Specjalność:

Smart and innovative business – ang.

			В	Bialysto	ok Univ	ersity o	f Techr	nology			
Field of study			Ма	nagem	Degree level and programme type	second degree full-time					
Specialization/ diploma path		Smar	t and ir	nnovati	ive bus	iness		Study profile	academic		
Course name		N	/lanage	ment c	oncept	s		Course code	ZSUA01142		
			9-					Course type	obligatory		
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	1		
of tuition	30	60						No. of ECTS credits	5		
Entry requirements											
Course objectives	Famil knowl by stu to the studie	The demonstrate of the essence and limitations of each classical concept of management. Familiarize students with the main concepts of management oriented to quality, processes and knowledge. Practice the use of various management concepts in particular organizations. Acquisition by students of the ability to choose and implement contemporary management concepts according to the needs of the organization. Preparation of task classes and presentation the selected case studies worked out during teamwork on students discussion forum.									
Course content	and the organ Class busing Concernic	Lecture: The essence of management organizations - overview of the classical management concept and the behavioural management perspective. The systems and the contingency perspective of organizations. Classes: Management concepts focused on quality and processes ISO 9001, TQM, Six Sigma, business process reengineering, outsourcing, Lean Manufacturing, benchmarking and CRM. Concepts of management-oriented knowledge: knowledge management, competency management, learning organization and virtual organization. Management concepts human-oriented, and corporate social responsibility.									
Teaching methods		Lecture - multimedia presentation; Classes - case study, problem analysis									
Assessment method	Le	Lecture – written exam, classes – test; multimedia presentation of the management concept chosen by students, case studies									
Symbol of learning outcome				Le	arning			,	Reference to the learning outcomes for the field of study		
LO1						rinciple		agement concepts, lementation of the	Z_W11, Z_W02		
L02			taking	place ir	course conter	and the	organiz		Z_W13		
LO3				mar	nageme	nt conc	epts	on in the modern	Z_U01, Z_K03		
LO4				mar	nageme	nt conc	epts	implementation of	Z_U05 Z_U08		
LO5	Pr							ed management e organization	Z_U05 Z_U07 Z_U13		
LO6				Ca	an work	in a tea	m		Z_U10, Z_K01, Z_K03		
Symbol of learning outcome		N	lethods	of ass	sessing	the lea	rning o	outcome	Type of teaching activities (if more than one) during which the outcome is assessed		
LO1					exam	ı, test			L, C		
LO2					exam	ı, test			L, C		
LO3			test, pr	esenta	tion, eva	aluation	of case	study	С		
LO4			test, pr	esenta	tion, eva	aluation	of case	study	С		
LO5			test, pr	esenta	tion, eva	aluation	of case	study	С		

LO6	test, presentation, evaluation of case study	(
	Student workload (in hours)	No. of	hours					
	participation in classes	6	0					
	lecture attendance	3	0					
	collecting materials and preparing a multimedia presentation	1	2					
Calculation	participation in student-teacher sessions	į	5					
	preparation for the test	1	0					
	preparation for the exam and participation on it	8	3					
	TOTAL:	12	25					
	HOURS	No. of ECTS credits						
Student we	orkload – activities that require direct teacher participation	97	3,9					
	Student workload – practical activities	85	3,4					
Basic references	Borkowski S., Sygut P. (ed.), Toyota's principles as the key to success in European condition, Oficyna Wydawnicza Stowarzyszenia Menedżerów Jakości i Produkcji, 2015. Certo S., Certo, T., Modern Management: Concepts and Skills (14th Edition), Pearson Education, 2016.							
Supplementary references	 Frankel A. J., Gelman S.R., Case Management, an Introduction to Oxford University Press 2016. Harvard Business Review. Journal: Engineering Management in Production and Services. ISSN 0813 (online). 	·						
Organisational unit conducting the course	Department of Management, Economics and Finance	Date the pro	of issuing gramme					
Author of the programme	Andrzej Pawluczuk, PhD 30.11.2020							

				Bialy	stok Uı	niversit	y of Te	chnology			
Field of study			Ма	nagem	ent			Degree level and programme type	second degree full-time		
Specialization/ diploma path		Smar	t and ir	academic							
Course name		Dev	cholog	v in m:	ananem	ant		Course code	ZSUA01288		
oodi se mame		1 39	citolog	y	unagen	ion.		Course type	obligatory		
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	1		
of tuition	15	15						No. of ECTS credits	2		
Entry requirements					•			-			
Course objectives	of an	alytical ologica	and in and in the state of the	nterpre ning. D	tational evelopr	skills ment of	pertine social c	nt to management ompetences through	ment science. Development in the context of human the knowledge of teamwork.		
Course content Teaching	Lectures: The science of psychology. The field of psychology of management and levels of its inquiry (organisational and individual). Psychological notions of human being and their application in management. Psychological conditions of human behaviour in organisations: the role of cognitive and affective processes and dispositional structures of psyche (temperament, personality, attitudes, values). Development of professional stress and means of its elimination. Effective guidance (with special emphasis on the construct of motivation). Classes: Cognitive vs emotional intelligence and their role in professional functioning (with emphasis on management roles). Personal predispositions and conditions for certain professional roles. Management personality types. Strategies for effective team building. Conflicts at the workplace and the development of good relations. Styles of communication and notions of effective communication. Psychological resilience.										
methods		lectures (with multimedia presentation of selected topics), workshops, presentations, discussion, creative problem-solving									
Assessment method	le	cture –	test bas					es – test, teamwork e sed after each sessio	valuation (presentation), n		
Symbol of learning outcome				Le	arning	outcom	es		Reference to the learning outcomes for the field of study		
L01	to u	se then	n as a c	ontext i	n the ar	nalysis d	of mana	s in psychology and gement problems.	Z_W04, Z_W13		
LO2	of p	syche, functior	their rel ning in a	ations a	and role	from the	e persp al-orien	sitional structures pective of effective ted behaviour.	Z_W04, Z_U3		
LO3	C	ondition	s of lea	dership	and fa leade	ctors co rship.	ntributi	of a leader, culturaling to successful	Z_W04, Z_U09, Z_U12		
LO4			conflicts	levera	ging psy	/chologi	cal kno	ion of interpersonal wledge.	Z_W04		
LO5	·			inte	rperson	al relation	ons.	nd maintain positive	Z_W04, Z_U12		
LO6								del and presents ts in the workplace.	Z_W13, Z_U09, Z_K01		
Symbol of learning outcome		M	ethods	of ass	essing	the lea	rning o	utcomes	Type of tuition during which the outcome is assessed		
L01		L-	– test, C	- test	, worksh	nop acti	ity, pre	esentation	L, C		
LO2		L-	– test, C	- test,	, worksh	nop acti	ity, pre	esentation	L, C		
LO3		L-	– test, C	C – test,	, worksh	nop acti	ity, pre	esentation	L, C		
LO4		L-	– test, C	- test,	, worksh	nop acti	ity, pre	esentation	L, C		
LO5		test, wo	orkshop	activity	, teamv	vork eva	luation	(presentation)	С		

LO6	L – test, C – test, workshop activity, presentation L, C								
	Student workload (in hours)	No. of	hours						
	lecture attendance	15							
	classes (attendance)	1	5						
	preparation for classes	ţ	5						
	participation in consulations	ţ	5						
Calculation	preparation of presentations	2	2						
	lecture test study	;	3						
	classes test study	į	5						
	TOTAL:	50							
	Quantitative indicators	HOURS	No. of ECTS credits						
Student wo	orkload – activities that require direct teacher participation	35	1,4						
	Student workload – practical activities	30	1,2						
Basic references	 Goleman D., Leadership: the power of emotional intelligence: select More Than Sound, 2011. Szydło J., Szpilko D., Rus C., Osoian C., Management of multicultur learned from university students, Oficyna Wydawnicza Politechniki Bi Satinder D., Holistic Leadership. A New Paradigm for Today's Leader Goleman D., Guidelines for best practice. (how to improve emotiona 'Emotional Intelligence')(Cover Story), Training & Development, Oct, 	ral teams. Prac iałostockiej, Bia rs, Springer 20 al intelligence)(1998, Vol.52(1	etical lessons alystok 2020. 117. (excerpt from 0), p.28(2).						
Supplementary references	 Szultz D., Schultz S.E., Psychology and work today. Prentice-Hal Inc. 2014. Kerpen D., The art of people: The 11 simple people skills that will ge Copyright by Dave Kerpen 2016. 		. ,						
Organisational unit conducting the course	Department of Management, Economics and Finance	Date of is	suing the amme						
Author of the programme	Mirosława Czerniawska, PhD 23.11.2020								

			В	Bialysto	k Univ	ersity o	f Techr	nology	
Field of study	Management							Degree level and programme type	second degree full-time
Specialization/ diploma path		Smai	t and in	nnovati	ive bus	iness		Study profile	academic
Course name		Innovative entrepreneurship						Course code	ZSUA01560
				- I				Course type	obligatory
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester No. of ECTS	1
of tuition	30	30						credits	4
Entry requirements									
Course objectives	Knowledge: the main goal is acquainting students with the theory of innovation, innovation processes in enterprises, innovative enterprise management methods, factors influencing enterprise innovativeness, innovation policy, possibilities of financing innovation and business environment, functioning and resources of enterprises, external environment of enterprises, condition of enterprise development. The aim is also to acquire knowledge about the most innovative companies (case studies) and principles of human resource management in a way that encourages innovation. Skills: the aim is to define innovations and their classification, characterizing innovative processes with particular focus on open and demand innovation, defining the principles of strategic, marketing and operational management of an innovative enterprise. Another skill is to identify factors conducive to innovation and to identify sources of funding. Students will gain knowledge of innovation policy and barriers to innovation. Social competence: developing the ability to combine innovation management theory in an enterprise with management practice, especially innovation planning.								
Course content	Devel Assur Suppo exterr suppo innova the er condu for ini	opment inptions ort for inal environal orting the ation. In interprise incive to inovation	of inrof of a kronnovation of a kronment of introduced introduced innovatives of the control of	novation nowledgon impl t of the uction of e proce egic, m tion. Cla studie	n theor ge-base ementa compan of innova esses in arketing asses: I	y. Deve d econo tion. In y and it ation. De the en y and op dentifica	elopmer omy. In novative s impac etermina terprise peration ation ar	nt of research into novation systems. Inrecompany - goals, at on innovation. Busing ants of enterprise inno. Open Innovation and management. Hund classification of innovation of innova	and innovative enterprise. enterprise innovativeness. evation and R & D policy. ctions and resources. The ess environment institutions vation. Sources of financing d UDI. Managing change in the nan resource management ovation. Heuristic methods of innovative management.
Teaching methods	lectu	re with	audiovis	sual sup	port, cl	asses: p	oresenta selec		ers, discussions based on
Assessment method			le	cture –	written	final ev		; classes – discussion	, project
Symbol of learning outcome				Le	arning	outcom	ies		Reference to the learning outcomes for the field of study
L01	all fund	lowing to	o diagno of an in	ose and inovativ	d solve o e orgar	complex nization	proble in a cor	th degree methods ms related to the nplex environment	Z_W01
LO2	of n	nanage	ment an and kn	nd quali lows the	ty scien eir relati	ces in th	ne socia other sc		Z_W02
LO3	phe inr	enomen novation o	a and o and ex ccurring	rganiza plains t in inno	itional p the com vative e	rocesse plex pro enterpris	es as we ocesses ses on e	lepth degree the ell as the theory of and phenomena examples	Z_W03
LO4	а	ind con	ditions o	of indep	endent enter	econon orises	nic activ	extent the principles ity of innovative	Z_W07, Z_W15
LO5	soc	ial proc	esses t	aking p	lace in a	an innov	ative or	lex phenomena and rganization and its on of management	Z_U03, Z_W11

	and quality sciences and the main trends in the development of the theory of innovation					
LO6	The student is able to select the sources of knowledge and to critically evaluate, analyze and synthesize them in relation to innovation in enterprises	Z_l	J04			
L07	The student is ready to think and act in an entrepreneurial way, can take part in building innovation projects and can use a foreign language at the B2 + level of the European System for the Description of Languages	Z_K03	, Z_U11			
Symbol of learning outcome	Methods of assessing the learning outcome	Type of teaching activities (if more than one) during which the outcome is assessed				
LO1	Oral final evaluation	ı	L			
LO2	Oral final evaluation	ı	L			
LO3	Oral final evaluation, discussion	ı	L			
LO4	Discussion during the class	(0			
LO5	Final project presentation	(0			
LO6	Project	(0			
L07	Discussion and project	(0			
	Student workload (in hours)	No. of hours				
	lecture attendance	3	0			
	participation in classes	3	0			
	preparation for classes	1	5			
Calculation	working on projects, reports, etc.	1	0			
	participation in student-teacher sessions	5				
	preparation for the final evaluation	10				
	TOTAL:	10	00			
	Quantitative indicators	HOURS	No. of ECTS credits			
Student we	orkload – activities that require direct teacher participation	67	2,7			
Student worklo	ad – practical activities Student workload – practical activities:	58	2,3			
Basic references	 Oslo Manual: Guidelines for Colletcing and Interpreting Innovation Da Eurostat, Paris 2005. T. Bernat (Ed.), Survey of student's entrepreneurship - cross coun Daniel Krzanowski, Szczecin 2008. S. Gudkova (Ed.), Exploring entrepreneurship: inspirations from the Warsaw 2015. 	itries analysis,	Print Group			
Supplementary references	 www.europa.eu https://europa.eu/european-union/about-eu/funding-grants_en H. Chesbrough, Open Services Innovation, Oxford 2010. Moehrle M.G., Isenmann R., Phaal R., Technology Roadmapping fo Springer, 2013. 	or Strategy an	d Innovation,			
Organisational unit conducting the course	Departrment of Marketing and Tourism		suing the amme			
Author of the programme	dr hab. Elżbieta Szymańska, prof.PB	20.11	.2020			

			В	Bialysto	ok Univ	ersity o	f Techr	nology		
Field of study			Ма	Degree level and programme type	second degree full-time					
Specialization/ diploma path		Smar	t and ir	novati	ive bus	iness		Study profile	academic	
Course name			(Civil lav	.,			Course code	ZSUA01144	
Course name				obligatory						
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	1	
of tuition	30	30						No. of ECTS credits	4	
Entry requirements								-		
Course objectives	intern action legal	Upon completion of the course, students will be able to: - know the fundamental concepts of the international civil law; - identify subjects of the International civil law and their ability to undertake actions governed by this law; - read and understand texts of normative acts; - interpret and analyze legal provisions; - formulate their own judgements on particular legal issues.								
Course content	as a conce Class system	basic la ept and f es: Solv m of the	w, ratifi typology ving pro Europe	ed inte /). blems ean Un	rnationa and cas	al agree se studio ural and	ment, la es relate d Legal	aw, regulation, local I	Polish law - the constitution aw; copyright, legal facts - er of the lecture. The legal od in days, months, month,	
Teaching methods	Lecti	ure - lec	turing, o	discuss	ion; cla	sses - c	ollabora	iting, classroom discu	ssion of the legal problem.	
Assessment method	L	ecture :							articular legal problem	
Symbol of learning outcome	concerning with differences of Civil Law, as described by Learning outcomes								Reference to the learning outcomes for the field of study	
L01	The student is able to explain the mechanism of the legal system of the state and organization and its influence on management								Z_W01, Z_W08, Z_W14	
LO2			s able to	o descr		sources	of law	and the principles of	Z_W01, Z_W08, Z_W14	
LO3	The s	tudent l		ow to a		e provis	ions of	aw to the presented	Z_U01, Z_U08, Z_U11	
LO4	TI	he stude		volved		ng decis	ions an	d tries to identify	Z_U01, Z_U08, Z_K03	
Symbol of learning outcome		N						outcome	Type of teaching activities (if more than one) during which the outcome is assessed	
L01					te	st			L	
LO2						st			L	
LO3	L - te	est, C - s	solution	of a sp		gal prob w	lem co	ncerning Polish civil	L, C	
LO4			asse	essmer	nt of wor	k in the	classro	om	С	
		Stu	dent wo	rkload	l (in hou	urs)			No. of hours	
				part	icipation	n in lect	ıres		30	
				•	ticipatio				30	
Calculation					aration				12	
				•	oation in				5	
			pr	eparati	on to gr	ading th	e lectui	re	8	

	preparation to grading the classes	1	15					
	TOTAL:	1	00					
	Quantitative indicators							
Student we	orkload – activities that require direct teacher participation	65	2,6					
	Student workload – practical activities	60	2,4					
Basic references	 The Civil Code - https://supertrans2014.files.wordpress.com/2014/06/the-civil-code.pdf Terpan, Fabien, Soft Law in the European Union—The Changing Nature of EU Law, European law journal, 2015. Andrews, Arbitration and Contract Law, Springer International Publishing, 2016. 							
Supplementary references	 Chalmers D., Davies G., Monti G., European Union Law: Text University Press, Cambridge, 2014. Frankowski S.(ed.), Introduction to Polish Law, Zakamycze, 2005. Jamroży M., Basics of law, Warszawa: Warsaw School of Economics 	and Materials	s, Cambridge					
Organisational unit conducting the course	Department of Management, Economics and Finance		ssuing the ramme					
Author of the programme	Agnieszka Baran, PhD; Mirosława Laszuk, PhD	Agnieszka Baran, PhD; Mirosława Laszuk, PhD 24.11.2020						

			E	Bialyst	ok Univ	ersity o	of Techi	nology			
Field of study	Management Degree level and programme type								second degree full-time		
Specialization/ diploma path		Sma	academic								
Course name	Cont	Contemporary methods of management and Course code							ZSUA01929		
Course name			sm	art IT t	ools	1		Course type	obligatory		
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	1		
of tuition	15	30			15			No. of ECTS credits	4		
Entry requirements											
Course objectives	econd Skills: metho	Knowledge: To acquaint students with the methods and techniques of solving problems in modern economic units, in particular enterprises. Acquainting students with management support software. Skills: Developing the ability to use IT tools in an enterprise. Developing the ability to use selected methods in the functioning of entities on the market. Social competences: Analysis of case studies and preparation of information on the results of the analyzed case studies.									
Course content	Class metho Comp enterp system	Lecture: Introduction to management methods and techniques. Clarification of the most important concepts. Classification of management methods and techniques. Classes: Methods used in planning and organizing. Methods to increase employee motivation. Control methods. Computer classes: Using selected IT tools supporting communication and cooperation in the enterprise. Techniques for creating attractive forms of content presentation (infographics) and systems supporting the management of mailing campaigns. Applications supporting the organization									
Teaching		of work in a team. Information systems for customer relationship management (CRM). problem lecture, information lecture, project method, problem solving, team work, role playing,									
methods Assessment method	Le	discussion, computer exercises – subject exercises Lecture – written test; exercises – tests, quality of teamwork, colloquium; computer exercises – evaluation of tasks performed during classes									
Symbol of learning outcome					arning		•	ormod daming statebook	Reference to the learning outcomes for the field of study		
L01	The	studen			ifies and			concepts, methods	Z_W01, Z_W02, Z_W11		
LO2	The		t can lis	t the ty		nanagei	nent su	pport software and	Z_W09		
LO3								applications	Z_W12, Z_U06		
LO4	The	studen			olems, a			nd correctly selects them	Z_U01,Z_U05		
LO5					dent car				Z_U12, Z_K01		
Symbol of learning outcome		N	/lethods	s of as	sessing	the lea	arning o	outcome	Type of teaching activities (if more than one) during which the outcome is assessed		
L01			L	– writte	en credi	;; C – co	olloquiur	n	L,C		
LO2			Т	asks c	arried ou	ıt durinç	g classe	s	SW		
LO3			Т	asks c	arried ou	ıt durinç	g classe	s	SW		
LO4					Collo	quium			С		
LO5			Т	asks c	arried ou	ıt durinç	g classe	s	С		
		Stu	dent wo	orkload	d (in ho	ırs)			No. of hours		
				Par	ticipatio	n in lect	ures		15		
Calculation				Par	ticipatio	n in clas	sses		30		
			Р	articipa	ition in c	ompute	r classe	es	15		

	Preparation for exercises		6					
	Performing tasks	1	10					
	Preparation for a specialist workshop	1	0					
	Participation in consultations	,	5					
	Preparation to pass the classes	,	5					
	Preparation to pass the exercises Preparation to pass the lecture		4					
	TOTAL:	1	00					
	Quantitative indicators No. of HOURS ECTS credit							
Student w	orkload – activities that require direct teacher participation	65	2,6					
	Student workload – practical activities	80	3,2					
Basic references	 Kałkowski A., Management Theory, Warsaw School of Economic, Wa Robbins S.P., Coulter M., Management, Harlow, Pearson Education, 2 Dyche J.,The CRM Handbook: A Business Guide to Customer Rel Edition. Addison-Wesley, USA, 2002. 	2018.	agement 1st					
Supplementary references	Smiciklas M., The Power of Infographics: Using Pictures to Communicate and Connect With Your Audiences (Que Biz-Tech). PEARSON EDUCATION, INC, USA, 2012. "Harvard Business Review". "ICAN Management Review".							
Organisational unit conducting the course	Department of Management, Economics and Finance		Date of issuing the programme					
Author of the programme	Justyna Grześ-Bukłaho, PhD 24.11.2020							

			В	Bialysto	k Univ	ersity o	f Techr	nology				
Field of study								Degree level and programme type	second degree full-time			
Specialization/ diploma path		Smar	t and ir	nnovati	ve bus	iness		Study profile	academic			
Course name	In	novativ	e mark			ment a	nd	Course code ZSUA01930 Course type obligatory				
Oourse name		T	mark	et rese	earch							
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	1			
of tuition	15	30			30			No. of ECTS credits	5			
Entry requirements								-				
Course objectives	the in mode provid and in of the enviro	nplement rn mark les theo nnovative course onment,	ntation keting to bretical late re market is to de constru	of inno cols. Pr knowled et resea velop s ucting q	vative resentat dge on i rch. It a tudents uestion	needs of rone	of modern we mark ou to lead all skills and plar	ern enterprises. Show techniques and rese- teting management arn the basics of market in the field of market r aning marketing activity				
Course content	Lecture: The concept of innovative marketing management and innovative market research. The importance of innovative marketing management and innovative market research in the enterprise management process. The process of innovative market research. The process of innovative marketing management. Innovative marketing management tools. Methods and techniques of innovative market research. Classes: The process of innovative market research. The process of innovative marketing management. Innovative marketing management tools. Methods and techniques of innovative market research. Application of the principles of innovative marketing management in economic practice. Principles of preparing a research report. The process of constructing the questionnaire. Principles of preparing a research report. Specialist workshop: Application of the principles of innovative marketing management in economic practice. Principles of preparing a research report. The process of constructing the questionnaire.											
Teaching methods								d presentation of the remarks method, multimedia	presentations, discussion			
Assessment method	lectu	re - writ	ten test	; exerci			•	ntation, evaluation of W- task assessment	prepared case studies and			
Symbol of learning outcome				Le	arning	outcom	ies		Reference to the learning outcomes for the field of study			
L01	def	fines inr	novative	marke	ting ma rese		ent and	innovative market	Z_W01, Z_W04			
LO2	char	acterize	es the p			ative m		g management and	Z_W04, Z_W10			
LO3				rizes th	e metho	ods and	technic	ues of innovative ative marketing	Z_U05, Z_W09			
LO4	use		nowledo marketi					ch and innovative practice	Z_U02, Z_U03			
Symbol of learning outcome								utcomes	Type of tuition during which the outcome is assessed			
L01			L	- writte	n exam	, C - wr	itten tes	t	L, C			
LO2			L	- writte	n exam	, C - wr	itten tes	t	L, C			
LO3						, C - wr			L, C			
LO4	deve							search project on a dicompany	SW			

	Student workload (in hours)	No. of	hours	
	attendance at lectures	1	5	
	participation in classes	30		
	participation in a SW	3	0	
	preparation for exercises	Ç	9	
Calaulatian	preparation for SW	1	0	
Calculation	project development	8	3	
	participation in consultations	Ę	5	
	preparation for the exam and attendance at it	8	3	
	preparation for the written test	1	0	
	TOTAL:	125		
	Quantitative indicators	HOURS	No. of ECTS credits	
Student w	orkload – activities that require direct teacher participation	82	3,3	
	Student workload – practical activities	100	4,0	
Basic references	 Kotler P., Hermawan K., Setiawan I. Marketing 4.0 : moving from trac John Wiley a. Sons, 2017 Solomon M., Marshall G.W., Stuart E.W. Marketing : real people, real Education, 2018 Hollensen S., Marketing management: a relationship approach, Harlo 	choices, Harlo	ow : Pearson	
Supplementary references	 Chernev A., Marketin plan handbook, Cerebellum Press, Chicago, 20 Kotler Ph., Marketing Moves, Harvard Business Rewiev Press, Bosto Szwarc P., Research Customer Satisfaction and Loyalty, Kogan Pres Wiśniowski W., Marketing of scientific and research organizations: and marketing book not only for scientists and researchers, Wydaw. Na Warszawa, 2012. 	11. n, 2002. s, London, 200 original, valuab	07. ole and useful	
Organisational unit conducting the course	Department of Marketing and Tourism	Date of is progra	-	
Author of the programme	dr hab. Katarzyna Krot	28.11	.2020	

			Е	Bialysto	ok Univ	ersity o	f Techi	nology		
Field of study			Ма	nagem	ent			Degree level and programme type	second degree full-time	
Specialization/ diploma path		Smar	t and i	novat	ive bus	iness		Study profile	academic	
Course name		Duoir	nr		manag	mont		Course code	ZSUA01908	
Course name		DUSII	iess pr	ocess	manage	emem		Course type	obligatory	
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	1	
of tuition	30				30			No. of ECTS credits	4	
Entry requirements								-		
Course objectives	learni proce Skills:	Knowledge: Understanding the key aspects of process management in the enterprise. Hands-on learning process design, knowledge of the principles of analysis, modelling and documentation processes. Skills: Understanding of modern IT systems supporting the process designing and analysis. Developing creativity and contextual thinking. Prepare reports on project tasks, presentation of the								
Course content	Lectur of but proce Labor	re: The siness sses. P atory cl	procestrinciplestasses:	ses. B s of me Models	usiness asurem	proces ent and cument	s man evaluat ation pr	agement life-cycle M tion processes.	nd processes. Architecture dodels and documentation scription and modelling with	
Teaching methods						Led	ture an	d projects		
Assessment method		lecture - written test, specialization workshops - assessment of work in the classroom								
Symbol of learning outcome				Le	arning	outcom	es		Reference to the learning outcomes for the field of study	
L01	stude	ent und	erstand	the pro	cess ap	proach	to ente	rprise management	Z_W01, Z_W03	
LO2		stud	dent ide	ntifies a	and clas	sifies b	usiness	processes	Z_W01, Z_W03	
LO3					levelops	•			Z_U01, Z_U06, Z_U7	
LO4	stude	nt defin	es and	analyse		cs of a p mance	rocess	and an organisation	Z_U01, Z_U05	
LO5		st	udent in	depend	dently s	olves re	search	problems	Z_U01, Z_U7	
Symbol of learning outcome		М	ethods	of ass	essing	the lea	ning o	utcomes	Type of tuition during which the outcome is assessed	
LO1			W	ritten te	est - L, v	written t	est - SV	V	L, SW	
LO2			W	ritten te	est - L, v	written t	est - SV	V	L, SW	
LO3			W	ritten te	est - L, v	written t	est - SV	V	L, SW	
LO4			W	ritten te	est - L, v	written t	est - SV	V	L, SW	
LO5			ass	essmer	nt of wo	k in the	classro	oom	SW	
	ı	Stu	dent wo	rkload	l (in hou	urs)			No. of hours	
				le	cture at	tendand	е		30	
Calculation			partic	ipation	in spec	ializatio	n works	hops	30	
Caroulation			partic	ipation	in stude	ent-teac	her ses	sions	5	
			prep	aration	to writt	en test f	rom led	ture	13	

	preparation to pass the specialization workshops	2	2					
	TOTAL:	10	00					
	Quantitative indicators	HOURS	No. of ECTS credits					
Student we	orkload – activities that require direct teacher participation	67	2,7					
	Student workload – practical activities	55	2,2					
Basic references	 Andersen B., Business process improvement toolbox, Milwaukee, ASQC Quality Press, 1999. Becker J., Kugeler M., Rosemann M., Process management: a guide for the design of business processes, Berlin, Springer-Verlag, 2003. Jeston J., Nelis J., Business process management: practical guidelines to successful implementations, Routledge, New York 2014. 							
Supplementary references	 Jones P., Strategy mapping for learning organizations: building scorecard, Burlington, VT, Gower, 2011. Jurczuk A., Wieloaspektowa identyfikacja i typologia źródeł niespójno Oficyna Wydawnicza Politechniki Białostockiej, Białystok 2019. Trkman P., Increasing process orientation with business process man International Journal of Information Management 33.1, 2013. 	ści procesów t	oiznesowych,					
Organisational unit conducting the course	International Department of Logistics and Service Engineering Date of issuing the programme							
Author of the programme	dr hab. inż. Arkadiusz Jurczuk	20.11	.2020					

			E	Bialysto	k Univ	ersity o	f Techi	nology			
Field of study			second degree full-time								
Specialization/ diploma path		Smai	rt and i	nnovati	ive bus	iness		programme type Study profile	academic		
Course name		Rueine	ess coa	china s	and ma	ntorina		Course code	ZSUA01931		
Course manie		Dusine	;55 CUa	cilling a	and me	intorning		Course type	obligatory		
Forms and number of hours	L C LC P SW FW S Semester							1			
of tuition		30						No. of ECTS credits	2		
Entry requirements											
Course objectives	busing its his familia development which	Knowledge: The aim of the classes is to familiarize students with the basic concepts of coaching, business coaching and mentoring. The student will gain knowledge about the essence of coaching, its history, the essence of change, leadership and group behavior. Skills: The student will be familiarized with good practices of business coaching and mentoring. Social competences: developing social competences through conducting and participating in coaching sessions, during which the student will acquire the ability to create a coaching contract; The student will be able to									
Course content	Settin Giving	use coaching models in practice. History of coaching. The essence of coaching. The essence of mentoring. The essence of change. Setting goals. Coaching models: Dilts pyramid, GROW model, business circle. Manager as a coach. Giving feedback. Basics of leadership. Group behavior, group processes. Best practices in mentoring and business coaching.									
Teaching methods				J		exer	cises, r	ole playing			
Assessment method					test, the	e evalua	ition of	the coaching session			
Symbol of learning outcome				Le	arning	outcom	ies		Reference to the learning outcomes for the field of study		
L01	Th	e stude	nt: unde	erstand	s the es ment		of busin	ess coaching and	Z_W03, Z_W11		
LO2		define	s conce	pts of: o	change,	leaders	ship, gro	oup processes	Z_W03, Z_W04		
LO3	is	s familia	r with a			s the be	•	ices of business	Z_W04		
LO4		deal	s with th	he conf	licts app	earing	in group	processes	Z_K06, Z_U12		
LO5		know	s how to	o use se	elected	coachin	g mode	els in practice	Z_U09,Z_U10, Z_U12, Z_K02, Z_K03,		
Symbol of learning outcome		N	lethods	s of ass	sessing	the lea	rning o	outcome	Type of teaching activities (if more than one) during which the outcome is assessed		
L01					te	st			С		
LO2			t	est, the	evalua	tion of c	oaching)	С		
LO3			t	est, the	evalua	tion of c	oaching)	С		
LO4			t	est, the	evalua	tion of c	oaching)	С		
LO5			t	est, the	evalua	tion of c	oaching)	С		
		Stu	dent wo	orkload	l (in ho	urs)			No. of hours		
				partic	ipation i	n the cl	asses		30		
Calculation				prepa	ration fo	or the cl	asses		10		
				particip	oation ir	consul	tations		5		

	proporation for the test	5						
	preparation for the test	,	ე 					
	TOTAL:	5	50					
	Quantitative indicators							
Student we	orkload – activities that require direct teacher participation	35	1,4					
	Student workload – practical activities	50	2					
Basic references	 Stoltzfus T., Coaching questions: a coach's guide to powerful asking skills, 2008 Enescu C., The organizational culture of coaching – a long term investment of modern management, Research and Science Today, 2012, pp.261-273. Wiginton J. G., Catwright, P. A., Evidence on the impacts of business coaching, The Journal of Management Development, 2020, vol. 39(2), pp. 163-183. 							
Supplementary references	 Jones R., Napiersky U., Lyubnikova J., Concepyualizing the distinct Journal of Managerial Psychology, March 2019, vol. 34 (2), pp. 62-67 Czarkowska L. (ed.), Coaching as a method of developing hur Wydawnictwa Akademickie i Profesjonalne: Kozminski University, 20 Collis D., Thinking strategically: expert solutions to everyday challeng 	, man potential 10.	· ·					
Organisational unit conducting the course	International Department of Logistics and Service Engineering, Department of Management, Economics and Finance Date of issuing the programme							
Author of the programme	Anna Kononiuk, PhD, Joanna Jończyk, PhD	27.11	.2020					

			В	ialysto	k Unive	ersity o	f Techr	ology			
Field of study			Ма	nagem	ent			Degree level and programme type	second degree full-time		
Specialization/ diploma path		Smar	t and ir	novati	ive bus	iness		Study profile	academic		
Course name		lı	nternati	onal m	arketin	a		Course code	ZSU02255		
oodi se name			iternati	Onai iii	- Curr	9		Course type	obligatory		
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	2		
of tuition	15	15						No. of ECTS credits	3		
Entry requirements		-									
Course objectives	marke strate requir	eting str gies for ements	rategies r enter of the i	in the ing int internat	internation tional m	ational i nal mai arket in	markets kets, i the fra	s. Skills: Develop the ncluding adapting n mework of team work	ation of the company and skills to plan and create narketing activities to the shop. Social competences: group.		
Course content	enterp of ma Class develoresea	Develop social competencies in interaction and collaboration within the group. Lecture: The essence and elements of international marketing. Motives of internationalization of enterprises. Forms of entry into foreign markets. International business environment. Organisation of marketing in the international company. Classes: Marketing strategies at the international markets, including strategies for entry and development of businesses at international markets. International business orientations. Marketing research at the international markets. Sources of information about international markets. Creating									
Teaching methods		the marketing mix tools on the international market. International targets and segments. Information lecture, classes: multimedia presentation, case study analysis method, discussions based on selected literature									
Assessment method						s - asse ategy fro	ssment om a giv	of the prepared grou	p project of elements of the esentation, assessment of		
Symbol of learning outcome				Le	arning	outcom			Reference to the learning outcomes for the field of study		
LO1				of the c	ompany		s the p	of the strategy of roblems of entering	Z_W02		
LO2	5	Student				terizes ernation		keting efforts of et.	Z_W04, Z_W12		
LO3	Analy	ses cas						international market.	Z_U01		
LO4		Prope	rly desig			the ma		strategy of an	Z_U02, Z_U05		
LO5	Stud	ent wor		eam, e	ngages		monstra	tes creativity in the	Z_U13 Z_K01		
Symbol of learning outcome		М						utcomes	Type of tuition during which the outcome is assessed		
LO1					writte	n test			L		
LO2						n test			L		
LO3	as	ssessm				oup proje ty during		its presentation,	С		
LO4	as	ssessm	ent of th	e prepa	ared gro		ect and	its presentation,	С		
LO5			ent of th	e prepa	ared gro	oup proj	ect and	its presentation, room observation	С		
			dent wo						No. of hours		
Calculation				atte	endance	in lectu	ires		15		

	participation in classes	1	5					
	preparation for classes		3					
	working on group project	10						
	implementation of homework		7					
	preparation for and participation in exam	1	2					
	working on multimedia presentation	;	3					
	participation in student-teacher sessions realated to classes		5					
	TOTAL:	7	5					
	Quantitative indicators							
Student w	orkload – activities that require direct teacher participation	37	1,5					
	Student workload – practical activities	46	1,8					
Basic references	 Onkvisit S., Shaw J. J., International Marketing: Analysis and Strategy Szymura-Tyc M., Babińska D., International marketing in Europ Economics, Katowice 2012. Kotabe, M., International Marketing, Sage Publication, London 2007. 	-						
Supplementary references	 Stanley Paliwoda J., International marketing, Oxford: Butterworth-Heinemann, 1994. Terpstra V., Sarathy R., International marketing, Fort Worth: Dryden Press, 1994. Czinkota M. R., Ronkainen I. A., International Marketing, Harcourt College Publishers, USA2001. Usunier, J-C., Marketing Across Cultures, Prentice Hall, 6th edition, New York 2009. Hampden-Turner Ch., Trompenaars F., The Seven Cultures of Capitalism: Value Systems for Creating Wealth in Britain, the United States, Germany, France, Japan, Sweden and the 							
Organisational unit conducting the course	Netherlands, Piatkus Books, 1995. Department of Marketing and Tourism		suing the amme					
Author of the programme	dr hab.Wiesław Popławski, prof. nzw. 20.11.2020							

			Е	Bialysto	k Univ	ersity o	f Techi	nology		
Field of study			second degree full-time							
Specialization/ diploma path		Smar	t and ir	nnovati	ive bus	iness		Study profile	academic	
Course name		N	/lathem	ZSUA02143						
								Course type	obligatory	
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	2	
of tuition	30				30			No. of ECTS credits	4	
Entry requirements		Mathematics								
Course objectives	from a progra select	a samp ams, po ing a s	le to th int and ample	e popu interval for the	lation. S estima study.	Skills: s tion of p	haping aramet compet	the ability to use, wit ers, testing statistical I	zing the results of research h the support of computer hypotheses and methods of locial competences through	
Course content	rules o	of statis alizatio	tical tes n works	ts, para hops: p	ametric oint and	hypothe	ses, no Il estima	nparametric hypothes	mators, interval estimation, es. sting statistical hypotheses	
Teaching methods					Prob	olem lec	ture, co	mputer simulation		
Assessment method	Le								s on statistical analysis,	
Symbol of learning outcome		evaluation of group work, student activity recorded by the teach							Reference to the learning outcomes for the field of study	
L01		skilfu	lly uses	the ter	minolog	y of ma	themati	cal statistics	Z_W01, Z_U03	
LO2	unde	erstand	s the im	portano	e of ma rese		cal stat	istics in conducting	Z_W06	
LO3			is	able to	select	the san	nple siz	е	Z_W03, Z_W06, Z_U03	
LO4					inferen	ce tools		the use of statistical	Z_W06, Z_U03, Z_U06	
LO5	has	the abi				esults ob ntire co		on the basis of the	Z_U03, Z_U06	
LO6	(coopera	ites in a	group	and kno	ws how	to argu	ue their choices	Z_U12, Z_K03	
Symbol of learning outcome		N	lethods	of ass	sessing	the lea	rning o	outcome	Type of teaching activities (if more than one) during which the outcome is assessed	
L01				L-knov	wledge	test, SV	/ - test		L, SW	
LO2	L-kno	owledge		i	after ea	ch class	;	rded by the teacher	L, SW	
LO3			from	the per	formed	SW – te statistic	al anal	yzes	L, SW	
LO4						SW – te statistic			L, SW	
LO5					te	st			SW	
LO6	evalua	ation of	group v	vork, st	udent a each		ecorded	by the teacher after	SW	
		Stu	dent wo	rkload	(in ho	urs)			No. of hours	
Calculation				le	cture at	tendand	e		30	

	participation in laboratory classes	3	0				
	preparation for laboratory classes	17					
	working on reports	1	0				
	participation in student-teacher sessions related to the lectures and classes	ļ	5				
	preparation for and participation in exams/tests	8	3				
	TOTAL:	10	00				
	Quantitative indicators						
Student w	Student workload – activities that require direct teacher participation						
	Student workload – practical activities	60	2,4				
Basic references	 Agresti A., Categorical data analysis, Wiley-Interscience, Hoboken 20 Frączak E., Statistics for management and economics, Warsaw Scho 2015. Kowalczyk B., Witkowski B., Mathematical Statistics for Manage Economic, Warszawa 2015. Tuffery S., Data mining and statistics for decision making, John Wiley 	ool of Economi ement, Warsa	w School of				
Supplementary references	 Daglaard P., Introductory statistics with R, Springer, New York 2008. Drăghici, Statistics and data analysis for microarrays using R and E Francis, Boca Raton, 2012. Michna Z., Statistics, Publishing House of Wrocław University of Ecor 	Bioconductor,C	RC/Taylor &				
Organisational unit conducting the course	International Departament of Logistics and Service Engineering	Date of issuing the					
Author of the programme	Justyna Kozłowska, PhD	29.11.2020					

			В	ialysto	k Univ	ersity o	f Tech	nology						
Field of study			Ма	nagem	ent			Degree level and programme type	second degree full-time					
Specialization/ diploma path		Smar	t and ir	novati	ive bus	iness		Study profile	academic					
			Maar		!			Course code	ZSUA02024					
Course name			Wacr	oecono	omics			Course type	obligatory					
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	2					
of tuition	30	30						No. of ECTS credits	4					
Entry requirements														
Course objectives	Overv deterr that e major of und discus	Knowledge: getting acquainted students with the basic principles of functioning of market economy. Overview of the main measures of economic activity and presenting the concept and principles of determining macroeconomic equilibrium. Presentation of the principles of operation and the relations that exist between goods, money and labour markets. Explanation of the differences between the major macroeconomic theories: Keynesian and classical. Skills: abilities of analysis of the problems of unemployment, inflation, and budget deficit and recession. Social Competences: substantive discussion on economic policy, teamworking.												
Course content	Econo Class in the debt, of Cer of labo meas	Lecture: Determinants of national income. Fiscal policy. Monetary policy. Labour market. Inflation. Economic growth and the business cycle. Classes: GDP, GNP and DN, the components of aggregate demand, the functioning of the multiplier in the economy. Budget functions, income and expenditure, the concept of budget deficit and public debt, public finance reform proposals. The phenomenon of demand and supply of money, the impact of Central Bank on money supply, the role of financial institutions. The concept of demand and supply of labour, measures of the labor market, the phenomenon of unemployment-types, causes. Ways of measuring, reasons, the link with the labour market - the Phillips curve. Growth measures and the conditions, the phases of the business cycle.												
Teaching methods		lecture, case study analysis, discussion												
Assessment method			Lect	ure: wr	Assessment method Lecture: written exam. Classes: homework, activity during classes.									
Symbol of	Learning outcomes						sses: h	omework, activity durir						
learning outcome				Le	arning			omework, activity durir	Reference to the learning outcomes for the field of study					
	-	The stu	dent und			outcom	es	omework, activity during	Reference to the learning outcomes for					
learning outcome	-			derstan	ds majo	outcom	es es of m	·	Reference to the learning outcomes for the field of study					
learning outcome		The	studen	derstan	ds majo	outcom or theori	es es of m policy in	acroeconomics	Reference to the learning outcomes for the field of study Z_W01, Z_W05, Z_U03					
LO1 LO2		The	e studen	derstan it descr mpares	ds majoribes eco	outcom or theori onomic nt types	es of m policy in	acroeconomics nstruments	Reference to the learning outcomes for the field of study Z_W01, Z_W05, Z_U03 Z_W03, Z_U06 Z_W05, Z_U03 Z_W13, Z_K01					
LO1 LO2 LO3		The stu	e studen ident co t identifi	derstan it descr mpares es ethi	ds major ibes econs differences cal and	outcom or theori onomic ont types social a	es of m policy in of econ spects	acroeconomics nstruments nomic systems	Reference to the learning outcomes for the field of study Z_W01, Z_W05, Z_U03 Z_W03, Z_U06 Z_W05, Z_U03					
LO1 LO2 LO3 LO4 Symbol of	The	The studen	e studen ident co t identifi	derstan it descr impares es ethic	ds major ibes eco s differe cal and sessing	outcomer theoric conomic on types social at the learness and	es of m policy in of econ spects	acroeconomics nstruments nomic systems of economic policy	Reference to the learning outcomes for the field of study Z_W01, Z_W05, Z_U03 Z_W03, Z_U06 Z_W05, Z_U03 Z_W13, Z_K01 Type of teaching activities (if more than one) during which the					
LO1 LO2 LO3 LO4 Symbol of learning outcome	The	The studen Number	e student control tidentifications of the e	derstan it descr mpares es ethic s of ass	ds major ribes economics differences and call and sessing somewo classomewo	outcome or theoric conomic on types social at the learners and uses	es of m policy in of econ spects rning of	acroeconomics nstruments nomic systems of economic policy outcome	Reference to the learning outcomes for the field of study Z_W01, Z_W05, Z_U03 Z_W03, Z_U06 Z_W05, Z_U03 Z_W13, Z_K01 Type of teaching activities (if more than one) during which the outcome is assessed					
LO1 LO2 LO3 LO4 Symbol of learning outcome	The eva	The studen Studen N Aluation	e student control tidentification of the control the c	derstan It descr Impares es ethic of ass exam, h	ds major ibes eco s differe cal and sessing omewo clas iomewo	outcome or theoric conomic on types social at the learners and sees orks and sees	es of m policy in of econ spects rning of studen	acroeconomics nstruments nomic systems of economic policy outcome t's performance in	Reference to the learning outcomes for the field of study Z_W01, Z_W05, Z_U03 Z_W03, Z_U06 Z_W05, Z_U03 Z_W13, Z_K01 Type of teaching activities (if more than one) during which the outcome is assessed L, C					
LO1 LO2 LO3 LO4 Symbol of learning outcome LO1 LO2	The eva	The studen Studen Nation aluation	e student control to identification of the earth of the e	derstan at descr mpares es ethic s of ass exam, h exam, h	ds major ibes eco s differe cal and sessing omewo clas omewo clas omewo clas	outcom or theori onomic ont types social a the lea rks and ses rks and ses rks and ses rks and	es of m policy in of econ spects rning of studen studen	acroeconomics nstruments nomic systems of economic policy outcome t's performance in	Reference to the learning outcomes for the field of study Z_W01, Z_W05, Z_U03 Z_W03, Z_U06 Z_W05, Z_U03 Z_W13, Z_K01 Type of teaching activities (if more than one) during which the outcome is assessed L, C L, C					
LO1 LO2 LO3 LO4 Symbol of learning outcome LO1 LO2 LO3	The eva	The studen Studen Number of the studen stu	e student control to identification of the earth of the e	derstan It descr Impares es ethic s of ass exam, h exam, h exam, h	ds major ribes economics differences and and sessing somewoon class somewoon class somewoon class somewoon class	outcom or theori onomic ont types social a the lea rks and ses rks and ses rks and ses rks and ses	es of m policy in of econ spects rning of studen studen	acroeconomics nstruments nomic systems of economic policy butcome t's performance in t's performance in	Reference to the learning outcomes for the field of study Z_W01, Z_W05, Z_U03 Z_W03, Z_U06 Z_W05, Z_U03 Z_W13, Z_K01 Type of teaching activities (if more than one) during which the outcome is assessed L, C L, C L, C					
LO1 LO2 LO3 LO4 Symbol of learning outcome LO1 LO2 LO3	The eva	The studen Studen Number of the studen stu	e student control tidentiff Identiff Identif	derstan It descr Impares es ethic s of ass exam, h exam, h exam, h exam, h	ds major ribes economics differences and and sessing somewoon class somewoon class somewoon class somewoon class	outcom or theori onomic ont types social a the lea rks and ses rks and ses rks and ses rks and ses	es of m policy in of econ spects rrning of studen studen studen	acroeconomics nstruments nomic systems of economic policy butcome t's performance in t's performance in	Reference to the learning outcomes for the field of study Z_W01, Z_W05, Z_U03 Z_W03, Z_U06 Z_W05, Z_U03 Z_W13, Z_K01 Type of teaching activities (if more than one) during which the outcome is assessed L, C L, C L, C L, C					

	preparation for classes	1	2					
	work on homeworks	1	0					
	participation in student-teacher sessions related to the class	5						
	preparation for and participation in exam	preparation for and participation in exam 13						
	TOTAL:	1	00					
	Quantitative indicators							
Student we	orkload – activities that require direct teacher participation	67	2,7					
Student worklo	ad – practical activities Student workload – practical activities:	55	2,2					
Basic references	 Sloman J., Essentials of economics, Prentice-Hall, Harlow 2007 Coven T., A. Tabarrok, Modern Principles of Macroeconomics, N Acemoglu D. i in., Macroeconomics, Harlow: Pearson Education 	MacMillan, 201	4.					
Supplementary references	Mishkin F. S., The economics of money, banking, and financial ma Boston 2016. 2. Miklaszewicz S., International economics, Warsaw School of Ec							
Organisational unit conducting the course	Department of Economics, Management and Finance	Date of is	suing the amme					
Author of the programme	Ewa Rollnik-Sadowska, PhD 23.11.2020							

			В	Bialysto	k Univ	ersity o	f Tech	nology			
Field of study			Ма	nagem	ent			Degree level and programme type		l degree time	
Specialization/ diploma path		Smar	t and ir	novati	ve Bus	iness		Study profile	acad	lemic	
Course name	А	cadem	ic writir	ng and	commi	unicatio	n	Course code	ZSUA	ZSUA02910	
	,,	- Cuudiii		ig unu			···	Course type	oblig	jatory	
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester		2	
of tuition		30						No. of ECTS credits		2	
Entry requirements											
Course objectives								n order to access and and written scholarly			
Course content	Acade familie science Colloc	emic Er es, para ces. Ho cations,	nglish: le aphrasir w to co paralle	exis and and mpose I struct	d synta plagiar an accu ures, ty	x. Passi ism. Co urate wr pical la	ve voice mpound itten text nguage	e in research articles d nouns in specialist kt: conjunctions, nomin errors. Dynamics of esentation in English.	. Word format texts. Plain E nals, compour	ion and word inglish in the id sentences.	
Teaching methods		· •		•	,			roup work			
Assessment method						gramma	atical ar	d lexical tests			
Symbol of learning outcome		Learning outcomes								Reference to the learning outcomes for the field of study	
L01		kno	ws spec	cialist te	erminolo	gy used	d in spe	cialist texts	Z_	U11	
LO2	kno	ws lang	uage st			in speci		ts; recognizes and	Z_	U11	
LO3	Is abl	e to des	scribe re	esearch	results		sh with	respect to copyright	Z_	U11	
LO4				used in	n specia	alist text	s; recog	gnizes and produces e components	Z_U11		
LO5		ls	able to	produc	e specia	alist text	s in pla	in English	Z_U11		
Symbol of learning outcome		N	lethods	of ass	essing	the lea	rning o	outcome	Type of teaching activities (if more than one) during which the outcome is assessed		
L01		wr	itten tes	st (pass	ive voic	e in spe	cialist o	liscourse)	(С	
LO2				writte	n test (p	oaraphra	asing)			С	
LO3	writte	n test	(discour	se com	ponent	s in coh	esive w	ritten and oral texts)		С	
LO4		W	ritten tes	st (plair	Englis	h in spe	cialist d	iscourse)		C	
		Stu	dent wo	rkload	(in ho	urs)			No. of	hours	
				C	ass par	ticipatio	n		3	30	
Calculation				prepai	ration fo	or writter	n tests		1	15	
				partic	ipation	in duty-	hours			5	
					TO	ΓAL:	_		5	50	
		C)uantita	itive in	dicator	s			HOURS	No. of ECTS credits	

Student w	orkload – activities that require direct teacher participation	35	1.4					
	Student workload – practical activities							
Basic references	 McCarthy, M., O'Dell, F., (2008) Academic Vocabulary in Use. Cambridge: CUP. Sowton, Ch., (2012) 50 Steps to Improving Your Academic Writing. Reading: Garnet Education. Śleszyńska, M., (2011) Get Ready for Technical B2. Białystok: Wydawnictwo Politechniki Białostockiej. Wallwork, A., (2016) English for Writing Research Papers. Basel: Springer. 							
Supplementary references	 Armer T. (2012) Cambridge English for Scientists. Cambridge: CUP. Greene, A. E.,(2013) Writing Science in Plain English. Chicago: The U. Grussendorf, M., (2008) English for Presentations. Warszawa: Wydaw. 	Iniversity of Ch						
Organisational unit conducting the course	Foreign Language Centre	Date of issuing the programme						
Author of the programme	Monika Śleszyńska, MA	Monika Śleszyńska, MA 29.11.2020						

			Е	Bialysto	k Univ	ersity o	f Techi	nology	
Field of study			Ма	nagem	ent			Degree level and programme type	second degree full-time
Specialization/ diploma path		Smar	t and in	nnovati	ive bus	iness		Study profile	academic
Course name	Proje	Project management in innovative business						Course code	ZSUA02932
		1	1		1			Course type	obligatory
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester No. of ECTS	2
of tuition	30	30						credits	4
Entry requirements		Manag	ement	concep	ots, Cor	ntempo	rary me	ethods of manageme	ent and and smart IT tools
Course objectives	gainin Skills: projed Socia	ng know Acquis ets, mor I compe	ledge of sition of nitoring t etence: u	f project praction their im understa	t manag cal skill plemen	ement, s to use tation ar he role	in partice mode nd contr of team	cular regarding the impern instruments of plater of effects. building in the manage	anagement of a company; olementation of innovations. anning and organization of ement of innovation projects
Course content	Basics of project management in an innovative environment - the concept and parameters of the project, project types and phases of their development, problems in the management of innovative projects. Planning process and project resources - the structure of the project, the organization of the project team, the cycle of design - realization, schedules and network methods of planning projects, identification of required resources of the project and assess their availability. Planning and control of project costs - methods of estimating costs, budgeting and monitoring the effects and costs of financing innovative activity. Risk and quality management in innovation projects - sources and types of threats in innovative projects, risk assessment, ways to reduce it. Selected standards and project management methodologies. Computer tools supporting project management. Classes: Application of the knowledge gained during the lecture concerning project planning and implementation in innovative business. Analysis of possibilities and conditions of using particular project management tools. Identification of sources of threats and risk assessment of innovative								
Teaching methods		problen	n-based	lecture	e, subjec	t exerci	ses, ca		ation of a project task
Assessment method	lectur	e - writt	en exan	n; exerc	cises - fi			ation of work during ex task groups	ercises, evaluation of tasks
Symbol of learning outcome				Le	arning			· .	Reference to the learning outcomes for the field of study
L01	env use	rironmei d in pro	nt, indic ject ma ig projec	ates an nagement ot comp	id descr ent; defi	ibes the nes and unders	metho classif tands th	nent in an innovative ds and techniques lies instruments for ne complexity of sesses	Z_W01, Z_W03
L02	the r	munica need to	tion me forecas	thods u t chang	ısed in p Jes takir enviro	oroject r ig place nment	nanage in the o	formation and ment; understands organization and its	Z_W09, Z_W12
L03	inn stak	ovative eholder	environ s; define	ment; r es the r t	manage oles and the proje	s relation d competed team	ns with etences	t management in an various groups of of the members of	Z_U02, Z_U09
L04	in o	rganiza	itions us	sing the of the pi	latest o	oncepts am and	and m interac	f innovative changes ethods; effectively ts with other people	Z_U07, Z_U12

L05	student is ready to act in an entrepreneurial manner, has the ability to use IT tools supporting project management	Z_K03	, Z_K06					
Symbol of learning outcome	Methods of assessing the learning outcome	Type of teaching activities (if more than one) during which the outcome is assessed						
L01	written exam		L					
L02	written exam		L					
L03	written exam, observation of work during exercises, assessment of the project task	L	C					
L04	written exam, observation of work during exercises, assessment of the project task		С					
L05	observation of work during exercises, evaluation of the project task	(С					
	Student workload (in hours)	No. of	hours					
	participation in lectures	3	30					
	participation in classes	3	30					
	preparation for classes	1	1					
Calculation	participation in consultations	5						
Calculation	preparation and attendance for the lecture exam		4					
	preparation for passing the classes		5					
	performing a task in a team	1	5					
	TOTAL:	100						
	Quantitative indicators	HOURS	No. of ECTS credits					
Student we	orkload – activities that require direct teacher participation	67	2,7					
	ad – practical activities Student workload – practical activities:	65	2,6					
Basic references 1. Ward Garth G.F., Effective project management: guidance and checklists for engineering construction, Wiley-Blackwell, Hoboken, 2018. 2. Keays S. J., Investment-centric innovation project management: winning the new prodevelopment game, J. Ross Publ. Plantation, 2018. 3. Cobb C. G., Zrozumieć Agile Project Management: równowaga kontroli i elastyczności, in the company of th								
Promise, Warszawa 2012. 1. A Guide to the Project Management Body of Knowledge (PMBOK Guide), Fifth ed., Promanagement Institute, Inc., Pennsylvania, 2013. 2. Kerzner H., Project Management. A Systems approach for Planning, Scheduling and Controll Eleventh ed., Jon Willey& Sons, Inc. New Jersey 2013. 3. Bessant J., Pavitt K., Tidd J., Managing Innovation - Integrating Technological, Market Organizational Change, Wiley and Sons, Chichester 2005.								
Organisational unit conducting the course	Department of Production Management		ssuing the amme					
Author of the programme	Andrzej Daniluk, PhD, Eng.	30.11	.2020					

			Bial	ystok U	niversity o	f Technol	ogy			
Field of study			second degree full-time							
Specialization/ diploma path		Sı	Study profile	academic						
Course name			Sm	art Start	-line			Course code	ZSUA02932	
Oourse nume		T			- OPS	T		Course type	obligatory	
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	2	
of tuition	15	30						No. of ECTS credits	3	
Entry requirements						-				
Course objectives	process market is brand po- running on devi implement practica	and a stagesize; busing ositioning the start-leloping in entation ball business	ges of star ness mode in relation up. Skills: narketing ased on but cases. C	ting a sta els conn to start- Analysis plan fo usiness o ommunio	art-up; the vected to stup; start-up; start-up; and asses and asses and asses asses. Socioation with	ralue propo art-up; a no es and a fur essment of i created al compete companies	sition ver ew produ ndraising deas and start-up. ences: Pr represe	rsus a start-up; se ucts implementation process; One page of the process of control Understanding of reparation in group ntatives when visi		
Course content	busines Segmer Classes	practical business cases. Communication with companies representatives when visiting these companies. Lecture: Defining what a start-up and smart start-up is. Contemporary issues of starting a smart start-ups businesses. Process and a stages of starting a start-up. The value proposition versus a start-up. Segmentation and potential market size. Business models connected to start-up. Classes:A new products implementation process. Product and brand positioning in relation to start-up. Start-ups and a fundraising process. One page marketing strategy for running the start-up.								
Teaching methods	lec	lecture based on issue, informational lecture, classes of the module, project method, presentation, discussion, visiting the sites of the companies								
Assessment method	Classe	s - verifica		- oral e	xam; prese n for classe	ntation of t	he lectur dies; pro	e content; discuss eject completion; s	sion; tudents presentation of	
Symbol of learning outcome				Lear	ning outco	omes			Reference to the learning outcomes for the field of study	
L01			start-up b	usiness	of start-up in relation environme	to business	practice	processes of including	Z_W01 Z_W15 Z_W10	
L02	Identifie	s and can	characte		structural el tart-up bus		different	areas of starting	Z_W01 Z_W03 Z_W09	
L03	Studer	nt is desig	ning the p		n start-up of		cluding a	all the structural	Z_U02	
L04	Stuc	lent prepa			a start-up o s based on			res a reports	Z_U10 Z_U12	
L05		Stude	ent can co	operate	and organi	ze the work	c in the to	eam	Z_K01 Z_K02 Z_K03	
Symbol of learning outcome	Methods of assessing the learning outcome Methods of assessing the learning outcome during w outco asse									
L01				busine	ss problem	s tasks		n, discussion on	L,C	
L02				busine	ss problem	s tasks		n, discussion on	L,C	
L03	assessi	ment of pr	ogresses		t realization bassing ora		on on bu	siness problems	L,C	

L04	assessment of the team project and its presentation, discussion on business problems tasks or discussion on the project, verification of preparation for classes, assessment of students' reports presentations based on the literature	С							
L05	observation of the work on the classes, discussion, co-verification of eventual mistakes, assessment of team presentation	С							
	No. of hours								
	participatiom in lecture								
	participation in classes	30							
	classes related tasks, including preparation of team project	10							
Calculation	classes related tasks - preparation of students' reports presentations	10							
	consultations attendance	5							
	preparation for oral exam	5							
	TOTAL:	75							
	Quantitative indicators	HOURS	No. of ECTS credits						
Stude	ent workload – activities that require direct teacher participation	50	2						
Student w	orkload – practical activities Student workload – practical activities:	53	2						
Basic references	 Cohan, Peter S. Scaling Your Startup. Berkeley, CA: Apress L. P, 2019. Web. Ries, E. The Startup Way: How Entrepreneurial Management Transforms Cultu London]: Portfolio Penguin, 2017. Print. Ready K., Startup, Apres, 2011 	ure and Drives	Growth.						
Supplementary references	1. Jonikas, D., Startup Evolution Curve. From Idea to Profitable and Scalable Business, Publisher: D. Jonika Columbia 2017. 2. Powners, C., Delenato, J. Buiskert, D. From Starting to Scaling, Luxembourg: Bublications, Office, 202								
Organisational unit conducting the course	Department of Marketing and Tourism	Date of issuing the programme							
Author of the programme	dr hab. inż. Dariusz Siemieniako, prof. nzw.	27.11.2020							

			E	Bialysto	k Univ	ersity o	f Techi	nology							
Field of study			Ма	nagem	ent			Degree level and programme type		l degree time					
Specialization/ diploma path	Smart and innovative business Study profile								acad	lemic					
Course name	Cr	Course code Cross-national business models design							ZSUA02934						
					I	I		Course type	ele	ctive					
Forms and number of hours	L C LC P SW FW S Semester No. of ECTS									2 2					
of tuition Entry					15			credits							
requirements								-							
Course objectives	internand b	ationali: usiness	zation o concep	f enterpots used	orises. T	hey will internat	also ad ionaliza	ire knowledge of hove equire the ability to use tion of enterprises.	the latest ma	nagerial tools					
Course content	in inte	rnation	alizatior success	of ente studies	erprises in inte	, Busine mationa	ss Mod lization	models of internation el Canvas method, De of enterprises.	sign Thinking	method, case					
Teaching methods							grou								
Assessment method	evalu	ation of	presen	tations	by sma	ll group	s of stud repo	dents; task execution ort	- assessment	based on the					
Symbol of learning outcome				Le	arning	outcom	ies		Reference to the learning outcomes for the field of study						
L01	und	derstan	ds the ii	mportar		ne comp tegy	any's ir	nternationalization	Z_W10						
LO2	is able to set directions for internationalization in the enterprise								Z_U05	, Z_W10					
LO3			the co	mpany's	s intern	ationaliz	ation st		Z_U06	, Z_K03					
LO4	can	present				zation ir ppropria		municative manner s	Z_K01, Z_K03, Z_U11						
Symbol of learning outcome			Metho	ods of	assess	ing the	learnin	g outcome	Type of teaching activities (if more than one) during which the outcome is assessed						
LO1		evalu	uation o	f the re	port, ev	aluation	of the	oresentation	S	SW .					
LO2		evalı	uation o	f the re	port, ev	aluation	of the	oresentation		SW .					
LO3		eva	luation	of the d	iscussio	on, evalı	uation o	f the report	S	W					
LO4		evalu	uation o	f the re	port, ev	aluation	of the	oresentation	S	W					
		Stu	dent wo	orkload	l (in ho	urs)			No. of	f hours					
			par	ticipatio	n in a s	pecialis	t worksl	hop	,	15					
			pre	paration	n for a s	pecialis	t works	hop	2	20					
Calculation	work on the task 10								work on the task						10
	participation in consultations 5								5						
					TO	ΓAL:			;	50					
		C)uantita	itive in	dicator	s			HOURS	No. of ECTS credits					
Student w	orkload	l – activ	vities th	at requ	uire dir	ect tead	her pa	rticipation	20	0,8					

Student worklo	pad – practical activities Student workload – practical activities:	50	2							
Basic references	 Collis D., International Strategy: Context, Concepts and Implications, Wiley, 2014. Brown T., Change by Design: How Design Thinking Transforms Organizations and Inspires Innovation, Harper Business, 2009. Yayici E., Design Thinking Methodology Book, ArtBizTech, 2016. 									
Supplementary references	 Deresky H., International Management: Managing Across Borders and Pearson 2013. Osterwalder A., Pigneur Y., Business Model Generation: A Handb Changers, and Challengers, John Wiley and Sons, 2010. 									
Organisational unit conducting the course	Department of Production Management Date of issuing the programme									
Author of the programme	dr hab. inż. Wiesław Urban, prof. PB 22.11.2020									

			Е	Bialysto	k Univ	ersity o	f Tech	nology		
Field of study			Ма	nagem	ent			Degree level and programme type	Second degree full-time	
Specialization/ diploma path	Smart and innovative business Study profile								academic	
Course name	Tru	Trust management in innovative business Course code						ZSUA02935		
		1			1	1		Course type	elective	
Forms and number of hours	L								2	
of tuition	15	15						No. of ECTS credits	3	
Entry requirements								-		
Course objectives	of its in an	importa innova etences	nce in ii tive org	nnovati anizatio	ve proc	esses. <i>I</i> to mea	Acquirin sure tru	g the ability to create ust in the organization	nizational and presentation a trusted work environment n. The student will acquire nal relations and working in	
Course content	meas vertic Class	Lecture: The essence, types of trust. The role of trust in an innovative organization. The ways of measuring organizational trust. Organizational relations and dimensions of trust. Horizontal and vertical trust. Intra-organizational trust management in an innovative enterprise Classes: Mechanisms of building customer trust. A committed customer as a source of innovation. Planning activities that build the organization's credibility from the perspective of various stakeholder								
Teaching methods		informational lecture, case study method, discussion								
Assessment method	lec	lecture - written test; exercises - multimedia presentation, evaluation of prepared case studies; team task assessment, presentation and discussion, tests of preparation for exercises								
Symbol of learning outcome					arning			, , , , , , , , , , , , , , , , , , ,	Reference to the learning outcomes for the field of study	
LO1				chanis		ding the	organiz	nization as well as zation's credibility	Z_W01, Z_U01	
L02	char	acterize	s the ro	le of er		s in the	proces	s of managing trust	Z_W04	
LO3	as			el of tru	st in the	organi	zation a	nd is able to plan organization	Z_U03, Z_U05	
LO4				lex pro	blems r		trust r	nanagement	Z_U09	
LO5		is ab	ole to co		cate eff			able to work	Z_K02	
Symbol of learning outcome		М	ethods	of ass			rning o	utcomes	Type of tuition during which the outcome is assessed	
L01			W	ritten te	est; test	during 6	exercise	es	L, C	
LO2			W	ritten te	est; test	during 6	exercise	es	L, C	
LO3	tas	sk asse	ssment,	discus	sion, ev	aluation	of wor	k on case studies	С	
LO4	tas	sk asse	ssment,	discus	sion, ev	aluation	of wor	k on case studies	С	
LO5		C	liscussio	on, obs	ervation	of wor	k during	classes	С	
		Stu	dent wo	orkload	l (in ho	urs)			No. of hours	
Calculation				atte	endance	at lectu	ires		15	
Jaioulation				15						

		_						
	preparation for classes	1	5					
	preparation of a team task	1	10					
	work on case studies and preparation of presentations	-	7					
	participation in consultations related to exercises	ţ	5					
	preparation for the written test (a lecture)	8	3					
	TOTAL:	7	5					
	Quantitative indicators							
Student we	orkload – activities that require direct teacher participation	35	1,4					
	Student workload – practical activities	50	2					
Basic references	 International Conference on Trust: Trust research from multi-disciplination. Trust management, 4th International Conference iTrust, Italy, 2006. Paliszkiewicz J., Koohang A., Social media and Trust: multinational standard. 							
Supplementary references	Supplementary 1. Irwin, K. "Prosocial behavior across cultures: The effects of institutional versus generalized true In Altruism and Prosocial Behavior in Groups. Published online: 09 Mar 2015; 165-198.							
Organisational unit conducting the course	Katedra Marketingu i Turystyki	Date of issuing the programme						
Author of the programme	dr hab. Katarzyna Krot	28.11.2020						

			Е	Bialysto	k Univ	ersity o	f Techi	nology			
Field of study			Ма	nagem	ent			Degree level and programme type	Second degree full-time		
Specialization/ diploma path	Smart and innovative business Study profile								academic		
Course name		Service marketing Course code						ZSUA02095			
Oourse name		1	OCIVI	Je IIIai	Ketting			Course type	elective		
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	2		
of tuition	15	15						No. of ECTS credits	3		
Entry requirements								-			
Course objectives	for the	e marke	eting ma ctices. F	nagem	ent pro	cess. Ai	nalysis (of business practice a	equences of this specificity nd developing the ability to ctivities. Learning to design		
Course content	implic Relati Class and s	ations. ionship es: Des pecificit	The name of types in signing a signi	ature service a service quality	of serve e activiting of servi	rice ma ies. The ess on t ces. The	rketing. role of he exame role of	Relationship marke trust in building service mple of a selected type	ervices and their marketing eting in service activities. et relationships. Dee of service. The essence is in creating service quality.		
Teaching methods			inforr	nationa	l lecture	e, projec	t metho	d, case study method	, discussion		
Assessment method		lecture - written test; exercises - multimedia presentation, evaluation of prepared case studies an projects; team task assessment, presentation and discussion, tests of preparation for exercises									
Symbol of learning outcome	Learning outcomes								Reference to the learning outcomes for the field of study		
L01	re	cognize	es and c	lescribe	es speci	fic aspe	cts of s	ervice marketing	Z_W01, Z_W10,		
LO2		discus	ses the	concep	t of rela	ational a	nd inter	nal marketing	Z_W03, Z_W04		
LO3		interpre	ts and p	resent	s solutio	ns used	d in ser	vice companies	Z_U01, Z_U03, Z_U04		
LO4				•	gns a si				Z_U05		
LO5	C							imple problems case studies)	Z_U05		
LO6				Ca	an work	in a tea	m		Z_K02		
Symbol of learning outcome		М	ethods	of ass	essing	the lea	rning o	utcomes	Type of tuition during which the outcome is assessed		
LO1		L	writte	en test,	C - ass	essmen	t of a te	am task	L, C		
LO2		L - writ	ten test	, C - as	sessme presei		eam ta	sk, multimedia	L, C		
LO3	1	team ta	sk asse		, preser aration			ussion, tests of	С		
LO4	1	team ta	sk asse		, preser aration			ussion, tests of	С		
LO5				evalu	ation of	case st	udies		С		
LO6	as							team task, case ssroom	С		
			dent wo						No. of hours		
Calculation				atte	ndance	at lectu	ires		15		

		_								
	participation in classes	1	5							
	preparation for classes	1	5							
	work on case studies and preparation of presentations									
	preparation of a team task	1	0							
	participation in consultations	ţ	5							
	preparation for the written test (a lecture)		3							
	TOTAL:	7	5							
	Quantitative indicators No. HOURS ECT Cred									
Student w	orkload – activities that require direct teacher participation	35	1,4							
	Student workload – practical activities	50	2							
Basic references	 Gronroos Ch., Service Management and Marketing, John Wiley & So Ciesielska-Maciagowska D, Service quality management Wars Economics, 2015. Seretny M., Sustainable management - marketing perspective : e manifestations Warszawa : Oficyna Wydawnicza Politechniki Warsza 	szawa: Warsav ssence, deter								
Supplementary references	1. Pirrie A., Mudie P., Services Marketing Management, Routledge 2006. Wirtz I. Lovelock Ch. Services Marketing: People Technology, Strategy, Prentice Hall 2004.									
Organisational unit conducting the course	Department of Marketing and Tourism		suing the amme							
Author of the programme	dr hab. Katarzyna Krot	28.11.2020								

			E	Bialysto	ok Univ	ersity o	f Techi	nology			
Field of study			Ма	nagem	ent			Degree level and programme type	second degree full-time		
Specialization/ diploma path		Smar	rt and i	nnovati	ive bus	iness		Study profile	academic		
Course name		Metho	ods of a	ertificia	l intelli	gence		Course code	ZSUA02363		
	Course type						elective				
Forms and number of hours	L C LC P SW FW S Semester								2		
of tuition					15			No. of ECTS credits	2		
Entry requirements								-			
Course objectives	and ir learns prima these innovatindep of the advar Statis	mproving about rily artifuction to ative endentle probler ottoge of tea pac	g busing the nate of support of the condum termination as we feel this killed to the condum termination as we feel this killed to the condum termination as we feel this killed to the condum termination as we feel this killed to the condum termination as we feel the condum termination as we feel the condum termination as well as the condum termination as well as the condum termination as the condum termina	ess pro ure, evoural net of busing e mana lot anal ll as to nowled leural N	ocesses olution a tworks a ess decagemen ysis, se model to ge in pletworks	and for and type and experisions. I t. As p lect the he econ ractice, s module	r effection of the can art of the appropromic prusing to the can appropriate to t	ve management. Dur selected artificial inte ems. The student also use and link this know he course, the studeriate tools taking into ocesses. The student among others: Sphin	and tools used for modeling ing the course, the student illigence methods, including a acquires the ability to use wledge to the key aspects of ent develops the ability to account the specific nature also acquires skills to make x Software (PC-Shell) and		
Course content	exper syster syster neura mana learni	Artificial intelligence methods. Fundamentals of expert systems, types, functioning and structure of expert systems, representation of expert knowledge, methods of reasoning. Construction of expert systems supporting the decision-making process in enterprise management. Designing the expert systems using modern IT tools (PC - Shell). Classification, construction and main tasks of artificial neural networks. Examples of neural network applications for solving problems in economics and management. Selection of neural network architecture and testing their parameters. Choosing the learning method and the fundamentals of training process. Testing neural model using IT tools (Statistica Automated Neural Networks). Hybrid systems designing.									
Teaching methods	,							presentation, discussi	on		
Assessment method		W	ritten te	st, eval	uation o	f final p	roject, a	assignments of prepar	ation for classes		
Symbol of learning outcome				Le	arning	outcom	ies		Reference to the learning outcomes for the field of study		
LO1	á	and can	apply a	appropr mar	iate solu nageme	utions to nt probl	solve v ems	artificial intelligence arious types of	Z_W01, Z_W09		
LO2	pro	cesses classif	and ph از ation	enomei oroblem	na and one	use ther ed to en	n to sol terprise	orecast economic ve regression and management	Z_W04, Z_W12, Z_U01, Z_U09, Z_U11		
LO3	skil	I to des	ign and	build a	pplication	ons (exp decisio	ert sys ns	onment and use this tems) that support	Z_K01, Z_K06		
LO4		interpre	tation o	f result	s and or egic dec	n this ba	asis, ma	thesis, analysis and ke appropriate ld of company	Z_U03, Z_U09, Z_U13		
LO5			T	he stud	dent car	n work ir	n a tean	1	Z_K02		
Symbol of learning outcome		N	/lethods	s of ass	sessing	the lea	rning o	outcome	Type of teaching activities (if more than one) during which the outcome is assessed		
L01		wri	tten test	t, assigi	nments	of prepa	aration t	for classes	SW		
LO2	written test, evaluation of final project SW								SW		

LO3	written test, evaluation of final project	S	W						
LO4	evaluation of final project, discussions, observations of working during classes	S	W						
LO5	S	SW							
	No. of hours								
	participation in specialization workshops								
	preparation for specialization workshops	1	5						
Calculation	participation in student-teacher sessions related to the specialization workshops	ļ	5						
Guidalation	preparation for written test	!	5						
	final project preparation	1	0						
	TOTAL:	50							
	Quantitative indicators HOURS Credi								
Student wo	orkload – activities that require direct teacher participation	20	0,8						
Student worklo	ad – practical activities Student workload – practical activities:	50	2						
Basic references	 Surma J., Business Intelligence. Making Decisions Through Data Press, 2011. Tuffery S., Data mining and statistics for decision making, Wiley, 2013. Ünal, Muhammet; Ak, Ayça; Topuz, Vedat; Erdal, Hasan, Studies in Computational Intelligence, Optimization of PID Contant Genetic Algorithms, 2013, pp.5-17 	1. Artificial Neur trollers Using	al Networks, Ant Colony						
Supplementary references	 Rutkowski L., Computational Intelligence: Methods and techniques, S Parkes, D. C., and M. P. Wellman. 2015. "Economic F Intelligence." Science 349 (6245) (July 16): 267–272. doi:10/http://dx.doi.org/10.1126/science.aaa8403. https://www.sciencedirect.com/journal/neural-networks/about/aims-and-networks/aims-and-networks/aims-and-networks/aims-and-networks/aims-and-networks/aims-and-networks/aims-and-networks/aims-and-networks/aims-and-networks/aims-and-networks/aims-and-networks/aims-and-networks/aims-and-networks/aims-and-networks/aims-and-networks/aims-and-networks/aims-and-networks/aims-and-networks/aims-and-networks/aims-and-netw	Reasoning a 0.1126/science	nd Artificial						
Organisational unit conducting the course	International Department of Logistics and Service Engineering Date of iss progra								
Author of the programme	Julia Siderska, PhD	23.11.2020							

			E	Bialysto	k Univ	ersity o	f Techi	nology			
Field of study			Ма	nagem	ent			Degree level and programme type		degree time	
Specialization/ diploma path		Smai	t and i	nnovat	ive bus	iness		Study profile	acad	lemic	
Course name			C/C++	nrogra	mming			Course code	ZSUA	ZSUA02936	
Course name		T	0/011	progra		T		Course type	eled	ctive	
Forms and number of hours	L	С	LC	P	SW	FW	S	Semester		2	
of tuition	15 No. of ECTS credits								:	2	
Entry requirements											
Course objectives	algori	thms ar		ing sim	ple prog	jrams u		e example of C ++, ac sic programming langu			
Course content	progra (if, sw progra	am stru itch, lo	cture, ba ops), co o functi	asic lan	guage e structur	element es, i.e. a	s, varial arrays, f	ncepts, i.e., algorithn ples, constants and op functions and their pa ms and testing in a	erators, contro rameters, deco	ol instructions omposing the	
Teaching methods				pre	sentation	on and p	roblem	analysis and discussi	on		
Assessment method					test; e	evaluatio	n of wo	ork in the classroom			
Symbol of learning outcome					Learnii	ng outc	omes		Reference to the learning outcomes for the field of study		
LO1	unde	rstands	the idea			ing and applicati		ciple of operation of	Z_U05		
LO2		des	signs so	lutions	to real p	oroblem	s using	algorithms	Z_U01		
LO3			can v	vrite an	d analy	ze simpl	e C ++	code	Z_l	J02	
Symbol of learning outcome			Metho	ods of	assess	ing the	learnin	g outcome	Type of teaching activities (if more than one) during which the outcome is assessed		
LO1				class v	work as	sessme	nt, test		S	W	
LO2				class v	work as	sessme	nt, test		S	W	
LO3					te	st			S	W	
	T	Stu	dent wo	orkload	l (in ho	urs)			No. of	hours	
				atte	endance	at clas	ses		1	5	
			ŗ	orepara	tion for	passing	classes	5	1	5	
Calculation				pre	paration	for clas	ses		1	5	
				partici	oation ir	consul	tations			5	
					TOT	TAL:			5	10 No of	
		C	uantita	ative in	dicator	s			HOURS	No. of ECTS credits	
Student w	orkload	l – activ	vities th	nat req	uire dir	ect tead	her pa	rticipation	20	0,8	
	St	udent	workloa	ad – pr	actical	activitie	s		50	2	

Basic references	 Stroustrup B., The C++ Programming Language (4th ed., 8th prir Addison-Wesley Publ., 2018. (available in the Library). Horton I., Weert Van P., Beginning C++17, Apress, Berkeley, CA, 2 https://bazy.pb.edu.pl:2073/10.1007/978-1-4842-3366-5). Olsson M., C++ 14 Quick Syntax Reference, Apress, Berkeley, CA, online, https://bazy.pb.edu.pl:2073/10.1007/978-1-4842-1727-6). 	2018 (online direct access,
Supplementary references	Online programming courses: 1. LearnCpp.com, http://www.learncpp.com/ [26.11.2020]. 2. Cprogramming.com, http://www.cprogramming.com/ [26.11.2020]. 3. cplusplus.com, http://www.cplusplus.com/ [26.11.2020]. 4. CodesDope, https://www.codesdope.com/ [26.11.2020]. 5. Tutorials Point, https://www.tutorialspoint.com/cplusplus/index.htm [26. w3schools.com, https://www.w3schools.com/cpp/default.asp [26.11.2020].	
Organisational unit conducting the course	International Department of Logistics and Service Engineering	Date of issuing the programme
Author of the programme	dr hab. inż. Ewa Chodakowska	26.11.2020

			Е	Bialysto	k Univ	ersity o	f Techi	nology							
Field of study			Ма	nagem	ent			Degree level and programme type	second degree full-time						
Specialization/ diploma path		Smai	t and i	nnovat	ive bus	iness		Study profile	academic						
Course name	Green economy Course code								ZSUA02937						
			0.0		·····y			Course type	elective						
Forms and number of hours	L	С	2	Р	SW	FW	S	Semester	2						
of tuition	15 15 No. of ECTS credits								3						
Entry requirements		•													
Course objectives	spher in its	re, acqu main ar	iring kno eas. Ac	owledge quiring	e about the skill	the gree s to incl	n econo ude en	omy and the possibilitien or and the possibilitien or the vironmental issues in the contract of the contract o							
Course content	of the of gre produ indica Class recyc	en econ een econ action a ators. Fin es: Mai ling, su	economy: some constitution of	y. Gree ustaina sumption activiting of gree ole pro	en econo ble ene on, sust es in the en econo duction	omy in i rgy and ainable e field o omy: su and	nternati renewa transpo f green ustainat consum	onal, EU and Polish e able energy sources, v ort and sustainable a economy. ble energy and renewa	oncept, goals and principles cological policy. Main areas waste recycling, sustainable griculture. Green economy able energy sources, waste ransport and sustainable green economy.						
Teaching methods								blem lecture, case stu							
Assessment method	le	cture: w						tests of preparation for fifthe prepared task in	or classes, evaluation of groups						
Symbol of learning outcome				Le	arning	outcom	ies		Reference to the learning outcomes for the field of study						
L01								d understands the of the organization	Z_W13						
LO2						green		<u> </u>	Z_W01, Z_U01, Z_U03, Z_K01						
L03	iden	tifies the	e most i	mporta	nt probl elects a	ems in t	hese ar	ecological issues, reas as well as their hods of preventing	Z_K02, Z_K04						
LO4		prep	ares the	e projec	t and th	e prese	ntation	of its results	Z_U07, Z_U10						
LO5				Ca	an work	in a tea	m		Z_U12						
Symbol of learning outcome		N	lethods	s of ass	sessing	the lea	ırning d	outcome	Type of teaching activities (if more than one) during which the outcome is assessed						
L01				fin	al test,	colloqui	um		L, C						
LO2		final	test, tes	sts of pr	eparation	on for ex	ercises	s, colloquium	L, C						
LO3					task dis	cussion			С						
LO4				ass	essmen	t of the	task		С						
LO5		discus	ssion of	the tas	k, obse	rvation	of the w	assessment of the task C discussion of the task, observation of the work in a team C							
		Student workload (in hours) No. of hours													

	Participation in lectures	1	5							
	preparation for classes	1	0							
	participation in consultations	5								
	realization of team tasks									
	preparation to pass lectures									
	preparation to pass classes									
	TOTAL:	7	' 5							
	HOURS	No. of ECTS credits								
Student we	orkload – activities that require direct teacher participation	35	1,4							
	Student workload – practical activities	52	2,1							
Basic references	 (https://sustainabledevelopment.un.org). 2. Sustainability, climate change and the green economy, ed. by G. Institute of South Africa, South Africa 2016. 3. Towards a green economy: Pathways to sustainable development 	Nhamo, V. M	•							
Supplementary references										
Organisational unit conducting the course	Department of Production Management	Date of issuing the programme								
Author of the programme	Joanna Godlewska, PhD eng.	26.11.2020								

			Bia	lystok	Univer	sity of	Techno	logy	
Field of study			Ма	nagem	ent			Degree level and programme type	second degree full-time
Specialization/ diploma path		Smai	rt and i	nnovati	ive bus	iness		Study profile	academic
Course name		1	ow emi	ission (econom	nv.		Course code	ZSUA02938
Course name	Low emission economy Course type								elective
Forms and number of	L	L C 2 P SW FW S Semester No. of ECTS				2			
hours of tuition	15	15		3					
Entry requirements								•	
Course objectives	spher activit	e, acqu ies in it	iring kn s main a	owledg areas. <i>A</i>	e about Acquirin	the low g the sk	emissi ills to ir	on economy and the pactude environmental is	
Course content	The cecond energy econd Class	climate omy in y efficion omy. es: Rer	change internat ency in newable	proble tional, E differe energy	m as a EU and nt econ	cause Polish comy se	of low environ ectors.	emission economy demental policy. Renevi Financing activities in	and low emission economy. evelopment. Low emission wable energy sources and a the field of low emission economy sectors. Local low conomy.
Teaching methods				inf	ormatio	nal lectu	ıre, pro	blem lecture, case stu	dy
Assessment method	le	cture: w						tests of preparation for the prepared task in	or classes, evaluation of groups
Symbol of learning outcome					arning				Reference to the learning outcomes for the field of study
L01								and understands the of the organization	Z_W13
LO2	identi	fies the	most in	nportan te meth	t cause:	s and et reventi	fects of ng them	climate change and in the field of low	Z_W01, Z_U01, Z_U03, Z_K01
LO3	is	aware (of the so	ocial an	d ethica	ıl dimen	sion of	ecological issues	Z_K02, Z_K04
LO4		prep	ares the	e projec	t and th	e prese	ntation	of its results	Z_U07, Z_U10
LO5				Ca	an work	in a tea	m		Z_U12
Symbol of learning outcome		N	/lethods	s of ass	sessing	the lea	rning	outcome	Type of teaching activities (if more than one) during which the outcome is assessed
L01				fin	al test, o	colloqui	ım		L, C
LO2		final	test, tes	sts of pr	eparatio	on for ex	ercises	s, colloquium	L, C
LO3					task dis	cussion			С
LO4				asse	essmen	t of the	task		С
LO5		discus	ssion of	the tas	k, obse	rvation	of the w	ork in a team	С
		Stude	nt worl	doad (i	n hours	s)			No. of hours
				part	ticipatio	n in clas	ses		15
Calculation				Part	icipatio	n in lect	ures		15
				pre	paration	for clas	ses		12

	participation in consultations	,	5						
	realization of team tasks	15							
	preparation to pass lectures	6							
	preparation to pass classes		7						
	TOTAL:	7	' 5						
Quantitative indicators HOURS E									
Student work	kload – activities that require direct teacher participation	35	1,4						
Student workload	l – practical activities Student workload – practical activities:	52	2,1						
Basic references	 Aligning Policies for a Low-carbon Economy, Publishing OECD, 2015. The low carbon economy, ed. by Conway E., Lynch N., Paterson Macmillan, 2017. Sustainability, climate change and the green economy, ed. by G. Institute of South Africa, South Africa 2016. 	F., Baranova							
Supplementary references	Institute of South Africa, South Africa 2016. 1. Dincer I. Rosen M.A. Exergy: energy, environment and sustainable development, Elsevier, Amsterdam 2007. 2. Hedstrom G.S., Sustainability: what it is and how to measure it., Walter de Gruyter, Boston-Berlin, 2019. 3. Transitioning to a green economy. Political economy of approaches in small states, ed. by N. Smith, A. Halton, J. Strachan, Commonwealth, London 2014 (http://www.oecd-ilibrary.org).								
Organisational unit conducting the course	Department of Production Management	Date of issuing the programme							
Author of the programme	Joanna Godlewska, PhD eng.	26.11.2020							

			E	Bialysto	ok Univ	ersity o	f Techi	nology			
Field of study			Ма	nagem	ent			Degree level and programme type	second degree full-time		
Specialization/ diploma path		Smar	t and in	nnovat	ive bus	iness		Study profile	academic		
Course name			Rusi	ness E	thics			Course code	ZSUA03154		
Oodi 3c name		I	Dusi	11033 L		ı		Course type	obligatory		
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	3		
of tuition	15 30 No. of ECTS credits								3		
Entry requirements								-			
Course objectives	Socra standa Select ethics lobbin	tes met ards - th ted ethi . Utilitie g, hum	thod of the rights cal the cal	teachins and ole ories. End ories, End ories, ching, ching, ching, ching	g). The bligatior thics ob level of child lab	nature is of sel ligation ethics our, mo	and typ ected g Ethics in the dern sla	roup. Typology of mor values. Elements of organization. The iss overy, Fair Trade (basi	sources. Sources of moral al standards. ethics. Analysis of codes of ue of corruption, mobbing, c knowledge, case study).		
Course content	makin ethnic cultura Classa organ	ig and cally. Properties and contraction of the con	ethical esenting ences, of ices in at the in	dilemm g the s civilizati the et aternation	nas of some pecifics ion and hical and onal level	elected of mor nation. alysis sel. Ethic	profess al judgr skills an al recru	sional groups diverse nents and ethical read d competence to sol	ariety of models of decision- civilization, nationally and soning, taking into account we ethical dilemmas in the nd release. Ethics manager		
Teaching methods					le	cture, ca	ase stud	lies, experiment			
Assessment method		led	cture - w	ritten t				test, assessment of th	e code of ethics,		
Symbol of learning outcome				Le	arning			ргезептаноп.	Reference to the learning outcomes for the field of study		
L01		stud	ent: ind	icates t	the mos	t import	ant ethi	cal theories	Z_ W01, Z_U08, Z_K02		
LO2		ind	icates-r	making	ethical o	decision	s in org	anizations	Z_ W04, Z_U09, Z_K04,		
LO3		identif	ies the	core va	lues of	ethics: o	luty, util	itarian values	Z_ W13, Z_U10, Z_K05		
LO4,			арр	ly the p	rinciple	s and m	oral no	rms	Z_W01, Z_U09, Z_U06,		
LO5		know	s how t	o make	an ethi	cal pro	gram fo	r companies	Z_W04, Z_U10, Z_K05.		
Symbol of learning outcome		N	lethods	s of ass	sessing	the lea	rning o	outcome	Type of teaching activities (if more than one) during which the outcome is assessed		
LO1					final e	essay			L		
LO2					final	essay			L		
LO3					final	test			С		
LO4						test			С		
LO5			final te		essment sment o			ethics,	С		
		Stu	dent wo	orkload	l (in ho	urs)			No. of hours		
Calculation				le	cture at	tendand	<u>-</u>		15		
Galculation				par	ticipatio	n in clas	ses		30		

	participation in student-teacher sessions	,	5						
	preparation for classes		5						
	preparation for final essay	8							
	preparation for final test	1	12						
	TOTAL:								
	Quantitative indicators	HOURS	No. of ECTS credits						
Student we	orkload – activities that require direct teacher participation	50	2						
	Student workload – practical activities	50	2						
Basic references	 Roszkowska P. Business ethics: evidence from the world of finance / W. Warszawa 2015, Jewish Foundations Of Business Ethic, Handbook of the Philosophic Ethics, 2013, Munro, lain, Organizational Ethics and Foucault's 'Art of Living': Less Organizations, Organization studies, August 2014, Vol.35(8), pp.1127 Brown T., Marvin, Corporate integrity: rethinking organizational ethics, Cambridge University Press, 2005, Green, Ronald Michael., Stanford Encyclopedia of Philosophy https://plato.stanford.edu/index.html. 	al Foundations ons from Soci -1148,	s of Business al Movement						
Supplementary references	6. https://plato.stanford.edu/index.html, 1. The Ethical Organisation: Management, Governance a. Accountability: a jointconference: The 8th European Business Ethics Network -UK Association 2. (EBEN-UK) Annual Conference and The 6th Ethics and Human Resource Management Conference, 1 and 2 April, 2004 / org. The Management School 3. The University of Ediphyrith Stanford Encyclopedia of Philosophy								
Organisational unit conducting the course	Department of Managament , Economisc and Finanse		of issuing gramme						
Author of the programme	Joanna Szydło, PhD, Magdalena Ickiewicz-Sawicka, PhD	24.10	.2020)						

				Faculty	y of En	gineeri	ing Man	agement	
Management								Degree level and programme type	second degree full-time
Specialization/ diploma path	Smart and innovative business Study profile								academic
0				ZSUA03156					
Course name		IV	anage	ment a	ccoun	ting		Course type	obligatory
Forms and number	L	С	LC	Р	sw	FW	S	Semester No. of ECTS	3
of hours of tuition	15	15		3					
Entry requirements									
Course objectives	mana discu metho the us	ngement ssing to ods and sefulne	it accou he key d cost a ss of c	unting in aspect ccounti ost info	n the co ts of bu ing tech irmation	ontext oudgeting nniques n in ana	f corpored proces for the party for the part	ate management. Cou ss. Students will acqu ourpose of managemer d effective problem so	e idea, methods and tools of rse focuses on describing and ire skills of cost classification at and will be able to determine oliving. Student will be capable ess performance.
Course content	and c criteri Class	of using basic performance measurement techniques to monitor business performance. Lecture: Introduction to management accounting. Management accounting vs. financial accounting and cost accounting. Responsibility centres. Sources of information. Idea of costs and classification criteria. Cost calculation methods. Pricing decisions. Budgeting. Classes: Identification of costs according to various criteria. Costs calculation. Profitability calculation. Budget preparation. Presentation of information and reporting.							
Teaching methods				Cas	se stud	y lecture	e, inform	nation lecture, subject of	classes
Assessment method	class from	es – te classe	st at the s can b	fo e end o e incre	r stude of seme ased u	nts who ster fro p to 1 p de via (achieve m mater oint for CKZ plat	ed at least 4,5 from cla ial covered during clas particularly active stud	will be increased by 0,5 point isses; ses (ca. 4-5 questions); mark ents if on-line method will be est/exam will not deviate from
Symbol of learning outcome		Learning outcomes					Reference to the learning outcomes for the field of study		
LO1	an	d finan	cial acc	ounting enterp	g, recog rise inf	gnises t ormatio	heir role n syster		Z_W01, Z_W08, Z_W10
LO2			on, cal	culates	produc	ct cost a		lects method of cost municates those als	Z_W05, Z_U01, Z_U10
LO3	acco	ording t	o abso	rption a	and var	iable co in the f	sting wh irm	costs and profits nile consulting other	Z_U01, Z_K01
LO4				nancial	results		engagin	count, analyses and g other departments	Z_U10
LO5							k-even p		Z_W10, Z_U10
LO6								used in modern es his knowledge	Z_U13, Z_K01
Symbol of learning outcome								outcomes	Type of tuition during which the outcome is assessed

L01	exam	L								
LO2	exam, test	L, C								
LO3	test	С								
LO4	test	С								
LO5	L, C									
LO6	С									
Student workload (in hours) No. of hours										
	lecture attendance	15								
	participation in classes									
	participation in office hours	5								
Calculation	preparation for and participation in exam	9								
Calculation	preparation for test	16								
	preparation for classes	10								
	homework assignments	5								
	TOTAL:	75	5							
	Quantitative indicators	HOURS	No. of ECTS credits							
Student wo	rkload – activities that require direct teacher participation	37	1,5							
	Student workload – practical activities	49	2							
Basic references	 Srikant M Datar, Madhav V Rajan, Horngren's cost accounting: a m Education, 2018 ACCA: study system. Paper F5, Performance management, Development Corp., 2015. ACCA: study question bank. Paper F5, Performance management Development Corp., 2014. 	, DeVry/Becker	Educational							
Supplementary references	 John R Dyson, Ellie Franklin, Accounting for non-accounting student Peter Atrill, Edward J McLaney, Accounting and finance for non-sp 2017 Linda Smith Bamber, Karen Wilken Braun, Walter T Harrison Jr., Ma Prentice Hall, 2008 	pecialists, Pearso	on Education,							
Organisational unit conducting the course	Department of Management, Economics and Finance	Date of iss progra	_							
Author of the programme	Andrzej Karpowicz, PhD 30.11.2020									

			В	Bialysto	k Univ	ersity o	f Techi	nology	
Field of study			Ма	nagem	ent			Degree level and programme type	second degree full-time
Specialization/ diploma path		Smar	t and ir	novat	ive bus	iness		Study profile	academic
Course name	In	novatio	on and	strated	iic maa	naeme	nt	Course code	ZSU01165
Oourse nume	Innovation and strategic maangement Course type								Obligatory
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester No. of ECTS	3
of tuition	30	30	4						
Entry requirements								-	
Course objectives	and some phenoral the property	trategic omena i ocess c	manag related to of strate	ement to innov gy form	tools; c vations a rulation.	an class and use	sify and the too	characterize them. S	at. Students know methods students is able to interpret is and strategic planning in andards.
Course content	Lectur The e mana missic condit Class	re: The ssence gement on. The tions of es: Fea	essence and feat procest procest the stratures of	e and fatures of s and it s of but tegy im	features of strate its mode ilding the oplementive ent	of innogic marels. The strate tation a erprise.	essendary egy and mod com Method	Division of innovation nt. Principles of strate ce and types of strate rules of strategy crea ponents.	n. Innovation management. gic management. Strategic egies. Company vision and ation. External and internal sis and strategic planning in
Teaching methods								ort, classes: project m	
Assessment							_ecture:		
method				Clas	ses: qua	ality of s	tudents	works, test, presenta	Reference to the
Symbol of learning outcome				Le	arning	outcom	es		learning outcomes for the field of study
1.04	Student indicates the essence and features f innovation, can divide Z_W01, Z_W05								•
L01		them, presents the innovation management process. Student indicates the essence, features and principles of strategic Z_W11							
L01	Stu					atures	nageme		Z_W11
	Stude	dent indicent indicent	dicates the	the ess e esser	ence, fe manag nce and	eatures a ement. types c	nageme and prir		
LO2	Stude prod Stud	ent indicess, is	dicates the able to licates the	the ess e esser propose ne esse	ence, fe manag nce and e strate ence of t	eatures a ement. types o gies ade he com	nageme and prir of strate equate to pany's	ciples of strategic gies as well as their	Z_W11
LO2 LO3	Stude prod Stud p Stud for th	ent indicess, is dent indicess, is dent indicesents ent indice imple	cates the able to proceed the cates the cate the c	e esser propose ne esser lements ne comp	ence, fe manag nce and e strateg ence of t s and is conents ne strate	eatures a ement. types of gies ade he com able to of exter gy and the co	nageme and prir of strate equate t pany's develop method	gies as well as their o given conditions.	Z_W11 Z_W10, Z_U01, Z_U02 Z_W12, ZW_05, Z_U05 Z_W01, Z_W12, Z_U03, Z_U07
L02 L03 L04	Stude prod Stud p Stud for th	ent indicess, is dent indicess, is dent indicesents ent indice implem, can a	cates the cates the cates the cates the cates the cates the mentation analyse	e esser propose ne esse lements e comp on of th their in	ence, fer managence and e strategence of the sand is conents he strate inpact on meth	etatures a ement. types of gies ade he com able to of exter gy and in the co- lods.	nageme and prir of strates equate t pany's v develop rnal and method mpany,	gies as well as their or given conditions. vision and mission, or them editorial. internal conditions of getting to know	Z_W11 Z_W10, Z_U01, Z_U02 Z_W12, ZW_05, Z_U05 Z_W01, Z_W12, Z_U03,
LO2 LO3 LO4	Stude prod Stud p Stud for th	ent indicess, is dent indicess, is dent indicesents ent indice implem, can a	cates the cates the cates the cates the cates the cates the mentation analyse	e esser propose ne esser lements re comp on of th their in	ence, fe manag nce and e strateg ence of t s and is conents he strate npact or metr	etatures a ement. types of gies ade he com able to of exter gy and in the co- lods.	nageme and prir of strate equate t pany's develop rnal and method mpany,	gies as well as their o given conditions. vision and mission, o them editorial. internal conditions s of getting to know using appropriate	Z_W11 Z_W10, Z_U01, Z_U02 Z_W12, ZW_05, Z_U05 Z_W01, Z_W12, Z_U03, Z_U07 Z_U08, Z_K06 Z_U12, Z_K01, Z_K03
LO2 LO3 LO4 L05	Stude prod Stud p Stud for th	ent indicess, is dent indicess, is dent indicesents ent indice impleem, can stude	cates the cate the cates the cate t	e esser propose ne esser lements ne comp on of the their in	ence, fe manag nce and e strate ence of t s and is conents he strate inpact or meth applies e	etatures a ement. types of gies ade he com able to of exter gy and in the co- lods. ethical p	nageme and prir of strates equate t pany's v develop mal and method mpany, rrinciple team.	gies as well as their o given conditions. vision and mission, o them editorial. internal conditions s of getting to know using appropriate	Z_W11 Z_W10, Z_U01, Z_U02 Z_W12, ZW_05, Z_U05 Z_W01, Z_W12, Z_U03, Z_U07 Z_U08, Z_K06
L02 L03 L04 L05 L06 L07 Symbol of	Stude prod Stud p Stud for th	ent indicess, is dent indicess, is dent indicesents ent indice impleem, can stude	cates the cate the cates the cate t	e esser propose ne esser lements e comp on of the their in	ence, fe manag nce and e strategence of the sand is conents the strate inpact on methal applies of int can with	etatures a ement. types of gies ade he com able to of exter gy and in the co- lods. ethical p	nageme and prir of strate equate t pany's v develop mal and method mpany, orinciple team.	gies as well as their or given conditions. vision and mission, or them editorial. internal conditions of getting to know using appropriate	Z_W11 Z_W10, Z_U01, Z_U02 Z_W12, ZW_05, Z_U05 Z_W01, Z_W12, Z_U03, Z_U07 Z_U08, Z_K06 Z_U12, Z_K01, Z_K03 Type of teaching activities (if more than one) during which the
LO2 LO3 LO4 L05 L06 L07 Symbol of learning outcome	Stude prod Stud p Stud for th	ent indicess, is dent indicess, is dent indicesents ent indice impleem, can stude	cates the cate the cates the cate t	e esser propose ne esser lements e comp on of the their in	ence, fermanagence and estrategence of the sand is conents are strated applies on the can where the sand where the can where the sand where t	etatures a ement. types or gies ade he com able to of exter gy and in the corods. ethical prork in a the lear	nagemee and prire f strateguate to pany's videvelopmal and method mpany, rrinciple team.	gies as well as their or given conditions. vision and mission, or them editorial. internal conditions of getting to know using appropriate	Z_W11 Z_W10, Z_U01, Z_U02 Z_W12, ZW_05, Z_U05 Z_W01, Z_W12, Z_U03, Z_U07 Z_U08, Z_K06 Z_U12, Z_K01, Z_K03 Type of teaching activities (if more than one) during which the outcome is assessed
LO2 LO3 LO4 L05 L06 L07 Symbol of learning outcome LO1	Stude prod Stud p Stud for th	ent indicess, is dent indicess, is dent indicesents ent indice impleem, can stude	cates the cate the cates the cate t	e esser propose ne esser lements le comp on of the their in s and a Studer	ence, fermanagence and estrategence of the sand is conents applies enter	etatures a ement. types cogies ade he com able to of extergy and a the colods. ethical prork in a the lear ; C – te	nageme and prir f strate equate t pany's v developmal and method mpany, rrinciple team.	gies as well as their or given conditions. vision and mission, or them editorial. internal conditions of getting to know using appropriate	Z_W11 Z_W10, Z_U01, Z_U02 Z_W12, ZW_05, Z_U05 Z_W01, Z_W12, Z_U03, Z_U07 Z_U08, Z_K06 Z_U12, Z_K01, Z_K03 Type of teaching activities (if more than one) during which the outcome is assessed L, C
LO2 LO3 LO4 L05 L06 L07 Symbol of learning outcome LO1 LO2	Stude prod Stud p Stud for th	ent indicess, is dent indicess, is dent indicesents ent indice impleem, can stude	cates the cate the cates the cate t	e esser propose ne esser lements e comp on of the their in s and a Studer	ence, fermanagence and estrategence of the sand is conents are strated applies on the can with the same and the same applies of the can with the can	etatures a ement. types of gies ade he com able to of exter gy and in the corods. ethical prork in a the lear ; C – te ; C – te	nagemee and prir f strateguate t pany's v developmal and method mpany, rrinciple team.	gies as well as their or given conditions. vision and mission, or them editorial. internal conditions of getting to know using appropriate	Z_W11 Z_W10, Z_U01, Z_U02 Z_W12, ZW_05, Z_U05 Z_W01, Z_W12, Z_U03, Z_U07 Z_U08, Z_K06 Z_U12, Z_K01, Z_K03 Type of teaching activities (if more than one) during which the outcome is assessed L, C L, C

LO6	Quality of student's work, presentation	(С							
L07	Quality of student's work, presentation	(С							
	Student workload (in hours)	No. of hours								
	Participation in lectures	30								
	Participation in classes	3	30							
	Preparation for the classes	1	2							
	Doing homework/tasks	1	0							
Calculation	Participation in consultations	;	5							
	Preparation for the test	,	5							
	Preparation for the exam and attendance in exam	8								
	TOTAL:	1	00							
	Quantitative indicators	HOURS	No. of ECTS credits							
Student w	orkload – activities that require direct teacher participation	67	2,7							
Student worklo	oad – practical activities Student workload – practical activities:	60	2,4							
Basic references	Wheelen, T.L., Hunger J. D., Hoffman, A. N., Bamford Ch. E., Concepts in strategic management and business plicy: globalization, innovation, and sustainability, Pearson Education, Harlow 2018 Pietras A., Szczepańczyk M., Strategic planning in a small company, Lodz University of Technology Press, Lodz 2016.									
Supplementary references	Harvard Business Review									
Organisational unit conducting the course	Department of Economics, Management and Finance		ssuing the amme							
Author of the programme	Anna Tomaszuk, PhD 24.11.2020									

			Е	Bialysto	k Univ	ersity o	f Techi	nology				
Field of study			Ма	nagem	ent			Degree level and programme type	second degree full-time			
Specialization/ diploma path		Smar	t and ir	novati	ve bus	iness		Study profile	academic			
Course name			Ben	chmarl	kina			Course code	ZSUA03939			
								Course type	obligatory			
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	3			
of tuition	15				15			No. of ECTS credits	3			
Entry requirements												
Course objectives	metho of be a bene	odologie enchma chmark	es; best rking; ing proj	t praction present ect with	ces in ation o particu	the ap of bend lar emp	plicatior chmarki hasis o	n of benchmarking; I ng tools; students n process benchmarki	on; review of benchmarking parriers in the application learn how to carry out ng; process mapping in the n a benchmarking project;			
Course content	Bench freque Specia is dividi is ben draw u or Sir	Adonis or Microsoft Visio programme; students learn to work in a team on a benchmarking project; Lecture: The idea and areas of application of benchmarking. Benchmarking classifications. Benchmarking methodologies. Best practices, code of conduct for benchmarking, barriers and frequent errors in benchmarking. Benchmarking tools. Examples of benchmarking applications. Specialised workshop: Implementation of a process benchmarking project in which: a group is divided into smaller groups, representing companies. The selected process within the companies is benchmarked, within the framework of the project the students develop a project scope statement, draw up a code of conduct for the benchmarking group, map processes in Adonis or Microsoft Visio or Simul. Benchmarking workshops are conducted during which best practices are identified; a project report is prepared.										
Teaching methods	problematic and informative lecture, project method											
Assessment method	led	lecture - test; specialist workshop - assessment of preparation for classes, project execution, project defence										
Symbol of learning outcome				Lea	arning	outcom	ies		Reference to the learning outcomes for the field of study			
L01	de	fines te	rms rela	ated to	benchm esse	_	and is a	ble to discuss its	Z_W03,Z_W04, Z_W13			
LO2								to decide on the on the situation	Z_W03, Z_W04, Z_W13			
LO3	is	able to	launch	a bench	nmarkin metho		t in acc	cordance with the	Z_W04, Z_W13, Z_U01, Z_U02, Z_U07, Z_U08			
LO4		pla	ıns work	k, under	stands	and inte	erprets t	the results	Z_U01, Z_U02, Z_U03, Z_U07			
LO5			prepai	re the p	roject a	nd pres	ent its r	esults	Z_U01, Z_U02, Z_U03, Z_U07, Z_U11, Z_K06			
Symbol of learning outcome		M	lethods	of ass	essing	the lea	rning o	outcome	Type of teaching activities (if more than one) during which the outcome is assessed			
L01			,,, po	ints for	the task	KS	L, SW					
LO1 LO2		L - tes	st; SW -	points t	•			on of a report	L, SW L, SW			
		L - tes		-	for the t		eparati	on of a report	·			
LO2		L - tes		t evalu	for the t	asks, pi	eparati	on of a report	L, SW			
LO2 LO3		L - tes		et evalu	for the tation, put	asks, pi reparati	reparation to classification	on of a report	L, SW SW			

	attendance at lectures											
	participation in a specialization workshop	1	5									
	project work, report preparation	17										
Calculation	participation in consultations	,	5									
	implementation of project tasks	1	5									
	preparation for a lecture test		8									
	TOTAL:	7	7 5									
	HOURS	No. of ECTS credits										
Student we	35	1,4										
	50	2										
Basic references	 Anand G., Kodali R., Benchmarking the benchmarking models, "Bench Journal", 2008, Vol. 15, No. 3, pp. 257-291. Amaral P., Sousa R., Bariers to internal benchmarking initiatives "Benchmarking: An International Journal", Vol. 16, No. 4, 2009, pp. 523. Nazarko J., Kuźmicz K., Szubzda E., Urban J., Benchmarking ar education in Europe, "Higher Education in Europe", 2009, Vol. 34, No. 4. Stapenhurst T., The benchmarking book, Routledge, 2009. Taschner A., Improving SME logistics performance through benchmarking Journal, 2016, Vol. 27, No. 3, 1780-1797. 	an empirical 23-542. nd its applicat s. 3-4, pp. 497	investigation, ion in higher 7-510.									
Supplementary references	1. Alstete J.W., Measurement benchmarks or "real" benchmarking? An examination of current perspectives, "Benchmarking: An International Journal", 2008, Vol. 15, No. 2, pp. 178-186. 2. Lai M., Wang W., Huang H., Kao M., Linking the benchmarking tool to a knowledge-based system for performance improvement. Expert Systems with Applications", 2011, Vol. 38, No. 8											
Organisational unit conducting the course	International Department of Logistics and Service Engineering		ssuing the amme									
Author of the programme	Katarzyna Anna Kuźmicz, PhD	28.11.2020										

			В	Bialysto	k Univ	ersity o	f Techr	nology			
Field of study			Ма	nagem	ent			Degree level and programme type	second degree full-time		
Specialization/ diploma path		Smai	rt and ir	novati	ive bus	iness		Study profile	academic		
Course name			Strato	aic for	esight			Course code	ZSUA03231		
Course manne			Otrate	gic ioi	caignt			Course type	obligatory		
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	3		
of tuition	30	15						No. of ECTS credits	3		
Entry requirements								-			
Course objectives	knowl evolut corpo the str	edge in tion of rate pe udent d	practic foresigl rspective evelops	e of inr nt stud e. The the abi	novation lies. Th student ility to us	manag e stude is famil se differ	ement. ent acq iar with ent rese	The student is acqua uires knowledge abo best practices of cor earch methods of corp	practical skills to apply this inted with the essence and but corporate change and porate foresight. In groups, prate foresight. The student		
Course content	Lectur foreca Radic Class	prepares mini-projects in selected areas of corporate foresight. Lecture: Historical review of foresight studies; The essence of foresight research; Foresight versus forecasting; The essence of corporate foresight; Strategic and innovation management perspective; Radical innovations and disruptions. The maturity model of corporate foresight. Classes: The methods used in corporate foresight: STEEPVL, SWOT, Delphi method, unprecedented events, scenario method: formal and informal. Best practices in corporate foresight.									
Teaching methods	-					lectu	re, wor	kshops, projects	·		
Assessment method		lecture - written test or oral exam; class – presentation, discussion and evaluation of team works									
Symbol of learning outcome	Reference to the Learning outcomes learning outcomes fo the field of study										
L01	Th	e stude	ent is ac	quainte	d with tl	ne esse	nce of s	trategic foresight	Z_W12; Z_U01		
LO2								esight research	Z_W11, Z_W12		
LO3				S	trategic	foresigh	nt	earch methods of	Z_W01; Z_U02; Z_U03; Z_U04; Z_U05; Z_U06		
LO4	The s	student	unders		he role o			esight in the context	Z_W10; Z_U04		
LO5	has	s the pr	actical a	ability to	test a l		s conce	pt using foresight	Z_U07; Z_K01; Z_K03		
Symbol of learning outcome		N	/lethods	of ass			rning c	outcome	Type of teaching activities (if more than one) during which the outcome is assessed		
LO1				writte	en test o	or oral e	xam		L		
LO2				writte	en test o	or oral e	xam		L		
LO3		prese	entation	, discus	ssion an	d evalu	ation of	team works	С		
LO4		prese	entation	, discus	ssion an	d evalu	ation of	team works	С		
LO5		prese	entation	, discus	ssion an	d evalu	ation of	team works	С		
		Stu	dent wo	rkload	l (in hou	ırs)			No. of hours		
				part	icipatior	n in lecti	ıres		30		
Calculation				part	ticipatio	n in clas	ses		15		

	execution of tasks	1	0							
	participation in consultations	Į.	5							
	preparation for and attendance for the exam	(8							
	TOTAL:	7	' 5							
	Quantitative indicators	HOURS	No. of ECTS credits							
Student we	52	2,1								
	35 1,4									
Basic references	1. Georghiou L.,Harper C.J., Keenan M., Miles I., Popper R. (eds.), The handbook of technology foresight: concepts and practice, Publisher Edward Elgar, Cornwall, 2008. 2. Rohrbeck R., Corporate foresight: towards a maturity model for the future orientation of a firm, Physica-Verlag, Berlin, Heidelberg, 2011. 3. Sacio-Szymańska A. (red.), Corporate foresight potential in Visegrad (V4) countries, Wydaw. Instytutu Technologii Eksploatacji – Państwowy Instytut Badawczy w Radomiu, Radom 2016.									
Supplementary references	 Cornish. E., Futuring. The exploration of the future, World Future Soc Moehrle M.G., Isenmann R., Phaal R., Technology Roadmapping for Springer, 2013. Rohrbeck R., Gemünden H.G., Corporate Foresight: Its Three Roles is Capacity of a Firm, "Technological Forecasting and Social Change", 14. Rohrbeck R., Mahdjour S., Knab S., Frese T., Benchmarking Rep Multinational Companies, Research Report of the European Corpora 2009. 	or Strategy and n Enhancing th 78(2) 2011, p. port: Strategic	d Innovation, ne Innovation 231-243. Foresight in							
Organisational unit conducting the course	International Department of Logistics and Service Engineering	-	acowania ramu							
Author of the programme	Anna Kononiuk, PhD; Andrzej Magruk, PhD	19.11	.2020							

			В	Bialysto	k Univ	ersity o	f Techr	nology		
Field of study			Ма	nagem	ent			Degree level and programme type	second degree full-time	
Specialization/ diploma path		Smar	t and ir	novati	ive bus	iness		Study profile	academic	
Course name			Busine	ss exc	ellence			Course code	ZSUA03925	
			Duomo					Course type	elective	
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	3	
of tuition	15	15						No. of ECTS credits	3	
Entry requirements						М	anagen	nent concepts		
Course objectives	under descri benef metho	standin ibing the its of se ods of s	g the co e matur elf-asse elf-asse	ncept of ity indicessment ssmentessmen	of Busin cators of accord t in prac	ess Exc f the ma ling to t	ellence anagem he EFC	, identifying the conce nent system, explainin QM Business Exceller	dent in the following areas: pts of Business Excellence, g the essence, criteria and nce Model; use one of the ent on the basis of the self-	
Course content	Deter standa appro and se Qualit integr Class conce appro mode	Lecture: The concept of business excellence. Evolution of the concept of business excellence. Determinants of the maturity of the management system. International management norms and standards; sectoral quality standards; principles, values and concepts of management; process approach model; methodology of process improvement; methodologies for measuring performance and self-evaluation models (Deming Award Model, Malcolm Baldrige Quality Award Model, European Quality Award Model - EFQM Excellence Model, Polish Quality Award Model); management system integration scope. Classes: Self-assessment according to the EFQM Business Excellence Model. Self-assessment concept, self-assessment criteria, RADAR logic, EFQM rewards, quality award winners, basic approaches to organizational self-assessment, benefits of self-assessment according to the EFQM model. Selected methods and instruments used in self-assessment. Results of empirical research								
Teaching methods	on self-esteem and business excellence of enterprises. lecture - multimedia presentation, classes - case study									
Assessment method		lecture - multimedia presentation, classes - case study lecture - pass in the form of a test; classes - colloquium, project in the form of a multimedia								
Symbol of learning outcome	Pi	presentation of models of excellence selected by students, case study analyzed by students Reference to the								
	The student has an in-depth knowledge of the basic assumptions, definitions and methods of assessing business excellence, is able to								ne form of a multimedia by analyzed by students	
L01		esentat e studer nitions a	nt has a	Le n in-de	arning pth know	est; clas ence se outcom wledge (ing busi	ses - co elected I es of the baness ex	olloquium, project in the cy students, case students, case students assic assumptions, coellence, is able to	ne form of a multimedia dy analyzed by students Reference to the learning outcomes for	
L01	defir discu takin	e studer nitions a introd sses in g place of the	nt has all ind method index its state of the contraction of the contra	n in-denods of specific he causern organization the	of excell arning oth known assess ity and ses, countaining anization	est; classence se outcom wledge of the control of	es of the baness exes of improvements on second income inc	olloquium, project in the py students, case students, case students, case students, case students, case students, case asic assumptions, cellence, is able to plementation quences of changes the functional areas improvement	ne form of a multimedia dy analyzed by students Reference to the learning outcomes for the field of study	
	defir discu takin u:	e studer introd sses in g place of the ses the organiz	nt has a ind methode its something depth the in mode organiz acquire tation in	n in-denode of specific ne causern organization the known terms of the contract of the contrac	of excell arning opth known assess ity and ses, coulanization nat requiledge of the poof the poof	est; clasence se outcome wledge of ing busi- principle rse and ins, and ire contif various possibility	es of the baness exes of improved knows in inuous is function of their	asic assumptions, cellence, is able to plementation quences of changes the functional areas improvement onal areas of the r improvement	ne form of a multimedia dy analyzed by students Reference to the learning outcomes for the field of study Z_W01, Z_W03	
LO2	defir discu takin us ide	e studer nitions a introd asses in g place of the ses the organiz ntifies a	nt has and method in the second method method in the second method in the second method in the second method method in the second method method method in the second method metho	Le n in-depose of specific he causern organization the demonstration that terms of the specific heart of the s	arning pth know assess ity and ses, cou anizatio nat requ ledge or of the pr ppropriae organi change	est; clasence se ence se outcome wledge of ing businorinciple rse and ire content f various possibility ate mode zation, ps in org	es of the baness exes of improved knows in inuous is function of their els of exprepare anization.	asic assumptions, cellence, is able to plementation quences of changes the functional areas improvement onal areas of the r improvement excellence to solve and carries out ons	ne form of a multimedia dy analyzed by students Reference to the learning outcomes for the field of study Z_W01, Z_W03 Z_W10	
L02 L03	defir discu takin us ide cc	e studer nitions a introd isses in g place of the ses the organiz intifies a implex p	nt has and method in the control of	n in-de nods of specific ne causern organism terms of lyzes a s of the jects of m select mplication.	arning pth know assess ity and ses, cou anizatio nat requ ledge o of the pi ppropria e organi change ied mod ions in t	est; clasence se ence enc	ses - collected I	asic assumptions, ascellence, is able to plementation quences of changes the functional areas improvement areas of the rimprovement and carries out ons	ne form of a multimedia dy analyzed by students Reference to the learning outcomes for the field of study Z_W01, Z_W03 Z_W10 Z_U01	
L02 L03 L04	defir discu takin us ide cc	e studer nitions a introd isses in g place of the ses the organiz intifies a implex p	nt has and method in mode organizacquire eation in and anal problem project or in and act c	Lenn in-delends of specific the cause ern orgation the demonstration the dependent of the specific of the spec	arning pth know assess ity and ses, cou anizatio nat requ ledge o of the pi ppropria e organi change ied mod ions in t	est; clasence se ence enc	es of the baness ex es of im consect knows and inuous as function of their els of ex prepare anization uate the	asic assumptions, cellence, is able to plementation quences of changes the functional areas improvement conal areas of the rimprovement excellence to solve and carries out ons ce and their practical ereceived content	ne form of a multimedia dy analyzed by students Reference to the learning outcomes for the field of study Z_W01, Z_W03 Z_W10 Z_U01 Z_U05, Z_U07	
LO2 LO3 LO4 LO5	defir discu takin us ide cc	e studer nitions a introd isses in g place of the ses the organiz intifies a implex p	nt has and method in mode organization in and anal problem project or and act cannot and act cannot act act act act act act act act act ac	n in-de nods of specific ne causern organization the decision of the decision	arning pth know assess ity and ses, cou anizatio nat requ ledge o of the pi ppropria e organi change ted mod ions in t ly, critic n an en	est; clasence se ence enc	ses - collected I	asic assumptions, cellence, is able to plementation quences of changes the functional areas improvement conal areas of the rimprovement excellence to solve and carries out ons ce and their practical ereceived content	ne form of a multimedia dy analyzed by students Reference to the learning outcomes for the field of study Z_W01, Z_W03 Z_W10 Z_U01 Z_U05, Z_U07 Z_U05 Z_U07	
LO2 LO3 LO4 LO5 LO6 Symbol of	defir discu takin us ide cc	e studer introd sses in g place of the ses the organiz intifies a implex p	nt has a and method organizacquire cation in and anal problem project or and act cand cate fethods	n in-delegation to the causern organization the dependence of the causern organization org	of excell arning oth know assess ity and ses, cou anizatio nat requiledge o of the poppropriate organic change ichange	wledge of the control	es of the baness ex es of im consect knows and inuous as function of their els of ex prepare anization uate the curial ma	asic assumptions, ascellence, is able to plementation quences of changes the functional areas improvement areas of the rimprovement and carries out ons and their practical areas ereceived content anner	ne form of a multimedia dy analyzed by students Reference to the learning outcomes for the field of study Z_W01, Z_W03 Z_W10 Z_U01 Z_U05, Z_U07 Z_U05 Z_U07 Z_K01, Z_K03 Type of teaching activities (if more than one) during which the	

LO3	pass the lecture in the form of a test, a test of classes	L,	С	
LO4	pass the lecture in the form of a test, a test of classes	L,	С	
LO5	evaluation of the multimedia presentation, evaluation of the case study solution	С		
LO6	(
	Student workload (in hours)	No. of hours		
	participation in classes	1	5	
	participation in lectures	1	5	
	collecting materials and preparing a multimedia presentation for classes	1	7	
Calculation	participation in consultations	ţ	5	
	preparation to pass the classes	1	0	
	preparation to pass the lecture	1	3	
	TOTAL:	75		
	Quantitative indicators	HOURS	No. of ECTS credits	
Student we	orkload – activities that require direct teacher participation	35	1,4	
	Student workload – practical activities	45	1,8	
Basic references	 Bartoszuk P., Quality Management, Warsaw School of Economics, 20 Chen J., Brem A., Viardot E., Wong K., The Routledge companion of Routledge/Taylor a. Francis Group, NY, 2019. Kaderabkova A., Challenges for european innovation policy: cohes Schumpeterian Perspective, Edward Elgar, 2011. Rosenbau A., In quest of excellence: approaches to enhancing the que education and training, Nispacee, Bratislava, 2015. Harvard Business Review Journal 	io innovation n	lence from a	
Supplementary references	 Evans, James R., Managing for quality and performance, Boston: Ce EFQM Framework. Innovation Agencies, EFQM 2012. Excellence in Business (3rd Edition), by Courtland L. Bovee and John Design for Operational Excellence: A Breakthrough Strategy for Bus Duggan, 2011. Understanding Business Excellence. An awareness guidebook for Organization (pdf document). 	V. Thill, Prentic	ce Hall, 2006. , by Kevin J.	
Organisational unit conducting the course	Department of Management, Economics and Finance		suing the amme	
Author of the programme	Urszula Kobylińska, PhD	30.11	.2020	

			В	Bialysto	k Univ	ersity o	f Techr	nology		
Field of study			Ма	nagem	ent			Degree level and programme type	second degree full-time	
Specialization/ diploma path		Smaı	t and ir	nnovati	ive bus	iness		Study profile	academic	
Course name		Quality in enterprise Course code							ZSUA03940	
		Course type						Course type	elective	
Forms and number of hours	L								3	
of tuition	15	15						No. of ECTS credits	3	
Entry requirements			ement c							
Course objectives	quality the st 9001: stude	y of proc ructure 2015 re nts the	ducts ar of the o equirem ability to	nd servi quality r nents. T o use se	ces. Ou manage eaching elected	itline the ment sy studer tools an	e essend estem in ts to cr d metho	ce of system quality m in the organization. Fa eate ISO 9001: 2015 ods of quality manage		
Course content	outsta regula the es syster Class integr	students the ability to use selected tools and methods of quality management. Lecture:Basic concepts and definitions of quality and quality management. Achievements of outstanding quality philosophers. Standardization, conformity assessment and international quality regulations. Quality management systems according to the ISO 9000 series (structure, requirements, the essence of the process approach, analysis of the organizational context and business risk, quality system documentation, system improvement tools). Classes:Quality management systems in selected industries. The essence of management systems integration. Comprehensive quality management (TQM). Quality management according to								
Teaching methods		SixSigma. Quality costs. Quality system improvement indicators and tools. Lecture -multimedia presentation; Classes - case study, problem analysis, project								
Assessment method	Le	Lecture: pass in the form of a test; Classes: final test, a quality system design for a selected organization in the form of a multimedia presentation, case study analysed by students.								
Symbol of learning outcome				Le	arning	outcom	es		Reference to the learning outcomes for the field of study	
L01		related	l aspect ent, inclu	s with c iding th	quality ir	n the org	ganization the relation	lassifies the basic on and quality ationship of quality	Z_W01, Z_W02, Z_W03	
LO2	has	in-dept				ality ma		ent methodology in	Z_W06	
LO3	mai	nageme	ent in the	e organ	ization a	and is a	ble to p	ms related to quality repare a project of gement methods	Z_U01, Z_U02, Z_U03, Z_U05, Z_U07,	
LO4						quality		g of the processes, ement system in the	Z_U03, Z_U04	
LO5				ncluding		e of adv	anced i	and tools of quality nformation and	Z_U05	
LO6	can	think a		reative		ally eva	uate th	e received content anner	Z_K01, Z_K03	
Symbol of learning outcome		N				•		outcome	Type of teaching activities (if more than one) during which the outcome is assessed	
L01		pass	the lec	ture in	the form	of a te	st, a tes	et of classes	L, C	
LO2		pass	the lec	ture in	the form	of a te	st, a tes	et of classes	L, C	
LO3	evalu	ation of	the cas	e study	, evalua	ation of	the mul	timedia presentation	С	

LO4	evaluation of the case study, evaluation of the multimedia presentation	(0	
LO5	evaluation of the case study, evaluation of the multimedia presentation	(С	
LO6	evaluation of the case study, evaluation of the multimedia presentation	С		
	Student workload (in hours)	No. of hours		
	participation in classes	1	5	
	participation in lectures	1	5	
	collecting materials and preparing a multimedia presentation for classes	1	5	
Calculation	participation in consultations		5	
	preparation to pass the classes, among others the preparation of quality system in an enterprise	1	2	
	preparation to pass the lecture	13		
	TOTAL:	75		
	HOURS	No. of ECTS credits		
Student we	orkload – activities that require direct teacher participation	35	1,4	
	Student workload – practical activities	45	1,8	
Basic references	 Bartoszczuk P., Quality Management, Warsaw School of Economics, Davis S., Quality Management for Organizational Excellence: Inti (7th Edition), Pearson, 2012. Evans J.R., Lindsay W.M., Managing for Quality and Performance I College Publisher, 2012. Pyzdek T., Keller, P., The Handbook for Quality Management, Second to Operational Excellence, McGraw Hill, 2013. TQM: Introduction to and Overview of Total Quality Management 	excellence, So Excellence, So Edition: A Col t, ASQ Quality	Total Quality buth-Western mplete Guide Press, 2013.	
Supplementary references	 Ciesielska-Maciagowska D., Service Quality Management, Warsaw 9 2015. International Journal of Quality and Reliability Management. 	School of Eco	nomics, June	
Organisational unit conducting the course	Department of Management, Economics and Finance		suing the amme	
Author of the programme	Urszula Kobylińska, PhD	30.11	.2020	

				Bialy	/stok Un	iversity	of Tec	hnology			
Field of study			Ma	anagen	nent			Degree level and programme type		degree time	
Specialization/ diploma path		Sma	art and	innova	tive bus	iness		Study profile		lemic	
								Course code	ZSUA	03941	
Course name		•	Social m	iedia ir	busine	SS		Course type	elec	ctive	
Forms and number of	L	С	LC	Р	SW	FW	S	Semester	;	3	
hours of tuition					30			No. of ECTS credits	;	3	
Entry requirements	Innovative marketing management and market research										
Course objectives	Skills	Knowledge: the student is comfortable using the terminology of social networking sites (SNS) Skills: the student uses online tools to analyze various motivations and actions of users in the SN Social competencies: the student sees the possibilities of using social media in business processes									
Course content	Socia capita of kno analy	l netwo al. SNS owledge	orks in te and use e. Analys ocial me	rms of er motiv sis of S	the theor ation and NS conte	y of self- alysis. Sl ent strate	presen NS and egies. S	tation and social capita user involvement anal NS and shared conten elationship between co	II. SNS and cre ysis. SNS and t management	ation of social dissemination . Comparative	
Teaching methods						speci	alizatio	n workshop			
Assessment method						works	hop rep	oorts, project			
Symbol of learning outcome				Reference to the learning outcomes for the field of study							
L01	Stude	ent is e	ffectively	Z_W02; Z_U10; Z_K01							
LO2	Stı	udent is	creatin	g, shari	ng and a elen		the sp	reading of content	Z_W09; Z_U06; Z_K03		
LO3	Stude				he influe	nce of co		element on cognitive, recipients	Z_W12; Z_U04		
LO4	St	tudent i	s creatir	ng the s	trategy f	or buildir	ng virtu	al community and networks.	Z_W07; Z_U01; Z_U09; Z_K03		
Symbol of learning outcome				•	sessing	-			Type of teaching activities (if more than one) during which the outcome is assessed		
L01					reports,	project			S	W	
LO2					reports,	project			S	W	
LO3					reports,	project			S	W	
LO4					reports	project			S	W	
	1	9	Student	worklo	ad (in h	ours)			No. of	hours	
			p	articipa	ition in s	pecial wo	orkshop	S		0	
					tion of w	•			2	25	
Calculation	p	articipa	ition in s					to the workshop		5	
				pr	eparatio		ect			5	
					T01	AL:			7	No. of	
			Quan	titative	indicato	ors			HOURS	ECTS credits	

Student	workload – activities that require direct teacher participation	35	1,4
	Student workload – practical activities	75	3
Basic references	 Stepaniuk K. Materials for the module "Social media in business". Unp Białystok University of Technology, September 202 https://docs.google.com/document/d/14uqnmldCGjEXVaPrLYBmodP2a?usp=sharing Juntunen, M., Ismagilova, E., Oikarinen, EL. (2020) B2B brands on Tv varying combination of social media content objectives, strategies, and Management 89: 630-641, https://doi.org/10.1016/j.indmarman.2019.03 Cheng, C.C.J., Shiu, E.C. (2020) What makes social media-based suppli effective for new product performance? The role of network structure, Julia: 299-310, https://doi.org/10.1016/j.jbusres.2020.06.054 Hossain, A. (2019) Effects of uses and gratifications on social media unultiple mediator analysis, PSU Research Review 3(1): 16-28, https://doi.0023 Li, MW., Teng, HY., Chen, ChY.,(2020) Unlocking the custome relationship in tourism social media: The roles of brand attachment and Journal of Hospitality and Tourism Management https://doi.org/10.1016/j.jhtm.2020.06.015 	20. AvanoXjrRijLOyRH witter: Engaging tactics, Indust 3.001. er network invo ournal of Busine se: The Facebo oi.org/10.1108/ r engagement- customer trust	ailable at: lcjWnY/ edit g users with a rial Marketing lvement more ess Research book case with PRR07-2018- brand loyalty
Supplementary references Organisational	 Kaur, W., Balakrishnan, V., Rana, O., Sinniah, A. (2019) Liking, sharin on Facebook: User behaviors' impact on sentiment intensity, Telematic https://doi.org/10.1016/j.tele.2018.12.005. Rasheed, M.I., Malik, M.J. Pitafi, A.H., Iqbal, J., Anser, M.K., Abbas, M. (student engagement, and creativity: The role of knowledge sharing Computers & Education, Volume 159,(in press) https://doi.org/10.1016/j.compedu.2020.104002. Gómez, M., Lopez, C., Molina, A. (2019) An integrated model of social Computers in Human Behavior 96: 196-206, https://doi.org/10.1016/j.ch 	s and Informat 2020) Usage of behavior and	ics 39: 25-36, social media, cyberbullying, engagement,
unit conducting the course	Department of Marketing and Tourism	Date of is progra	suing the amme
Author of the programme	Krzysztof Stepaniuk, PhD	22.09	.2020

			E	Bialysto	k Univ	ersity o	f Techi	nology			
Field of study			Ма	nagem	ent			Degree level and programme type		l degree -time	
Specialization/ diploma path		Smar	t and ir	novati	ive bus	iness		Study profile	acad	lemic	
		0				41.		Course code	ZSUA	03942	
Course name		Socia	l media	mana	gement	tools		Course type	ele	ctive	
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	3		
of tuition	30 No. of ECTS credits									3	
Entry requirements				lnn	ovative	marketi	ng man	agement and market	research		
Course objectives	the st	udent u	ises onl	ine tool	ls to an	alyze va	arious n	rminology of social ne notivations and action using social media in	s of users in	the SN social	
Course content	creation textual	on and al conte	content ent ele	: manaç ments.	gement. SNS	Rule 7 content	0:20:10 mana	oretical framework for Development and s gement with using ootsuite and others.	haring small,	graphical and	
Teaching methods						speci	alizatio	n workshop			
Assessment method					V	vorksho	report	s, presentation			
Symbol of learning outcome									learning o	rence to the utcomes for of study	
L01	S	Student	correctly	y uses t	the term	ninology	related	to social media		W01	
LO2	9	Student	creates	conten	nt and s	hares th	em on	social platforms	Z_W09; Z_U06; Z_K01		
LO3	Stud	ent free				to man		content created for sites	Z_U03	; Z_K03	
LO4	St		reates a	genera	al conce	ept for g	eneratir	ng content for the vorking sites	Z_W07	Z_W07; Z_U10	
Symbol of learning outcome								g outcome	Type of teaching activities (if more than one) during which the outcome is assessed		
LO1			W	orksho	ps repo	rts, pres	entatio	n	S	W	
LO2			W	orksho	ps repo	rts, pres	entatio	n		SW	
LO3			W	orksho	ps repo	rts, pres	entatio	n		SW	
LO4			W	orksho	ps repo	rts, pres	entatio	n	S	SW	
	ı	Stu	dent wo	rkload	(in ho	urs)				hours	
			pa	rticipat	ion in s	pecial w	orkshop	OS		30	
			pr	eparati	on of w	orkshop	s repor	ts		20	
Calculation	pa	articipat	ion in st					d to the worksho		5	
				prepa		f preser	itation		4		
					T	OTAL:				75 No. of	
		G	uantita	itive in	dicator	S			HOURS	ECTS credits	

Student we	orkload – activities that require direct teacher participation	35	1,4						
	Student workload – practical activities								
Basic references	 Stepaniuk K. Materials for the module "Social media in business". Unput Białystok University of Technology, September 2020. Computers in Human Behavior - artykuły naukowe publikowane w czasto. Chu S.K.W, Capio K.M, van Aalst J., Cheng E.W.L: Evaluating the us collaborative group writing of secondary school students in Hong Kon Available online 10 March 2017, http://dx.doi.org/10.1016/j.compedu.2017.03.006. Mills J.E., Law R.: Handbook of consumer behavior, tourism, and the Hossain, A. (2019) Effects of uses and gratifications on social media with multiple mediator analysis, PSU Research https://doi.org/10.1108/PRR07-2018-0023 	asopiśmie. se of a social i g, Computers ISSN internet. Rout a use: The Fa	media tool for & Education, 0360-1315,						
Supplementary references	 Echter D.: OThe Top 7 Free Social Media Management Software, 201 top-free-social-media-management-software/. http://blogs.oregonstate.edu/osgprojects/files/2014/09/social-media-m Lester A.: Chapter 7. Information Management. w: Project Managen (Sixth Edition), 2014, 359-364 	nanagement-to	ools.pdf						
Organisational unit conducting the course	Department of Marketing and Tourism	Date of issuing the programme							
Author of the programme	Krzysztof Stepaniuk, PhD	22.09.2020							

			Е	Bialysto	k Univ	ersity o	f Techi	nology			
Field of study			Ма	nagem	ent			Degree level and programme type	second degree full-time		
Specialization/ diploma path		Smar	t and ir	novati	ive bus	iness		Study profile	academic		
Course name	т	achnia	ues of	Course code	ZSUA03943						
Course name	'	ecilliq	ues or	Jusilie	ss pres	entatio	Course type	elective			
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	3		
of tuition		15						No. of ECTS credits	2		
Entry requirements											
Course objectives	busing prese with a	ess cas ntations ludio-vis	es and will be sual sup	making discuss port in	g decisi sed. Cou busines	ons. Acurse will as and n	lditional also tea narketin	ly rules and good pra ach how to prepare an g field.	ning required for presenting actises of making business d speak during presentation		
Course content	Chara prese prese	acteristion. ntation. ntation	cs of go Prepa	od spe ring pr Multim	aker. Pi esentat edia pr	resentation (re	ion mo	del. Elements of prop analysis, determiniti	er. How to deal with stress. er presentation. Improvised on of goals and subject, a analysis. Real business		
Teaching methods					Practio	al class	es, disc	cussions, case study			
Assessment method	Eva	luation	of indivi	dual ar	nd group		ffects (pluring c		al and group work, activity		
Symbol of learning outcome				Reference to the learning outcomes for the field of study							
LO1		h	charac is own	Z_W04							
LO2		Describ	es rules	s of bus	iness a presei		nce, car	n prepare good	Z_W09, Z_U05		
LO3	ls abl							ress and influencing sentation	Z_W09		
LO4			Can cri	tically a	ınalyze	busines	s prese	ntation	Z_U04, Z_U10		
LO5		С	an arra	nge a te	eam an	d detern	nine his	role in it	Z_U12, Z_K03		
LO6	Can	work in	a team	ı, comm	nunicate relat		hers an	d maintain positive	Z_U12, Z_K04		
Symbol of learning outcome		N	lethods	of ass	sessing	the lea	rning o	outcome	Type of teaching activities (if more than one) during which the outcome is assessed		
L01			(Student	activity	during	classes		С		
LO2		Ev	aluatior	of pre	sentatio	n, activ	ity durin	g classes	С		
LO3		Ev	aluation	of pre	sentatio	n, activ	ity durin	g classes	С		
LO4				acti	vity dur	ing clas	ses		С		
LO5		Ev	aluatior	of pre	sentatio	n, activ	ity durin	g classes	С		
LO6				acti	vity dur	ing clas	ses		С		
		Stu	dent wo	rkload	(in ho	urs)			No. of hours		
Calculation			Р	articipa	ition in p	oractica	classe	s	15		
			Р	reparat	ion for	oractica	classe	s	10		

		1							
	Participation in consultations	ļ	5						
	Preparation of final presentation								
	TOTAL:								
	HOURS	No. of ECTS credits							
Student we	orkload – activities that require direct teacher participation	20	0,8						
Student workload – practical activities Student workload – practical activities: 50 2									
Basic references	 Czarkowska L. D. (ed.), Coaching as a method of developing human potential. Wydawnictwa Akademickie i Profesjonalne: Kozminski Universit, Warszawa 2010. Harvard Business Review manager's handbook: the 17 skills leaders need to stand out. Harvard Business Review Press, Boston 2017. Garvey B., Stokes P., Coaching and mentoring: theory and practice. Sage Publications, Los Angeles 2009. 								
Supplementary references	 Boddy D., Management: using practice and theory to develop skill. I 2020. HCI International 2016 – Posters' Extended Abstracts. 18th International 2016, Toronto, Part I. European Materials Research Soc 3. Stoltzfus T., Coaching questions: a coach's guide to powerful asking sk Beach 2008. 	rnational Conti ciety, Canada 2	ference, HCI 2016.						
Organisational unit conducting the course	Department of Marketing and Tourism		suing the amme						
Author of the programme	Romuald Ziółkowski, PhD	24.10.2020 r.							

			E	Bialysto	k Univ	ersity o	f Techi	nology			
Field of study			second degree full-time								
Specialization/ diploma path		Smar	academic								
Course name	Inno	ovative	tools fo	or husi	ness ni	resenta	tion	Course code	ZSUA03944		
Ocurso numo		7741170	100.0	J. 5401			Course type	elective			
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	3		
of tuition		15						No. of ECTS credits	2		
Entry requirements								-			
Course objectives	busine prese use be and de and h discus	Student will acquire knowledge about modern tools and methods for data mining needed in clean business presentation and making decisions. Also the class will teach rules of creating multimedia presentations used in business contacts and in individual enterprice development as well as how to use basic programs for gathering, analysing and data processing. Student will learn how to prepare and deliver his own oral presentation with audio-visual suport in business field, how to work in group and how to organise it while showing responsibility for his and others work. The course will also discuss how to mind and criticize expressing opinions about business presentation of his colleagues.									
Course content	effect of pre Reinv	Basics of speaking. Verbal and nonverbal speach. Designing presentations in the context of desired effect. Design patterns, functions and ratios of introduction, main content and conclusion. Preparation of presentation using PowerPoint. Rules of creating a informative and graphinc parts of a slide. Reinvigorating of presentation. Business presentation analysis. Real business examples. Final presentations.									
Teaching methods		Practical classes, computer work, case study									
Assessment method	Eva	Evaluation of individual and group work effects (presentation, individual and group work, activity during classes)									
Symbol of learning outcome				Le	arning	outcom	ies		Reference to the learning outcomes for the field of study		
LO1					s regard			ata mining, can use g, computing and	Z_W09, Z_U05		
LO2	ls al	ole to de				ring a p on for a		tion, can prepare a ubject	Z_U04		
LO3	ı	Have kr	nowledg	e regar		ta minir ntation	g used	for preparing a	Z_U04		
LO4			Car	n critica	lly anal	yse a pr	esentat	ion	Z_U05		
LO5		Can	orginis	e a tea	m and o	determir	e his o	wn role in it	Z_U12, Z_K03		
LO6	Can v	vork in t	eam, co			th team tween t		ind maintain positive	Z_U12, Z_K04		
Symbol of learning outcome		N	lethods	of ass	sessing	the lea	rning o	outcome	Type of teaching activities (if more than one) during which the outcome is assessed		
L01			(Student	activity	during	classes	S	С		
LO2	,	Student	t activity	during	classes	s, evalu	ation of	a presentation	С		
LO3	,	Student	t activity	during	classes	s, evalu	ation of	a presentation	С		
LO4			(Student	activity	during	classes	i	С		
LO5		Student	t activity	during	classes	s, evalu	ation of	a presentation	С		
LO6	,	Student	t activity	during	classes	s, evalu	ation of	a presentation	С		

	Student workload (in hours)	No. of hours						
	Participation in practical classes	1	5					
	Preparation for practical classes	10						
Calculation	Participation in consultations		5					
	Preparation of final presentation	2	0					
	TOTAL:	5	60					
	Quantitative indicators							
Student we	orkload – activities that require direct teacher participation	20	0,8					
Student worklo	ad – practical activities Student workload – practical activities:	50	2					
Basic references	 Duarte N., Slide:ology: The Art and Science of Creating Great Pre 2008. Reynolds G., Presentation Zen: Simple Ideas on Presentation Design 2012. Wempen F., PowerPoint 2013 Bible, John Wiley & Sons, Indianapolis 	and Delivery,	·					
Supplementary references	 Berkun S., Confessions of a Public Speaker, O'Reilly Media, 2009. Ford N, McCullough M., Schutta N.A., Presentation Patterns: Tech Presentations, Addison-Wesley, 2012. 		rafting Better					
Organisational unit conducting the course	Department of Marketing and Tourism	Date of issuing the programme						
Author of the programme	Romuald Ziółkowski, PhD	24.11.2020 r.						

				naiysic		, .		nology							
Field of study			Ма	nagem	ent			Degree level and programme type	second degree full-time						
Specialization/ diploma path	Smart and innovative business Study profile								academic						
Course name		Masta	r degre	a dinlo	ma san	ninar 1		Course code	ZSUA03071						
Course name		Waste	i uegre	e uipio	ılla Scii	ililai i	Course type	obligatory							
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	3						
of tuition							30	No. of ECTS credits	6						
Entry requirements															
Course objectives									and research work. The aim odology of scientific work.						
Course content	and for search thesis (concord)	Determination of research issues and the topic of work. Discussion of the principles of formulation and formulation of the aim of the work and research questions. Discussing the techniques of searching for literature on the subject and indicating sources. Discussing the technique of writing thesis. Gathering and organizing the material. Discussing the principles of constructing the thesis (concept and plan of work). Developing the concept and plan of the thesis and its individual parts. Solving research and technical problems.													
Teaching methods					discu	ssion, p	resenta	tions, case studies							
Assessment method		Evaluation of the prepared concept and plan as well as the required parts of the diploma thesis; evaluation of the student's participation in the classes and knowledge of the basic rules of preparing diploma theses.													
Symbol of learning outcome				Reference to the learning outcomes for the field of study											
LO1		The stu	dent red	ognize	s the ba metho		s of the	diploma thesis	Z_W06, Z_W14						
LO2	The	student	defines	the res		roblem,	subjec	t, aim and research	Z_W01, Z_U03, Z_U04						
LO3		The s	tudent c	ollects	and inte	erprets t	he subj	ect literature.	Z_U06						
LO4	The s	tudent	develop	s a con	cept an	d work p	The student develops a concept and work plan and its individual parts.								
LO5	The	studer	nt develo	olan an	d its individual parts.	Z_U04, Z_U13									
			it dovoit	ops a co	oncept f probl			d its individual parts. arch and technical	Z_U04, Z_U13 Z_U04, Z_U07						
Symbol of learning outcome					probl	ems.	ng rese	· · · · · · · · · · · · · · · · · · ·							
	disc	N	lethods	of ass	probl	ems. the lea	ng rese	arch and technical	Z_U04, Z_U07 Type of teaching activities (if more than one) during which the						
learning outcome		N cussion	lethods in class	of ass	probles proble	ems. the lea	rning o	arch and technical	Z_U04, Z_U07 Type of teaching activities (if more than one) during which the outcome is assessed						
learning outcome	disc	N cussion cussion	lethods in class in class	of ass , evalua	probles proble	the lea	rning c s prepa	outcome ared by the student	Z_U04, Z_U07 Type of teaching activities (if more than one) during which the outcome is assessed						
LO1 LO2	disc	nussion cussion cussion	in class in class in class	of ass , evalua , evalua	problemsessing ation of ation of	ems. the lea chapter chapter chapter	rning constraints of the constra	putcome ared by the student ared by the student	Z_U04, Z_U07 Type of teaching activities (if more than one) during which the outcome is assessed S S						
LO1 LO2 LO3	disc	nussion cussion cussion	in class in class in class	, evalua , evalua , evalua	problemsessing ation of ation of apters p	ems. the lea chapter chapter chapter	rning c s prepa s prepa s prepa d by the	putcome ared by the student	Z_U04, Z_U07 Type of teaching activities (if more than one) during which the outcome is assessed S S						
LO1 LO2 LO3 LO4	disc	cussion cussion cussion	in class in class in class	, evalua , evalua , evalua , evalua on of ch	problems pro	ems. the lea chapter chapter chapter orepared work in	rning c s prepa s prepa s prepa d by the	putcome ared by the student	Z_U04, Z_U07 Type of teaching activities (if more than one) during which the outcome is assessed S S S						
LO1 LO2 LO3 LO4	disc	cussion cussion cussion cussion	lethods in class in class in class evaluation	, evalua , evalua , evalua , evalua on of ch observ	problements proble	the lead chapter chapter chapter work in urs)	rning c s prepa s prepa d by the class	putcome ared by the student	Z_U04, Z_U07 Type of teaching activities (if more than one) during which the outcome is assessed S S S S S						

	Implementation of tasks concerning the preparation of the thesis	6	0	
	Participation in consultations	5		
	TOTAL:	150		
	HOURS	No. of ECTS credits		
Student wo	orkload – activities that require direct teacher participation	35	1,4	
Student worklo	150	6		
Basic references	 S. Bailey, Academic writing: a handbook for international students, 20. A. Oshima, L. Ravitch, Longman academic writing series. 4, Essays, WYTYCZNE w sprawie przygotowania prac dyplomowych (malicencjackich) na Wydziale Zarządzania Politechniki Białostockiej 4/10/2016 Rady Wydziału Zarządzania z dnia 12 pahttp://wz.pb.edu.pl/media/a26fc5eb-1b7f-4004-8d4d-8dadc4c1894f/E9BcoA/Studenci/Dziekanat/Prace%20dyplomowe/Wydyplomowych.pdf [21.03.2017]. 	2017 agisterskich, i (Załącznik do ździernika 2	Uchwały nr 2016 roku),	
Supplementary references	Specialist literature - according to the subject of the work.			
Organisational unit conducting the course	International Department of Logistics and Service Engineering		suing the amme	
Author of the programme	Anna Kononiuk, PhD	26.11.2020		

			Е	Bialysto	k Univ	ersity o	f Tech	nology				
Field of study			second degree full-time									
Specialization/ diploma path		Smar	t and ir	novati	ive bus	iness		Study profile	academic			
Course name	Cor	Course code Conflicts and negotiations in organization							ZSUA04577			
oodi se name	001	iiiiota a	illa lieg	otiatio	113 111 01	gamza	Course type	obligatory				
Forms and	L	С	LC	Р	SW	FW	s	Semester	4			
number of hours of tuition	15	15						No. of ECTS credits	2			
Entry requirements												
Course objectives	proble and the proce negot negot knowl	ems in one way dures a sistion sistions in the degree at t	organization of dia strategy on the or cout tea	ations. F agnosin Is of co . Prepa ganizat mwork	amiliar g nego onflict raration ion. Sociated	izing stutiation properties to the properties of a properties	idents votentia ment. F roject o petence g stude	with the types and stra I. Skills: learning the Preparing a conflict do on selected problems es: developing social of ents in teamwork and g				
Course content	of the method Class organ evaluation	knowledge about teamwork and by involving students in teamwork and group discussions. Lecture: The essence of the conflict in the organization, sources and types of conflicts. Development of the theory of conflicts. Evolution of views on the consequences of conflicts. Traditional and modern methods of conflict management. Dispute resolution techniques. Classes: Developing the skill of conflict diagnosis and forecasting its consequences in the organization. Negotiations: the essence of negotiation and the negotiation process. Criteria for evaluating negotiations, negotiation strategies. Phases of the negotiation process (analysis, planning, discussion). Negotiation techniques. Collective bargaining. Professional negotiator profile.										
Teaching methods		lectures and classes, teaching discussion										
Assessment method		lecture – test, classes – test										
Symbol of learning outcome				Le	arning	outcom	es		Reference to the learning outcomes for the field of study			
L01	The	student	unders	tands t		ence of zations	conflict	and negotiations in	Z_W03, Z_W11			
LO2	The	e studer	nt can ic	lentifie	and and negot	-	e proble	ems of conflict and	Z_W04			
LO3	The s	student				olary pla ation te		onflict resolution and es.	Z_W03, Z_W04			
LO4	The	e studer	nt deals	with the	e conflic	cts appe	earing ir	n group processes	Z_K06, Z_U12			
LO5	Т	he stud	ent kno	ws how		selecte tice.	d mode	ls, techniques in	Z_U09,Z_U10, Z_U12, Z_K02, Z_K03,			
Symbol of learning outcome		N	lethods	of ass	sessing	the lea	rning	outcome	Type of teaching activities (if more than one) during which the outcome is assessed			
LO1		Pa	ssing le	ctures a	and clas	sses, te	aching (discussion	L, C			
LO2		Pa	ssing le	ctures a	and clas	sses, te	aching (discussion	L, C			
LO3		Pa	ssing le	ctures a	and clas	sses, te	aching	discussion	L, C			
LO4		Pa	ssing le	ctures a	and clas	sses, te	aching (discussion	L, C			
LO5		Pa	ssing le	ctures a	and clas	sses, te	aching	discussion	L, C			
		Stu	dent wo	rkload	(in ho	urs)			No. of hours			
				partici	pation i	n the le	ctures		15			

-									
	participation in the classes	1	15						
	preparation for the classes		5						
	participation in consultations		5						
Calculation	preparation for the exercise test		7						
	preparation for the lecture test		3						
	TOTAL:	5	50						
	HOURS	No. of ECTS credits							
Student we	35	1,4							
	30	1,2							
Basic references	 Proksch S., Conflict Management, Springer International Publishing, S. (https://bazy.pb.edu.pl:2109/book/10.1007%2F978-3-319-31889 McCarthy A., Hay S. Advanced Negotiation Techniques, Ap. (https://bazy.pb.edu.pl:2109/book/10.1007%2F978-1-4842-0850-2) Opresnik M. O., The Hidden Rules of Successful Negotiation and Cyes!, Springer International Publishing Switzerland 2014 (https://bazy.pb.edu.pl:2109/book/10.1007/978-3-319-06194-8) 	5-1#toc) ppres, New	York, 2015,						
Supplementary references	Boddy D.,Management: Using practice and theory to develop skill, 8th Edition Harlow Pearson Education, 2020 Shakun M. F. (ed.) Kilgour D. M. (ed.) Eden C. (ed.), Handbook of Group Decision and Negotiation, Dordrecht: Springer Netherlands, 2010.								
Organisational unit conducting the course	Department of Management, Economics and Finance	Date of is	ssuing the amme						
Author of the programme	Joanna Jończyk, PhD	27.11.2020							

			В	Bialysto	k Univ	ersity o	f Techi	nology		
Field of study			Ма	nagem	ent			Degree level and programme type	second degree full-time	
Specialization/ diploma path	Smart and innovative business Study profile								academic	
Course name		Managing employee performance						ZSUA04945		
Oodi Se Haille		Iviaria	Jing em	pioyee	Perior	illalice	Course type	obligatory		
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	4	
of tuition		30						No. of ECTS credits	1	
Entry requirements			N	lanage	ment c	oncepts	s, Inno	vation and strategic	management	
Course objectives	the in creati gain mana enviro perfor metho	The goal is to understand the role of employees in building the overall success of an organization, the importance of continual improvement and development to achieve a business strategy, and creating a working environment that is conducive to high employee performance. The student will gain knowledge in improving people's performance and learns to integrate human resource management (HRM) practices with the strategy and goals of an organization in a competitive environment. The student will learn to implement expectations and standards for employee performance, evaluate employees through a formal performance evaluation process, and learn about methods to support employees in creating and achieving the goals and assumptions of the organization.								
Course content	organ mana workp best;	History and definition of organizational performance management, goals and elements of an effective organizational and employee performance management system; the importance of human capital management and its contribution to the achievement of the organisation goals; creating a positive workplace; managerial competences aimed at building committed employees and rewarding the best; creating a team of highly productive employees, linking human capital measures with the organization's results.								
Teaching methods		presentation, discussion, teamwork, problem solving								
Assessment method		assessment of the performance of tasks, written test								
Symbol of learning outcome				Le	arning	outcom	es		Reference to the learning outcomes for the field of study	
L01								uman resource organization	Z_W04	
LO2		tudent i	s able to	o diagn	ose and	d solve on the str	complex	problems related to nd goals of the	Z_W03, Z_U08,	
LO3	The	student	t can cre	eate a f	avorabl engag		lace, su	ipporting employee	Z_W04, Z_K02	
LO4		The st	udent is	able to	o build e	effective	teams	of employees	Z_U12, Z_K06	
Symbol of learning outcome		N	lethods	of ass	sessing	the lea	rning o	outcome	Type of teaching activities (if more than one) during which the outcome is assessed	
LO1					writte	n test			С	
LO2			asses	ssment	of the p	erforma	nce of	tasks	С	
LO3			asses	ssment	of the p	erforma	nce of	tasks	С	
LO4		ass	essmen	t of the	perforn	nance of	tasks,	written test	С	
		Stu	dent wo	rkload	l (in ho	urs)			No. of hours	
Calculation				part	ticipatio	n in clas	ses		30	
	p	articipa	1							

	TOTAL:	31						
	HOURS	No. of ECTS credits						
Student we	orkload – activities that require direct teacher participation	31	1,2					
Student worklo	Student workload – practical activities Student workload – practical activities: 31 1,2							
Basic references	 Performance management, Teddington: DeVry/Becker Educational Development Corp., 2015. Fryczyńska M., Human capital management, Warsaw School of Economic, 2015. Jones P.; Strategy mapping for learning organizations: building agility into your balanced scorecard, Burlington, VT: Gower, 2011. 							
Supplementary references	 Dowling P.J., International human resource management, Hampshire Mann L., Atkins L. [et al.] Leadership, management, and innovati Westport: Praeger, 2005. 							
Organisational unit conducting the course	Department of Management, Economy and Finance	Date of issuing the programme						
Author of the programme	dr Joanna Samul	27.11.2020						

			l	Bialysto	ok Univ	ersity o	of Tech	nology		
Field of study			Ма	nagem	ent			Degree level and programme type	second degree full-time	
Specialization/ diploma path		Smai	rt and ir	novati	ve busi	ness		Study profile	academic	
Course name		Savoir vivro in husinoss							ZSUA04946	
Course name		Savoir-vivre in business					Course type	elective		
Forms and number of hours	L	С	LC	Р	sw	FW	S	Semester	4	
of tuition		30						No. of ECTS credits	1	
Entry requirements										
Course objectives	cultura Skills: courte preced different Social for diff	Knowledge: The aim of module is to familiarize students with the principles of savoir vivre in business in order to create and maintain human relationships in everyday business dealings taking into account cultural differences. Skills: Students will obtain practical knowledge and skills to apply the principles of politeness and courtesy in international business relations especially business correspondence and communication, precedence rules, preparing business parties, appropriate behaviour and business dress code in different business situations. Social competence: Student will develop cooperation skills with foreign business partners and respect for different customs and traditions.								
Course content	Savoir vivre in business – what is it and how to use it. The principles of communicating in business - the first impression in professional relations, welcomes, people presenting and titles, giving and preparing business cards, body language, intonation, active listening, phone calls, the etiquette in electronic communication. Business precedence - the concept of precedence, precedence at work, precedence in corporation, precedence during multilateral conferences and meetings. Correspondence - the basic principles, the letter (formal, business and private), salutations, sending letters and e-mails. Business parties and meetings – organising parties, types of parties, invitations, table types, the place of honour at the table, seating. At the table - setting, cutlery, rules of behaviour at the table, service, order and selection of dishes, selection of wines, wine basics, selection of wines to the type of menu items, ways to eat different types of dishes. The business dress code – matching appropriate dress to the occasion, shaping the sense of esthetics and good taste. Business etiquette									
Teaching methods		case	studies	s, individ	dual and	group	exercis	es, brainstorming, mo	derated discussion	
Assessment method		evalua	ation of	individu	al and t	eam tas	ks and	student's activity duri	ng classes, final test	
Symbol of learning outcome				Lea	arning o	outcom	es		Reference to the learning outcomes for the field of study	
LO1	vivı	re and e	explains	its obje	ctives ir	n interna	ational b	of business savoir- ousiness relations	Z_W01, Z_W04, Z_W12	
L02				bu	siness s	situation	S	e rules in different	Z_U03, Z_U9, Z_K05	
LO3	Т	he stud				o disting		e differences in ries	Z_U09, Z_U10, Z_K06	
LO4		Th	e stude	nt has t	he abilit	y to coo	perate	in a team	Z_U12, Z_K03, Z_K05	
Symbol of learning outcome								utcome	Type of teaching activities (if more than one) during which the outcome is assessed	
L01				cl	asses, 1	final tes	t	ent's activity during	С	
LO2				cl	asses, 1	final tes	t	ent's activity during	С	
LO3	Eva	luation	of indivi			asks an final tes		ent's activity during	С	

LO4	Evaluation of team tasks	С							
	Student workload (in hours)	No. of hours							
	Participation in classes	30							
Calculation		1							
	;	31							
	HOURS	No. of ECTS credits							
Student w	orkload – activities that require direct teacher participation	31	1,2						
	Student workload – practical activities	31	1,2						
Basic references	 Martin J.S., Chaney L.H., Global business etiquette, A guide to business comunication and customs ABC Clio, Greenwood 2012. Pachter B., Essentials of Business Etiquette: How to Greet, Eat, and Tweet Your Way to Success McGraw-Hill Education, 2014. Steers R.M., Nardon L.; Sánchez-Runde C., Management Across Cultures, Cambridge Universit Press, Cambridge, 2016. Randlesome C., Business cultures in Europe, 2nd ed. Oxford: Butterworth-Heinemann, 1993. 								
Supplementary references	 Roomsbury Business Library - Email Etiquette. Margulis A. R., How to Rise to the Topand Stay There!: A Leadership Manual, Springer, New York, 2011. Dunn, Dickel C., Formal forms or verbal strategies? Politeness theory and Japanese business etiquette training, Journal of Pragmatics, 2011, vol.43(15), pp.3643-3654. 3. du Pont M.K., Business etiquette and professionalism, Axco Press, 1993. Mac Phrson Ch., Pocket butler, Turnaround Publisher Services, London, 2014. Tomalin B., The world's business cultures and how to unlock them, Thorogood Publishing, London, 2007. Vollmer S., Business Etiquette in China Journal of Accountancy, 2012, vol.214(6). 								
Organisational unit conducting the course	International Department of Logistics and Service Engineering	Date of issuing the programme							
Author of the programme	Aleksandra Gulc, PhD	19.11.2020							

				Bialys	stok Un	iversity	of Tec	hnology	
Field of study			Ма	nagem	ent			Degree level and programme type	second degree full-time
Specialization/ diploma path		Sma	rt and i	novati	ve busi	ness		Study profile	academic
			Duei		ماريدا		Course code	ZSUA04947	
Course name			Dusii	ness cu	iiture		Course type	elective	
Forms and number of	L	С	LC	Р	sw	FW	S	Semester	4
hours of tuition		30						No. of ECTS credits	1
Entry requirements									
Course objectives	the so have t Skills: import Social negoti	urces of he great Student ance of compet ation in	stereoty test impa ts will be religion, tences: busines	pes and act, will act, will act, will act will act will be wil	d prejud be ident ir with c and syl ig abilition	ices. The tified. ultural d mbols in es to us	e areas ifferenc busine e verba	of international busing ses in verbal and non- ss. al and nonverbal com	e in international business and ess, on which national cultures verbal communication and the munication skills and effective
Course content	Cultural environment - what is national culture? Stereotypes and prejudices - barriers resulting from the cultural background. The main cultural orientations. The importance of the cultural background in international business - concept and international business areas. The impact of cultural differences on international dealings. Forms of international orientation. Linguistic diversity in international business. The variety of verbal communication styles. Non-verbal communication in international business. Religion, values and symbols as cultural aspects in the international business. Intercultural negotiations. The essence of the negotiations. The style of negotiations. The duration of the negotiations, the manner and duration of decision making. The elements of business protocol - the importance of titles, business cards, dress code, gifts. Overcoming culture shock - what is culture shock? Who is exposed to the symptoms of culture shock? Acclimatization phase. Causes of culture shock. Learning and respecting other cultures.								
Teaching methods		cas	se studie	s, indivi	idual an	d group	exercis	es, brainstorming, mo	derated discussion
Assessment method		eval	uation o	f individ	ual and	team tas	sks and	student's activity duri	
Symbol of learning outcome						utcome			Reference to the learning outcomes for the field of study
L01		the im	pact of c	cultural c	differenc	es on in	ternation	und in business and onal dealings	Z_W04, Z_W12
LO2		and r	nonverba	al comm	nunicatio	on in inte	ernation	and ways of verbal al business	Z_U03, Z_U09, Z_U10
LO3	The s	student i				ational r dyploma		ions effectively and locol	Z_U09, Z_U10, Z_K05
LO4		Th	ne stude	nt has th	ne ability	y to coop	erate i	n a team	Z_U12, Z_K05, Z_K06
Symbol of learning outcome		N	/lethods	of asso	essing t	the lear	ning ou	utcome	Type of teaching activities (if more than one) during which the outcome is assessed
L01				cl	asses, f	inal test		nt's activity during	С
LO2				cl	asses, f	inal test		nt's activity during	С
LO3	Eva	aluation	of indivi	dual and	nt's activity during	С			

LO4	Evaluation of team tasks	С		
	No. of hours			
	Participation in classes	30		
Calculation	Participation in student-teacher sessions related to the class	,	l	
	TOTAL:		31	
	HOURS	No. of ECTS credits		
Student	workload – activities that require direct teacher participation	31	1,2	
	Student workload – practical activities	31	1,2	
Basic references Supplementary references	 Steers R.M., Nardon L.; Sánchez-Runde C., Management Across Corpress, Cambridge, 2016. Randlesome C., Business cultures in Europe, 2nd ed.Oxford: Butterword Sumith A., Best commercial practice: business theory a. practice: c Gesteland R., Cross-Cultural Business Behavior. A Guide for Global Services, 2013. Tomalin B.,Nicks M., The World's Business Cultures, Thorogood Publish O'Donnel O., Boyle R., Understanding and Culture,https://www.ipa.ie/_fileUpload/Documents/CPMR_DP_40_Under lture.pdf. Schein E.H., Organizational culture and leadership, htt Perpustakaan_Digital_2/ORGANIZATIONAL%20CULTURE%20Organiz 20Leadership,%203rd%20Edition.pdf 	rth-Heinemann, ulture, Recanati Management, hing Ltd, Londor Managing erstanding_Mana p://www.untag-s	1993. ELI, 2013. Gazelle Book 1, 2007. Organisational aging_Org_Cu amd.ac.id/files/	
Organisational unit conducting the course	International Department of Logistics and Service Engineering	Date of issuing the programme		
Author of the programme	Aleksandra Gulc, PhD	19.11.2020		

			E	Bialysto	k Univ	ersity o	f Techi	nology	
Field of study	Management							Degree level and programme type	second degree full-time
Specialization/ diploma path		Sma	rt and i	nnovati	ive bus	iness		Study profile	academic
			le.	tornoh	in			Course code	ZSUA04220
Course name	Internship Course							Course type	elective
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	4
of tuition	2 wee	eks (to	be com	No. of ECTS credits	2				
Entry requirements								-	
Course objectives	princi profes allowi enviro preva	ples an ssional ing for onment illing in	d mech skills re solving Social the orga	anisms elated t proble compe anization	of the of the file	organiza eld of s ulting fr Improvi rprise. E	ation / study. A rom the ing soci	enterprise. Skills: Edu Acquisition and broad a nature of the orga al skills and compete ning professional com	
Course content	Gettin issue: gaine	ng acqu s relate d in the	ainted ved to the	vith the e field o e of stu	specific of study idies in	city of wo and sp the pra	ork in va pecializa	arious positions. Acquation, and confronting	safety and fire regulations. uiring practical knowledge of the theoretical knowledge he company / organization.
Teaching methods		Ĭ					-		
Assessment method	weeks fulfilln the in plan of of the comp also t intern the fie progra	The condition for obtaining credit for internships is their completion in the dimension of min. 2 weeks in an organization verified by the internship supervisor and approved by the Dean, as well as fulfillment of the tasks set out in the internship program, achieving learning outcomes and providing the internship supervisor with correctly completed and signed documents - approval of the place and plan of the student internship (before the start of internship), agreement apprenticeship for students of the Białystok University of Technology, journal of student apprenticeships, certificates of completed apprenticeships and the final report. The condition for obtaining credit for internships may also be employment in the country or abroad if the nature of work meets the requirements of the internship program, student participation in a research camp with a profile consistent with the internship program, student participation in research conducted by the University in accordance with the field of study, other forms of professional activity internships that meet the requirements of the program - e.g. running your own business, volunteering. The decision on crediting the internship in the above-mentioned situations is made by the Dean after consulting the internship tutor. Internships							
Symbol of learning outcome				Le	arning	outcom	ies		Reference to the learning outcomes for the field of study
LO1	Has	extensi				ocesses and its e		nenomena occurring nent.	Z_W03, Z_W10
LO2	comp of	lex pro the cor	epth kno blems re mpany /	owledge elated to organiz	e that al o the ele zation a enviro	lows hir ementar nd its m nment.	n to dia y asped anagen	gnose and solve cts of the functioning nent in a complex	Z_W10, Z_W12, Z_U01, Z_U03
L03	its e	environ	ment, ar	nd is aw relate	are of t	he resp e profes	onsibilit sion.	the organization and ies and challenges	Z_W12, Z_U08
LO4	demo	environ onstrate	ment, co s the ab	onstructions on the construction of the constr	tive eva make de to w	luation ecisions ork.	of other in com	ments of the work people's work, plex matters related	Z_U06, Z_U08, Z_K01
LO5	He	can crit				ılness a ledge in		fication of applying e.	Z_K01
LO6	He	is capa	able of e	ffective	commu		n, team	work, professional	Z_U12, Z_U13

Symbol of learning outcome	Methods of assessing the learning outcome	Type of teaching activities (if more than one) during which the outcome is assessed					
L01	assessment of the compliance of the internship with its program						
LO2	assessment of the compliance of the internship with its program						
LO3	assessment of the compliance of the internship with its program						
LO4	assessment of the compliance of the internship with its program						
LO5	assessment of the compliance of the internship with its program						
LO6	assessment of the compliance of the internship with its program						
	Student workload (in hours)						
Coloulation	participation in the practice (2 weeks)	50					
Calculation	TOTAL:	50					
	Quantitative indicators	HOURS	No. of ECTS credits				
Student we	orkload – activities that require direct teacher participation	50	2				
Student worklo	ad – practical activities Student workload – practical activities:	50	2				
Basic references							
Supplementary references	-	_					
Organisational unit conducting the course	Organisational unit conducting Department of Management, Economics and Finance						
Author of the programme	Justyna Grześ-Bukłaho, PhD	23.11.2020					

			E	Bialysto	ok Univ	ersity o	t Lechi	nology					
Field of study			second degree full-time										
Specialization/ diploma path		Smai	academic										
		Masta		مائمام		Course code	ZSUA04071						
Course name		Master degree diploma seminar 2 Course type							elective				
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	4				
of tuition							30	No. of ECTS credits	6				
Entry requirements													
Course objectives	is to c	develop		sis in a	ccordar	ice with	the req	uirements of the meth	and research work. The aim odology of scientific work.				
Course content	and for search thesis (concording)	ormulathing for Gather	tion of the literature ring an of the literature ring and literatu	the ain ire on t d orga f work). nd tech	n of the the subj nizing the Develonnical p	work and and mate mate ping the roblems	and res indicat rial. Dis conce s. Discu	earch questions. Dis ing sources. Discussing cussing the principles pt and plan of the the	ne principles of formulation cussing the techniques of any the technique of writing of constructing the thesis sis and its individual parts. the diploma examination.				
Teaching methods					discu	ssion, p	resenta	tions, case studies					
Assessment method						ticipatio	n in the		arts of the diploma thesis; ge of the basic rules of				
Symbol of learning outcome				Le	arning	outcom	ies		Reference to the learning outcomes for the field of study				
L01		The stu	dent red	cognize			The student recognizes the basic rules of the diploma thesis						
1.00	methodology The student defines the research problem, subject, aim and research questions								Z_W06, Z_W14				
LO2							, subjec	t, aim and research	Z_W01, Z_U03, Z_U04				
L02 L03		The s	tudent o	collects	ques	tions		t, aim and research					
	The s				ques	tions erprets t	he subj		Z_W01, Z_U03, Z_U04				
LO3		tudent	develop	s a cor	ques and inte	tions erprets t d work for solvi	he subj	ect literature.	Z_W01, Z_U03, Z_U04 Z_U06				
LO3 LO4		tudent e studer	develop nt develo	s a cor	ques and inte acept an oncept to proble	erprets t d work for solving ems.	he subj plan and	ect literature. d its individual parts.	Z_W01, Z_U03, Z_U04 Z_U06 Z_U04, Z_U13				
LO3 LO4 LO5 Symbol of	The	student e studer	develop nt develo	s a cor	ques and inte	tions erprets t d work for solving ems.	he subjolan and	ect literature. d its individual parts. arch and technical	Z_W01, Z_U03, Z_U04 Z_U06 Z_U04, Z_U13 Z_U04, Z_U07 Type of teaching activities (if more than one) during which the				
LO3 LO4 LO5 Symbol of learning outcome	The	student e studer	develop nt develon flethods in class	s a cor	ques and inte	tions erprets t d work for solvi ems. the lea	he subjolan and ng researching constraints of the subject of the s	ect literature. d its individual parts. arch and technical outcome	Z_W01, Z_U03, Z_U04 Z_U06 Z_U04, Z_U13 Z_U04, Z_U07 Type of teaching activities (if more than one) during which the outcome is assessed				
LO3 LO4 LO5 Symbol of learning outcome LO1	The disc	student e studer	developent	s a cor ops a c	ques and inte	tions erprets t d work for solvi ems. the lea	he subjoind and not research trining constraints of the subject of	ect literature. d its individual parts. arch and technical outcome red by the student	Z_W01, Z_U03, Z_U04 Z_U06 Z_U04, Z_U13 Z_U04, Z_U07 Type of teaching activities (if more than one) during which the outcome is assessed				
LO3 LO4 LO5 Symbol of learning outcome LO1 LO2	The disc	student e studer Nucussion cussion cussion	developent	s a cor ops a c	ques and inter acept an oncept to proble sessing ation of	tions erprets t d work for solving ems. the lea chapter chapter	he subjolan and ng researching constraints of the subject of the s	ect literature. d its individual parts. arch and technical outcome red by the student red by the student	Z_W01, Z_U03, Z_U04 Z_U06 Z_U04, Z_U13 Z_U04, Z_U07 Type of teaching activities (if more than one) during which the outcome is assessed S S				
LO3 LO4 LO5 Symbol of learning outcome LO1 LO2 LO3	The disc	student e studer Nucussion cussion cussion	developent	s a cor ops a c s of ass s, evalu s, evalu on of ch	ques and inter acept an oncept to proble sessing ation of	tions erprets t d work for solving ems. the lea chapter chapter chapter	he subjolan and ng researching constraints of the subject of the s	ect literature. d its individual parts. arch and technical butcome red by the student red by the student red by the student	Z_W01, Z_U03, Z_U04 Z_U06 Z_U04, Z_U13 Z_U04, Z_U07 Type of teaching activities (if more than one) during which the outcome is assessed S S S				
LO3 LO4 LO5 Symbol of learning outcome LO1 LO2 LO3 LO4	The disc	student e studer neussion eussion eussion	developent	s a cor ops a c s of ass s, evalu s, evalu on of ch	ques and inter acept an oncept i probl sessing ation of ation of apters p	tions erprets t d work for solvi ems. the lea chapter chapter chapter prepare work in	he subjolan and ng researching constraints of the subject of the s	ect literature. d its individual parts. arch and technical butcome red by the student red by the student red by the student	Z_W01, Z_U03, Z_U04 Z_U06 Z_U04, Z_U13 Z_U04, Z_U07 Type of teaching activities (if more than one) during which the outcome is assessed S S S				
LO3 LO4 LO5 Symbol of learning outcome LO1 LO2 LO3 LO4	The disc	student e studer Lussion cussion cussion Stu	develop nt develop net develop in class in class in class evaluation	s a cor ops a c s of ass , evalu , evalu on of ch obser orkloac	questand interpretation of ation of ati	tions erprets t d work for solving ems. the lea chapter chapter chapter chapter work in urs)	he subjolan and ng research rining constraints of the subjolan and ng research rining constraints of the subjolant ring co	ect literature. d its individual parts. arch and technical butcome red by the student red by the student red by the student	Z_W01, Z_U03, Z_U04 Z_U06 Z_U04, Z_U13 Z_U04, Z_U07 Type of teaching activities (if more than one) during which the outcome is assessed S S S S S				

	Implementation of tasks concerning the preparation of the thesis	6	0					
	Participation in consultations	5						
	TOTAL:	1:	50					
	HOURS	No. of ECTS credits						
Student we	orkload – activities that require direct teacher participation	35	1,4					
Student worklo	ad – practical activities Student workload – practical activities:	150	6					
Basic references	 S. Bailey, Academic writing: a handbook for international students, 2011, A. Oshima, L. Ravitch, Longman academic writing series. 4, Essays, 2017 WYTYCZNE w sprawie przygotowania prac dyplomowych (magisterskich, inżynierskich, licencjackich) na Wydziale Zarządzania Politechniki Białostockiej (Załącznik do Uchwały nr 4/10/2016 Rady Wydziału Zarządzania z dnia 12 października 2016 roku), http://wz.pb.edu.pl/media/a26fc5eb-1b7f-4004-8d4d-8dadc4c1894f/E9BcoA/Studenci/Dziekanat/Prace%20dyplomowe/Wytyczne-do-pisania-pracdyplomowych.pdf [21.03.2017]. 							
Supplementary references	Specialist literature - according to the subject of the work.							
Organisational unit conducting the course	International Department of Logistics and Service Engineering		of issuing gramme					
Author of the programme	Anna Kononiuk, PhD	26.11.2020						

			E	Bialysto	ok Univ	ersity o	of Tech	nology	
Field of study			Ма	nagen	nent		Degree level and programme type	second degree full-time	
Specialization/ diploma path	Smart and innovative business							Study profile	academic
Course name			Dipl	oma Ti	nesis			Course code	ZSUA04221
				elective					
Forms and number of hours	L	С	LC	P	SW	FW	S	Semester	4
of tuition								No. of ECTS credits	18
Entry requirements							Diplor	ma seminar	
Course objectives	Writin	ıg a dip	loma the	esis (M	aster's t	hesis) b	y a stu	dent	
Course content	of the on the collect (conc	Definition of research issues and thesis topic; discussion of principles of formulation and formulation of the aim of the work and research questions; discussion of techniques of searching for literature on the subject and indication of sources; discussion of techniques of writing the master's thesis; collection and arrangement of material; discussion of principles of constructing the master's thesis (concept and plan of work); development of the concept and plan of the master's thesis and its individual parts; solving research and technical problems.							
Teaching methods								-	
Assessment method					Evaluat	ion of th	ne diplo	ma thesis by the supe	rvisor
Symbol of learning outcome				Le	earning	outcom	es		Reference to the learning outcomes for the field of study
L01	is a				-			ces and assess its em/task	Z_U04, Z_K01
LO2	formu	ulates th	-			e of wor		knowledge of how to	Z_W06
LO3					•	•		menon, process or ork and its purpose	Z_W03, Z_U05
LO4			conclus	ions or	final sta		s, takin	g into account the	Z_U06
LO5	struc	ture of t	ability to the thes complete	construis - pro eness),	uct his/h per seq applies	ier mast uence c	ter's the of chapt per styl	esis correctly (the ers and subchapters le of language and	Z_U13
LO6			-			ethically			Z_K06
Symbol of learning outcome		M	ethods	of ass	essing	the lea	rning o	utcomes	Type of tuition during which the outcome is assessed
L01				Mast	er's the	sis evalu	uation		
LO2				Mast	er's the	sis evalu	uation		
LO3									

LO4	Master's thesis evaluation								
LO5	Master's thesis evaluation								
LO6									
	No. of hours								
	2	20							
Calculation	Preparation of the Master's thesis	4:	30						
	TOTAL:	4	50						
	HOURS	No. of ECTS credits							
Student wo	orkload – activities that require direct teacher participation	20	0,8						
	Student workload – practical activities	450	18						
Basic references	 Specialist literature - according to the subject of the paper. Guidelines concerning the preparation of diploma theses (master's, engineering and bachelor's theses) at the Faculty of Management of the Bialystok University of Technology, Appendix to Resolution No. 4/10/2016 of the Management Faculty Council of 12 October 2016. Tharenou, P., Donohue, R., & Cooper, B., Management Research Methods, (1st ed.) Cambridge University Press, Cambridge UK 2007, https://doi.org/10.1017/CBO9780511810527 								
 Randolph, J. J A guide to writing the dissertation literature review. Practical Assessment, Research & Evaluation, 14(13), 2009. Stake R.E., Case studies, w: Handbook of Qualitative Research, red. N.K. Denzin, Y.S. Lincoln, Thousand Oaks, London, New Delhi 1994. Yin R.K., Case Study Research: Design and Methods, Thousand Oaks, California 1994. 									
Organisational unit conducting the course	Department of Management, Economics and Finance		ssuing the amme						
Author of the programme	Joanna Szydło, PhD	20.11	.2020						