the sources, essence, objectives, functions and instruments of various economic policies										
Prerequisites	fundamentals of macroeconomics, the ability to analyze, teamwork, open-mindedness to discussion.										
				LEARNIN	G OUTCOMES						
Category No.			Code	Description Ref. to probench					orogramme hmarks		
knowledge 1		1	EP1	Student defines the basic concepts of economic policy.					К_	K_W01	
		1	EP2	Student practical	describes and aspects of ec	l explains conomic po	the theo plicy.	retical and	K_	_U03	
skills		2	EP3	Student uses theoretical concepts to explain the relationship between the state and the market in modern economies and economic development.			K_ K_	K_U01 K_U03			
social competences 2		1	EP4	Student critically assesses economic policy decisions.			K_ K_	K02 K04			
		2	EP5	Student complements and broadens the acquired knowledge and skills in the field of economic policy, is aware of the importance of the concept of lifelong learning.			K_K02				
		3	EP6	Student is prepared for active teamwork common problems in the public interest			aimed at solving K_H K_H		_K01 _K05		
			CONTENT					Semester	No. o	f hours w tym e-	
Subject title: polityka go	spodarcza (ecor	nomic	policy)							learning	
Format of instruction: ko	nwersatorium										
1. Concept, determinan	ts and economic	c polic	cy objectives.	Functions	and fields of eco	onomic poli	cy.	2	2	0	
2. Instruments of econd	omic policy: fisca	al poli	cy, monetary	policy, inco	ome policy.			2	3	0	
3. Counter-cyclical poli	cy and contemp	orary	crises.					2	1	0	
4. Economic growth and	d development -	the b	asic problem	s. Pro-grow	th policies.			2	1	0	
5. Industrial policy. The	investment poli	icy. So	cience and ini	novation po	licy and other	growth fact	ors.	2	2	0	

6. Structural policy. Structural changes in the economy. Types and structural policies. Structural policies. 2						2	0			
7. Labor market regulation. Employment policy and its functions. Instrumentation. 2						2	0			
8. Regional economic policy in Poland and the European Union. 2						2	0			
Modes of delivery	inform	native lecture, mult ssion, gamification	imedia presentation, case studies, group w	ork, texts an	alysing/watchin	g films witl	1			
						No. of learning outcome from the syllabus				
	KOLO	EP1,EP2,EP3,EP4								
Assessment methods	PREZE	EP5,EP6								
	PROJ	ЕКТ				EP4,EP5	i			
	Metody zasadac	i formy weryfikacji ef h okre lonych w Reg	ektów uczenia si mog zosta zmienione dla stu Julaminie Studiów Uniwersytetu Szczeci skiego.	dentów ze szo	zególnymi potrzeł	bami na waru	ınkach i			
	Credit 50% te	for lectures: The s est, 30% presentati	tudent will get credit if hers/his assessmer on, 20% project	t of the test	presentation ar	nd project i	s positive.			
Grading criteria	Grade	calculation principle	S							
	The final grade of the course is equal to the grade from lectures.									
Final grade calculation	Sem.	Course		Type of cr	edit Grade ca	alc. We d i	ight for the average			
method	2	polityka gospodar	cza (economic policy)		Nieoblicza	ana				
	2	polityka gospodar	cza (economic policy) [konwersatorium]	zaliczenie z ocen						
	Agns Bénassy-Quéré, Benoît Coeuré, Pierre Jacquet, and Jean Pisani-Ferry Economic (2010): Policy Theory and Practice,, Oxford University Press, New York									
Basic reading	Lee Coppock, Dirk Mateer (2018): Principles of Economics (2nd Ed., Norton&Company, New York									
Dasie reading	Milton Friedman (2011): , , (2011): Price Theory, Transaction Publishers, New Jersey									
	Nicola Acocella (Translated from the Italian by Brendan Jones) (2005): Economic Policy in the Age of Globalisation,, Cambridge University Press, Cambridge									
	Friedman M. (2008): lle pa stwa w gospodarce, C.H. Beck									
	Horodecka A. (2008): Ewolucja celów polityki gospodarczej, PWN									
	Kryk B. (red), autorzy m.in: Szamrej-Baran I. (2012): Polityka gospodarcza,, Wydawnictwo Economicus, Szczecin									
Supplementary reading	Noga M., Stawiska M.K. (2009): Modele rozwoju gospodarczego dla Polski w dobie integracji europejskiej i globalizacji, CeDeWu									
	Winiarski B. (red.) (2006): Polityka gospodarcza, PWN									
	Włudyka T. (red.) (2007): Polityka gospodarcza,, Oficyna Wolters Kluwer Polska									
			STUDENT WORKLOAD							
			No. of hours							
				W tym e	ym e-learning					
Contact hours			15	0						
Participation in test / exam			0	0						
Preparation for contact hours			0	0						
Private reading and studying		9	0							
Participation in tutorials			6	0						
Preparation of project / essay / etc.			10	0						
Preparation for test / exam			10	0						

TOTAL workload	50
ECTS credits	2

Curriculum title: USEFZ-EaITA-O-I-S-2	23/24Z							
Unit: Rynek i konkurencja	(Market and com	petition) [mo	duł]					
Course title: polityka regulacyjna pa stwa (state intervention policy) (KIERUNKOWE)						<u>5</u> 8S		
Name of field of study: Economics and IT Ap	oplications							
Mode and cycle of study: first-degree, full - tim	le	Profile of stud general ac	ly: ademic		Specialty	:		
Course / module status elective		-		Language of semester:	instruction: : 5 - english langu	age		
		Form	Earm of		No. of hours			
Year	Semester	instru	ction		w tym e-learning	Type of credit	E	CTS
3	5	discussio	n classes	15	0	pg		3
Ŭ		lect	ure	15	0	pg	3	
Total				3	60			3
Course / module coordinator	dr MAGDALENA S	ОВО	·					
Course instructor	dr hab. TOMASZ E	ERNAT						
Course / module objectives	The aim is to pres behavior of individ	ent the basic i lual corporate	ssues of state entities, cons	intervention purchased intervention provide the second sec	oolicy, in particular t sinesses.	he influance on ind	lividual ma	rkets, the
Prerequisites	The student knows the basics of economics and the principles of market economy, student versed in current economic events. The student is able to think analytically, properly formulate conclusions based on their knowledge of the news of economic life.							
			LEARNING	OUTCOMES				
Category	Nc	. Code	Description	ı			Ref. to p benc	rogramme hmarks
knowledge 1		EP1	Students have knowledge of the nature and causes of state regulatory policy, premises of State influence on functioning of enterprises, the tools and methods of regulation of the market and the impact of regulation on businesses and their business models.			K_ K_ K_	K_W01 K_W02 K_W03	
skills 1		EP2	Student has the ability to determine the cause regulatory policy and its impact on the function business, knows the tools and means to contri- market process, is able to determine the impa- regulatory policy on the business.			causes of unctioning of the o control the impact of state	K_U01 K_U02 K_U03 K_U05	
social competences 1 EP3 Student dev and its impa			velops ability to assess the effectiveness of atory policy in the functioning of enterprises bact on building business models.			K01 K02 K04		
		CONTENT				Semester	No. of	hours
		JUITEN						w tym e- learning
Subject title: polityka reg	gulacyjna pa stwa (s	state intervent	ion policy)					
Format of instruction: lec	ture					1		1
1. Introduction to the th	eory of regulation					5	2	0
2. Reasons of control -	market failure, publ	c goods, asyn	nmetric inform	nation, domina	nt market position	5	2	0

3. Issues of political philosophy					5	2	0			
4. Theories of state intervention - neo-classical approach					5	2	0			
5. Theories of state intervention - public choice approach						2	0			
6. Theories of state intervention - transactions costs approach					5	2	0			
7. Theories of state interv	vention -	information theore	etic approach		5	2	0			
8. Review and summary of	of the co	urse			5	1	0			
Format of instruction: discu	ussion c	asses								
1. Reasons of state interv	vention -	examples			5	2	0			
2. Competition regulatory	/ and law	ı			5	2	0			
3. Consumer protection					5	2	0			
4. Taxes					5	2	0			
5. Labour market regulati	ions				5	2	0			
6. Advertising regulations	s				5	2	0			
7. Telecommunication ma	arket reg	ulations			5	2	0			
8. Review and summary of	of the co	urse			5	1	0			
Modes of delivery	Lectur discus	es with case studio sion about state ir	es are the main form of knowledge transfer ntervention activities in different countries.	. The main way	to carry out th	ne exercis	es is			
						No. of outcome	learning e from the			
		syllabus								
Assessment methods	KOLO	EP1,EP2,EP3								
	PREZE	EP2,EP3								
	Metody i zasadac	formy weryfikacji efe h okre lonych w Reg	efektów uczenia si mog zosta zmienione dla studentów ze szczególnymi potrzebami na warunkach i egulaminie Studiów Uniwersytetu Szczeci skiego.							
	Criteria	a: 85% attendance	on classes, positive assessment of presen	tation and pass	ed test.					
Grading criteria	Grade	calculation principle	S							
	The fir	The final grade of the course is calculated as the grade point average of exercises (50%) and lectures (50%).								
	Sem. Course Type of cre			Type of credit	Grade ca method	lc. We	ight for the average			
Final grade calculation	5	polityka regulacyjr	na pa stwa (state intervention policy)		Arytmetycz	na				
memod	5	polityka regulacyjr	na pa stwa (state intervention policy) [wykład]	zaliczenie z ocen						
	5	polityka regulacyjr [wiczenia]	na pa stwa (state intervention policy)	zaliczenie z ocen						
	Karagia	annis Nikolaos (200 ⁻	7): Modern State Intervention in the Era of Glo	balisation, Edwa	rd Elgar Publis	hing				
Basic reading Karagiannis Nikolaos, King John E. (2019): A Modern Guide to State Intervention Economic Policies for Growth an Sustainability, Edward Elgar Publishing, Cheltencham UK							nd			
	Poynter G (2021): The Political Economy of State Intervention, Routledge, UK									
Supplementary reading	Gerber	L (2005): The Irony	v of State Intervention, Northern Illinois Univers	sity Press						
			STUDENT WORKLOAD							
			No. of hours							
				W tym e-le	/ tym e-learning					
Contact hours										
			30	0						
Preparation for contact hours	10	0								
---------------------------------------	----	---								
Private reading and studying	4	0								
Participation in tutorials	13	0								
Preparation of project / essay / etc.	10	0								
Preparation for test / exam	8	0								
TOTAL workload	75									
ECTS credits	3									

Curriculum title: USEFZ-EaITA-O-I-S-2	23/24Z									
Unit: Rynek nieruchomo	:i (Real estate	mark	tets) [moduł]]						
Course title:								Course code:		
po rednictwo w obro (KIERUNKOWE)	cie nieruchon	no ci	ami (real est	tate brokera	ige)			US71AIJ2857_	<u>5</u> 7S	
Name of field of study: Economics and IT Ap	oplications									
Mode and cycle of study: first-degree, full - tim	e		Profile of study general aca	^{y:} ademic			Specialty			
Course / module status elective					Language of semester:	instruction: 5 - englis	h langu	age		
			F arma	f	No. of	hours				
Year	Semeste	er	instruc	ction	w tym e-learni		arning	Type of credit	E	CTS
3	5		lectu	ıre	15	0		pg		2
Total					1	5				2
Course / module coordinator	dr ANNA GDA	KOW	ICZ	I I					I	
Course instructor	dr ANNA GDA	KOW	ICZ							
Course / module objectives	Acquiring bas	sic ecc	onomic and le	gal knowledg	e concerning	real estate	brokerag	9.		
Prerequisites	 Knowledge: Skills: a stud studies in eco Competence 	a stuc dent is onomic (attitu	lent knows the able to indep cs udes): a stude	e material of bendently per ent has inculo	the basic ecor form logical re ated habits of	nomics at the asoning or systematic	ne level of n econom : self-lear	first degree studie ic issues at the lev ning and individua	es in econ el of first d I use of the	omics Jegree e literature
				LEARNING	OUTCOMES					
Category		No.	Code	Description	n				Ref. to p benc	orogramme hmarks
		1	EP1	Student h features a	as the knowl Ind functions	edge of th of the rea	e specif al estate	ic character, market.	К_	W16
knowledge		2	EP2	Student h rights.	as the knowl	edge of th	e types	of property	К_	W16
		3	EP3	Student h	as the knowl	edge of th	ne agenc	y agreement.	К_	W16
skills		1	EP4	Student h estate.	as the ability	to make a	a descrip	otion of the real	К_	_U15
		2	EP5	Student h	as the ability	to simula	ite a tran	saction.	К_	<u>U15</u>
		1	EP6	Student is	s ready to us	e available	e researd	h results.	K_	K02
social competences		2	EP7	Student is	s ready to co	nduct an a	analysis	of legal acts.	K_	_K02
			CONTENT					Compoter	No. of	i hours
			CONTENT					Semester		w tym e- learning
Subject title: po rednictv	vo w obrocie ni	eruch	omo ciami (re	eal estate bro	kerage)					
Format of instruction: lec	ture									
1. The real estate marke	et							5	2	0
2. Features of the real e	state market							5	2	0
3. Functions of the real	estate market							5	2	0
4. Legal title to the prop	4. Legal title to the property as an object of circulation 5 2									0

5. Parties to the transaction	on					5	2	0
6. An agency contract - ty	/pes. De	scription of the pro	operty			5	2	0
7. Presentation of a real e	estate					5	2	0
8. Tools supporting the w	ork of a	real estate agent				5	1	0
Modes of delivery	Multim	edia presentation	method of cases. Simulation methods, gro	up work, a	nalysis	s of source o	documents	i.
							No. of outcome syll	earning from the abus
	PREZE	INTACJA					EP1,EP2 P5,EP6,E	,EP3,EP4,E P7
Assessment methods	PROJE	EKT					EP1,EP2 P5,EP6,E	,EP3,EP4,E P7
	ZAJ C	IA PRAKTYCZNE	(WERYFIKACJA POPRZEZ OBSERWACJ)				EP1,EP2	,EP6,EP7
	Metody i zasadac	formy weryfikacji ef h okre lonych w Reg	ektów uczenia si mog zosta zmienione dla stu ulaminie Studiów Uniwersytetu Szczeci skiego.	dentów ze sz	zczegól	nymi potrzeba	ami na waru	nkach i
	Form a - Stude descri Evalua - A stu	and terms of exam ents knowledge is ption of a real esta ttion: dent receives a su	ination: assessed on the basis of their presence an te transaction. fficient grade if he attends classes and prej	d their inde	epende	ent work con ion of a real	cerning th	e
Grading criteria	Grade	calculation principle	S					
	The fir	al grade is the gra	de of the lecture.					
Final grade coloulation	Sem.	Course		Type of c	credit	Grade cal method	c. Wei	ght for the iverage
method	5	po rednictwo w ol brokerage)	ocie nieruchomo ciami (real estate Wa		Wa ona	ina		
	5	po rednictwo w ol brokerage) [wykła	brocie nieruchomo ciami (real estate d]	zaliczenie ocen	Z			1,00
Basic reading	Alysse	Musgrave (2018): E	Buying a Home 6th edition, Alysse Musgrave, E	Dallas/Hous	ton			
	David (C.Ling, Wayne R.Ar	cher (2018): Real Estate Principles. A Value A	pproach. 5tl	h editio	n, McGraw-F	Hill, New Yo	irk
Supplementary reading	Daniell	e Kennedy, Warren	Jamison (2011): How to List & Sell Real Estate	e, CENGAG	BE Lea	rning		
			STUDENT WORKLOAD					
			No. of hours					
				W tym	e-lear	ning		
Contact hours			15	0				
Participation in test / exa	am		0	0				
Preparation for contact h	nours		0	0				
Private reading and stuc	lying		12	0				
Participation in tutorials			10	0				
Preparation of project / e	essay / e	etc.	13	0				
Preparation for test / exa	am		0	0				
TOTAL workload			50					
ECTS credits			2					

Curriculum title: USEFZ-EaITA-O-I-S-2	23/24Z										
Course title: praktyka zawodowa ((INNE DO ZALICZENI	professional p A)	oractio	ce)					Course code: US71AIJ2717_	71S		
Name of field of study: Economics and IT Ap	plications										
Mode and cycle of study: first-degree, full - tim	e	F	Profile of study general aca	: demic			Specialty	/:			
Course / module status obligatory		I			Language of semester:	instruction: 4 - englis	h langu	age			
Year	Semeste	er	Form instruc	of tion	No. of	hours	rning	Type of credit		ECTS	
2	4		prakty	′ka	0	0		р		4	
Total					()				4	
Course / module coordinator	dr PIOTR SZK	UDLAI	REK				I		I		
Course instructor	dr TOMASZ Łl	JKASZ	EWSKI								
Course / module objectives	Course / module objectives The aim is to create conditions for the development of professional competence through confrontation of knowledge and skills acquired during the learning process with practice.										
Prerequisites	Prerequisites Fulfilling the formal requirements for the organization of intership in accordance with the Regulations of Student internships on Faculty of Economics, Finance and Management of the University of Szczecin										
				LEARNIN	NG OUTCOMES						
Category		No.	Code Description Ref.						Ref. to ben	Ref. to programme benchmarks	
skills		1	EP1	Student knowled	t continuously i dge and practic	improves al skills	their the	eoretical	ĸ	K_U18	
social competences		1	EP2	Student for a wo	t is ready to op orkplace approp	erate on tl oriate to q	ne labor ualificat	market and look	ĸ	(_K03 (_K05	
			CONTENT					Semester	No.	of hours w tym e-	
Subject title: praktyka za	wodowa (profes	eiona	practice)							learning	
Format of instruction: pra	ktyka	510114	i practice)								
1. Learning the activity	of the institution	n and i	ts environme	nt				4	4	0	
2. Learning the organiza department	ational structure	e of the	e institution a	nd the ran	ge of activities of	f the host		4	4	0	
3. Learning the laws and	d regulations re	gulatir	ng the activitie	es at the w	vorkplace			4	4	0	
4. Learning the internal and fire training	normative acts	regula	ting the finan	cial and a	ccounting manag	gement and	OHS	4	4	0	
5. Carrying out tasks an annexed to the agreeme	nd activities in a ent, under the di	ccorda irectio	ance with the n of the tutor.	frameworl	k of student inter	nship prog	ram,	4	104	0	
Modes of delivery	Professiona	l activi	ties carried o	ut under t	he direction of th	e tutor in t	ne select	ed workplaces.			
									No. o outcom sy	f learning ne from the rllabus	
Assessment methods		ZIENN		(EP1.EP	2	
	Metody i formy zasadach okre	weryfi Ionycł	kacji efektów uc n w Regulaminie	czenia si m Studiów U	nog zosta zmienio Iniwersytetu Szczec	one dla stude i skiego.	entów ze s	zczególnymi potrzeba	imi na war	runkach i	
	1										

	Credit the Fa The pa	Credit without a grade on the basis of the submitted documents specified in the Regulations for Student Interships at the Faculty of Economics, Finance and Management of the University of Szczecin and an interview with the student. The pass mark is the achievement of the assumed learning outcomes									
Grading criteria	Grade	calculation principle	es								
	The in interv	The intership is credited with Interships Supervisor for EITA on the basis of the documentation assessment and an interview with the student									
Final grade calculation	Sem.	Course			Type of credit	Grade calc. method	Weight for the average				
method	4	praktyka zawodov	va (professional practice)			Nieobliczana					
	4	praktyka zawodov	va (professional practice) [praktyka	a] za	aliczenie						
Basic reading	Terms	of Student Internsh	ips at the Faculty of Economics, Fi	nance and Mar	nagement, Univ	versity of Szczecin	I				
Dasic reading	The F	ramework Program o	Internships, University of Szczecin								
Supplementary reading											
	•		STUDENT WORKLOA	\D							
			No. of hours								
					W tym e-learning						
Contact hours			0		0						
Participation in test / ex	am		0		0						
Preparation for contact	hours		0		0						
Private reading and stu	dying		0		0						
Participation in tutorials	5		0		0						
Preparation of project /	essay /	etc.	0		0						
Preparation for test / ex	am		0		0						
TOTAL workload			0								
ECTS credits			4								

Curriculum title: USEFZ-EaITA-O-I-S-2	23/24Z								
Course title: prawo (law) (OGÓLNOUCZELNIA	NE)						Course code: US71AIJ2468_7	′S	
Name of field of study: Economics and IT Ap	oplications								
Mode and cycle of study: first-degree, full - tim	e		Profile of study general aca	/: ademic		Specia	lty:		
Course / module status obligatory		1			Language of semester:	instruction: 1 - english lang	Juage		
			Form	of	No. of	hours			
Year	Semeste	ər	instruc	tion		w tym e-learning	Type of credit	ECTS	
1	1		lectu	re	30	0	pg	3	
Total					3	0		3	
Course / module coordinator	dr PRZEMYSŁ	AW K	ATNER						
Course instructor	dr hab. PASQ	UALE	POLICASTRO)					
Course / module objectives Gaining knowledge in the field of fundamental institutions and disciplines of the law. The ability to use this knowledge for the purpose of understanding and use of economic institutions, particularly in relation to IT.									
Prerequisites	Willingness to	o acqu	ire legal know	/ledge.					
				LEARNING	OUTCOMES				
Category		No.	Code	Description				Ref. to programme benchmarks	
		1	EP1	Student knows the fundamental legal concepts in English.				K_W07	
		2	EP2	Student ha	Student has the knowledge about the fundamental branches and fields of law in the comparison scope.				
knowledge		3	EP3	Student ha	K_W07				
Kilowieuge		4	EP4	Student has the knowledge about the fundamental law institutions in the field of public law, private law and the European Union law.				K_W07	
		5	EP5	Student ha presenting with IT.	as the knowl I legal proble	edge about mea ems in the right	ns, which enable way to solve them	K_W08	
		1	EP6	Student ca and define	n distinguis them.	h the fundamen	tal legal concepts	K_U07	
		2	EP7	Student ur analyze ba	nderstands f isic legal cas	undamental lega	al verdicts, can	K_U07	
skills		3	EP8	Student ca Mind Mapp	in present a bing.	n abstract of leg	al acts through	K_U07	
		4	EP9	Student ca	in prepare le	egal newsletters		K_U07	
		5	EP10) Student can summarize legal verdicts. K_U0					
		1	EP11	Student is terminolog	able to worl Jy.	k in a team using	g fundamental legal	K_K01	
social competences		2	EP12	Student is summarizi interdicipli profession	able to part ng a legal ve inary team o ials.	icipate in the cre erdict or a legal a f lawers, econm	eation process of act in an ists, IT	K_K01 K_K02	
		3	EP13	Student ha with basic problems.	as a fundame IT tools, wh	ental competence en analyzing fur	es for working ndamental legal	K_K04	

		CO			Semester		No. of hours		
		COr			5	emester		w tym e- learning	
Subject title: prawo (law)									
Format of instruction: lectu	ire						1	1	
1. Definitions, Law, legal	environ	ment, legal proble	m.			1	2	0	
2. Legal Norms and Lega	al Orders	.				1	3	0	
3. Law and the Biospher Semiosphere.	e, Law a	nd the Noosphere,	Law and the Economic Sphere, Law and the	ne		1	2	0	
4. Law and Technology.						1	3	0	
5. Common Law and Civi	l Law.					1	3	0	
6. Different branches of law in a comparative pers	aw belor spective	nging to public law	and private law, understood on the ground	d of case		1	3	0	
7. Legal aspects concern	ing Euro	pean Integration.				1	3	0	
8. Legal aspects concern	ing glob	alization.				1	2	0	
9. The fundamental instit	utions o	f a state.				1	2	0	
10. Public services: energy	10. Public services: energy, water, transportation.						3	0	
11. Foundations of commercial Law and of company law						1	4	0	
Modes of delivery	Explai texts.	ning the legal cond Analyzing legal tex	cepts and institutions during lectures. Und (ts. Discussions about important cases and	erstanding, I important	discus legal a	ssiong and s	summarizi	ng legal	
				•			No. of	learning e from the	
							syl	labus	
							EP1,EP1	0,EP2,EP3,	
Assessment methods	SPRAWDZIAN						P8,EP9		
	ZAJ CIA PRAKTYCZNE (WERYFIKACJA POPRZEZ OBSERWACJ)						EP11,EP	12,EP13	
	Metody zasadac	i formy weryfikacji ef h okre lonych w Reg	ektów uczenia si mog zosta zmienione dla stu julaminie Studiów Uniwersytetu Szczeci skiego.	Identów ze sz	zczegól	nymi potrzeba	ami na waru	ınkach i	
	Lectur	es are assessed b	y written tests. Students will receive a posi	tive mark if	he/sh	e passes all	tests.		
Grading criteria	Grade	calculation principle	les						
	The final grade is based on the grade of lectures.								
Final grade coloulation	Sem.	Course		Type of c	credit	Grade cal method	c. We	ight for the average	
method	1	prawo (law)				Wa ona			
	1	prawo (law) [wykła	ad]	zaliczenie ocen	Z			1,00	
Basic reading	W. Daj Warsza	czak, A. Szwarc, P. awa - Bielsko Biała :	Wili ski (eds) (2011): Handbook of Polish Lav 2011	v, ParkPraw	o, Wyd	lawnictwo Sz	kolne PWI	N Sp. z o.o.,	
Cupplementary reading	A. Sko	rupa-Wulczy ska (2	2016): Legal English. Civil and Commercial La	w. A Handbo	ook, Wa	arszawa			
Supplementary reading	Policas	stro P. (ed.) (2013):	Towards Innovation in Legal Education						
			STUDENT WORKLOAD						
			No. of hours						
W tym e-learning									
Contact hours			30	0					
Participation in test / exa	am		2	0					
Preparation for contact	hours		0	0					

Private reading and studying	18	0
Participation in tutorials	10	0
Preparation of project / essay / etc.	0	0
Preparation for test / exam	15	0
TOTAL workload	75	
ECTS credits	3	

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z

Course title: problemy współczesnej ekonomii (modern economics) Course code: EFZ71AIJ3432_55 (PODSTAWOWE) EFZ71AIJ3432_55								_5S		
Name of field of study: Economics and IT Ap	oplications						·			
Mode and cycle of study: first-degree, full - tim	ie	F	Profile of study general aca	r: ademic		Special	y:			
Course / module status obligatory		I			Language of semester	f instruction: : 6 - english lang u	uage			
Voar	Somosto	r	Form of		No. of	No. of hours		F	CTS	
i cai	Ochicate		instruc	tion		w tym e-learning	Type of creat		.010	
2	6		labora	tory	15	0	pg		0	
3	0		lectu	re	15	0	pg		3	
Total				30					3	
Course / module coordinator	dr hab. RAFAŁ	NAG	AJ							
Course instructor	dr hab. RAFAŁ	NAG	AJ							
Course / module objectives	Course / module objectives Familiarizing the student with issues related to contemporary economy and economics and making students understand them and know the tools to solve these problems. Students will also acquire skills and qualifications to analyze basis economic phonemens in contemporary economics									
Prerequisites The student has the ability to use basic quantitative methods and logical thinking. The student has knowledge of the basics of macroeconomics and basic macroeconomic aggregates										
				LEARNIN	IG OUTCOMES					
Category		No.	Code	Description Ref. t				Ref. to p benc	Ref. to programme benchmarks	
knowledge		1	EP1	The sturn microed growth	dent knows the conomic trends and the busine	e contemporary n s, has knowledge ess cycle.	nacro- and about economic	К_	W01	
		2	EP2	Student econom	t knows the ins	struments used to	o monitor the	K_ K_	K_W01 K_W05	
skills		1	EP3	Student instrum	t is able to corr ents of econor	rectly identify, cla mic policy.	ssify and explain	K_ K_	_U01 _U03	
social competences		1	EP4	The stur particip econom	dent is ready t ate in the deci nic conditions.	o deepen knowle sion-making proc	dge and ess in changing	K_ K_	_K02 _K04	
								No. of	f hours	
			CONTENT				Semester		w tym e- learning	
Subject title: problemy w	vspółczesnej eko	nomi	i (modern ecc	onomics)				1		
Format of instruction: lec	ture									
1. The main areas of int	terest of modern	(cont	emporary) ec	onomics.			6	2	0	
2. Economic growth an	d economic deve	elopm	ent. Cyclical	fluctuation	is in the contem	porary economy.	6	4	0	
3. The role of the state	in modern econo	my.					6	2	0	
4. The functioning of th	e economy in the	e shoi	rt and long te	rm. Model	IS-LM-BP and A	D-AS.	6	4	0	
5. Competitiveness of e (contemporary) world.	economies and g	lobali	zation and ec	onomic de	evelopment in th	e modern	6	2	0	
6. Repetition and summ	nary of modern e	conor	nics issues.				6	1	0	
Format of instruction: lab	oratory						1	I	<u>.</u>	

1. Basic economic proble international institutions/	ems in m /organiza	odern world econo ations.	omies. Statistical overview in major nationa	land	6	4	0	
2. Economic growth in te growth.	rms of m	nathematical and s	tatistical: measures of calculation of econo	mic	6	2	0	
3. Condition of the econo	my and	the business cycle	e stages.		6	3	0	
4. The relationship betwe	en short	-term and long-ter	m equilibrium in the economy.		6	2	0	
5. Competitiveness of ec	onomies	and socio-econor	nic development - statistical data analysis.		6	3	0	
6. Repetition and summa	ry of mo	dern economics is	sues.		6	1	0	
Modes of delivery	Case s	tudy, multimedia l	ectures	·		•	•	
						No. of outcom syl	learning e from the abus	
Assessment methods	SPRAV					EP1,EP2	P,EP3,EP4	
	Metody i zasadac	formy weryfikacji efe h okre lonych w Reg	ektów uczenia si mog zosta zmienione dla stu ulaminie Studiów Uniwersytetu Szczeci skiego.	dentów ze szczeg	ólnymi potrzeba	imi na waru	inkach i	
Grading criteria Evaluation of the classes: Students are assessed on the basis of a written colloquium. The colloquium consists of open questions/tasks solved using a computer with internet access. Evaluation of the lectures: students are assessed on the basis of a written test in the form of a test questions. EVALUATING: Student will receive a satisfactory grade, if shows a basic understanding of issues (has an elementary knowledge) related to economics and problems of contemporary economies in the world. Grade calculation principles								
	The final grade is the arithmetic mean of the grades obtained for the classes and lectures. If the result of this arithmetic mean is ambiguous, then the grade of the lectures is decisive.							
	Sem.	Course		Type of credit	Grade cal method	c. We	ight for the average	
Final grade calculation	6	problemy współcz		Arytmetyczr	na			
	6	[laboratorium]	społczesnej ekonomii (modern economics) zaliczenie z n] ocen połczosnej ekonomii (modern economics) [wykładi zaliczenie z					
	6			ocen				
	Hayek,	F.A. (Ed. Klausinge	er H.) (2013): Business cycles. Part 1, Routledg	ge/Taylor & Frar	icis, London			
Basic reading	Hayek,	F.A. (Ed. Klausinge	er H.) (2013) (2013): Business cycles. Part 2, F	outledge/Taylor	& Francis,, Lor	ndon		
	Krugma	an, P., Wells, R. (20	018): Macroeconomics, 5th Edition, Worth Pub	lishers, New Yo	ſk			
	Jones,	C.I. (2018): Macro	economics 4th Edition, Norton & Company, Inc	., London				
Supplementary reading	Kuroki,	R. (2013): Keynes	and modern economics, Routledge/Taylor & F	rancis Group, L				
	Ofbane	K, F. (LU.) (2010).		to contempora	y Economic Cr	ialienges,		
			STUDENT WORKLOAD					
			No. of hours					
				W tym e-le	arning			
Contact hours			30	0				
Participation in test / exa	am		3	0				
Preparation for contact	hours		10	0				
Private reading and stud	dying		15	0				
Participation in tutorials			7	0				
Preparation of project /	essay / e	etc.	0	0				
Preparation for test / example	am		10	0				

TOTAL workload	75
ECTS credits	3

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Course title: Course code: rachunkowo - podstawy (fundamentals of accounting) US71AIJ2964_21S (PODSTAWOWE) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Profile of study: Specialty: general academic first-degree, full - time Course / module status Language of instruction: semester: 2 - english language obligatory No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning discussion classes 15 0 pg 1 2 3 15 0 lecture е Total 30 3 Course / module dr PRZEMYSŁAW MU KO coordinator Course instructor dr PRZEMYSŁAW MU KO Course / module The aim is to educate students about the role of accounting as the basic information system in the enterprise and to objectives develop elemental skills necessary to participate in processing accounting data. Student knows the basics of entrepreneurship, the basic distinction between economic categories, such as resources, Prerequisites

LEARNING OUTCOMES Ref. to programme Category No. Code Description benchmarks Student knows the basic source of law governing the K_W07 EP1 1 conduct of corporate accounting. K_W09 knowledge K_W07 Student knows the scope and the general structure of the EP2 2 financial statements. K_W09 Student can classify resources and claims in the balance sheet and determine the result of the simple K U07 1 EP3 business operations on the profit and loss account. K_U09 skills Student can post business operations (balance sheet and K U07 EP4 income operations) and recognizes their impact on the 2 K_U09 financial statement items. Student can complement and improve their knowledge

processes. Students can work in a team and understand the importance of lifelong learning.

social competences 1 FP5 K K02 and skills. No. of hours CONTENT Semester w tym elearning Subject title: rachunkowo - podstawy (fundamentals of accounting) Format of instruction: lecture 1. The essence, the features and functions of accounting. The scope of accounting. Introduction to 2 1 0 accounting law. 2 2. The scope and importance of the financial statements. 1 0 3. Assets and liabilities of the company and its classification. Equity. Balance sheet. 2 2 0 4. Business operations. The impact of business operations on the components of the balance sheet. 2 1 0 5. Documentation of business transactions. 2 1 0

6. The account - construct bookkeeping. Registratio	tion and operation. Types of accounts. The principle of double-entry n rules for balance sheet accounts.	2	2	0				
7. Income statement. Bas	ic categories of profits - income, expenses, losses, gains.	2	1	0				
8. Principles of operation function.	of the profit and loss accounts. Financial result and comparative variant	2	2	0				
9. The overriding principl	es of accounting.	2	1	0				
10. Control and Subsidiar	y Accounts. Trial balance.	2	1	0				
11. Preparing a simplified	balance sheet and profit and loss account for the basis of the trial balance	2	1	0				
12. Examples of ethical d	ilemmas	2	1	0				
Format of instruction: discu	ussion classes							
1. The elements of the ba (assessment the initial re	lance sheet and profit and loss account published by selected entities quierment of knowledge and skills of students).	2	1	0				
2. Definitions of accounti	ng. Users of accounting information. Aim of finanancial reporting.	2	1	0				
3. Discussion of selected accounting regulations (management and supervisory boards, documentation, inventory, reporting deadlines, the importance of accounting policy, and charts of accounts).								
4. The balance sheet stru	2	1	0					
5. Preparation and interpretation of the importance of the balance sheet position. 2								
6. Business operations and their documentation. 2								
7. The impact of transactions on the balance sheet. 2								
8. The principle of double-entry bookkeeping. 2								
9. Trial balance.								
10. Income, revenues and gains. Cost, expenses and loses. Principles of recognizing income. Recording income opreactions in accounting books. 2								
11. Financial performance. The preparation of the profit and loss account. 2								
12. Comprehensive exam	ple	2	2	0				
13. Understanding the i statements (working with	mportance of accounting information based on a simplified financial documents)	2	1	0				
14. Verification of knowle	dge and skills (colloquia).	2	1	0				
Modes of delivery	Cases studies, Analysis of source documents, Simulation methods, Group wo	k, Multimedia pres	sentation					
			No. of le outcome sylla	earning from the abus				
Assessment methods	EGZAMIN PISEMNY		EP1,EP2,	EP3,EP4				
Assessment methods	KOLOKWIUM		EP3,EP4					
	ZAJ CIA PRAKTYCZNE (WERYFIKACJA POPRZEZ OBSERWACJ)		EP5					
	Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze sz zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.	czególnymi potrzeba	ami na warur	nkach i				
Grading criteria The form and terms of credit: Students are assessed on the basis of the classroom activities and written colloquium, including verification based on exercises for checking the ability to prepare and interpret simplified financial statements, and records of business transactions (students can use charts of accounts). The form and terms of the exam: a written examination testing the knowledge and skills of students in the recording various business transactions and preparing basic financial statements. The examination covers the part of the test (about 40% of the points - the multiple-choice test and open-ended questions) and the registration and reporting tasks (about 60% of the points). Students may use during the examination charts of accounts. Rating: The student passes the exam, if he/she can post basic operations and the prepare balance sheet, and knows the basic concepts of accounting basics. Grade calculation principles Final grade: * Einal grade is equal to the weighted average of the average								
	upon condition that both grade are at least satisfactory (3,0).							

	Sem.	Course		Type of credit	Grade calc. method	Weight for the average			
Final grade calculation	2	rachunkowo - p	oodstawy (fundamentals of accounting)		Wa ona				
method	2	rachunkowo - p [wykład]	oodstawy (fundamentals of accounting)	egzamin		0,75			
	2	rachunkowo - p [wiczenia]	oodstawy (fundamentals of accounting)	zaliczenie z ocen		0,25			
	Elliott B., Elliott J. (2017): Financial accounting and reporting, Financial Times Prentice Hall, Harlow, , Harlow, England								
	Frankl Univer	in, M., Graybeal, P., sity, Houston, Texa	Cooper, D., (2019): Principles of Accounting, Volume 1: Financial Accounting., OpenStax, Rice						
Basic reading	Thoma (Irwin	Thomas P Edmonds, Christopher Edmonds, Philip R Olds, Frances M McNair, Bor-Yi Tsay (2018): Survey of Accounting (Irwin Accounting) 5th Edition., McGraw-Hill Education, 13e, international student edition, New York							
	Walther L. M. (2017): Financial Accounting Textbook, CreateSpace Independent Publishing Platform								
Supplementary reading									
STUDENT WORKLOAD									
			No. of hours						
				W tym e-lea	W tym e-learning				
Contact hours			30	0	0				
Participation in test / ex	am		2	0					
Preparation for contact	hours		10	0					
Private reading and stu	dying		7	0					
Participation in tutorials			12	0					
Preparation of project /	essay /	etc.	0	0					
Preparation for test / ex	am		14	0					
TOTAL workload			75						
ECTS credits			3						

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Course title: Course code: rachunkowo w przedsi biorstwie (accounting in enterprise) US71AIJ2964_29S (KIERUNKOWE) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Specialty: Profile of study: general academic first-degree, full - time Course / module status Language of instruction: semester: 3 - english language obligatory No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning discussion classes 15 0 pg 2 3 3 15 0 lecture pg Total 30 3 Course / module dr MAGDALENA JANOWICZ coordinator Course instructor dr PRZEMYSŁAW MU KO The aim of the course is to demonstrate the basic elements of drawing up financial statements by adjusting the Course / module balance. The aim is also for the student to acquire practical skills in preparing financial statements and understanding objectives the information provided by these statements. Prerequisites Basic knowledge of accounting. LEARNING OUTCOMES Ref. to programme Category No. Code Description benchmarks Student has the knowledge of the scope of the financial statements, reporting requirements, methods of EP1 K_W09 1 knowledge preparation of financial statements, the rules for reporting and audit of financial statements. Student is able to determine the impact of transactions 1 EP2 K_U09 on financial statements. skills Students can prepare basic elements of a financial 2 EP3 K_U09 statement. Student is ready to evaluate solutions adopted by an K K02 1 EP4 social competences economic entity in its financial statements. K_K04 No. of hours CONTENT Semester w tym elearning Subject title: rachunkowo w przedsi biorstwie (accounting in enterprise) Format of instruction: lecture 1. The nature and objectives of financial reporting. Factors affecting the evolution of the financial statements. The scope of the financial statements. Current trends in financial reporting (harmonization 3 1 0 and standarization processess). 2. Introduction to accounting valuation methods. 3 1 0 2 3. Information content of the statement of financial position. 3 0 4. The preparation of the statement of financial position - recognition and measurement of selected items 4 3 0 of assets, liabilities and equity. Impairment loss. 2 5. Income statement 3 0 2 0 6. Framework for the preparation and interpretation of the statement of cash flows. 3 3 1 0 7. Statement of changes in equity.

						1			
8. Information content of	the notes to financial statemants. 3 1 0								
9. Verification of the course effects. 3 1 0									
Format of instruction: disc	ussion c	lasses							
1. Elements of the finance skills of students). Discu	cial state	nents of the selected entities (initial assessment of the knowle the objectives of the projects.	edge and	3	1	0			
2. The statement of financial position (balance sheet) - a case study 3 3 0									
3. Measurement and valuation of assets - a case study. 3 3 0									
4. Elements of the profit and loss account. Other comprehensive income. Comprehensive income 3 2 0 statement. 3 2 0									
5. Cash flow statement - definitions, type of activities. Direct and indirect method. 3 2 0									
6. Statement of changes information provided by	in equity accounti	 Notes to the financial statement. Limitations of the financial ng. 		3	2	0			
7. The effect of economic	c events	on the date presented in a financial statement.		3	1	0			
8. Verification of the cou	rse effec	ts.		3	1	0			
Modes of delivery	Multim	nedia presentation, method of cases, simulation methods, the e documents.	use of a compu	ter program, t	the analys	is of			
					No. of	learning			
					outcome	e from the			
					- Syn				
Assessment methods	KOLO	KWIUM			EP1,EP2	"EP3			
	ZAJ C	IA PRAKTYCZNE (WERYFIKACJA POPRZEZ OBSERWACJ)			EP2,EP3	,EP4			
	Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze szczególnymi potrzebami na warunkach i								
	zasadac	n okre ionych w Regulaminie Studiow Uniwersytetu Szczeci skiego.							
Grading criteria	Students are assessed on the basis of written assignments (one for each part of the course - lectures and exercises), including verification based on exercises checking the ability to prepare financial statements as well as checking students' knowledge of valuation and measurement rules and their effect on the values presented in the financial statements. Forms of the assignments for each part of the course: - for the lectures: a test (multiple choice, fill-in-the-gaps, open questions/assignments) testing students' knowledge of students in rules of preparing financial statements, - for the exercises: a written assignment testing students skills in preparing financial statements, consisting of reporting tasks (up to 6 short exercises). Brading criteria Rating: Brading criteria Rating: Every student has the right to have their grade increased by 0.5 grade point provided that they have been active during the classes, answering the teacher's questions and proposing solutions to the discussed problems.								
	Grade	calculation principles							
	Final g Final g upon d	rade: grade is equal to the weighted average of the classes grade (50 condition that both grades are at least satisfactory (3,0).	% weighted) ar	nd lecture gra	de (50% w	eighted) -			
	Sem.	Course	Type of credit	Grade cal method	c. Wei	ight for the average			
Final grade calculation	3	rachunkowo w przedsi biorstwie (accounting in enterprise)		Arytmetycz	na				
method	3	rachunkowo w przedsi biorstwie (accounting in enterprise) [wiczenia]	zaliczenie z ocen						
	3	rachunkowo w przedsi biorstwie (accounting in enterprise) [wykład]	zaliczenie z ocen						
	Elliott E	3., Elliott J. (2017): Financial accounting and reporting, 18 edition.,	Pearson, Harlov	N	_	_			
Basic reading	Karwo	wski W. (2015): Accounting and financial reporting, SGH, Warszaw	а						
	Janow	cz M. (2021): Rachunek przepływów pieni nych w: Sprawozdania Warszawa	finansowe i ich	analiza - zbiór	zada , reo	d. W. Gos,			
Supplementary reading Janowicz M. (2021): Rachunek przepływów pieni – nych w: Sprawozdania finansowe i ich analiza, red. W. Gos, SKwP.									
	Janow	cz M. (2021): Rachunek przepływów pieni nych w: Sprawozdania	a finansowe i ich	analiza, red. V	V. Gos, SK	ίwΡ,			

STUDENT WORKLOAD						
	No. of hours					
		W tym e-learning				
Contact hours	30	0				
Participation in test / exam	0	0				
Preparation for contact hours	15	0				
Private reading and studying	15	0				
Participation in tutorials	6	0				
Preparation of project / essay / etc.	0	0				
Preparation for test / exam	9	0				
TOTAL workload	75					
ECTS credits	3					

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z

05EFZ-EarrA-0-1-5-2	23/242									
Course title: rachunkowo w zint integrated informatio (KIERUNKOWE)	tegrowanych s on systems)	syster	nach inform	atycznycł	n (accounting	modules in	Course code: US71AIJ2717_	43S		
Name of field of study: Economics and IT Ar	oplications									
Mode and cycle of study: first-degree, full - tim	e	I	Profile of study general aca	/: ademic		Specialty	y:			
Course / module status obligatory					Language o	of instruction: r: 6 - english langu	lage			
Year	Semester		Form	of	No. o	f hours	Type of credit	E	ECTS	
			mstruc			w tym e-learning				
3	6		labora	tory	15	0	pg		3	
					15	0	pg			
						30			3	
coordinator	dr MAŁGORZA	ATA W	I CICKA-FER	RNANDO						
Course instructor	dr OLGA PILIF	CZUK	(
Course / module objectives	The aim of the integrated info	e cours ormatio	se is to provid on systems.	le knowled	ge about the ty	the practical skills of	ccounting modules	in		
Prerequisites	The student k	nowst	the basics of	accounting				Sontware.		
	The student ki	nows	the basics of	LEARNIN	G OUTCOMES					
								Ref. to r	orogramme	
Category		No.	b. Code Description benchmark					hmarks		
knowledge		1	EP1	Student systems emphas	has a basic k used in busi is on account	nowledge of integ ness organization ting modules.	rated computer s with special	К_	_W09	
-1.'U-		1	EP2	Student in the ac	can enter, ed counting IT r	lit, and analize the nodules.	economic events	К_	_U09	
SKIIIS		2	EP3	Student account	can prepare	various statements	s using the	К_	_U09	
social competences		1	EP4	Student activities	is ready to co s using the II	onduct business a S	nd social	K_ K_	_K01 _K05	
			CONTENT				Compoter	No. of	f hours	
			CONTENT				Semester		w tym e- learning	
Subject title: rachunkow	o w zintegrow	/anych	n systemach i	nformatycz	nych (account	ing modules in integ	rated information sy	/stems)		
Format of instruction: lec	ture									
1. Information systems	in business org	anizat	ions: types, t	asks, role.			6	2	0	
2. International account	ting software ma	arket o	overview				6	2	0	
3. Cloud accounting so	oftware for small	l busir	nesses				6	3	0	
4. All inclusive integrate	ed accounting s	ystem	s				6	2	0	
5. Invoice processing, e	-invoicing mod	ules					6	2	0	
6. Processing of tax ret	urns modules						6	2	0	
7. The methods and pro	7. The methods and procedures of accounting system choosing 6 2 0							0		

Format of instruction: labo	ratory							
1. An overview of accounting software 6 2 0								
2. Invoice processing, e-invoicing software 6 4 0								
3. Tax processing in information system 6 2								
4. Records of fixed assets processing in information system 6 2 0								
5. HR and payroll records processing in information system 6 2 0								
6. Financial and accounting information analysis using Business Intelligence module. 6 3 0								
Modes of delivery	Lectur	res with multimedia	a presentations, Laboratory classes with ac	counting softwa	re		1	
		No outc						
	KOLO	KWIIIM				FP1 FP2		
Assessment methods	SPRA					EP3.EP4		
	PREZI	ENTACJA				EP1		
	Metody	i formv wervfikacii ef	ektów uczenia si mog zosta zmienione dla stu:	dentów ze szczegó	olnymi potrzeba	imi na waru	nkach i	
Grading criteria	Lectur Labs: For a 2 For a 2 Grade	res: The knowledge The knowledge is 3,0 student must o 4,0 student must o 5,0 student must o calculation principle	e is checked on the basis of a written theore checked on the basis of practical lab test. btain a minimum of 60% of the points for ea btain a minimum of 80% of the points of eac btain a minimum of 95% of the points of eac s s urse is an average of the grades obtained fr	etical test and a ich test. ch test. ch test. ch test.	presentation.			
	Sem.	Course		Type of credit	Grade cal method	c. We	ight for the average	
	6	rachunkowo w z (accounting modu	zintegrowanych systemach informatycznych les in integrated information systems)		Arytmetyczr	na		
method	6	rachunkowo w z (accounting modu [wykład]	zintegrowanych systemach informatycznych les in integrated information systems)	zaliczenie z ocen				
	6	rachunkowo w a (accounting modu [laboratorium]	zintegrowanych systemach informatycznych les in integrated information systems)	zaliczenie z ocen				
Basic reading	G. H. E	Bodnar, W. S. Hopw	ood, G. Bodnar (2013): Accounting Information	n Systems, 11 edi	tion, Prentice	Hall		
	G. Kris	standl, M. Quinn (20	14): Business Information Systems for Account	ting Students, Pe	arson			
Supplementary reading								
			STUDENT WORKLOAD					
			No. of hours					
				W tym e-lea	rning			
Contact hours			30	0				
Participation in test / ex	am		6	0				
Preparation for contact	hours		8	0				
Private reading and stu	dying		7	0				
Participation in tutorials			6	0				
Preparation of project /	essay /	etc.	10	0				
Preparation for test / exam 8 0								

TOTAL workload	75
ECTS credits	3

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Course title: Course code: rynkowe zachowania konsumentów (consumers behaviour) EFZ71AIJ3433_4S (PODSTAWOWE) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Profile of study: Specialty: general academic first-degree, full - time Course / module status Language of instruction: semester: 5 - english language obligatory No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning 3 5 lecture 15 0 Х 2 2 Total 15 Course / module dr hab. KATARZYNA WŁODARCZYK coordinator Course instructor dr MAŁGORZATA WI CICKA-FERNANDO The transfer of knowledge in the field of consumer behaviour and the factors influencing them and the basic trends in Course / module consumers' behaviour and their decision-making process. Developing skills of both group and individually work and objectives awareness of the need of life long learning. Knowledge of marketing issues, methods and techniques of marketing research, marketing strategy developmen. Prerequisites LEARNING OUTCOMES Ref. to programme No. Code Description Category benchmarks Student knows the essence of the consumer behaviour. Student explains the importance of consumer behaviour EP1 K W04 1 knowledge as an important factor influencing the operation of the market entities. The student can search for solutions to the issues which are discussed by using his knowledge and evaluate K_U04 skills 1 EP2 K_U16 consumer behaviour. He is involved in the implementation of team tasks and can freely K U17 communicate in English in an international team. Student is ready to prepare and carry out consumer behaviour tasks and projects. The student has criticism K K01 EP3 social competences 1 of unfair market practices designed to manipulate the K K02 consumer. No. of hours CONTENT Semester w tym elearning Subject title: rynkowe zachowania konsumentów (consumers behaviour) Format of instruction: lecture 1. Consumer Behaviour- introduction to the subject 2 0 5 2 2. Factors Influencing Consumer behaviour 5 0 3. Perception, Motivation and Personality 5 2 0 3 5 0 4. Group aspects of behaviour 2 0 5. Consumer as decision Makers 5 0 6. Consumer research 5 4 Modes of delivery Multimedia presentation, discussion, case studies, group work, presentation of the project by the students.

						No. of learning outcome from the syllabus				
Assessment methods										
	PRAC									
	Metody zasadad	i formy weryfikacji efe ch okre lonych w Reg	ektów uczenia si mog zosta zmienione dla stu ulaminie Studiów Uniwersytetu Szczeci skiego.	udentów ze szczegó	olnymi potrzeba	mi na warunkach i				
	Scient consu topics	tific article and pres mer behavior. The	sentation of the article by the students. The student chooses / inventes the topic that i	e final grade eval nterests him / he	uation: Scient r and makes p	tific article about presentation main				
Grading criteria	Grade	Grade calculation principles								
	The fi	nal grade is equal t	o the grade of the lectures.							
	Sem.	Sem. Course Type of credit Grade ca method								
method	5	rynkowe zachowa	nia konsumentów (consumers behaviour)		Nieobliczan	а				
	5	rynkowe zachowa [wykład]	nia konsumentów (consumers behaviour)	brak zaliczenia						
	Ashuto behav	osh R. Patil ; contribution : information proc	utors Richard P. Bagozzi, Dawn Iacobucci, Ro essing and decision making, SAGE	bert Meyer, Kent I	B. Monroe. (20	11): Consumer				
	J. O'S	haughnessy (2012):	Consumer Behaviour: Perspectives, Findings	s and Explanations	3					
Basic reading	Leon G. Schiffman, Joseph Wisenblit (2015): Consumer behavior, Global ed.									
	M. R. 3	Solomon (2017): Co	nsumer Behavior: Buying, Having, and Being	, Prentice Hall Col	lege Div					
	Zubin Delhi;	Sethna & Jim Blythe Singapore; Washi	. (2016): Consumer Behaviour, 3th edition., ngton; Melbourne	SAGE Publishing,	, Los Angeles;	London; New				
Supplementary reading	C. Wh Consu	an Park ; contributor mer behavior: empir	rs William O. Bearden, Valerie S. Folkes, Mary Gilly, Flemming Hansen, David W. Stewart (2012): irical research, SAGE							
	P. Kot	ler, V. Wong, J. Sau	unders, G. Armstrong (2004): Principles of Marketing, European Edition							
			STUDENT WORKLOAD							
			No. of hours							
				W tym e-lea	rning					
Contact hours			15	0						
Participation in test / ex	am		2	0						
Preparation for contact	hours		8	0						
Private reading and stu	dying		6	0						
Participation in tutorials			3	0						
Preparation of project /	essay /	etc.	12	0						
Preparation for test / ex	am		4	0	0					
TOTAL workload			50							
ECTS credits			2							

Curriculum title:									
USEFZ-EalTA-O-I-S-2	23/24Z								
Course title: seminarium dyplomo (KIERUNKOWE)	owe (seminar)						Course code: US71AIJ2855_	54S	
Name of field of study: Economics and IT A	pplications								
Mode and cycle of study: first-degree, full - tim	ne		Profile of study general aca	y: ademic		Specialty	y:		
Course / module status elective		I			Language of semester:	instruction: : 4 - english langu	lage, semester: 5	- english	
language, semester: 6 - english language							giish language		
Year	Semeste	Semester Form of instruction No. of hours Type of creation		Type of credit	E	ECTS			
2	4		semina	arium	15	0	pg		1
3	5		semina	arium	15	0	pg		1
	6		semina	arium	15	0	pg		8
Total					4	5			10
Course / module coordinator	dr hab. RAFA	Ł NAG	AJ						
Course instructor	dr hab. JACE	K BAT	ÓG						
Course / module objectives	The aim of the	e semi	nar is to seled	ct a topic,	formulate a goal a	and research hypot	heses and write a m	aster thes	sis.
Prerequisites	Student has k	nowle	dge, skills an	d compete	ences in the field	of economics studie	es of the first degre	e.	
				LEARNI	NG OUTCOMES				
Category		No.	Code	Description Ref. to programme benchmarks				orogramme hmarks	
		1	EP1	has kn a goal	owledge of how and research hy	v to choose a subj /potheses	ect and formulate	к _	W06
knowledge		2	EP2	is fami the fiel	liar with availab d of economic s	le and useful rese sciences	earch methods in	K_ K_ K_	W05 W06 W10
skills		1	EP3	is able his ma conclu	to create coher ster thesis from sions	ent texts, to cons them and to form	truct chapters of nulate research	K_ K_	_U05 _U06
social competences		1	EP4	unders	tands the need	for lifelong learni	ng	К_	K02
								No. of	f hours
			CONTENT				Semester		w tym e- learning
Subject title: seminarium	n dyplomowe (se	emina	r)				I		
Format of instruction: se	minarium								
1. Basics of conducting Bachelor thesis	1. Basics of conducting scientific research methodology. Presentation of the form and content of the Bachelor thesis 4 8 0						0		
2. Selection of the diplo	oma thesis topic	accor	ding to intere	ests and s	pecialization		4	7	0
3. Presentation of the f	ormal requireme	ents fo	r the diploma	thesis			5	1	0
4. Preparation and pres	sentation of esse	eys rel	ated to the to	pic of the	thesis		5	4	0
5. Formulating and corr research	recting the thesi	is chap	oters with reg	jard to the	topic, objective a	and scope of the	5	2	0
6. Discussion on the ch the thesis	noice of methods	s and f	formulating th	he chapter	on the methodol	ogical aspects of	5	4	0
7. Presentation of the theoretical chapters of the thesis and their acceptance 5 4 0							0		

8. Presentation and evalu	8. Presentation and evaluation of gathered data, neccessary for constructing the empirical part of the 6 4 0								
9. Presentation of results	s and dis	cussion of the con	clusions of the conducted analytical resear	ch		6	3	0	
10. Formulating and pres	entation	of empirical part of	of the thesis			6	4	0	
11. Final formulating of e	empirical	part and overall th	esis construction			6	4	0	
Modes of delivery Lectures, discussions, multimedia presentations									
								No. of learning outcome from the syllabus	
Assessment methods									
Assessment methods	PRAC	A DYPLOMOWA	RECENZJA				EP1,EP2	EP3,EP4	
	Metody	i formy weryfikacji ef	ektów uczenia si mog zosta zmienione dla stud	lentów ze sz	zczególn	ymi potrzeba	mi na waru	nkach i	
	zasadad	h okre lonych w Reg	ulaminie Studiów Uniwersytetu Szczeci skiego.						
	Passir	ng in the form of ar	assessment of the prepared essay, outline	and subse	equent p	parts and th	e entire th	nesis	
Grading criteria	Grade	calculation principle	S						
	The grade for a course is equal to the grade for credit								
	Sem.	em. Course Type of credit Grade c metho						ght for the verage	
	4	seminarium dyplo	mowe (seminar)		Nieobliczan	а			
Final grade calculation	4	seminarium dyplo	mowe (seminar) [seminarium]	zaliczenie ocen	z				
method	5	seminarium dyplo	omowe (seminar)		-	Nieobliczan	а		
	5	seminarium dyplo	mowe (seminar) [seminarium] ocen		2				
	6	seminarium dyplo	mowe (seminar)	zaliczenie	7	Nieobliczan	a		
	6	seminarium dyplo	mowe (seminar) [seminarium]	ocen	-				
Basic reading	Literat	ure depending on th	e subject of research						
Supplementary reading	Literat	ure depending on th	e subject of research						
			STUDENT WORKLOAD						
			No. of hours						
				W tym	n e-learning				
Contact hours			45	0					
Participation in test / ex	am		0	0					
Preparation for contact	hours		25	0					
Private reading and stue	dying		46	0					
Participation in tutorials			20	0					
Preparation of project /	essay /	etc.	114	0					
Preparation for test / ex	am		0	0					
TOTAL workload			250						
ECTS credits			10						

Cause link: consistent (descriptione statistics) constraints with the statistics of st	Curriculum title: USEFZ-EaITA-O-I-S-2	23/24Z							
Name of field of study: Economics and If Applications Mode and cycle of study: first-degree, full - time Profile of study: first-degree, full - time Prear Semester Profile of study: Semester Profile of study: first-degree, full - time Prear Semester Profile of study: first-degree, full - time Prear Semester Profile of study: first-degree full - time first-fuel of study: first-degree full - time Prear Semester Profile of study: first-degree full - time first-fuel of study: first-degree full - time Prear Semester Profile of study: first-degree full - time first-fuel of study: first-degree full - time first-degree full - time first-fuel of study: first-degree full - time first-fuel of study: first-degree full - time first-degree full - time first-fuel of study: first-degree full - time first-fuel of study: first-degree full - time first-degree full - time fir	Course title: statystyka opisowa ((KIERUNKOWE)	descriptive st	atistic	:s)				Course code: US71AIJ2856_9	S
Mode and cycle of study: first-degree, full - time Profile of study: general academic Speciality: Course / module status obligatory Semester Form of instruction No. of hours semester: 1 - english language Type of credit ECTS 1 1 1 Isboratory 15 0 pg 4 1 1 Isboratory 15 0 pg 4 Course / module coordinator dr KRZYSZTOF DMYTRÓW 45 4 4 Course / module coordinator dr ACXYSZTOF DMYTRÓW Eccurse instructor 4 4 Course / module coordinator dr Course is to acquire basic knowledge on a quantitative description of economic and social phenomena as well as ability to present the results of research, based on primary or secondary data. K. K. Perequisitas - knowledge of basic economic concepts, - knowledge of basic	Name of field of study: Economics and IT A	pplications							
Course / module status obligatory Language of instruction semester: 1 - english language ECTS Year Semester Form of instruction No. of hours Type of credit ECTS 1 1 Ediscussion classes 15 0 pg 4 1 1 Iaboratory 15 0 pg 4 Course / module coordinator dr KRZYSZTOF DMYTRÓW 45 4 4 Course / module coordinator dr COMINIK ROZKRUT 4 4 4 Course / module cognetives dr KRZYSZTOF DMYTRÓW Ectras 4 4 Course / module coordinator dr COMINIK ROZKRUT 4 4 4 Course / module conser / module coordinator dr Bean ability to present the results of research, based on primary or secondary data. 5 4 Pretequisites - knowledge or basic economic concepts, - kno	Mode and cycle of study: first-degree, full - tin	ne		Profile of study general aca	: idemic		Specialt	y:	
Year Semester Form of instruction No. of hours Type of credit ECTS 1 1 1 discussion classes 15 0 pg 4 1 1 1 discussion classes 15 0 pg 4 Course (module coordinator dr KR2YSZTOF DMYTRÓW 45 4 4 Course (module occordinator dr KR2YSZTOF DMYTRÓW 4 4 4 Course (module objectives dr KR2YSZTOF DMYTRÓW 4 4 4 Course (module objectives dr CMUNIK ROZKRUT 4 4 4 Course (module objectives dr DOMINIK ROZKRUT 5 4 4 Course (module objectives dr DOMINIK ROZKRUT 5 4 5 4 Course (module objectives dr DOMINIK ROZKRUT EARNING OUTCOMES 5 4 5 4 5 Category No. Code Description Ref. to programme social and economic characteristics, their properties, measurement sociales, student knows how to describle dynamice and relationships. K	Course / module status obligatory		I			Language o	of instruction: r: 1 - english langu	lage	
Year Semester Instruction instruction wyme+tearning wyme+tearning Type of credit Pg ECTS 1 1 1 iscussion classes 15 0 pg 4 1 1 1 1 0 pg 4 4 Course instructor dr KR2YSZTOF DMYTRÓW 45 4 4 4 Course instructor dr DMINIK ROZKRUT 45 4 4 4 Course instructor dr DOMINIK ROZKRUT The aim of the course is to acquire basic knowledge on a quantitative description of economic and social phenomena as well as ability to present the results in module 4 4 Course instructor dr DOMINIK ROZKRUT LEARNING OUTCOMES 8 4 Course instructor dr DOMINIK ROZKRUT EEARNING OUTCOMES 8 4 6 Category No. Code Description Ref. to programme social social and economic characteristics, their properties, measurement social social and economic solences. 4 W10 knowledge 1 EP1 Student knows the presearch methods in the social fk. W106 K. W10				Form	of	No. o	fhours		
$\begin{array}{ c c c c c } 1 & 1 & \frac{\begin{timesky}{ c c c c } \begin{timesky}{ c c c c c c } \hline 15 & 0 & pg \\ \hline \begin{timesky}{ c c c c c c c c c c c c c c c c c c c$	Year	Semeste	ər	instruc	tion		w tym e-learning	Type of credit	ECTS
$ \begin{array}{c c c c c c } 1 & 1 & 1 & 1 & 0 & pg & 4 \\ \hline \begin{tigned} c c c c c c c c c c c c c c c c c c c$				discussion	classes	15	0	pg	
$ \begin{array}{c c c c c c c } \hline \begin{tabular}{ c c c c c } \hline \begin{tabular}{ c c c c c c c } \hline \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	1	1		laborat	tory	15	0	pg	4
TotalImage: constraint of the course is to acquire back knowledge on a quantitative description of economic and social phenomena as well as ability to present the results of research, based on primary or secondary data.4Course instructordr KRZYSZTOF DMTTRÓWCourse instructorThe aim of the course is to acquire back knowledge on a quantitative description of economic and social phenomena as well as ability to present the results of research, based on primary or secondary data.Prerequisites- knowledge of basic economic concepts, - knowledge and abilities from the "Mathematics" moduleCategoryNo.CodeDescriptionCategoryNo.CodeDescriptionKnowledge1EP1Student knows the parameters describing the social concepts, economic characteristics, their properties, measurement scales, student knows the other course to social and economic sciences.K. W10knowledge2EP2Student knows the parameters describing the social and economic sciences.K. W10sciences and methods of measurement specific for social and economic sciences.Student knows the methods of presentation of the study of primary and secondary data, taking into account.K. W10stills2EP3Student is able to quantitatively describe the social economic characteristics of the populations and distribution.K. W10stills2EP6Student is able to describe dynamics of phenomena, use economic indices.K. U10stills1EP7Student is able to describe dynamics of phenomena, use economic indices.K. U06scial competences1EP6Student is able to describe dynami				lectu	re	15	0	е	
Course instructor course instructor dr KR2YSZTOF DMYTRÓW Course instructor objectives dr DOMINIK ROZKRUT Course instructor objectives The aim of the course is to acquire basic knowledge on a quantitative description of economic and social phenomena as well as ability to present the results of research, based on primary or secondary data. Prerequisites - Knowledge of basic economic concepts, - knowledge of basic economic concepts, - knowledge and abilities from the "Mathematics" module Ref. to programme benchmarks Category No. Code Description Ref. to programme benchmarks Knowledge fastic economic concepts, - knowledge Ref. to programme benchmarks knowledge fastic economic concepts, - knowledge 1 Ref. to programme Mathematics" module Category No. Code Description Ref. to programme benchmarks 2 EP1 Student knows the parameters describing the socioeconomic characteristics, their properties, measurement scales, student knows how to describe sciences and methods of measurement specific for social and economic sciences. K_W106 3 EP3 Student knows the methods of presentation of the study of primary and secondary data. K_W106 Skills 2	Total						45		4
Course instructor dr DOMINIK ROZKRUT Course / module objectives The aim of the course is to acquire basic knowledge on a quantitative description of economic and social phenomena as well as ability to present the results of research, based on primary or secondary data. Prerequisites - knowledge of basic economic concepts, - knowledge and abilities from the "Mathematics" module Category No. Code Description Ref. to programme benchmarks Knowledge 1 EP1 Student knows the parameters describing the socioeconomic characteristics, their properties, measurement scales, student knows how to describe dynamics and relationships. KW10 knowledge 2 EP2 Student knows the research methods in the social sciences and methods of measurement specific for social and economic sciences. KW06 KW10 skills 1 EP3 Student knows the methods in the social sciences and methods of presentation of the study of primary and secondary data, taking into account characteristics of the populations and distributions. KW06 KU10 skills 2 EP5 Student is able to estimate strength and direction of relationships. KU06 KU10 scial competences 1 EP6 Student is able to describe dynamics of phenomena, use economic indices. KU06 KU10 social competences </td <td>Course / module coordinator</td> <td>dr KRZYSZTO</td> <td>OF DM</td> <td>YTRÓW</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Course / module coordinator	dr KRZYSZTO	OF DM	YTRÓW					
Course / module objectives The aim of the course is to acquire basic knowledge on a quantitative description of economic and social phenomena objectives Prerequisites - knowledge of basic economic concepts, - knowledge and abilities from the "Mathematics" module - Knowledge and abilities from the "Mathematics" module Category No. Code Description Ref. to programme benchmarks Ref. to compare the "Mathematics" module Category No. Code Description Ref. to programme benchmarks knowledge 1 EP1 Student knows the parameters describing the sociol coconomic characteristics, their properties, measurement scales, student knows how to describe dynamics and relationships. K_W10 Student knows the research methods in the social sciences and methods of presentation of the study of primary and secondary data, taking into account characteristics of the populations and distributions. K_W06 Student knows the methods of presentation of the study of primary and secondary data. K_W06 Student knows the methods of presentation of the study of primary and secondary data. K_W06 Student knows the methods of presentation of the study of primary and s	Course instructor	dr DOMINIK R	OZKR	UT					
Prerequisites • knowledge of basic economic concepts, • knowledge and abilities from the "Mathematics" module Category No. Code Description Ref. to programme benchmarks Category No. Code Description Ref. to programme benchmarks Knowledge 1 EP1 Student knows the parameters describing the socioeconomic characteristics, their properties, measurement scales, student knows how to describe dynamics and relationships. K_w10 knowledge 2 EP2 Student knows the research methods in the social social and economic sciences. K_w06 K_W10 skills 2 EP3 Student knows the methods of presentation of the study of primary and secondary data, taking into account characteristics of the populations and distributions K_W06 K_W10 skills 2 EP3 Student is able to quantitatively describe the socio- economic phenomena on the basis of both primary and secondary data. K_W06 K_U10 skills 2 EP6 Student is able to describe dynamics of phenomena.use economic indices. K_W06 K_U10 social competences 1 EP7 Student is ready to use results of surveys conducted by mational statistical institutes, including acknowledging the importance and consequences of cooperation with public statistics institution. No. of hours	Course / module objectives	The aim of the as well as abi	e cours lity to	se is to acquir present the re	e basic kno sults of res	owledge on a q search, based o	uantitative description primary or second	on of economic and s lary data.	social phenomena
Category No. Code Description Ref. to programme benchmarks knowledge 1 EP1 Student knows the parameters describing the socioeconomic characteristics, their properties, measurement scales, student knows how to describe dynamics and relationships. KW10 knowledge 2 EP2 Student knows the research methods in the social sciences and methods of measurement specific for social and economic sciences. KW06 3 EP3 Student knows the methods of presentation of the study of primary and secondary data, taking into account characteristics of the populations and distributions. KW06 skills 1 EP4 Student is able to quantitatively describe the socio-economic primary and secondary data. KU06 skills 2 EP5 Student is able to estimate strength and direction of relationships. KU10 social competences 1 EP6 Student is able to describe dynamics of phenomena, use economic indices. KU10 social competences 1 EP7 Student is able to describe dynamics of phenomena, use economic indices. KU10 social competences 1 EP7 Student is able to describe dynamics of phenomena, use economic indices. KU105 so	Prerequisites	- knowledge o - knowledge a	of basi and abi	c economic co ilities from the	oncepts, e "Mathema	itics" module			
Category No. Code Description Ref. to programme benchmarks I EP1 Student knows the parameters describing the socioeconomic characteristics, their properties, measurement scales, student knows how to describe dynamics and relationships. K_W10 knowledge 2 EP2 Student knows the research methods in the social sciences and methods of measurement specific for social and economic sciences. K_W06 K_W10 3 EP3 Student knows the methods of presentation of the study of primary and secondary data, taking into account characteristics of the populations and distributions. K_W06 K_W10 skills 1 EP4 Student is able to quantitatively describe the socio- economic phenomena on the basis of both primary and secondary data. K_U06 K_U10 K_U10 K_U10 skills 2 EP5 Student is able to describe dynamics of phenomena, use economic indices. K_U05 K_U10 social competences 1 EP6 Student is able to describe dynamics of phenomena, use economic indices. K_U05 K_U10 social competences 1 EP7 Student is ready to use results of surveys conducted by national statistical institutes, including acknowledging the importance and consequences of cooperation with public statistics institution. No. of hours					LEARNIN	G OUTCOMES			
Image: second	Category		No.	Code	Descripti	on			Ref. to programme benchmarks
knowledge 2 EP2 Student knows the research methods in the social sciences and methods of measurement specific for social and economic sciences. K_W06 K_W10 3 EP3 Student knows the methods of presentation of the study of primary and secondary data, taking into account characteristics of the populations and distributions. K_W06 K_W10 skills 1 EP4 Student is able to quantitatively describe the socio-economic phenomena on the basis of both primary and secondary data. K_U06 K_U10 skills 2 EP5 Student is able to estimate strength and direction of relationships. K_U05 K_U10 3 EP6 Student is able to describe dynamics of phenomena, use economic indices. K_U05 K_U10 social competences 1 EP7 Student is ready to use results of surveys conducted by national statistical institutes, including acknowledging the importance and consequences of cooperation with public statistics institution. K_K02			1	EP1	Student socioeco measure dynamic	knows the pa onomic chara ement scales, is and relation	arameters describi acteristics, their pr student knows ho nships.	ng the operties, ow to describe	K_W10
3 EP3 Student knows the methods of presentation of the study of primary and secondary data, taking into account characteristics of the populations and distributions. K_W06 1 EP3 Student is able to quantitatively describe the socio-economic phenomena on the basis of both primary and secondary data. K_U06 2 EP5 Student is able to estimate strength and direction of relationships. K_U05 3 EP6 Student is able to describe dynamics of phenomena, use economic indices. K_U05 social competences 1 EP7 Student is ready to use results of surveys conducted big the importance and consequences of cooperation with public statistics institution. K_U05 social competences 1 EP7 Student is ready to use results of surveys conducted big the importance and consequences of cooperation with public statistics institution. No. of hours	knowledge		2	EP2	Student sciences social a	knows the re s and method nd economic	search methods ir s of measurement sciences.	n the social specific for	K_W06 K_W10
skills 1 EP4 Student is able to quantitatively describe the socio-economic phenomena on the basis of both primary and secondary data. K_U06 K_U10 K_U15 2 EP5 Student is able to estimate strength and direction of relationships. K_U06 K_U10 K_U15 3 EP6 Student is able to describe dynamics of phenomena, use economic indices. K_U05 K_U06 K_U10 social competences 1 EP7 Student is ready to use results of surveys conducted by national statistical institutes, including acknowledging the importance and consequences of cooperation with public statistics institution. K_K02 No. of hours			3	EP3	Student of prima characte	knows the mary and secon eristics of the	ethods of presenta dary data, taking i populations and c	ation of the study nto account listributions.	K_W06 K_W10
skills 2 EP5 Student is able to estimate strength and direction of relationships. K_U05 K_U10 3 EP6 Student is able to describe dynamics of phenomena, use economic indices. K_U05 K_U10 social competences 1 EP7 Student is ready to use results of surveys conducted by national statistical institutes, including acknowledging the importance and consequences of cooperation with public statistics institution. K_K02 EP7 EP7 Semester No. of hours			1	EP4	Student econom seconda	is able to qua ic phenomena iry data.	antitatively describ a on the basis of b	e the socio- oth primary and	K_U06 K_U10 K_U15
3 EP6 Student is able to describe dynamics of phenomena, use economic indices. K_U05 K_U10 social competences 1 EP7 Student is ready to use results of surveys conducted by national statistical institutes, including acknowledging the importance and consequences of cooperation with public statistics institution. K_K02 EP7 CONTENT Semester No. of hours	skills		2	EP5	Student relations	is able to est ships.	imate strength and	direction of	K_U05 K_U06 K_U10
social competences 1 EP7 Student is ready to use results of surveys conducted by national statistical institutes, including acknowledging the importance and consequences of cooperation with public statistics institution. K_K02 CONTENT No. of hours w tym e-learning			3	EP6	Student econom	is able to des ic indices.	scribe dynamics of	f phenomena, use	K_U05 K_U10
CONTENT Semester No. of hours w tym e- learning	social competences		1	EP7	Student national the impo public s	is ready to us statistical ins ortance and c tatistics instit	se results of surve stitutes, including onsequences of co tution.	ys conducted by acknowledging ooperation with	K_K02
w tym e- learning				CONTENT				Semester	No. of hours
									w tym e- learning

Format of instruction: lectur	e									
1. Types of statistical surviyes of variables, measu structure of mass process	reys, definition of statistical unit, population and sample, statistical surveys; rement scales, methods of data presentation, measurement scales. The ses.	1	2	0						
2. One-dimensional popul measures of central tende	2. One-dimensional populations, empirical distributions, moments and quantiles for metric scales, measures of central tendency, measures of dispersion, measures of skewness, measures of kurtosis. 1 3 0									
3. Correlation coefficients, Chi2, variance equality. Multidimensional analysis, partial correlations 1 4 0 dimensional populations, tables, ranks, types of relationships. 1 4 0										
4. Empirical and theoretical regressions, the method of least squares for linear regression, measures of 1 2 0										
5. Measurement of dynamics of economic and social phenomena. Time series, chronological mean. 1 2 0 Analysis of shortterm changes, individual indices, the average rate of change, average absolute change. 1 2 0										
Aggregate indices. Frice indices. Aggregate indices for relative values. 1 2 0 6. Decomposition of time series, trend and seasonality. Linear and exponential trend. Additive and 1 2 0										
Format of instruction: discu	ssion classes									
1. Statistics, populations, tendency, dispersion, ske	data, notation, tables and charts, measurement scales. Measures of central wness, kurtosis.	1	5	0						
2. Correlation and regress - correlation series and co - correlation coefficients: correlation coefficient, - empirical and theoretica	ion analysis: ontingency table, Tschuprow's, Spearman's rank, correlation ratios, Pearson product-moment regression lines.	1	5	0						
3. Analysis of dynamics: - short-term analysis: diff - long-term analysis: anal	erences and indexes, ysis of trends and seasonality.	1	5	0						
Format of instruction: labor	atory		•							
1. Statistics, populations, tendency, dispersion, ske	data, notation, tables and charts, measurement scales. Measures of central wness, kurtosis,	1	5	0						
2. Correlation and regress - correlation series and co - correlation coefficients: correlation coefficient, - empirical and theoretica	ion analysis: ntingency table, Tschuprow's, Spearman's rank, correlation ratios, Pearson product-moment regression lines.	1	5	0						
3. Analysis of dynamics: - short-term analysis: diff	erences and indexes	1	5	0						
- long-term analysis: anal	/sis of trends and seasonality.		unah of	<u> </u>						
Modes of delivery	socioeconomic phenomena, exercises and laboratories - working individually	and in groups.								
			No. of le outcome sylla	earning from the bus						
	EGZAMIN PISEMNY	EP1,EP2,EP3								
Assessment methods	KOLOKWIUM		EP4,EP5,	EP6						
	PROJEKT		EP4,EP5,EP6,EP7							
	Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze sz zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.	zczególnymi potrzeba	ami na warur	Ikach i						
	The form and terms of the lectures: A written exam consisting of 7 single-choice and 3 multiple-choice test questions students. Students can obtain up to 10 points. There are the following threshold	ons. The exam test	s the know	ledge of						

Grade 3.0 - at least 50%.
Grade 3.5 - at least 70%.
Grade 4.0 - at least 80%.
Grade 4.5 - at least 90%.
Grade 5.0 - at least 95%.

Grade calculation principles

The final grade is a simple arithmetic mean of the grades obtained from the lecture, classes and laboratories.

	Sem.	Course		Type of credit	Grade calc. method	Weight for the average			
	1	statystyka opisowa	a (descriptive statistics)		Arytmetyczna				
Final grade calculation method	1	statystyka opisowa	a (descriptive statistics) [laboratorium]	zaliczenie z					
	1	statystyka opisowa	a (descriptive statistics) [wykład]	egzamin					
	1	statystyka opisowa	a (descriptive statistics) [wiczenia]	zaliczenie z ocen					
	Aczel A	A., Sounderpandian	J. (2009): Complete Business Statistics 7th E	dition, McGraw-H	ill/Irwin				
Basic reading	B k I., CeDeV	Markowicz I., Mojsie Vu, Warszawa	wicz M., Wawrzyniak K. (2021): Formulas and Tables. Statistical and Econometric Methods,						
	Cleff. T SPSS,	Cleff. T. (2019): Applied Statistics and Multivariate Data Analysis for Business and Economics. A Modern Approach Using SPSS, Stata, and Excel, Springer, Cham							
Supplementary reading	plementary reading Statistical yearbooks, monthly information on the economic situation of the country, monthly information on price developments in the national economy : , Publications of Central Statistical Office of Poland								
STUDENT WORKLOAD									
			No. of hours						
				W tym e-learning					
Contact hours			45	0	0				
Participation in test / exa	am		7	0					
Preparation for contact h	nours		14	0					
Private reading and stud	lying		7	0					
Participation in tutorials			14	0					
Preparation of project / e	essay / e	etc.	13	0					
Preparation for test / exa	am		0	0					
TOTAL workload			100						
ECTS credits			4						

Curriculum title:
LISEE7-EaITA-O-I-S-23/247

Unit: University-wide lectu	re (wykład og	jólnoi	uczelniany)									
Course title: subject (przedmiot) (OGÓLNOUCZELNIANE) Course code: EFZ71AIJ3362_4							_4S					
Name of field of study: Economics and IT Ap	plications											
Mode and cycle of study: first-degree, full - time	9		Profile of study general aca	/: ademic				Specialty	:			
Course / module status Language of instruction: elective semester: 3 - english langua						age						
			Form	of		No. of	hours					
Year	Semeste	ter instruction		tion			w tym e-learning		Type of credit		ECTS	
2	3		lectu	ire		15	0		pg		1	
Total						1	5				1	
Course / module coordinator	dr hab. RAFA	ŁNAG	B AJ									
Course instructor	Course instructor											
Course / module objectives	Course / module objectives Familiarizing students with research issues in the field and discipline. Encouraging the student to research.											
Prerequisites	No prerequisi	tes										
				LEARNIN	IG OL	JTCOMES						
Category		No.	Code	Descriptio	on					Ref. to bend	Ref. to programme benchmarks	
knowledge		1	EP1	Student scientific	kno c pro	ws and un oblems inc	derstands luded in (s the mo course.	st important	K_	_W16	
		1	EP2	Student course is	is al ssue	ble to use t es.	the termin	nology a	ppropriate for the	K.	K_U18	
SKIIIS		2	EP3	Student on the life	t can independently prepare a short essey based iterature on the subject.				K.	_U17		
social competences		1	EP4	Student assess t	is re the le	eady to thin evel of his	nk indepe knowledg	ndently ge.	and to critically	K.	_K04	
			CONTENT						Comotor	No. c	f hours	
			CONTENT						Semester		w tym e- learning	
Subject title: subject (prz	edmiot)								1			
Format of instruction: lect	ure											
1. Presentation of the pr	oblems of the l	lectur	e and the requ	irements fo	or pa	ssing the co	ourse.		3	2	0	
2. Providing literature an literature.	nd sources use	d duri	ing the lecture	e, referring t	the s	tudent to su	Ipplementa	ary	3	2	0	
3. Presentation of speci	fic issues withi	n the	scope the mo	nographic le	lectur	re.			3	10	0	
4. Summary and final co	onclusions.								3	1	0	
Modes of delivery	lecture											

						No. of learning outcome from the syllabus				
Assessment methods	PRAC	A PISEMNA/ ESEJ	EP1,EP2,EP3,EP4							
Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze szczególnymi potrzeb zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.										
Positive evaluation of the written work.										
Grading criteria	Grade	calculation principle	95							
	The fi	The final grade for the subject is the grade from the lecture.								
Final grade calculation	Sem.	Course		Type of credit	Grade cal method	c. Weight for the average				
method	3	subject (przedmic	t)		Wa ona					
	3	subject (przedmic	t) [wykład]	zaliczenie z ocen		1,00				
Basic reading	Literar	ura zostanie podana	a na wykładzie zgodnie z jego tematyk .:							
Supplementary reading	Wybra	ne pozycje wskazar	ne studentowi. :							
			STUDENT WORKLOAD							
			No. of hours							
				W tym e-lea	W tym e-learning					
Contact hours			15	0						
Participation in test / ex	am		0	0						
Preparation for contact	hours		0	0						
Private reading and stu	dying		2	0						
Participation in tutorials	6		3	0						
Preparation of project /	essay /	etc.	5	0						
Preparation for test / ex	am		0 0							
TOTAL workload			25							
ECTS credits			1							

Curricu	lum title:		

USEFZ-EaITA-O-I-S-23/24Z

	0/2 .2										
Unit: University-wide lectu	re (wykład og	ólnou	uczelniany) [moduł]							
Course title: subject (przedmiot) (OGÓLNOUCZELNIA)	NE)								Course code: EFZ71AIJ3362	_6S	
Name of field of study: Economics and IT Ap	plications										
Mode and cycle of study: first-degree, full - tim	e		Profile of study general aca	/: ademic				Specialty	:		
Course / module status elective		I				Language of semester:	instruction: 4 - englis	sh langu	age		
			Form	of		No. of	hours				
Year	Semeste	Semester		instruction			w tym e-learning		Type of credit		ECTS
2	4		lectu	lecture		15	0		pg		1
Total						1	5				1
Course / module coordinator	dr hab. RAFA	Ł NAG	βAJ	·				·			
Course instructor											
Course / module objectives	Course / module objectives Familiarizing students with research issues in the field and discipline. Encouraging the student to research.										
Prerequisites	No prerequisi	tes									
				LEARNIN	NG C	OUTCOMES					
Category		No.	Code	Descript	ion					Ref. to bene	programme chmarks
knowledge		1	EP1	Student scientif	t kn ic p	ows and un roblems inc	derstands luded in t	s the mo the cour:	st important se.	K K	_W01 _W16
		1	EP2	Student course	t is a issu	able to use ues.	the termin	nology a	ppropriate for the	e K	_U18
SKIIIS		2	EP3	Student on the I	t cai itera	n independe ature on the	ently prep e subject.	are a sh	ort essay based	ĸ	_U17
social competences		1	EP4	Student assess	t is ı the	ready to thi level of his	nk indepe knowledg	ndently ge.	and to critically	ĸ	_K04
			OONTENT						0	No. c	of hours
			CONTENT						Semester		w tym e- learning
Subject title: subject (prz	edmiot)										. <u> </u>
Format of instruction: lect	ure										•
1. Presentation of the p	oblems of the l	lecture	e and the requ	irements f	ior p	assing the co	ourse.		4	2	0
2. Providing literature a literature.	nd sources use	d duri	ng the lecture	e, referring	the	student to su	upplementa	ary	4	2	0
3. Presentation of speci	fic issues withi	n the s	scope of the n	nonograph	nic le	ecture.			4	10	0
4. Summary and final co	onclusions.								4	1	0
Modes of delivery	Lecture										

						No. of learning outcome from the syllabus		
Assessment methods	PRAC	A PISEMNA/ ESEJ	ESEJ/ RECENZJA					
Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze szczególnymi potrzeb zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.								
Positive evaluation of the written work.								
Grading criteria	Grade	calculation principle	95					
	The fi	nal grade for the s	ubject is the grade of the lecture.					
Final grade calculation	Sem.	Course		Type of credit	Grade cal method	c. Weight for the average		
method	4	subject (przedmio	t)		Wa ona			
	4	subject (przedmio	t) [wykład]	zaliczenie z ocen		1,00		
Basic reading	Literat	ura zostanie podana	a na wykładzie zgodnie z jego tematyk .:					
Supplementary reading	Wybra	ne pozycje wskazar	ne studentowi. :					
			STUDENT WORKLOAD					
			No. of hours					
				W tym e-lea	W tym e-learning			
Contact hours			15	0				
Participation in test / ex	am		0	0				
Preparation for contact	hours		0	0				
Private reading and stu	dying		3	0				
Participation in tutorials			2	0				
Preparation of project /	essay /	etc.	5	0				
Preparation for test / ex	am		0 0					
TOTAL workload			25					
ECTS credits			1					

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z

03212-24114-0-1-3-2	23/242									
Unit: In ynieria informatyd	czna biznesu (IT eng	gineering in	business)	[moduł]					
Course title: systemy mobilne (mo (KIERUNKOWE)	obile systems)						Course code: US71AIJ2717_	49S	
Name of field of study: Economics and IT A	pplications									
Mode and cycle of study: Profile of study: Specialty: first-degree, full - time general academic										
Course / module status elective					Language o semester	f instruction: : 4 - english la	ngua	ge		
			Form	of	No. o	fhours				
Year	Semeste	ər	instruc	instruction		w tym e-learning		Type of credit	E	CTS
2	4		labora	laboratory		0		pg		2
Total						15				2
Course / module coordinator	dr TOMASZ Z	DZIEB	ко							
Course instructor	dr TOMASZ Z	DZIEB	ко							
Course / module objectives The aim is to provide knowledge on technologies used in mobile devices, skills in using them by end-users and designers to design application for mobile devices							Ind			
Prerequisites	Student has g	jood ki	nowledge abo	out usage ar	nd limitations o	f mobile applicat	tions			
				LEARNIN	G OUTCOMES					
Category		No. Code Description Ref. to plend				orogramme hmarks				
		1	EP1	has know design m	as knowledge on tools and methodologies used to K_V esign mobile devices K_V					W08 W13 W15
knowledge		2	EP2	has knowledge on designing mobile applications					K_ K_ K_	W08 W13 W15
skills		1	EP3	has abili	ty to design a	and prototype n	nobi	le applications	К_	_U08
social competences		1	EP4	can thinl	c out ways of	monetizing mo	obile	applications	κ_	_K01
			CONTENT					Semester	No. of	f hours
								Comocion		w tym e- learning
Subject title: systemy m	obilne (mobile s	system	s)							
Format of instruction: lab	oratory								1	1
1. Usability and User E	xperience Desig	jn						4	3	0
2. Design for Mobile Co	onstraints							4	2	0
3. Requirements specif	ication							4	2	0
4. Application prototyp	ing							4	4	0
5. Monetization of mob	ile apps							4	2	0
6. Presentations of gro	a. Presentations of group projects with discussion and evaluation 4 2 0									

Modes of delivery	- proje - grou - solvi - appli	ect work p work ng tasks cation design, app	lication prototyping							
		u uton u oongooy (₁ , ₁ ,					No outo). of learning come from the syllabus		
Assessment methods	SPRA	SPRAWDZIAN								
	PROJ	EKT					EP1,EP3,EP4			
	Metody zasadad	i formy weryfikacji ef ch okre lonych w Reg	ektów uczenia si mog zosta zmienione o julaminie Studiów Uniwersytetu Szczeci sk	dla studen kiego.	tów ze szczegó	Inymi potrzeba	ami na v	warunkach i		
	The cr - evalu - grou	edit for laboratory ation from perform p project in the fiel	classes consists of two parts: ning exercises (tasks) during laborato d of mobile application design (50 poi	ory classe ints).	es (50 points),					
Grading criteria	Grade	calculation principle	S							
	The fi	nal grade is equal t	o the grade obtained for the laborator	ry classes	S.					
Final grade calculation	Sem.	Course		г	Type of credit	Grade cal method	с.	Weight for the average		
method	4	systemy mobilne	(mobile systems)		<u>,. </u>	Nieobliczana				
	4	systemy mobilne	(mobile systems) [laboratorium]	aliczenie z zen						
Desis and the s	J. Niel	sen (2014): Mobile l	Jsability, New Riders							
Basic reading	Steve Matter	Krug (2013): Don't N) 3rd Edition, New R	Make Me Think, Revisited: A Common Sense Approach to Web Usability (3rd Edition) (Voices That Riders							
Supplementary reading	Dharm	a Prakash Agrawal	(2016): Introduction to Wireless & Mobile Systems, 4th Edition, Cengage Learning, Boston							
Supplementary reading	(2013)	: MIT App Inventor,	, http://appinventor.mit.edu/							
			STUDENT WORKLOAD							
			No. of hours							
					W tym e-lea	rning				
Contact hours			15		0					
Participation in test / ex	am		0		0					
Preparation for contact	hours		9		0					
Private reading and stu	dying		6		0					
Participation in tutorials			9		0					
Preparation of project /	essay /	etc.	11		0					
Preparation for test / ex	am		0		0					
TOTAL workload			50							
ECTS credits			2							

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Course title: Course code: systemy pozyskiwania danych (data acquisition systems) EFZ71AIJ3432_2S (KIERUNKOWE) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Profile of study: Specialty: general academic first-degree, full - time Course / module status Language of instruction: semester: 1 - english language obligatory No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning discussion classes 15 0 pg 1 1 3 15 0 lecture pg Total 30 3 Course / module dr DOMINIK ROZKRUT coordinator Course instructor dr DOMINIK ROZKRUT - gaining abilities of aquiring data from different sources - gaining knowledge about information system of public statistics in Poland and in European Union Course / module - aquiring abilities to find and evaluate the quality of data sources objectives - providing students with an understanding of the impact that information and the systems that manage it have on the ways in which information is gathered, processed, stored and disseminated in society - knowledge and abilities from "Statistics" course Prerequisites - knowledge and abilities from "Macroeconomics" course LEARNING OUTCOMES Ref. to programme benchmarks Category No. Code Description Student knows the structure and organization of public EP1 K_W11 1 statistics in Poland and European Union. Student knows the official data sources and methods of 2 EP2 knowledge K_W10 their acquisition. Student knows the statistical surveys programme of the EP3 3 K_W01 public statistics in Poland. Student is able to define information needs, find and K_U10 EP4 1 evaluate data sources. K_U17 K U08 Student is able to classify data and present tchem skills EP5 2 K_U10 accordingly. K_U17 Student is able to use data acquisition techniques in K U10 EP6 3 order to diagnose economic processes. K U17 Student uses results of surveys conducted by statistical institutions, including acknowledging the importance and EP7 1 K K02 social competences consequences of cooperation with public statistics institution. No. of hours CONTENT Semester w tvm elearning Subject title: systemy pozyskiwania danych (data acquisition systems) Format of instruction: lecture 1. Definition of information, types and functions of information in economy. Economics of information. 2 1 0 Information processes and data acquisition techniques. Types of statistical surveys. 2. Data structures. Electronic data exchange protocols. 1 2 0

3. State mormation mira	3. State information infrastructure. Main resources of state information infrastructure. Functions of state 1 2 0									
4. The role of public statistics system in the state information infrastructure. Legal basis for the functioning of the public statistics system in Poland and the European Union. Structure and organization of public statistics system in in Poland and the European Union. Structure and organization of public statistics system in Poland and the European Union. Structure and organization of public statistics system in Poland and the European Union. Structure and organization of public statistics system in Poland and the European Union. Structure and organization of public statistics system in Poland. European Statistical System.										
5. Statistical research programme of public statistics, European statistical programme. 1										
6. Information resources of international organizations. 1										
7. Commercial data sources reliability and data	ces, dom ta quality	ain information systems. Specialized data search tools. As: /.	sessment of	1	3	0				
Format of instruction: discu	ussion cl	asses			•	•				
1. Defining information no systems.	eeds. Sea	arching for information resources. Examples of statistical d	atabases	1	2	0				
2. Methods of gathering, systems.	processi	ng and storing data. Statistical meta information and para i	nformation	1	2	0				
3. Geographic Informatio	n Systen	ı (GIS).		1	2	0				
4. Information resources	of Polish	public statistics.		1	2	0				
5. Information resources Organization, The Organi International Settlements	of internation for a contract of the second	ational organizations: International Monetary Fund, World 1 r Economic Co-operation and Development, World Bank, B Nations.	Trade ank for	1	2	0				
6. Information resources	of the co	mmercial and domain databases.		1	2	0				
7. Internet as a data sour	ce. Asse	ssment of sources reliability and data quality.		1	3	0				
Modes of delivery Modes of delivery Modes of delivery Modes of delivery										
No. of outcom sy										
Assessment methods	SPRAV	VDZIAN			EP1,EP2	2,EP3				
Assessment methods	SPRAV PROJE	VDZIAN KT			EP1,EP2 EP4,EP3	2,EP3 5,EP6,EP7				
Assessment methods	SPRAV PROJE Metody i zasadach	VDZIAN KT formy weryfikacji efektów uczenia si mog zosta zmienione dla s o okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego	tudentów ze szcze	gólnymi potrzeb	EP1,EP2 EP4,EP9 ami na war	2,EP3 5,EP6,EP7 unkach i				
Assessment methods	SPRAV PROJE Metody i zasadaci Lecture	VDZIAN KT formy weryfikacji efektów uczenia si mog zosta zmienione dla s o okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego es: Written txt (min 60% of proper answers to pass).	tudentów ze szcze	gólnymi potrzeb	EP1,EP2 EP4,EP3 ami na war	2,EP3 5,EP6,EP7 unkach i				
Assessment methods	SPRAV PROJE Metody i zasadaci Lecture Labora	VDZIAN KT formy weryfikacji efektów uczenia si mog zosta zmienione dla s o okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego es: Written txt (min 60% of proper answers to pass). tories:	tudentów ze szcze	gólnymi potrzeb	EP1,EP2 EP4,EP3	2,EP3 5,EP6,EP7 unkach i				
Assessment methods	SPRAV PROJE Metody i zasadaci Lecture Labora Project	VDZIAN KT formy weryfikacji efektów uczenia si mog zosta zmienione dla s o okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego es: Written txt (min 60% of proper answers to pass). tories: - a project to achieve the learning outcomes tested on prace	tudentów ze szcze ctical skills and	gólnymi potrzeb teamwork.	EP1,EP2 EP4,EP9	2,EP3 5,EP6,EP7 unkach i				
Assessment methods	SPRAV PROJE Metody i zasadaci Lecture Labora Project Grade o	VDZIAN KT formy weryfikacji efektów uczenia si mog zosta zmienione dla s o kre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego es: Written txt (min 60% of proper answers to pass). tories: - a project to achieve the learning outcomes tested on prace calculation principles	tudentów ze szcze , ctical skills and	gólnymi potrzeb teamwork.	EP1,EP2	2,EP3 5,EP6,EP7 unkach i				
Assessment methods	SPRAV PROJE Metody i zasadaci Lecture Labora Project Grade o The fin	VDZIAN KT formy weryfikacji efektów uczenia si mog zosta zmienione dla s o kre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego es: Written txt (min 60% of proper answers to pass). tories: - a project to achieve the learning outcomes tested on prace calculation principles al grade is weighted average of the grades received form o	tudentów ze szcze ctical skills and on practical skill	gólnymi potrzeb teamwork. s and teamwor	EP1,EP2 EP4,EP3 ami na ward	2,EP3 5,EP6,EP7 unkach i				
Assessment methods Grading criteria	SPRAV PROJE Metody i zasadaci Lecture Labora Project Grade o The fin	VDZIAN KT formy weryfikacji efektów uczenia si mog zosta zmienione dla si okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego es: Written txt (min 60% of proper answers to pass). tories: - a project to achieve the learning outcomes tested on pracealculation principles al grade is weighted average of the grades received form concerning Course	tudentów ze szcze ctical skills and on practical skill Type of cree	teamwork. s and teamwor	EP1,EP2 EP4,EP2 ami na ward k.	2,EP3 5,EP6,EP7 unkach i sight for the average				
Assessment methods Grading criteria Final grade calculation	SPRAV PROJE Metody i zasadach Lecture Labora Project Grade o The fin Sem.	VDZIAN KT formy weryfikacji efektów uczenia si mog zosta zmienione dla si okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego es: Written txt (min 60% of proper answers to pass). tories: - a project to achieve the learning outcomes tested on prace calculation principles al grade is weighted average of the grades received form of Course systemy pozyskiwania danych (data acquisition systems)	tudentów ze szcze ctical skills and on practical skill	gólnymi potrzeb teamwork. s and teamwor it Grade ca method Nieoblicza	k.	2,EP3 5,EP6,EP7 unkach i sight for the average				
Assessment methods Grading criteria Final grade calculation method	SPRAV PROJE Metody i zasadach Lecture Labora Project Grade o The fin Sem. 1	VDZIAN KT formy weryfikacji efektów uczenia si mog zosta zmienione dla s n okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego es: Written txt (min 60% of proper answers to pass). tories: - a project to achieve the learning outcomes tested on pra- calculation principles al grade is weighted average of the grades received form of Course systemy pozyskiwania danych (data acquisition systems) systemy pozyskiwania danych (data acquisition systems) [wykład]	tudentów ze szcze ctical skills and on practical skill Type of cree zaliczenie z ocen	gólnymi potrzeb teamwork. s and teamwor lit Grade ca method	k.	2,EP3 5,EP6,EP7 unkach i sight for the average				
Assessment methods Grading criteria Final grade calculation method	SPRAV PROJE Metody i zasadach Lecture Labora Project Grade o The fin Sem. 1 1 1	VDZIAN KT formy weryfikacji efektów uczenia si mog zosta zmienione dla s nokre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego es: Written txt (min 60% of proper answers to pass). tories: - a project to achieve the learning outcomes tested on prace calculation principles al grade is weighted average of the grades received form of Course systemy pozyskiwania danych (data acquisition systems) systemy pozyskiwania danych (data acquisition systems) [wykład] systemy pozyskiwania danych (data acquisition systems) [wykład]	tudentów ze szcze ctical skills and on practical skill Type of crea zaliczenie z ocen zaliczenie z ocen	teamwork.	k.	2,EP3 5,EP6,EP7 unkach i sight for the average				
Assessment methods Grading criteria Final grade calculation method	SPRAV PROJE Metody i zasadach Lecture Labora Project Grade o The fin Sem. 1 1 1 1 0 le ski	VDZIAN KT formy weryfikacji efektów uczenia si mog zosta zmienione dla si okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego es: Written txt (min 60% of proper answers to pass). tories: - a project to achieve the learning outcomes tested on prace calculation principles al grade is weighted average of the grades received form of Course systemy pozyskiwania danych (data acquisition systems) systemy pozyskiwania danych (data acquisition systems) [wkład] systemy pozyskiwania danych (data acquisition systems) [wczenia] J. (2006): Infrastruktura informacyjna pa stwa w globalnej gospanne	tudentów ze szczo ctical skills and on practical skill Type of crea zaliczenie z ocen zaliczenie z ocen ocen	gólnymi potrzeb teamwork. s and teamwor iit Grade ca method Nieoblicza	k.	2,EP3 5,EP6,EP7 unkach i eight for the average				
Assessment methods Grading criteria Final grade calculation method Basic reading	SPRAV PROJE Metody i zasadach Lecture Labora Project Grade o The fin Sem. 1 1 1 0le ski Statistio	VDZIAN KT formy weryfikacji efektów uczenia si mog zosta zmienione dla si okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego es: Written txt (min 60% of proper answers to pass). tories: - a project to achieve the learning outcomes tested on prace calculation principles al grade is weighted average of the grades received form of Course systemy pozyskiwania danych (data acquisition systems) systemy pozyskiwania danych (data acquisition systems) [wykład] systemy pozyskiwania danych (data acquisition systems) [wiczenia] J. (2006): Infrastruktura informacyjna pa stwa w globalnej gos cal Survey Programme of Public Statistics (current). Program Ba	tudentów ze szcze ctical skills and on practical skill Type of crea zaliczenie z ocen zaliczenie z ocen odarce, Uniwers	gólnymi potrzeb teamwork. s and teamwor it Grade ca method Nieoblicza ytet Warszawsk /ch Statystyki Pi	k.	2,EP3 5,EP6,EP7 unkach i eight for the average wa aktualny) :				
Assessment methods Grading criteria Final grade calculation method Basic reading	SPRAV PROJE Metody i zasadach Lecture Labora Project Grade o The fin Sem. 1 1 1 0le ski Statistic	VDZIAN KT formy weryfikacji efektów uczenia si mog zosta zmienione dla si okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego es: Written txt (min 60% of proper answers to pass). tories: - a project to achieve the learning outcomes tested on prace calculation principles al grade is weighted average of the grades received form of Course systemy pozyskiwania danych (data acquisition systems) [wkład] systemy pozyskiwania danych (data acquisition systems) [wkład] J. (2006): Infrastruktura informacyjna pa stwa w globalnej gospital Survey Programme of Public Statistics (current). Program Bacal Work Programme of the Commission (current). :	tudentów ze szcze ctical skills and on practical skill Type of crea zaliczenie z ocen zaliczenie z ocen bodarce, Uniwers ada Statystyczn	gólnymi potrzeb teamwork. s and teamwor it Grade ca method Nieoblicza ytet Warszawsk /ch Statystyki Po	k.	2,EP3 5,EP6,EP7 unkach i eight for the average va aktualny) :				
Assessment methods Grading criteria Final grade calculation method Basic reading	SPRAV PROJE Metody i zasadach Lecture Labora Project Grade o The fin Sem. 1 1 1 0le ski Statistic Statistic	VDZIAN KT formy weryfikacji efektów uczenia si mog zosta zmienione dla si okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego es: Written txt (min 60% of proper answers to pass). tories: - a project to achieve the learning outcomes tested on prace calculation principles al grade is weighted average of the grades received form of Course systemy pozyskiwania danych (data acquisition systems) wykład] systemy pozyskiwania danych (data acquisition systems) [wiczenia] J. (2006): Infrastruktura informacyjna pa stwa w globalnej gospical Survey Programme of Public Statistics (current). Program Bacal Work Programme of the Commission (current). : a M. : Podstawy technologii informacyjnych z przykładami zasto	tudentów ze szcze ctical skills and on practical skill Type of crea zaliczenie z ocen zaliczenie z ocen oodarce, Uniwers ada Statystyczn sowa , Vizja Pre	gólnymi potrzeb teamwork. s and teamwor it Grade ca method Nieoblicza ytet Warszawsk /ch Statystyki Pi	k.	2,EP3 5,EP6,EP7 unkach i eight for the average va aktualny) :				
Assessment methods Grading criteria Final grade calculation method Basic reading Supplementary reading	SPRAV PROJE Metody i zasadach Lecture Labora Project Grade o The fin Sem. 1 1 1 0le ski Statistic Statistic	VDZIAN KT formy weryfikacji efektów uczenia si mog zosta zmienione dla si okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego es: Written txt (min 60% of proper answers to pass). tories: - a project to achieve the learning outcomes tested on prace calculation principles al grade is weighted average of the grades received form of course systemy pozyskiwania danych (data acquisition systems) systemy pozyskiwania danych (data acquisition systems) [wkład] systemy pozyskiwania danych (data acquisition systems) [wkład] systemy pozyskiwania danych (data acquisition systems) [wkład] systemy pozyskiwania danych (data acquisition systems) [wczenia] J. (2006): Infrastruktura informacyjna pa stwa w globalnej gos cal Work Programme of Public Statistics (current). Program Bac cal Work Programme of the Commission (current). : a M. : Podstawy technologii informacyjnych z przykładami zasto Jser Guide, version 2009-1-7. :	tudentów ze szcze ctical skills and on practical skill Type of cred zaliczenie z ocen zaliczenie z ocen sodarce, Uniwers ada Statystyczn sowa , Vizja Pre	gólnymi potrzeb teamwork. s and teamwor it Grade ca method Nieoblicza ytet Warszawsk vch Statystyki Pi ssit	k.	2,EP3 5,EP6,EP7 unkach i eight for the average va aktualny) :				

STUDENT WORKLOAD							
	No. of hours						
		W tym e-learning					
Contact hours	30	0					
Participation in test / exam	3	0					
Preparation for contact hours	12	0					
Private reading and studying	7	0					
Participation in tutorials	15	0					
Preparation of project / essay / etc.	8	0					
Preparation for test / exam	0	0					
TOTAL workload	75						
ECTS credits	3						
Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Course title: Course code: US71AIJ2720_31S systemy wspomagania decyzji (decision support systems) (KIERUNKOWE) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Profile of study: Specialty: general academic first-degree, full - time Course / module status Language of instruction: semester: 3 - english language obligatory No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning laboratory 15 0 pg 3 2 2 lecture 15 0 pg Total 30 2 Course / module dr in . MARCIN MASTALERZ coordinator Course instructor prof. dr hab. ZYGMUNT DR ΕK The aim of the course is to show the possibility of using a computer to formalization of decision-making situations, Course / module their modeling and simulation, and usage of software tools and environments, which, on the modulu: basis of objectives qualitative and quantitative data support the decisions of managers on the different levels of management. Knowledge of the basics of computer science, general knowledge of the functions and application areas of information Prerequisites systems management, good knowledge of spreadsheets. LEARNING OUTCOMES Ref. to programme Category No. Code Description benchmarks Student has basic knowledge in the area of methods and decision support tools, that, on the basis of the analysis 1 EP1 of qualitative and quantitative data, support managers at knowledge K_W10 various levels of the enterprise management. Student uses tools to analyze guantitative and gualitative K U10 EP3 1 K U14 data for decision support. skills Student can easily communicate in English in an EP4 international group of people in order to carry out 2 K_U16 business tasks and projects Student is ready to broaden their knowledge to solve social competences 1 EP2 social and business problems using decision models and K K02 decision support systems. No. of hours CONTENT Semester w tym elearning Subject title: systemy wspomagania decyzji (decision support systems) Format of instruction: lecture 1. The types of decisions at different levels of management, approaches for their formalization, 2 information in decision-making, Decision Support Systems (DSS) - definitions, functions and 3 0 characteristics of their components. 2. The process of decision-making situations modeling. Computer analysis of economic systems. 3 2 0 3. Study of the applicability of the software to support the digital modeling of economies and decision-3 3 0 making situations. The DSS, EIS MSS systems and the role of data banks, methods, models and knowledge in decision support. Integrated decision support system.

 4. Problems of multidimensional structures mapping and hierarchical consolidation of the results in decision support systems. data warehouses in supporting the decisions. The usage of technology ETL, OLAP and Data Mining.
 3

0

2

5. Business Intelligence t	echnolo	gy and Business Intelligence applications in supporting the		3	2	0				
6. Corporate Performance	e Manag	ement systems and the use of web technologies in supporting		3	2	0				
decisions in the company	/.	denotions and a structure based on the burnels has		<u> </u>	-	0				
7. Artificial intelligence and expert systems as a class of systems based on the knowledge. 3 2 0										
Format of instruction: laboratory										
and application of program tools will be applied.										
2. Computer modeling of decision making problems based on qualitative and quantitative data relying on 3 4 0										
3. Computer modeling of qualitative multi-criteria decision-making problems based on AHP (Analytic 3 3 0 0										
4. Design and generation	of decis	ion support analysis for the different management levels.		3	2	0				
5. Examples of the use of	the data	a warehouses.		3	2	0				
6. Assessment.				3	2	0				
Modes of delivery	Lectur	es with multimedia presentations. Laboratories carried out with the learning system.	use of app	ropriate soft	ware appl	ications				
					No. of	learning				
					outcome syll	e from the abus				
Assessment methods	SPRA	SPRAWDZIAN								
	PROJE	EP3,EP4								
	Metody zasadac	i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów h okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.	ze szczegól	nymi potrzeba	ami na waru	nkach i				
Grading criteria	ecision-mak ecision-mak dure using bls in suppor he concept o	tform (30%) tform (30%) tform (30%) ting proces computer rting decis	ing skills of points of ed by 6 points of ss, the tools. ion. ed							
	Grade	calculation principles								
	Final grade of the course is calculated on the basis of the grades from the laboratory classes (70%) and lectures (30%).									
	Sem.	Course Typ	e of credit	Grade cal method	c. Wei	ight for the average				
Final grade calculation	3	systemy wspomagania decyzji (decision support systems)		Wa ona						
method	3	systemy wspomagania decyzji (decision support systems) zalicz	enie z			0,30				
	3	systemy wspomagania decyzji (decision support systems) zalicz Ilaboratorium]	enie z			0,70				
	Anna N	Aaria Gil-Lafuente, Constantin Zopounidis (2015): Decision Making and K	nowledge [Decision Supp	port Systen	ns, Springer				
Basic reading	Rames Suppor	sh Sharda, Dursun Delen, Efraim Turban (2014): Business Intelligence ar rt.(10th Edition), Pearson	d Analytics:	Systems for	Decision					
	Vaugh	n Robert H. (2010): Decision-making Training., American Society for Trai	ning and De	evelopment						
	Wilfried	d Grossmann, Stefanie Rinderle-Ma (2015): Fundamentals of Business Ir	telligence, l	Prentice Hall,	, Springer					

	Blake Chris (2008): The ar	t of decisions: how to manage in an uncertain wo	rld., Pearson Education					
	Dr ek Z. (2005): Aspekty metodologiczne modelowania w zarz dzaniu, US							
Supplementary reading	Gluchowski P., Gabriel, Chamoni P (2007): Management Support SystemeComputergestützte Informationssysteme für Führungskräfte und Entscheidungsträger., Springer							
	Howson C. (2013): Succes Hill	Howson C. (2013): Successful Business Intelligence, Second Edition: Unlock the Value of BI & Big Data 2nd Edition, McGraw Hill						
	Max H. Bazerman, Don A.	Moore (2008): Judgment in managerial decision	making, John Wiley & Sons					
	STUDENT WORKLOAD							
		lo. of hours						
			W tym e-learning					
Contact hours		30	0					
Participation in test / ex	am	2	0					
Preparation for contact	hours	1	0					
Private reading and stud	dying	2	0					
Participation in tutorials		4	0					
Preparation of project /	essay / etc.	6	0					
Preparation for test / ex	am	5	0					
TOTAL workload		50						
ECTS credits		2						

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z

Course title: szkolenie BHP (occu (INNE DO ZALICZEN	ourse title: Course code: szkolenie BHP (occupational safety and health training) EFZ71AIJ3434_1S (INNE DO ZALICZENIA) EFZ71AIJ3434_1S									
Name of field of study: Economics and IT Ap	oplications							I		
Mode and cycle of study: first-degree, full - tim	e		Profile of study general aca	/: ademic			Specialt	y:		
Course / module status obligatory					Language o semester	f instruction: r : 1 - englis	sh langu	lage		
Voor	N		Form	Form of		fhours		Type of credit		ECTS
i cai	Semeste	71	instruc	tion		w tym e-lea	arning	Type of creat		_013
1	1		lectu	ire	5	5		р		0
Total						5				0
Course / module coordinator	mgr APOLONI	USZ I	KURYLCZYK							
Course instructor	mgr APOLONI	USZ I	KURYLCZYK							
Course / module objectives	Acquisition of emergencies a	know and th	/ledge and ski e rights and c	ills in the fi obligations	ield of occupation	onal health a student.	and safe	ty, fire protection, fi	rst aid in	
Prerequisites No requirements										
LEARNING OUTCOMES										
Category	Category No. Code Description Ref. to bend				Ref. to bence	programme hmarks				
knowledge		1 EP1 The student knows and understands the legal, organizational and ethical conditions of professional activity during education at a university								
		1	EP2	The stu	dent is able to e.	identify e	rors an	d omissions in		
skills		2	EP3	The stu procedu action.	dent is able to ures, recogniz	conduct b e threats a	asic re nd take	suscitation appropriate		
social competences		1	EP4	The stu own sat complia	dent performs fety and that o ance with the s	tasks in a f the enviro afety rules	way the onment	at ensures their , including		
									No. o	f hours
			CONTENT					Semester		w tym e- learning
Subject title: szkolenie B	HP (occupation	al saf	ety and health	n training)						
Format of instruction: lec	ture									
1. 1. Legal regulations: European Union legisla hygienic conditions for education at the univers	legal regulation tion, obligations learning and inf sity, including h	on oo s of ui ternsł vaien	ccupational sa niversities, su nips, ergonom ic standards f	fety and h periors in ic factors or perman	ealth protection the field of ensu in shaping the c ent rooms work	in Polish au Iring safe ar conditions d	nd Id uring	1	1	1
2. 2. Physical, biologica activities. Accident haz activities. Avoiding thre post-accident procedur	I and chemical I ards during clas eats, with particu es (legal regulat	hazar sses a ular ei tions.	dous factors i nd during app mphasis on co accident insu	n laborato prenticeshi pllective ar prance).	ry classes, work ips, sports camp nd individual pro	shops and t os, outdoor otection mea	iield Isures,	1	2	2
3. 3. Providing first aid i	in emergencies,	reco	gnizing the sta ator, first aid	ate of a such	dden health thre	at, cardiopu	Ilmonary	1	1	1
4. 4. Legal basis in the f substances, prevention equipment, evacuation	ield of fire prote of fire hazards,	ection cond	, fire detection luct during fire	n systems, e and othe	flammable and r local hazards,	explosive handy firefig	ghting	1	1	1
Modes of delivery	E-learning c	ourse								ı
L	•									

						No. of learning outcome from the syllabus					
Assessment methods											
	SPRA	WDZIAN				EP1,EP2,EP3,EP4					
	Metody zasadac	i formy weryfikacji ef h okre lonych w Reg	ektów uczenia si mog zosta zmienione dla st ulaminie Studiów Uniwersytetu Szczeci skiego.	identów ze szczegó	Inymi potrzeba	ami na warunkach i					
	Comp	leted practical train	ning in CPR.								
Grading criteria	Grade	calculation principle	S	3							
	Completion of the e-learning course in the field of health and safety - obtaining min. 60% correct answers out of all test questions.										
Sem. Course				Type of credit	Grade cal method	c. Weight for the average					
method	1	szkolenie BHP (od	ccupational safety and health training)		Nieobliczar	na					
	1	1 szkolenie BHP (occupational safety and health training) zaliczenie [wykład]									
M. Goniewicz (2022): Pierwsza pomoc. Podr cznik dla studentów, PZWL Wydawnictwo Lekarskie, Warszawa											
Basic reading	Zarz	dzenie Rektora US	w sprawie organizowania szkole w zakresie	3HP dla studentów	v i doktorantóv	v US, Szczecin					
	(2022)	: Kodeks pracy – tel	kst jednolity, Dziennik Ustaw RP, Warszawa								
Supplementary reading	S. Wie	czorek (2014): Ergo	onomia. Poradnik BHP, Wydawnictwo Tarbon	us, Tarnobrzeg							
Supplementary reading	(2022)	: Ustawa o Pa stwo	wym Ratownictwie Medycznym – tekst jednolity, Dziennik Ustaw RP, Warszawa								
			STUDENT WORKLOAD								
			No. of hours								
				W tym e-lea	rning						
Contact hours			5	5							
Participation in test / exa	am		0	0							
Preparation for contact	hours		0	0							
Private reading and stue	dying		0	0							
Participation in tutorials			0	0							
Preparation of project /	essay /	etc.	0	0							
Preparation for test / ex	am		0 0								
TOTAL workload			5								
ECTS credits			0								

Curriculum title: USEFZ-EaITA-O-I-S-2	3/24Z										
Course title: szkolenie biblioteczne (INNE DO ZALICZENI)	e (library train A)	ing)							Course code: EFZ71AIWH_7S	5	
Name of field of study: Economics and IT Ap	plications										
Mode and cycle of study: first-degree, full - time	9		Profile of study general aca	y: ademic				Specialty	y:		
Course / module status obligatory					Lai S	nguage of emester:	instruction: 1 - englis	h langu	lage		
Year	Semeste	r	Form	of tion		No. of	hours	rning	Type of credit	E	ECTS
1	1		lectu	ire		2	0		p		0
Total						2	2		•		0
Course / module coordinator	mgr DANUTA	STAW	I SKA	I							
Course instructor	mgr DANUTA	STAW	I SKA								
Course / module objectives Transfer of knowledge about the rules of using the library, the library collection and the Library and Information System of the University of Szczecin.											
Prerequisites n terms of knowledge: basic knowledge about the library. In terms of skills: has the ability to learn. In terms of social competence: awareness of the impact of individual actions on the interests of other members of the community.											
LEARNING OUTCOMES											
Category		No.	Code	Descripti	tion					Ref. to benc	programme hmarks
knowledge		1	EP1	Gain kn conditio the univ	nowledgons of versity	ge of the using the within th	legal and library a lie field of	organis nd infor study.	sational mation system of		
skills		1	EP2	The stue and info with the	dent is ormatic e rules	able to o on syster in force.	use the re n of the u	source: niversit	s of the library y in accordance		
social competences		1	EP3	Fulfilling the reso the univ for othe	g infor ources versity er users	mation n of the lik in a man s of the L	eeds and prary and ner that c ibrary.	the rule informa loes not	es of access to ition system of t hinder access		
			CONTENT						Semester	No. o	f hours
Subject title: szkolenie bi	blioteczne (libra	arv tra	inina)								learning
Format of instruction: lect	ure										
1. Library training									1	2	0
Modes of delivery	- lecture with	n mult librar	imedia preser v training is n	ntation	throug	h e-learni	na)				
			, aaning 15 µ		uy		יש <i>ו</i>			No. of outcome syll	learning e from the abus
Assessment methods	F074100 -	0	N							FD4 FD	
	EGZAMIN PI	SEMN	Ι Υ							EP1,EP2	,EP3
	Metody i formy zasadach okre	weryfi Ionycl	kacji efektów u h w Regulamini	iczenia si m ie Studiów U	nog zos Iniwersyt	ta zmienio tetu Szczec	one dla studo i skiego.	entów ze s	szczególnymi potrzebar	ni na waru	nkach i

	Credit Famili	for classes: arisation with the o	online presentation, successful completion	of the test. A po	sitive grade is a	minimum of 60%.					
Grading criteria	Grade	Grade calculation principles									
	The fir	The final course grade is equal to the grade for classes. The credit is in the form of an ungraded credit.									
Final grade calculation	Sem.	Course		Type of credit	Grade calc. method	Weight for the average					
method	1	szkolenie biblioteo	zne (library training)		Nieobliczana						
	1	szkolenie biblioteo	zne (library training) [wykład]	zaliczenie							
	Organi	isational Regulation	s of the Faculty of Economics, Finance and Ma	anagement :							
Basic reading Regulations of the departments of the Library (Lending Library, Reading Room, Scientific Information Centre) :):						
	Regulations of the Main Library of the US :										
Supplementary reading	Supplementary reading										
			STUDENT WORKLOAD								
			No. of hours								
				W tym e-lea	W tym e-learning						
Contact hours			2	0							
Participation in test / ex	am		0	0							
Preparation for contact	hours		0	0							
Private reading and stu	dying		0	0							
Participation in tutorials	5		0	0							
Preparation of project /	essay /	etc.	0	0							
Preparation for test / exam			0	0	0						
TOTAL workload			2								
ECTS credits			0								

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Course title: Course code: technologie informacyjne (information technologies - IT) US71AIJ2721_12S (KIERUNKOWE) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Profile of study: Specialty: general academic first-degree, full - time Course / module status Language of instruction: semester: 1 - english language obligatory No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning laboratory 15 0 pg 1 1 3 lecture 15 0 pg Total 30 3 Course / module dr AGATA WAWRZYNIAK coordinator Course instructor dr AGATA WAWRZYNIAK The course covers theoretical issues concerning the use of information technology and aims at the acquisition by the Course / module objectives student practical skills in using software to prepare to win ECDL certificates. Basic computer skills, the basics of using the Internet Prerequisites LEARNING OUTCOMES Ref. to programme Category No. Code Description benchmarks Student has an understanding of the role of information EP1 K_W08 knowledge 1 in the modern economy use of software applications (word processing, K_U08 skills 1 EP2 spreadsheet, presentation graphics) in business issues K_U13 Students can complement and improve the acquired 1 EP3 knowledge and skills in the use of information K K02 social competences technology No. of hours CONTENT Semester w tym elearning Subject title: technologie informacyjne (information technologies - IT) Format of instruction: lecture 2 1. Role and importance of information in modern economy 1 0 2. Computer devices - principle and parameters of functionality 1 4 0 2 0 3. System software and utilities - examples, use, built-in tools 1 2 4. The process of computerization of organizations - models, available systems, types of licenses. 1 ٥ 2 5. Environment of the Internet as a place to search, collect and share information 1 0 2 6. Safety of the use of information technology 1 0 7. Development trends of the Internet, telecommunication services and electronic devices in business 1 1 0 applications Format of instruction: laboratory 2 0 1. Fundamentals of operation systems 1

2. Text Editor - creating a AutoShapes, text boxes,	and editii use of o	ng documents, con ther implemented	struction and formatting tables, formattin	g of	1	4	0	
3. Spreadsheet - introduc	ction, interest	erface, basic formu	Ilas, cell formatting, spreadsheet, charts,	functions,	1	4	0	
4. Search tools, commun	ication a	and sharing of info	mation on the Internet, the process of syn	nchronizing	1	3	0	
5. Presentation of inform	ation on	the Internet - proje	ect		1	2	0	
Modes of delivery	labora	tory classes (solvi	ng practical tasks) based on Microsoft ap	plications, op	en source solutio	ons and ne	twork	
	applic	ations, multimedia	presentations			No. of learning outcome from the syllabus		
Assessment methods	KOLO	KWIUM				EP1,EP2		
	PROJ							
	Metody zasadac	i formy weryfikacji efe h okre lonych w Reg	ektów uczenia si mog zosta zmienione dla si ulaminie Studiów Uniwersytetu Szczeci skiego	udentów ze szc	zególnymi potrzeba	ami na waru	nkach i	
Grading criteria	Written test (min. 60% of proper answers to pass). Laboratories: Practical test (50% weighting) - test achievement of learning outcomes in terms of skills. Test is a challenge for formatting and making calculations, analysis, and visualization of data in a given time during the course. Project (50% weighting) - a project to achieve the learning outcomes tested on practical skills and teamwork. Projects will cover the proper preparation of the presentation on a chosen topic and the implementation of a given website theme. To pass the subject a student must obtain a minimum of 60% of points of practical test and project. In the period of hybrid or distance learning only, the conditions for completing the course will change to the following requirements: - the condition for getting credit for the lecture is preparing a presentation on a given topic and presenting it through MS Teams. In the period of hybrid or distance learning only, the methods of verification of learning outcomes will change to the following: - presentation - EP1,EP2. Grade calculation principles The final grade of the course is an average of laboratory and lecture grades.							
	Sem.	Course		Type of cr	edit Grade ca method	lc. Wei	ight for the average	
Final grade calculation	1	technologie inform	acyjne (information technologies - IT)		Arytmetycz	na		
method	1	technologie inform [laboratorium]	acyjne (information technologies - IT)	zaliczenie z ocen				
	1	technologie inform [wykład]	acyjne (information technologies - IT)	zaliczenie z ocen				
	Kenne	dy J. A. (2011): Con	nplete ECDL 5, Gill & Macmillan					
	(2016)	: ECDL Presentatior	Software. Using Powerpoint, CiA Training I	_td				
Basic reading	(2016)	: ECDL Spreadshee	t Software. Using Excel , CiA Training Ltd					
	(2016)	: ECDL Word Proce	ssing Software, CiA Training Ltd					
	Dooley	v J., Evans V., Wrigh	t S. (2018): Career Paths. Information Techr	ology, Express	Publishing			
Supplementary reading	Walker	nbach J. (2016): Exc	el 20016. Bible, Viley					
	1		STUDENT WORKLOAD					
			No. of hours					
				W tym e	-learning			
Contact hours			30	0				
Participation in test / example	am		2	0				
Preparation for contact	hours		5	0				
Private reading and stud	dying		9	0				

Participation in tutorials	7	0
Preparation of project / essay / etc.	14	0
Preparation for test / exam	8	0
TOTAL workload	75	
ECTS credits	3	

Curriculum title: USEFZ-EaITA-O-I-S-2	23/24Z									
Unit: Technologie internet	towe w biznesi	ie (IT i	in business) [moduł]						
Course title: tworzenie serwisów (KIERUNKOWE)	internetowych	ı (web	sites desigi	n)			Course code: US71AIJ2717_0	62S		
Name of field of study: Economics and IT A	pplications									
Mode and cycle of study: first-degree, full - tim	Mode and cycle of study: first-degree, full - time			Profile of study: Specialty: Specialty:						
Course / module status Language of instruction: elective semester: 5 - english langu					age					
			Form	h of	No. of	fhours				
Year	Semeste	ər	instrue	instruction		w tym e-learning	Type of credit	E	ECTS	
3	5		labora	atory	30	0	pg		3	
Total					3	30			3	
Course / module coordinator	dr GRZEGOR	z szy.	JEWSKI			·				
Course instructor	Course instructor dr MICHAŁ NOWAKOWSKI									
Course / module objectives	Course / module objectives Acquisition of knowledge in creating websites design on the Internet with the use of scripting languages and technologies CMS and application of knowledge in practical activities.									
Prerequisites	Prerequisites Ability of using text editor and understanding of programming code structure concept.									
				LEARNING	OUTCOMES					
Category		No.	Code	Description				Ref. to p benc	Ref. to programme benchmarks	
		1	EP1	Student has the knowledge to be able to characterize the technology used on the server side web					K_W08	
knowledge		2	EP4	Student has an understanding of key terms about semantic web, knowledge management and content management technologies					K_W13	
skills		1	EP2	Student ca	in implemer V	nt a service projec	t in CMS	K_	_U14	
social competences		1	EP3	Student is architectu	ready to wo	ork in a team desig	ned to service	K	_K01	
			OONTENT				0	No. oʻ	f hours	
			CONTENT				Semester		w tym e- learning	
Subject title: tworzenie s	serwisów interne	etowyo	ch (websites	design)						
Format of instruction: lat	ooratory								_	
1. Basics of HTML and	CSS.						5	6	0	
2. Creating simple HTM	IL/CSS documer	nt.					5	2	0	
3. Using external frame	works and proje	ects to	create webs	ite.			5	6	0	
4. Advanced use of Boo	4. Advanced use of Bootstrap framework.							4	0	
5. Using stock templates and graphics.							5	6	0	
6. Using CMS to create	website.						5	6	0	

						No. of learning outcome from the syllabus				
Assessment methods										
	PROJ	EKT				EP1,EP2,EP3,EP4				
	Metody zasadad	i formy weryfikacji ef ch okre lonych w Reg	ektów uczenia si mog zosta zmienione dla st julaminie Studiów Uniwersytetu Szczeci skiego.	udentów ze szczegó	Inymi potrzeba	mi na warunkach i				
	Credit for laboratory classes: it depends on the prepared project evaluation and the quality of the project presentation. Complete website must be prepared and presented. Project quality (general design, used methods, code structure) - 85% Presentation of the project - 15%									
Grading criteria	Grade	calculation principle	25							
	Final	Final grade is the same as the project evaluation grade.								
Final grade calculation	Sem.	Course		Type of credit	Grade cal method	c. Weight for the average				
method	5	tworzenie serwisó	w internetowych (websites design)		Nieobliczan	a				
	5	5 [laboratorium] zaliczenie z [laboratorium] zaliczenie z								
	Bootstrap (2021): Bootstrap framework, online									
Basic reading	w3sch	ools.com (2021): Bc	ootstrap 4 Tutorial, online							
	w3sch	ools.com (2021): HT	TML Tutorial, online							
Supplementary reading										
			STUDENT WORKLOAD							
			No. of hours							
				W tym e-learning						
Contact hours			30	0						
Participation in test / ex	kam		2	0						
Preparation for contact	hours		12	0						
Private reading and stu	idying		8	0						
Participation in tutorials	8		8	0						
Preparation of project /	essay /	etc.	13	0						
Preparation for test / ex	kam		2 0							
TOTAL workload			75							
ECTS credits			3							

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Course title: Course code: wnioskowanie statystyczne (statistical inference) US71AIJ2856_22S (KIERUNKOWE) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Profile of study: Specialty: general academic first-degree, full - time Course / module status Language of instruction: semester: 2 - english language obligatory No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning discussion classes 30 0 pg 1 2 4 15 0 lecture pg Total 45 4 Course / module dr hab. CHRISTIAN LIS coordinator Course instructor dr hab. CHRISTIAN LIS Course / module Acquisition of the ability to apply statistical inference methods in the study of economic and social phenomena. objectives - ability to apply the methods of the course "Descriptive Statistics"; - ability to apply the methods of the "Mathematics" module. Prereauisites - knowledge of measures describing the structure of the population, measures of coexistence relations (correlation coefficient, chi2 statistic) LEARNING OUTCOMES Ref. to programme Code No. Description Category benchmarks Student knows the properties of estimators describing K_W08 population structure and parameters describing FP1 1 dependencies between variables and properties of their K_W10 distributions. knowledge K_W06 EP2 2 Student knows methods of obtaining estimators. K_W10 Student knows the stages of verification of statistical 3 EP3 K W10 hypotheses in the social sciences. Student can choose model of estimation and make an estimation of parameters describing the structure of the K U06 EP4 skills 1 collectivity and interdependence parameters, including K U10 model assumptions. Student is able to carry out a verification of statistical hypotheses concerning distribution parameters K K01 1 EP5 describing the structure of population and occurrence of K K02 dependencies. social competences Student appreciates the importance and consequences of cooperation with the departments of public statistics 2 EP6 K_K02 in the study conducted by a representative method. No. of hours CONTENT Semester w tym elearning Subject title: wnioskowanie statystyczne (statistical inference) Format of instruction: lecture

1. Transformations of random variables, linear transformations of variables with normal distribution. Nonlinear transformations of variables with normal distribution.

1/3

0

2

2

2. Sampling, simple samp	oles.			2	2	0				
3. Point estimation assum Estimates of estimators a	nptions, Ind error	estimators - their properties and distributions. Error of estim s of estimators. Interval estimation.	ator.	2	3	0				
4. Methods of obtaining e	stimator	s - method of maximum likelihood, method of moments.		2	2	0				
5. Concept and types of s	tatistica	I hypotheses, I and II type error in the hypotheses verification	n, critical	2	2	0				
6. Parametric tests, testing stages, test for the parameters describing structures, correlation and regression coefficients significance tests.										
7. Nonparametric tests: tests of compliance with a hypothetical distribution, test of randomness, test of two structures compatibility (Kolmogorov-Smirnov). 2 2 0										
Format of instruction: discu	ussion cl	asses	ŀ							
1. Interval and point estimation in the structure analysis. Error and accuracy of estimation. 2 6 0										
2. Interval and point estin	nation in	the interdependence analysis.		2	6	0				
3. The maximum likelihoo	od metho	d. The method of moments.		2	2	0				
4. Verification of paramet Stages of verification of s	ric hypo statistica	thesis in the analysis of structures, tests of means, fractions I hypotheses. The critical regions of tests.	, variance.	2	6	0				
5. Verification of paramet	ric hypo	thesis in the analysis of interdependence. Tests of significan	ce.	2	4	0				
6. Nonparametric tests of compatibility tests), test of	empiric	al distributions compatibility with a normal distribution (Koln endence.	nogorov	2	2	0				
7. Repetition and summa	ry of the	subject material.		2	4	0				
Modes of delivery	The co and ex	urse comprises lectures using (where appropriate) transpare ercises - working individually and in groups.	encies/presenta	tions concerni	ng randon	n variables				
					No. of	learning from the				
Assessment methods		24.01.194				FD 0				
	SPRAN				EP1,EP2	EP3				
	Matadu	Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze szczególnymi potrzeh:								
	zasadaci	h okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.	dentow ze szczeg	joinyini potizeba	ann na waru	IIKacii I				
Grading criteria	Assess - Stude practic materia include Assess - writte analyti 07), in verifica	ents are assessed on the basis of three written tests covering al tasks of interval estimation and verification of parametric al provided on exercises (students can use standardized stat ed for a minimum of 60%. sment form of lectures content: on test concerning knowledge of the effects 01, 02, 03. This in cal examples related to research conducted by the Central S which the student must demonstrate knowledge of the princi ation of statistical measures. During the test students may us	writing skills v and nonparame istical tables ar cludes open-er tatistical Office ples necessary se the standardi	erification bas tric hypothese d formulas). C ded questions by representa to drive the e zed statistical	eed on solv es accordin courseword s relating to tive metho stimation a tables and	ving ng to the k must be o d (effect and d formulas.				
	Grade	Grade calculation principles								
	The final grade is the arithmetic mean of the grades for the lectures and for classes.									
	Sem.	Course	Type of credi	Grade cal method	c. Wei	ght for the verage				
Final grade calculation	2	wnioskowanie statystyczne (statistical inference)		Arytmetycz	na					
method	2	wnioskowanie statystyczne (statistical inference) [wykład]	zaliczenie z ocen							
	2	wnioskowanie statystyczne (statistical inference) [wiczenia]	zaliczenie z ocen							
	Dennis	D. Boos, L. A. Stefanski (2013): Essential Statistical Inference, S	pringer-Verlag N	ew York Inc.						
	Freedm	nan D., Pisani R., Purves R. (2007): Statistics, W.W. Norton & Co	mpany, 4th Ed.,	New York, Lone	don					
Basic reading	McClav Edition	ve J.T., Benson P.G., Sincich T. (2018): Statistics For Business na , New Jersey	ad Economics, P	earson Prentice	e Hall, 13th	Global				
	R. Lym Learnir	R. Lyman Ott, Michael Longnecker (2015): An Introduction to Statistical Methods and Data Analysis, Duxbury Thomson Learning, 7th Edition, USA								
Supplementary reading	Supplementary reading B k I., Markowicz I., Mojsiewicz M., Wawrzyniak K. (2005): Statystyka w zadaniach. Cz. II, Wydawnictwo Naukowo- Techniczne									
Wasserman L. (2005): All of Statistics. The Concise Course of Statistical Inference, Springer										

STUDENT WORKLOAD							
	No. of hours						
		W tym e-learning					
Contact hours	45	0					
Participation in test / exam	2	0					
Preparation for contact hours	12	0					
Private reading and studying	7	0					
Participation in tutorials	14	0					
Preparation of project / essay / etc.	10	0					
Preparation for test / exam	10	0					
TOTAL workload	100						
ECTS credits	4						

Curriculum title: USEFZ-EaITA-O-I-S-2	23/24Z									
Unit: Rynek i konkurencja	(Market and c	ompe	etition) [mod	luł]						
Course title: wspólny rynek europ (KIERUNKOWE)	ejski (commo	n eur	opean mark	et)				Course code: US71AIJ2860_	59S	
Name of field of study: Economics and IT Ap	plications									
Mode and cycle of study: first-degree, full - tim	e		Profile of study general aca	^{y:} ademic		SI	pecialty:			
Course / module status Language of instruction: elective semester: 5 - english language										
			Form	of	No. of	hours				
Year	Semeste	ter instruction w tym e-learning Type of credit						E	ECTS	
3	5		lectu	ıre	15	0		pg		2
Total					1	5				2
Course / module coordinator	dr hab. TOMA	SZ BE	RNAT				•			
Course instructor dr hab. TOMASZ BERNAT										
Course / module objectivesThe course addresses to the problems of systematically analyze of the European Union (EU) and the larger project of economic and political integration in Europe. The aim is to provide a thorough understanding of the complex process of the creation of a single internal market within the European Union.										
Prerequisites	This is an mid	Idle le	vel economic	s class and re	quires that yo	ou have taken	elemen	tary macroeconor	nics cours	se
					OUTCOMES					
Category		No.	Code	Description					Ref. to benc	programme chmarks
knowledge		1	EP1	Students h economica market inte	ave a good al theoretica egration.	overview of I discussion	the po is withi	litical, legal and in the field of	K_ K_ K_	_W01 _W02 _W03
skills		1	EP2	Students a and proble goods, ser	re able to ca ms regardir vices, labou	arry out and ng cross-nat ır and capita	solve ional ti al.	practical cases ransactions of	K K K	_U01 _U02 _U03 _U05
social competences		1	EP3	Students a their own k	re ready to nowledge a	formulate th is well as ex	eir owi pert kn	n ideas using nowledge.	K K	_K02 _K04
			CONTENT					Semester	No. o	f hours
										w tym e- learning
Subject title: wspólny ry	nek europejski ((comn	non european	market)						
Format of instruction: lec	ture									1
1. Formation and develo people and capital, influ EU.	opment of comr lence of these f	non a our fro	nd internal ma eedoms on the	arket. Free mo e environment	vement of go t of the entrep	ods, services preneurship ir	, n the	5	3	0
2. Stages of EU Economic Integration - Constructing the Common Market 5 2 0										
3. New EU member state	es on the intern	al ma	rket					5	2	0
4. Stages of EU Econom	nic Integration -	the E	conomic and	Monetary Unio	on (EMU) and	its policy-ma	king	5	2	0
5. Financing the Europe	an Union - the	Comm	nunity Budget					5	2	0
6. I European Union Ho	rizontal Policies	s - Reg	jional and Str	uctural Policy				5	2	0

7. European Union Secto	7. European Union Sectoral Policies - Common Agricultural Policy 5							
Modes of delivery	combi	nation of lectures,	class discussions, presentations and case	studies				
						No. of outcome	learning from the	
						syll	abus	
Assessment methods	KOLO	KWIUM				EP1,EP2	,EP3	
	PROJ	ЕКТ				EP1,EP2	,EP3	
	Metody zasadac	i formy weryfikacji ef h okre lonych w Reg	ektów uczenia si mog zosta zmienione dla stu ulaminie Studiów Uniwersytetu Szczeci skiego.	dentów ze szczeg	ólnymi potrzeba	ami na waru	nkach i	
	Lectur	es will be assesse	d based on the performance during regular	lectures, data ç	athering and	analysis p	roject.	
Grading criteria	Grade	calculation principle	S					
	The final grade is equal to the grade received for the lectures.							
Final grade calculation	Sem.	Course	Type of credit	Grade ca method	lc. Wei	ght for the average		
method	5	wspólny rynek eur	opejski (common european market)		Nieobliczar	na		
	5	wspólny rynek eur	opejski (common european market) [wykład]	zaliczenie z ocen				
	Campt	oell Balfour (2020): I	ndustrial Relations in the Common Market, Ta	ylor & Francis Gr	oup, New York	K		
	Cavus	gil, S.T.; Knight,G.; I	Riesenberger, J.R. (2011): International Busine	ess: The New Re	alities, second	edition, Pe	arson	
Basic reading	Cristina Palgra Kristen	a SinOrlanda Tavare ve Macmillan, Switz n Feiter (2020): The	esSónia CardosoMaria J. Rosa (2018): Europe erland European Union's Single Market. Integration T	ean Higher Educa owards the Euro	ation and the Ir pean Energy L	nternal Marl Jnion, GRIN	ket, I Verlag	
	Counc	il of the European U	nion http://ue.eu					
	Europe	ean Commission http	p://ec.europa.eu					
Currele menter a recedire r	Europe	ean Parliament www	.europarl.eu					
Supplementary reading	Europe	ean Union Studies A	ssociation www.eustudies.org					
	Journa	I of Common Marke	et Studies, Inderscience					
	US Mis	ssion to the Europea	an Union www.useu.be					
	•		STUDENT WORKLOAD					
			No. of hours					
				W tym e-lea	arning			
Contact hours			15	0				
Participation in test / exa	am		0	0				
Preparation for contact	hours		0	0				
Private reading and stud	dying		9	0				
Participation in tutorials			7	0				
Preparation of project /	essay / o	etc.	14	0				
Preparation for test / example	am		5	0				
TOTAL workload			50	I				
ECTS credits			2					

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Unit: Rynek nieruchomo ci (Real estate markets) [moduł] Course code: Course title: wycena nieruchomo ci (real estate appraisal) US71AIJ2855_55S (KIERUNKOWE) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Profile of study: Specialty: first-degree, full - time general academic Course / module status Language of instruction: semester: 5 - english language elective No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning 0 laboratory 15 pg 3 5 3 lecture 15 0 pg 30 Total 3 Course / module dr hab. IWONA FORY coordinator Course instructor dr hab. SEBASTIAN KOKOT Course / module Introducing approaches, methods and techniques of real estate appraisal to the students objectives Prerequisites Student knows concepts and definitions of real estate managament LEARNING OUTCOMES Ref. to programme Category No. Code Description benchmarks Student knows how to interpret process and result of real 1 EP1 K W16 estate valuation knowledge Student has the knowledge of methods of real estate 2 EP3 K_W16 valuation 1 EP2 Student is able to do real estate valuation K_U15 skills Student is ready to use their knowledge and expert social competences 1 EP4 K K02 knowledge in real estate appraisal domain No. of hours CONTENT Semester w tym elearning Subject title: wycena nieruchomo ci (real estate appraisal) Format of instruction: lecture 1. Who is real estate valuer? 5 2 0 5 2 2. Value of real estate 0 5 4 0 3. Comparison approach 3 0 4. Income capitalization approach 5 2 5. Cost approach 5 0 5 2 6. Mixed approach 0 Format of instruction: laboratory 1. Comparison approach - tasks 5 4 0

2. Income capitalization approach - tasks 5							4	0
3. Cost approach - tasks						5	3	0
4. Mixed approach - tasks	5					5	4	0
Modes of delivery	Multim	nedia presentation	and taks	·				•
							No. o outcom sy	f learning ne from the llabus
Assessment methods	PRAC	A PISEMNA/ ESE.I	RECENZ.IA				EP1,EP	2,EP3 4
Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze szczególnymi potrzebami na warunkach zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.								unkach i
	Lectur Exerci	e: Test se: Real Estate Va	luation Raport					
Grading criteria	Grade	calculation principle	S					
The final grade of the course is average grading of lectures and laboratory exercises.								
	Sem.	Course		Type of c	redit	Grade cal method	c. We	eight for the average
Final grade calculation	5	wycena nieruchon	no ci (real estate appraisal)			Arytmetyczr	na	
method	5	wycena nieruchon	no ci (real estate appraisal) [laboratorium]	zaliczenie z ocen	Z			
	5	wycena nieruchon	no ci (real estate appraisal) [wykład]	zaliczenie z ocen	Z			
Basic reading	(2018)	: European Valuatio	n Standards, TEGoVA					
	(2005)	: International Valua	tion Standards., IVSC					
Supplementary reading	Rzecz	oznawca Maj tkowy	- journal.					
Supplementary reading	Wycen	a - journal.						
			STUDENT WORKLOAD					
			No. of hours					
				W tym e	W tym e-learning			
Contact hours			30	0)			
Participation in test / exa	am		2	0				
Preparation for contact I	hours		10	0				
Private reading and stud	dying		10	0				
Participation in tutorials			6	0				
Preparation of project / e	essay /	etc.	10	0				
Preparation for test / exa	am		7	0				
TOTAL workload			75					
ECTS credits			3					

Curriculum title: USEFZ-EaITA-O-I-S-23	3/24Z									
Course title: wychowanie fizyczne (OGÓLNOUCZELNIAN	(physical edu IE)	ucatio	n)					Course code: US71AIJ2401_	32S	
Name of field of study: Economics and IT App	plications									
Mode and cycle of study: first-degree, full - time	•	I	Profile of study general aca	/: ademic			Specialty	/:		
Course / module status elective					Language of semester	instruction: : 3 - polist	n langua	ge, semester: 4 -	polish	language
Year	Semeste	er	Form	of	No. of	hours		Type of credit		ECTS
		Instruction w tym e-learning								
0	3	3 zaj cia z 3 wychowania 30 0 p fizycznego								0
2	4	4 zaj cia z 4 wychowania 30 0 pg								0
Total			129021	.090	6	50				0
Course / module coordinator	mgr CEZARY	JANIS	ZYN	I					I	
Course instructor	mgr CEZARY	JANIS	ZYN							
Course / module objectives										
Prerequisites										
				LEARNING	GOUTCOMES					
Category		No.	Code	Descriptio	'n				Ref. to	o programme enchmarks
		<u> </u>	CONTENT					Somostor	No	. of hours
			CONTENT					Semester		w tym e- learning
Subject title:										
Format of instruction:										
Modes of delivery										
									No. outco	of learning me from the
Assessment methods										y labus
	Metody i formy zasadach okre	v weryfi Ionycł	kacji efektów u h w Regulamini	czenia si mo e Studiów Uni	g zosta zmieni iwersytetu Szcze	one dla stud ci skiego.	entów ze s	zczególnymi potrzeba	mi na wa	arunkach i
Grading criteria	Grade calcula	ation p	rinciples							

	Sem.	Course			Type of credit	Grade calc. method	Weight for the average
F ired and the selected for	3	wychowanie fizyc	zne (physical education)			Nieobliczana	
method	3	wychowanie fizyc wychowania fizyc	zne (physical education) [zaj cia z znego]		aliczenie		
	4	wychowanie fizyc	zne (physical education)			Nieobliczana	
	4	wychowanie fizyc wychowania fizyc	zne (physical education) [zaj cia z z z	z o	aliczenie z cen		
Basic reading							
Supplementary reading							
	•		STUDENT WORKLOAD)			
			No. of hours				
					W tym e-lea	rning	
Contact hours			60		0		
Participation in test / ex	am		0		0		
Preparation for contact	hours		0		0		
Private reading and stu	dying		0		0		
Participation in tutorials			0		0		
Preparation of project / essay / etc.		0		0			
Preparation for test / exam		0		0			
TOTAL workload		60					
ECTS credits			0				

Curriculum title:

USEFZ-EallA-O-I-S-2	23/242									
Course title: zarz dzanie finansan (KIERUNKOWE)	Course title: zarz dzanie finansami przedsi biorstw (corporate finance management) (KIERUNKOWE) Course code: US71AIWNEiZ_70S									
Name of field of study: Economics and IT Ap	oplications									
Mode and cycle of study: first-degree, full - tim	e		Profile of study general aca	r: ademic		Specialty	y:			
Course / module status obligatory		1			Language of semester	instruction: : 5 - english langu	lage			
Year	Semeste	ester Form of No. of hours Type of credit					ECTS			
			Instruc	tion		w tym e-learning				
3	5		discussion	classes	15	0	pg		2	
			lectu	re	15	0	pg			
Total		30 2								
Course / module coordinator	dr AGNIESZKA	A PRE	-PEREPECZ	0						
Course instructor	dr AGNIESZKA	A PRE	-PEREPECZ	0						
Course / module objectivesThe aim of the course is to familiarize students with the issues relating to the financial management in the long and short term, including capital management, value management and liquidity management.										
Prerequisites The student has knowledge of the background of corporate finance, financial accounting, investment appraisal and civil and commercial law. The student has following skills: is able to make financial calculations, to analyze the processes in the company.										
	·			LEARNING	OUTCOMES		·			
Category		No.	Code Description Ref. to program				programme chmarks			
		1	EP1	The stude	ent knows the management	e rules of strategio	c and operational	K	_W07 _W09	
knowledge		2	EP2	The stude	ent knows the nt decisions	e impact of financ on corporate valu	ial and e creation.	K K K	_W07 _W09 _W10	
		3	EP3	The stude assessm	ent knows me ent, working	ethods and tools c capital and cash r	of liquidity nanagement.	K K K	_W07 _W09 _W10	
		1	EP4	The stude capital so	ent is able to ources.	analyze costs and	d benefits of	K K K	_U07 _U09 _U10	
skills		2	EP5	The stude and inve creation.	ent is able to stment decis	analyze the impacions on the comp	ct of the financial any value	K K K	_U07 _U09 _U10	
		3	EP7	The stud demand	ent is able to for external fi	prepare the cash nancing.	budget and the	K K K	_U07 _U09 _U10	
		4	EP10	The stud	ent is able to ge and skills.	complete and imp	prove the	к	_U18	
social competences		1	EP9	The stud	ent is ready to	o think creatively.		K K	_K01 _K04	
							Semestor	No. d	of hours	
			CONTENT						w tym e- learning	
Subject title: zarz dzanie	e finansami prze	dsi b	iorstw (corpo	rate finance	management)					
Format of instruction: lec	ture									

1. The needs, objectives and complexity of corporate financial management. 5 1 0								
2. The legal form, size of	the company, firm's life cycle and access to sources of capital.		5	1	0			
3. Financial and investme	ents decisions and the company value creation.		5	2	0			
4. Dividend policy: theory	and practice		5	2	0			
5. Mergers and acquisitio	ns		5	2	0			
6. Operating finance management 5								
7. Working capital and ca	5	2	0					
8. Budgeting and reportir	g in operating finance management		5	2	0			
9. Financial risk manager	nent		5	2	0			
Format of instruction: discu	ussion classes	•	t T					
1. Costs and benefits of c	apital sources - case study		5	3	0			
2. Case studies of source	s of value creation		5	3	0			
3. Measuring of the comp	any value creation in examples		5	4	0			
4. The assessment of liqu	idity and the risk of its loss		5	1	0			
5. Working capital and ca	sh management - case study		5	2	0			
6. Financial risk manager	5	2	0					
Modes of delivery	Modes of delivery Multimedia presentation,calculations, case studies, discussion.							
	No. of learning outcome from the syllabus							
	KOLOKWIUM			EP1,EP2	,EP3			
Assessment methods	SPRAWDZIAN			EP4,EP5,EP7,EP9				
	ZAJ CIA PRAKTYCZNE (WERYFIKACJA POPRZEZ OBSERWACJ)			EP10,EP4 EP9	4,EP5,EP7,			
	Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla stud zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.	entów ze szczegó	Inymi potrzeba	mi na waru	nkach i			
Crading criteria	The final grade of lectures is positive when a student gives a correct than 50% (kolokwium) The final grade of classes is a weighted average and consists of: - 80% positive solution of examples (Sprawdzian), more than 50%. - 20% current verification of knowledge and skills during the course.	answers to que	stions in a wi	ritten test,	, more			
	Grade calculation principles							
	The final grade of the Corporate Finance Management course is the a and classes.	average of posit	ive marks acł	hieved in I	lectures			
	Sem. Course	Type of credit	Grade calo method	c. Wei a	ght for the verage			
Final grade calculation	5 zarz dzanie finansami przedsi biorstw (corporate finance		Arytmetyczn	ia				
metriod	inanagement)	5 zarz dzanie finansami przedsi biorstw (corporate finance zaliczenie z management) [wykład] ocen						
	5 zarz dzanie finansami przedsi biorstw (corporate finance management) [wykład]	zaliczenie z ocen						
	5 zarz dzanie finansami przedsi biorstw (corporate finance management) [wykład] 5 zarz dzanie finansami przedsi biorstw (corporate finance management) [wykład]	zaliczenie z ocen zaliczenie z ocen						
	5 zarz dzanie finansami przedsi biorstw (corporate finance management) [wykład] 5 zarz dzanie finansami przedsi biorstw (corporate finance management) [wycład] 5 Brigham E. F., Ehrhardt M. C. (2014): Financial Management. Theory and Learning	zaliczenie z ocen zaliczenie z ocen Practice, 14th ed	dition, South-V	Vestern CE	ENGAGE			
Basic reading	5 zarz dzanie finansami przedsi biorstw (corporate finance management) [wykład] 5 zarz dzanie finansami przedsi biorstw (corporate finance management) [wiczenia] Brigham E. F., Ehrhardt M. C. (2014): Financial Management. Theory and Learning Brigham E. F., Ehrhardt M. C. (2019): Financial Management. Theory and Learning	zaliczenie z ocen zaliczenie z ocen Practice, 14th eo Practice, 16th eo	dition, South-V dition, South-V	Vestern CE Vestern CE	ENGAGE			
Basic reading	5 zarz dzanie finansami przedsi biorstw (corporate finance management) [wykład] 5 zarz dzanie finansami przedsi biorstw (corporate finance management) [wiczenia] Brigham E. F., Ehrhardt M. C. (2014): Financial Management. Theory and Learning Brigham E. F., Ehrhardt M. C. (2019): Financial Management. Theory and Learning Ehrhardt M.C., Brigham E.F. (2017): Corporate Finance: A Focused Appro	zaliczenie z ocen zaliczenie z ocen Practice, 14th eo Practice, 16th eo ach 6th Edition.,	dition, South-V dition, South-V Cengage Lear	Vestern CE Vestern CE rning, Bost	ENGAGE ENGAGE on,			

STUDENT WORKLOAD								
	No. of hours							
		W tym e-learning						
Contact hours	30	0						
Participation in test / exam	2	0						
Preparation for contact hours	4	0						
Private reading and studying	5	0						
Participation in tutorials	5	0						
Preparation of project / essay / etc.	0	0						
Preparation for test / exam	4	0						
TOTAL workload	50							
ECTS credits	2							

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Course title: Course code: zarz dzanie informacj (information management) US71AIJ2717_64S (KIERUNKOWE) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Profile of study: Specialty: general academic first-degree, full - time Course / module status Language of instruction: semester: 5 - english language obligatory No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning 3 5 laboratory 30 0 2 pg 2 Total 30 Course / module dr KAROLINA MUSZY SKA coordinator Course instructor dr KAROLINA MUSZY SKA Course / module The goal of the course is to familiarize the student with structures of information systems in organizations as well as objectives methods, forms and tools of data collection, processing and sharing. Prerequisites **Computer literacy** LEARNING OUTCOMES Ref. to programme Category No. Code Description benchmarks Student knows the concepts of information, knowledge, information management cycle, information architecture K_W08 EP1 1 and methods of processing and protecting data as well K_W13 as databases, data warehouses and content information knowledge systems Student knows different information systems used in K W08 organizations and IT professionals responsible for K_W13 2 EP2 information management in organizations K_W15 Student can design the structure of a database, K_U08 K_U12 skills EP4 implement and use it with the support of appropriate 1 K_U16 tools Student is ready to supplement their knowledge regarding information management and use it to support EP5 social competences 1 K_K02 organizations in solving information management problems No. of hours CONTENT Semester w tym elearning Subject title: zarz dzanie informacj (information management) Format of instruction: laboratory 2 1. Importance of information in organizations management 5 0 2. Structure of the information system of an organization 5 2 0 3. Techniques of data collection in organizations (databases, data warehouses, content management 5 4 0 systems) 5 2 0 4. Techniques for processing and analysis of information 2 5. Data sharing techniques in IT solutions of organizations. Data security 5 0 2 5 0 6. Introduction do databases and database management system

7. Defining database structure (tables, relationships) - exercises 5							0		
8. Constructing queries,	designin	g forms and repor	ts - exercises		5	10	0		
9. Summary of knowledg	e on info	ormation managem	ent and overview of developed projects		5	2	0		
Modes of delivery	online	presentations dev	eloped jointly by students, online tutorial re	garding datab	ase creation a	nd manage	ement		
						No. of outcome syll	learning from the abus		
	KOLO	KWIUM				EP1.EP2			
Assessment methods	PROJE	ЕКТ				EP4,EP5			
	ZAJ C		EP1,EP2	,EP4					
	Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze szczególnymi potrzebami na warunkach i zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.								
Grading criteria	Grading criteria Grade calculation principles								
	Grade calculation principles								
The final grade is an arithmetic average of the test and the project grades and can be additionally influenced by the performance of course tasks, as explained in the conditions for obtaining a pass.									
Final grade calculation	Sem. Course Type of				t Grade ca method	lc. Wei I a	ght for the average		
method	5	zarz dzanie inforr	Nieoblicza	na					
	5	zarz dzanie inforr [laboratorium]	nacj (information management)	zaliczenie z ocen					
Basic reading	Laudor	n K.C., Laudon J.P.	(2019): Management Information Systems: Ma	naging the Digi	tal Firm, Globa	l Edition, Pe	earson		
	McKnig Publish	ght W. (2014): Inforr ners	nation management : strategies for gaining a co	ompetitive adva	intage with data	a , Morgan I	Kaufmann		
Supplementary reading	Steenb manag	eek I. (2019): The E ement, Data Crossr	Data Management Toolkit: A step-by-step imple oads	mentation guid	e for the pionee	ers of data			
	Whitma	an M.E., Mattord H.	(2018): Management of Information Security 6t	th Edition, Ceng	age Learning				
			STUDENT WORKLOAD						
			No. of hours						
				W tym e-le	ym e-learning				
Contact hours			30	0					
Participation in test / exa	am		2	0					
Preparation for contact	hours		4	0					
Private reading and stud	dying		3	0					
Participation in tutorials			4	0					
Preparation of project /	essay / e	etc.	3	0					
Preparation for test / ex	am		4	0					
TOTAL workload			50						
ECTS credits			2						

Curriculum title: USEFZ-EaITA-O-I-S-2	23/24Z								
Unit: Rynek nieruchomo	ci (Real estate	mark	ets) [moduł]						
Course title: zarz dzanie nieruchc (KIERUNKOWE)	omo ciami (rea	al est	ate manager	nent)			Course code: US71AIJ2857_5	6S	
Name of field of study: Economics and IT Ap	oplications								
Mode and cycle of study: first-degree, full - tim	e		Profile of study general aca	: Idemic		Specialty	<i>r</i> :		
Course / module status elective					Language of semester:	instruction: : 5 - english langu	age		
			Form	of	No. of	hours			
Year	Semeste	er	instruc	instruction w tym e-learning Type of credit				ECTS	
3	5		discussion	Ission classes 15 0 pg					
		lecture 15 0 pg							
Total					3	0		3	
Course / module coordinator	dr ANNA GDA	KOWI	CZ	·					
Course instructor	dr ANNA GDA	KOWI	cz						
Course / module objectives	Acquiring bas	ic eco	nomic and leg	gal knowledg	e concerning	management of vari	ous types of real est	ates.	
Prerequisites	- Knowledge: a particularly ha - Skills: a stud studies in eco - Competence Relation to pro	a stud as kno lent is nomic (attitu ogram	ent knows the wledge in the able to indep s ides): a stude me effects	e material of f field of mana endently perf nt has inculc	the basic ecor agement, know form logical re ated habits of	nomics at the level o vs the basics of fina easoning on econom systematic self-lear	f first degree studies ncial mathematics nic issues at the leve rning and individual	s in economics, I of first degree use of the literature	
	I			LEARNING	OUTCOMES				
Category		No.	Code	Description	I			Ref. to programme benchmarks	
		1	EP1	Student ha	as the knowl al estate mar	edge of legal regunagement.	lations in the	K_W16	
knowledge		2	EP2	Student has properties	as the knowl to manage.	edge of the different	ent types of	K_W16	
		3	EP9	Student hat the proper	as the knowl rty.	edge of the mana	gement plan for	K_W16	
skills		1	EP4	Student hat the proper	as the ability rty.	to prepare a man	agement plan for	K_U07 K_U17	
		2	EP8	Student is tasks resp	able to worl	k in a group, carry	out assigned	K_U18	
social competences		1	EP7	Student ie conducted recognizir organizati	ready to us d by institution the impor ons and sha	e available resear ons and industry tance of the coope ring information.	ch results organizations, eration of these	K_K02	
		2	EP10	Student is property.	ready to pre	esent his/her own	solutions for the	K_K04	
			CONTENT				Semester	No. of hours	
								learning	
Subject title zarz dzanie	nieruchomo c	iami (r	eal estate ma	nagement)					

i onnat or instruction. Iecti	ure						
1. Professional Property	Managem	nent			5	3	0
2. Property Management	Economi	cs and Planning			5	2	0
3. The Management Plan	for the P	roperty			5	2	0
4. Residential Property					5	2	0
5. Office Property					5	2	0
6. Retail Property					5	2	0
7. Specialized Housing		5	2	0			
Format of instruction: disc	ussion cl	asses		l		1	
1. How to became a prop	perty mana	ager			5	3	0
2. Property managers as	sociation	s			5	2	0
3. The management plan	for the p	roperty			5	2	0
4. Selecting a property					5	2	0
5. Purpose and Client Ob	bjectives				5	2	0
6. Property analysis						2	0
7. Market Analysis					5	2	0
Modes of delivery Modes of delivery Modes of delivery							
						No. of learning outcome from the syllabus	
Assessment methods	KOLOP					EP1,EP2	0.EP4.EP7.
	PROJE	кт				EP8,EP9	
ZAJ CIA PRAKTYCZNE (WERYFIKACJA POPRZEZ OBSERWACJ) EP10,EP2,EP4,E							
	ZAJ C	IA PRAKTYCZNE	(WERYFIKACJA POPRZEZ OBSERWACJ)			EP10,EP2 EP8,EP9	2,EP4,EP7,
	ZAJ C Metody i zasadach	IA PRAKTYCZNE formy weryfikacji e n okre lonych w Reg	(WERYFIKACJA POPRZEZ OBSERWACJ) fektów uczenia si mog zosta zmienione dla stu gulaminie Studiów Uniwersytetu Szczeci skiego.	dentów ze szczeg	ólnymi potrzeba	EP10,EP2 EP8,EP9 ami na waru	z,EP4,EP7, nkach i
	ZAJ C Metody i zasadach Form a Lecture Discus classes	IA PRAKTYCZNE formy weryfikacji e n okre lonych w Re nd terms of exam e: Students are ev sion classes: St s and the draft pla	(WERYFIKACJA POPRZEZ OBSERWACJ) fektów uczenia si mog zosta zmienione dla stu gulaminie Studiów Uniwersytetu Szczeci skiego. nination: valuated on the basis of a written test on the udents are evaluated on the basis of indepen- an for real estate management.	dentów ze szczeg e basis of knowl ndent work in g	ólnymi potrzeba edge verificat roups carried	EP10,EP2 EP8,EP9 ami na waru ion. out during	nkach i g the
Grading criteria	ZAJ C Metody i zasadach Form a Lecture Discus classes Grade c	IA PRAKTYCZNE formy weryfikacji e n okre lonych w Re nd terms of exam e: Students are ev sion classes: St s and the draft pla calculation principle	(WERYFIKACJA POPRZEZ OBSERWACJ) fektów uczenia si mog zosta zmienione dla stu gulaminie Studiów Uniwersytetu Szczeci skiego. nination: valuated on the basis of a written test on the udents are evaluated on the basis of indepen- an for real estate management. es	dentów ze szczeg e basis of knowl ndent work in g	ólnymi potrzeba edge verificat roups carried	EP10,EP3 EP8,EP9 ami na waru ion. out during	y the
Grading criteria	ZAJ C Metody i zasadact Form a Lecture Discus classes Grade c Final g	IA PRAKTYCZNE formy weryfikacji e n okre lonych w Reg nd terms of exam e: Students are ev sion classes: St s and the draft pla calculation principle rade from the cou	(WERYFIKACJA POPRZEZ OBSERWACJ) fektów uczenia si mog zosta zmienione dla stu gulaminie Studiów Uniwersytetu Szczeci skiego. nination: valuated on the basis of a written test on the udents are evaluated on the basis of independent an for real estate management. es	dentów ze szczeg e basis of knowl ndent work in g ectures and clas	ólnymi potrzeba edge verificat roups carried	EP10,EP3 EP8,EP9 ami na waru ion. out during	g the
Grading criteria	ZAJ C Metody i zasadact Form a Lecture Discus classes Grade c Final gr	IA PRAKTYCZNE formy weryfikacji e n okre lonych w Rea nd terms of exam e: Students are ev sion classes: St s and the draft pla calculation principle rade from the cou	(WERYFIKACJA POPRZEZ OBSERWACJ) fektów uczenia si mog zosta zmienione dla stu gulaminie Studiów Uniwersytetu Szczeci skiego. nination: valuated on the basis of a written test on the udents are evaluated on the basis of independent an for real estate management. es	dentów ze szczeg e basis of knowl ndent work in g ectures and clas	ólnymi potrzeba edge verificat roups carried sses. Grade cal method	c. Wei	ght for the verage
Grading criteria	ZAJ C Metody i zasadach Form a Lecture Discus classes Grade c Final gu Sem. 5	IA PRAKTYCZNE formy weryfikacji e n okre lonych w Rej nd terms of exam e: Students are ev sion classes: St s and the draft pla calculation principle rade from the cou Course	(WERYFIKACJA POPRZEZ OBSERWACJ) fektów uczenia si mog zosta zmienione dla stu gulaminie Studiów Uniwersytetu Szczeci skiego. nination: valuated on the basis of a written test on the udents are evaluated on the basis of independents an for real estate management. es urse is the arithmetic mean of grades from le uchomo ciami (real estate management)	dentów ze szczeg e basis of knowl ndent work in g ectures and clas Type of credit	ólnymi potrzeba edge verificat roups carried ses. Grade cal method Arytmetyczi	EP10,EP2 EP8,EP9 ami na waru ion. out during c. Wei ana	ght for the verage
Grading criteria Final grade calculation method	ZAJ C Metody i zasadach Form a Lecture Discus classes Grade c Final g Sem. 5 5	IA PRAKTYCZNE formy weryfikacji e n okre lonych w Reg ind terms of exam e: Students are ev sion classes: St and the draft pla calculation principle rade from the cou Course zarz dzanie nieru [wykład]	(WERYFIKACJA POPRZEZ OBSERWACJ) fektów uczenia si mog zosta zmienione dla stu gulaminie Studiów Uniwersytetu Szczeci skiego. nination: valuated on the basis of a written test on the udents are evaluated on the basis of independents an for real estate management. es urse is the arithmetic mean of grades from le uchomo ciami (real estate management) uchomo ciami (real estate management)	dentów ze szczeg e basis of knowl ndent work in g ectures and clas Type of credit zaliczenie z ocen	ólnymi potrzeba edge verificat roups carried sses. Grade cal method	EP10,EP2 EP8,EP9 ami na waru ion. out during c. Wei ana	ght for the verage
Grading criteria Final grade calculation method	ZAJ C Metody i zasadact Form a Lecture Discus classes Grade c Final gr Sem. 5 5 5	IA PRAKTYCZNE formy weryfikacji e nokre lonych w Rea nd terms of exam e: Students are ev sion classes: St and the draft pla calculation principle rade from the cou Course zarz dzanie nieru [wykład] zarz dzanie nieru [wiczenia]	(WERYFIKACJA POPRZEZ OBSERWACJ) fektów uczenia si mog zosta zmienione dla stu gulaminie Studiów Uniwersytetu Szczeci skiego. nination: valuated on the basis of a written test on the udents are evaluated on the basis of independent an for real estate management. es urse is the arithmetic mean of grades from le uchomo ciami (real estate management) uchomo ciami (real estate management) uchomo ciami (real estate management)	dentów ze szczeg e basis of knowl ndent work in g ectures and clas Type of credit zaliczenie z ocen zaliczenie z ocen	ólnymi potrzeba edge verificat roups carried sses. Grade cal method Arytmetycz	c. Wei	ght for the verage
Grading criteria Final grade calculation method Basic reading	ZAJ C Metody i zasadact Form a Lecture Discus classes Grade c Final gr Sem. 5 5 5 5 8 8 8 8 8 9 5 5 5 5 8 8 8 8 8 8	IA PRAKTYCZNE formy weryfikacji e nokre lonych w Rea nd terms of exam e: Students are ev sion classes: St and the draft pla calculation principle rade from the cou Course zarz dzanie nieru [wykład] zarz dzanie nieru [wiczenia] C.Kyle, Marie S.Sp sse	(WERYFIKACJA POPRZEZ OBSERWACJ) fektów uczenia si mog zosta zmienione dla stu gulaminie Studiów Uniwersytetu Szczeci skiego. nination: valuated on the basis of a written test on the udents are evaluated on the basis of independent an for real estate management. es urse is the arithmetic mean of grades from le uchomo ciami (real estate management) uchomo ciami (real estate management) uchomo ciami (real estate management) uchomo ciami (real estate management) uchomo ciami (real estate management) bodek, Floyd M. Baird (2016): Property Manage	dentów ze szczeg e basis of knowl ndent work in g ectures and clas Type of credit zaliczenie z ocen zaliczenie z ocen ement 10th Editic	ólnymi potrzeba edge verificat roups carried sses. Grade cal method Arytmetycz	EP10,EP2 EP8,EP9 ami na waru ion. out during c. Wei a na eal Estate E	ght for the verage
Grading criteria Final grade calculation method Basic reading Supplementary reading	ZAJ C Metody i zasadact Form a Lecture Discus classes Grade c Final gr Sem. 5 5 5 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	IA PRAKTYCZNE formy weryfikacji e nokre lonych w Rea nd terms of exam e: Students are ev sion classes: St and the draft pla calculation principle rade from the cou Course zarz dzanie nieru [wykład] zarz dzanie nieru [wiczenia] C.Kyle, Marie S.Sp sse n & Heather Turne	(WERYFIKACJA POPRZEZ OBSERWACJ) fektów uczenia si mog zosta zmienione dla stu gulaminie Studiów Uniwersytetu Szczeci skiego. nination: valuated on the basis of a written test on the udents are evaluated on the basis of independent an for real estate management. es urse is the arithmetic mean of grades from la uchomo ciami (real estate management) uchomo ciami (real estate management)	dentów ze szczeg e basis of knowl ndent work in g ectures and clas Type of credit zaliczenie z ocen zaliczenie z ocen ement 10th Editic erties, BiggerPoc	ólnymi potrzeba edge verificat roups carried sses. Grade cal method Arytmetycza n, Dearborn Ro	EP10,EP2 EP8,EP9 ami na waru ion. out during c. Wei ana eal Estate E	ght for the verage
Grading criteria Final grade calculation method Basic reading Supplementary reading	ZAJ C Metody i zasadact Form a Lecture Discus classes Grade c Final gr Sem. 5 5 5 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	IA PRAKTYCZNE formy weryfikacji e nokre lonych w Rea nd terms of exam e: Students are ev sion classes: St and the draft pla calculation principle rade from the cou Course zarz dzanie nieru [wykład] zarz dzanie nieru [wiczenia] C.Kyle, Marie S.Sp sse n & Heather Turne	(WERYFIKACJA POPRZEZ OBSERWACJ) fektów uczenia si mog zosta zmienione dla stu gulaminie Studiów Uniwersytetu Szczeci skiego. ination: valuated on the basis of a written test on the udents are evaluated on the basis of independent an for real estate management. es urse is the arithmetic mean of grades from la uchomo ciami (real estate management) uchomo ciami (real estate management) uchomo ciami (real estate management) uchomo ciami (real estate management) uchomo ciami (real estate management) codek, Floyd M. Baird (2016): Property Manage er (2016): The Book on Managing Rental Property STUDENT WORKLOAD	dentów ze szczeg e basis of knowl ndent work in g ectures and clas Type of credit zaliczenie z ocen zaliczenie z ocen ement 10th Editic	ólnymi potrzeba edge verificat roups carried sses. Grade cal method Arytmetyczi n, Dearborn Ro	EP10,EP2 EP8,EP9 ami na waru ion. out during c. Wei ana eal Estate E	ght for the verage
Grading criteria Final grade calculation method Basic reading Supplementary reading	ZAJ C Metody i zasadact Form a Lecture Grade c Final gr Sem. 5 5 5 8 Robert La Cros Brando	IA PRAKTYCZNE formy weryfikacji e n okre lonych w Rea nd terms of exam e: Students are ev sion classes: St and the draft pla calculation principle rade from the cou Course zarz dzanie nieru [wykład] zarz dzanie nieru [wiczenia] C.Kyle, Marie S.Sp sse n & Heather Turne	(WERYFIKACJA POPRZEZ OBSERWACJ) fektów uczenia si mog zosta zmienione dla stu gulaminie Studiów Uniwersytetu Szczeci skiego. nination: valuated on the basis of a written test on the udents are evaluated on the basis of independent an for real estate management. es urse is the arithmetic mean of grades from la uchomo ciami (real estate management) uchomo ciami (real estate management) uchomo ciami (real estate management) uchomo ciami (real estate management) uchomo ciami (real estate management) oodek, Floyd M. Baird (2016): Property Manage rr (2016): The Book on Managing Rental Property STUDENT WORKLOAD No. of hours	dentów ze szczeg e basis of knowl ndent work in g ectures and clas Type of credit zaliczenie z ocen zaliczenie z ocen ement 10th Editic	ólnymi potrzeba edge verificat roups carried sses. Grade cal method Arytmetyczi n, Dearborn Ro	EP10,EP2 EP8,EP9 ami na waru ion. out during c. Wei a na eal Estate E	ght for the verage
Grading criteria Final grade calculation method Basic reading Supplementary reading	ZAJ C Metody i zasadact Form a Lecture Grade o Final gr Sem. 5 5 5 8 Robert La Cros Brando	IA PRAKTYCZNE formy weryfikacji e n okre lonych w Re- nd terms of exam e: Students are ev sion classes: St and the draft pla calculation principle rade from the cou Course zarz dzanie nieru [wykład] zarz dzanie nieru [wiczenia] C.Kyle, Marie S.Sp sse n & Heather Turne	(WERYFIKACJA POPRZEZ OBSERWACJ) fektów uczenia si mog zosta zmienione dla stu gulaminie Studiów Uniwersytetu Szczeci skiego. nination: valuated on the basis of a written test on the udents are evaluated on the basis of independents are evaluated on the basis of independent. es urse is the arithmetic mean of grades from lagendown ciami (real estate management) uchomo ciami	dentów ze szczeg e basis of knowl ndent work in g ectures and clas Type of credit zaliczenie z ocen zaliczenie z ocen ement 10th Editic erties, BiggerPoc	ólnymi potrzeba edge verificat roups carried sees. Grade cal method Arytmetycza n, Dearborn Ro kets Publishing	EP10,EP2 EP8,EP9 ami na waru ion. out during c. Wei a na eal Estate E	ght for the verage

Participation in test / exam	2	0
Preparation for contact hours	13	0
Private reading and studying	12	0
Participation in tutorials	12	0
Preparation of project / essay / etc.	0	0
Preparation for test / exam	6	0
TOTAL workload	75	
ECTS credits	3	

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Course title: Course code: zarz dzanie prac zespołow (team work management) EFZ71AIJ3433_6S (KIERUNKOWE) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Profile of study: Specialty: general academic first-degree, full - time Course / module status Language of instruction: semester: 1 - english language obligatory No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning discussion classes 1 1 2 15 0 pg Total 15 2 Course / module dr JAROSŁAW POTERALSKI coordinator Course instructor dr ALEKSANDRA RUDAWSKA Course / module The goal of the course is to familiarize students with the basic principles of team work management, by developing objectives their skills and managerial competence Prerequisites Basic knowledge of human resources management, communications and strategic planning LEARNING OUTCOMES Ref. to programme No. Code Description Category benchmarks K_W11 Student explains essence, role and main features of 1 EP1 K_W12 teams and distinguishes teams from groups K_W14 knowledge Student describes factors that determine effective K W12 2 EP2 teamwork K_W14 Student identifies problems occurring during teamwork 1 EP3 K_U18 and proposes solutions Student prepares written assignments on the topic of K U16 skills 2 EP4 teamwork K_U17 Student is ready to formulate their own ideas and prepare K_U01 EP5 3 K_U04 projects. No. of hours CONTENT Semester w tym elearning Subject title: zarz dzanie prac zespołow (team work management) Format of instruction: discussion classes 2 0 1. The essence of teamwork 1

 2. Teamwork building blocks

 3. Teamwork development

 4. Leadership in teams

 5. Problem solving and decision making in teams

 6. Team effectiveness

7. Communication and conflict management in a team

0

0

0

0

0

0

1

1

1

1

1

1

3

2

2

2

2

2

Modes of delivery	Lecture with presentations and group discussion., Case study analysis., Simulations - games and exercises considering communication, creativity, problem solving in smaller and bigger teams (learning by doing and observing)								
						No. of learning outcome from the syllabus			
Assessment methods	KOLO	KOLOKWIUM							
	PRAC	A PISEMNA/ ESEJ/	RECENZJA			EP1,EP3,EP4,EP5			
	Metody zasadac Credit	i formy weryfikacji ef h okre lonych w Reg consists of three	ektów uczenia si mog zosta zmienione dla s ulaminie Studiów Uniwersytetu Szczeci skieg elements:	studentów ze szczegó o.	Inymi potrzeba	mi na warunkach i			
	-Case of a te -Class -Final	study on topic: "E am - written assign assignments and test - 30%	ffective teamwork" based on articles from ment and presentation - 60% case studies - 10%	n "Harvard Busines	s Review" ar	nd selected example			
Grading criteria	Grade	calculation principle	s						
	The fir	nal grade is the gra	de obtained from the exercises.						
Final grade calculation	Sem.	Course		Type of credit	Grade cal method	c. Weight for the average			
method	1	1 zarz dzanie prac zespołow (team work management) Wa ona							
	1		1,00						
Basic reading	Katzenbach J.R., Smith D.K., (2005): The discipline of teams., Harvard Business Review July-August, pp. 162-171								
	West M Blackw	West M. A., Wiley-Blackwell (2012): Effective Teamwork: Practical Lessons from Organizational Research, 3rd ed., Wiley- Blackwell							
	Edmondson, A. C, (2012): Teamwork on the fly: How to master the new art of teaming, Harvard Business Review (April)								
	J. Brett, K. Behfar, M.C. Kern (2006): Managing Multicultural Teams, Harvard Business Review, November								
Supplementary reading	L. Gratton, T.J. Ericson (2007): 8 Ways to Build Collaborative Teams, Harvard Business Review, November								
	Pentland A. (2012): The new science of building great teams, Harvard Business Review (April)								
	Rudaw and Bu	vska A. " (2017): St usiness Administratio	tudents' Team Project Experiences and Their Attitudes Towards Teamwork, Journal of Managemer on. Central Europe" Vol. 25, No. 1/2017, p. 78–97						
			STUDENT WORKLOAD						
			No. of hours						
			W tym e-learning						
Contact hours			15						
Participation in test / exam			2						
Preparation for contact hours			0 0						
Private reading and studying			5 0						
Participation in tutorials			6	0					
Preparation of project / essay / etc.		12	0	0					
Preparation for test / exam			10	0					
TOTAL workload			50						
ECTS credits		2							

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z Course title: Course code: zarz dzanie projektami (project management) US71AIJ2717_44S (KIERUNKOWE) Name of field of study: **Economics and IT Applications** Mode and cycle of study: Profile of study: Specialty: general academic first-degree, full - time Course / module status Language of instruction: semester: 6 - english language obligatory No. of hours Form of Year Semester Type of credit ECTS instruction w tym e-learning laboratory 15 0 pg 6 3 3 lecture 15 0 pg Total 30 3 Course / module dr TOMASZ ŁUKASZEWSKI coordinator Course instructor dr GRZEGORZ SZYJEWSKI The objective of this course is to introduce students to the fundamentals of project management framework, with Course / module special emphasis on the problems of defining, planning and implementation of projects. objectives Prerequisites No requirements. LEARNING OUTCOMES Ref. to programme Category No. Code Description benchmarks Student has knowledge about system and object lifecycle knowledge 1 EP1 problems in the area of software engineering. K W13 Student has ability to plan, to schedule and to implement K U12 skills 1 EP2 systems or processes using proper methods and K_U17 techniques K K01 Student is ready to prepare projects and cooperate within 1 EP3 social competences a group and be its leader. K_K03 No. of hours CONTENT Semester w tvm elearning Subject title: zarz dzanie projektami (project management) Format of instruction: lecture 2 0 1. Introduction to Project management 6 3 0 2. Scope management in projects 6 2 3. Time management in projects 6 0 6 4 0 4. Cost management and project finance 2 0 5. Risk management in projects 6 2 6. Project tracking and controlling 6 0 Format of instruction: laboratory 2 1. IT Project Scheduling 6 0 3 2. Development of Work Breakdown Structure (WBS) 6 0

3. Time analysis using Critical Path Method						6	2	0	
4. Resource definition and assignment.						6	2	0	
5. Cost management and	project	budgeting				6	2	0	
6. Using IT application (MS Project) to support Project management 6					6	2	0		
7. Project tracking						6	2	0	
Modes of delivery	Projec Workir Case s Lectur	t development ng in groups studies es with visual tech	niques						
							No. of learning outcome from the syllabus		
Assessment methods	PROJE	-кт					EP1.EP2 FP3		
	Metody i zasadac	i formy weryfikacji ef h okre lonych w Reg	ektów uczenia si mog zosta zmienione dla stu ulaminie Studiów Uniwersytetu Szczeci skiego.	dentów ze sz	zczegól	nymi potrzeba	ami na	warunkach i	i
	The gr The gr To get	ade for laboratorie ade for the lecture	s depends on evaluation of the project dev and the cvaluation of the Project Control E s to be able to develop a project and to ana	eloped in N Book Ilvze it.	IS Pro	ject			
Grading criteria	Grade	calculation principle	s						
The final grade is the arithmetic average of grades obtained from the lecture and laboratories.									
	Sem.	Course		Type of c	credit	Grade calc. method		Weight for average	the e
Final grade calculation method	6	zarz dzanie proje	ktami (project management)	!		Arytmetyczi	na		
	6	zarz dzanie proje	ktami (project management) (laboratorium)	ocen	Z				
	6	zarz dzanie projektami (project management) [wykład] <u>cen</u> t Management Institute (2012): A guide to the project management institute (2012): A guide to the project management institute (2012): A							
Basic reading	Manag	ement Institute	Lute (2013). A guide to the project management body of knowledge : (PMBOK Guide), Project						
Kathy Schwalbe (2012): A		n Introduction to project management, Kathy Schwalbe, LLC,							
Trevor Leonard Young (20			113): Successful project management, Kogan Page						
			STUDENT WORKLOAD						
			No. of hours						
			W tym e-learning			ning			
Contact hours			30	0	0				
Participation in test / exam			4	0	0				
Preparation for contact hours			5	0					
Private reading and studying			5	0					
Participation in tutorials			8	0	0				
Preparation of project / essay / etc.			15	0	0				
Preparation for test / exam			8 0						
TOTAL workload			75						
ECTS credits			3						

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z

	-5/272										
Unit: Analiza i diagnoza w	przedsi biors	stwie (Analysis an	nd diagno	sis in enterpris	e [moduł]					
Course title: zarz dzanie ryzykien (KIERUNKOWE)	n (risk manage	ement)					Course code: US71AIJ2860_	45S		
Name of field of study: Economics and IT Ap	oplications										
Mode and cycle of study: Profile of study: Specialty: first-degree, full - time general academic Specialty:							:				
Course / module status elective					Language of semester	instruction: : 4 - english I	angua	ige			
Ver)r	r Form of instruction		No. of	hours		Type of credit	F	erts.	
	Semester					w tym e-learni	ng	Type of credit	L		
2	4		discussion classes		15	0		pg		3	
			lectu	ure	15	0		pg			
Total					3	80				3	
Course / module coordinator	dr hab. TOMA	SZ BE	RNAT								
Course instructor	Course instructor dr hab. TOMASZ BERNAT										
Course / module objectives	Course / module objectives Study how to think about business from the perspective of of the risks that threaten its existence. Analysis and application of ways of controlling risks.										
Prerequisites	Prerequisites The student knows the basics of economics, finance, mathematics and the principles of market economy, student know current economic events. The student is able to think analytically, properly formulate conclusions based on their knowledge of the news from economic life.										
				LEARNI	NG OUTCOMES						
Category		No.	Code	Descript	ion				Ref. to p benc	orogramme hmarks	
knowledge		1	EP1	Student knows basic methodology of risk management K_ K_ K_				W01 W06 W07 W10			
skills 1 EP2 Student can make an analysis of company activity in pattern of risk and methods of avoiding the risk						K_ K_ K_	K_U01 K_U03 K_U05 K_U07				
social competences1EP3Student is ready to cooperate within an international group of people in order to carry out businessK_K01							_K01				
CONTENT						Semester	No. of hours				
Subject title: zarz dzanie ryzykiem (risk management)								learning			
Format of instruction: lec	ture		_ *								
1. Risk - definitions and classifications						4	2	0			
2. The risk management process					4	2	0				
3. Risk management objectives vs. goals of the enterprise					4	1	0				
4. Identification of risks in business 4 2						2	0				
5. The risk assessment						4	2	0			

6. Composure risk					4	2	0			
7. The financing and insurance risk					4	2	0			
8. Risk management in practice					4	2	0			
Format of instruction: disc	ussion c	lasses					-			
1. Risk - definitions and	classific	ations, uncentainty	, the risk management process		4	2	0			
2. Risk management pro of risk management	cess, ob	jectives vs. goals o	of the enterprise in the risk management, the	e practice	4	2	0			
3. Identification of risks of identification	in busine	ess, the objective o	f risk identification, methods if identificatior	n, practice	4	2	0			
4. The risk assessment of		4	2	0						
5. Composure risk, alter	native ob	pjectives of risk con	nposure, optimal decision, the practice of ri	sk	4	2	0			
6. The financing and insurance as a risk mana	urance ri agement	sk, method of risk tool, optimalisatio	financing, insurance, the types of insurance n of the risk financing	,	4	2	0			
7. Risk management in p	oractice,	the case studies ar	nalysis, using the methods of risk managem	ent	4	3	0			
Modes of delivery	Main f also d	orm of knowledge liscussions and so	transfer is lectures with case studies. The m	nain way of e	excercises is cas	e studies	solving,			
						No. of learning				
						syll	abus			
Assessment methods	KOLO					EP1,EP2	E,EP3			
	PREZ	ENTACJA				EP1,EP2,EP3				
	Metody zasadad	i formy weryfikacji ef ch okre lonych w Reg	ektów uczenia si mog zosta zmienione dla stud Julaminie Studiów Uniwersytetu Szczeci skiego.	lentów ze szcz	zególnymi potrzeba	ami na waru	inkach i			
	Credit	for classes: prese	ntation of the own case studies with the exa	mple of risk	management.	ort for exer	cise mark			
	Crodit	for loctures: a test			ion and a suppe					
Grading criteria	Creait for lectures: a test done on e-studia system.									
Oracing cittena	Grade calculation principles									
The final grade of the course is calculated on the basis arithmetic average exercise and lecture.										
	Sem. Course Type of				edit Grade cal	c. We	ight for the average			
Final grade calculation	4	zarz dzanie ryzyk	iem (risk management)		Arytmetycz	na				
method	4	zarz dzanie ryzyk	iem (risk management) [wiczenia]	zaliczenie z ocen						
4 zarz		zarz dzanie ryzyk	iem (risk management) [wykład]	zaliczenie z ocen						
The Art of Service - Enterprise Risk Management Plan Publishing (2021): Enterprise Risk Management Plan A Comple						mplete				
Basic reading Basic reading George Rejda, Michael McNamara (2016): Principles of Risk Management and Insurance, Pearson Series in Finance, London										
Christopher J Hodson (2019): Cyber Risk Management: Prioritize Threats, Identify Vulnerabilities and Apply Controls, Kogar										
	Christian B. Smart (2021): Solving for Project Risk Management: Understanding the Critical Role of Uncertainty in Project									
Supplementary reading	journal : International Journal of Risk Assessment and Management, Inderscience									
	journa	ournal : Risk Management , Palgrave Macmillan								
	1.		STUDENT WORKLOAD							
No. of hours										
				W tym e-	V tym e-learning					
Contact hours			30	0						
Participation in test / ex	am		0	0						
Preparation for contact hours			12	0						

Private reading and studying	10	0		
Participation in tutorials	8	0		
Preparation of project / essay / etc.	15	0		
Preparation for test / exam	0	0		
TOTAL workload	75			
ECTS credits	3			
COURSE SYLLABUS AND SPECIFICATION

Curriculum title: USEFZ-EaITA-O-I-S-23/24Z

Course titles								
zastosowania pakie (KIERUNKOWE)	tów statystyczn	ych (statistical s	oftware ap	plications)		Course code: US71AIJ2856_3	55
Name of field of study: Economics and IT /	Applications							
Mode and cycle of study: first-degree, full - time			Profile of study: Specialty: general academic					
Course / module status obligatory					Language of semester	f instruction: : 4 - english lang i	lage	
Voar	ear Semester		Form of instruction		No. of hours		Type of credit	ECTS
i cai						w tym e-learning	Type of credit	LOIS
2	4		laborat	tory	30	0	pg	2
Total					30			2
Course / module coordinator	dr KRZYSZTOF	F DMY	TRÓW	·				
Course instructor	dr KRZYSZTOF	dr KRZYSZTOF DMYTRÓW						
Course / module objectives	Goal of the coulanguage, espective correlations be	Goal of the course/module: to teach students handling of statistical software such as Analysis ToolPak and R language, especially in order to recognise and analyse statistical regularities of economic variables distributions, correlations between variables and dynamics of variables observed in many markets.						
Prerequisites	 Knowledge: a knowledge of descriptive statistics, statistical inference, econometric modelling and general economic knowledge of macro- and microeconomics phenomena analysis is demanded. Skills: abilities to determining descriptive parameters in statistics, drawing conclusions from data deriving from random sample, interpreting analysis results and drawing logical conclusions as a result of inductive reasoning. Competencies (Attitudes): Student is aware of advantages and disadvantages of using statistical computer software 							
				LEARNIN	G OUTCOMES			
Category		No.	Code	Descriptio	on			Ref. to programme benchmarks
		1	EP1	Student is aware of advantages and disadvantages of using selected statistical software			K_W08	
- knowledge -		2	EP2	Student knows methods and tools in the processing and storage of information, and is able to prepare and analyse statistical data			K_W06 K_W10	
		3	EP3	Student knows assumptions, methods and tools of economic phenomena forecasting			K_W08 K_W10	
		1	EP4	Student is able to use his knowledge about statistical software applications such as Analysis ToolPak and R language in order to analyse real economic phenomena and processes			K_U06	
				and proc	e in order to a esses	nalyse real econo	omic phenomena	K_U10
skills	_	2	EP5	and proc Student economi applicati the right	e in order to a sesses is able to ana c phenomena ons such as <i>l</i> way	nalyse real econo lyse causes and o using statistical Analysis ToolPak	omic phenomena course of software , or R language in	K_U10 K_U10
skills		2	EP5 EP6	and proc Student economi applicati the right Student statistica ToolPak	e in order to a sesses is able to ana c phenomena ons such as a way is able to fore al software ap or R languag	nalyse real econo lyse causes and o u using statistical Analysis ToolPak ecast economic pl plications such a je in the right way	omic phenomena course of software or R language in nenomena using s Analysis	K_U10 K_U10 K_U10
skills social competences	-	2 3 1	EP5 EP6 EP7	and proc Student economi applicati the right Student statistica ToolPak Student because software	e in order to a sesses is able to ana c phenomena ons such as a way is able to fore al software ap or R languag of permanen development	nalyse real econo lyse causes and o a using statistical Analysis ToolPak ecast economic pl plications such a le in the right way the need of contin t computer tools	omic phenomena course of software or R language in nenomena using s Analysis nual learning and statistical	K_U10 K_U10 K_U10 K_K02
skills social competences	-	2 3 1 2	EP5 EP6 EP7 EP8	and proc Student economi applicati the right Student statistica ToolPak Student because software Student importar	e in order to a sesses is able to ana c phenomena ons such as a way is able to fore al software ap or R languag of permanent development realizes that to in real econ	nalyse real econo lyse causes and o a using statistical Analysis ToolPak ecast economic pl plications such a ge in the right way the need of contin t computer tools t he statistical soft omic application	omic phenomena course of software or R language in nenomena using s Analysis nual learning and statistical ware is highly	K_U10 K_U10 K_U10 K_K02 K_K02
skills social competences		2 3 1 2	EP5 EP6 EP7 EP8 CONTENT	and proc Student economi applicati the right Student statistica ToolPak Student because software Student importar	e in order to a sesses is able to ana c phenomena ons such as a way is able to fore al software ap or R languag understands of permanent development realizes that t	nalyse real econo lyse causes and o a using statistical Analysis ToolPak ecast economic pl plications such a ge in the right way the need of contin t computer tools a t he statistical soft omic applications	omic phenomena course of software or R language in nenomena using s Analysis nual learning and statistical ware is highly s	K_U10 K_U10 K_U10 K_K02 K_K02 No. of hours

Format of instruction: labor	atory								
1. Methods of distribution analysis for economic variables, using statistical software called Analysis 1 ToolPak (in Excel). Statistical data preparing and analysis with the use of tools such as Histogram, 4 4 Descriptive Statistics. Rank and Percentile. 4 0							0		
2. Regression and correlation analysis for economic variables, using Analysis ToolPak's tools such as Covariance Correlation Regression							0		
Covariance, Correlation, Regression. 3. 3. The probability determining for selected distributions of random variables and statistical hypothesis verification with the use of Analysis ToolPak's tools such as Random Number Generation, Sampling, Analysis of Variance (ANOVA): Single Factor, Two-Factor with Replication, Two-Factor without Replication. F-test Two Sample for Variance, t-test: Paired Two Sample for Means, t-test: Two-Sample Assuming Equal Variances, t-test: Two-Sample Assuming Unequal Variances, z-test: Two Sample for Means 4							2	0	
4. Application of R language using in the distribution analysis for economic variables. 4 4 0								0	
5. The probability determining for selected distributions of random variables and statistical hypothesis verification with the use of R language, such as: Analysis of Variance (ANOVA): Single Factor, Two-Factor, Two-Factor with Replication, Two-Factor without Replication. F-test Two Sample for Variance, t-test: Paired 4 0 Two Sample for Means, t-test: Two-Sample Assuming Equal Variances, t-test: Two-Sample Assuming Unegual Variances, z-test: Two Sample for Means. 4 0							0		
6. Correlation and regress	sion ana	lysis in R language	e		4	2	4	0	
7. Time series and foreca smoothing models.	sting in	R language: trend	analysis, analysis of seasonality and expo	nential	4	2	2	0	
8. Measuring the similarit classification trees and line	y. Multiv near ord	variate statistical a lering. Application	nalysis: Cluster analysis, factor analysis, of GDM in R software environmental.		4	6	6	0	
Modes of delivery	Educa explain teache	tion methods: A sh ning the main goal er.	nort introduction to the lesson as a multime of laboratories and problems to sort out. T	edia presen he rest of l	tation (15-20 essons - con) min.), nputer w	vork supe	ervised by	
							No. of lo	earning from the	
							syllabus		
Assessment methods	PROJEKT						EP1,EP2,EP3,EP4,E P5,EP6,EP7,EP8		
	Metody i formy weryfikacji efektów uczenia si mog zosta zmienione dla studentów ze szczególnymi potrzebami na warunkach i zasadach okre lonych w Regulaminie Studiów Uniwersytetu Szczeci skiego.								
Grading criteria	Students receive grade 3.0 if they obtain at least 50% of total number of points from the project. Students receive grade 3.5 if they obtain at least 70% of total number of points from the project. Students receive grade 4.0 if they obtain at least 80% of total number of points from the project. Students receive grade 4.5 if they obtain at least 90% of total number of points from the project. Students receive grade 4.5 if they obtain at least 90% of total number of points from the project. Students receive grade 5.0 if they obtain at least 95% of total number of points from the project. Grade calculation principles The final grade is equal to the grade obtained from laboratories.								
	Sem.	Course Type of credit Grade of methods				ade calc. nethod	c. Weight for the average		
Final grade calculation method	4	zastosowania pakietów statystycznych (statistical software Nieoblicz				bliczana			
	4 zastosowania pakietów statystycznych (statistical software zaliczenie z applications) [laboratorium] ocen								
	Aczel, A., Sounderpandian, J. (2009): Complete Business Statistics 7th Edition, McGraw-Hill/Irwin								
Basic reading Cleff, Thomas (2019): Ap Using SPSS, Stata, and			plied Statistics and Multivariate Data Analysis for Business and Economics. A Modern Approach Excel, Springer, Cham						
Supplementary reading	Venables, W. N., Smith, D. M. and the R Core Team (2021): An Introduction to R								
			STUDENT WORKLOAD						
			No. of hours						
				W tym	e-learning				
Contact hours			30	0					
Participation in test / exa	am		0	0					
Preparation for contact h	nours		3	0					
Private reading and studying			2	0					
Participation in tutorials		5	0						

Preparation of project / essay / etc.	10	0
Preparation for test / exam	0	0
TOTAL workload	50	
ECTS credits	2	