SYLLABUS academic year 2023/24Faculty of Economics
University of Gdansk

Course title Inve		stment and Risk Assesment							ECT	ECTS code		14.3.EE.KL.3645			
									S credi	its	4				
Name of unit adm	inistra	iting stud	y KE	T	Field of st	udy	Econom	nics	Field of s	peciali	isation	l	_&M		
Teaching st	taff	Prze	emysław	Borkowsk	i, Associa	te Profess	sor ; Mago	dalena Ma	rkiewicz,	Ph.D.					
					Numbe	er of hou	°S								
Lectures 15	Classe	es 15	Tuto	rials	0	Laborato	ory	0 Sei	minars	0 L	.anguag	e class	ses 0		
		For	ma aktyw	ności			,	Year&Typ	e of studi	es*		1 SS2	•		
Hours with the par office hours, exam			e academ	ic teacher	r (includin	g		Sen	nester:			2,			
			Type of course:			0	obligatory								
Hours without the participation of the academic teacher (student's self-study, homeworks): Total number of hours: Teaching form in-class learning							0		juage of ruction:			English	າ		
Teaching form	1	in-class l	earning												
Teaching metho	ds	Lectures including multimodal presentations, Activating methods in training classes, Case studies,										lies,			
		P	rerequisit	es (requi	red course	es and int	roductory	requiren	nents)						
Required course	es	Mathema	atical stat	istics											
		Understa	inding of	basic ecoi	nomic con	cepts									
				Assessm	nent meth	od, forms	and crite	eria							
Assessment metl	hod	Exam													
Assessment criteria Exam consisting of project based on solving real investment case assessment. Theoretical part (30%) and practical problems to be solved (70%). Marking: more than 50% to 60% = 3; more than 60% to 70% = 3.5; more than 70% to 80% = 4; more than 80% to 90% = 4.5; above 90% = 5.															
					Course	objectiv	es								
 to make student to understandent to manage are to be able to to be able to to be able to to be able to 	d risk and ass manag compa	and how i ess risk ge investi are and se	it applies ment duri elect pref	to investr ng its life: erable inv	ment projo span vestments			ctor							
					Learnin	g outcom	es								
Knowledge		E2_W03	ll l		he investi	ment con	cept and i	relation b	etween er	ntities	in the i	nvestn	nent		
	E2_W04 Knows methods for assessment of economic and financial viability. Knows how to apprise risks in investment projects.														
		E2_W06			nowledge nt risk ma			al instrun	nents for	or investment management					
E2_W08 Understands the differences between T&L sectors.							veen publ	ic and pri	vate inve	stment	ts in inf	rastru	cture and		
			Ve	erification	of learnin	ng outcon	nes - Knov	wledge							
)er	S	пć	L L							
Outcomes		written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom	discussion	project	group project		
E2_W03		X							Х	Х					
E2_W04						Х				Х		Х			
E2_W06						Х				Х		Χ			

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E2_W08								X	X	X			
Skills	E2_U02 Is able to formulate and evaluate assessment critiria for investment acceptance.												
	E2_U04 Can apply CBA and VaR techniques. Can calculate ENPV of complex investment projects Can calculate risk and perform sensitivity analysis.									orojects.			
	E2_U06		Can select appropriate method for project assessment. Can select optimal finaning. Can select adequate tools for the investment risk management.										
	E2_U07	Is ab	Is able to perform comparative analysis of alternative investments										
Verification of learning outcomes - Skills													
Outcomes	written	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project		
E2_U02								Х	Х				
E2_U04										X			
E2_U06										X			
E2_U07								X	Х				
Attitudes	E2_K01 Can analyse problems taking into account multiple factors. Can make decisions referi to methods and selected algorithm.									efering			
	E2_K02 Understands limitations of methods used. Can search for indicators and data.												
	E2_K04 Is able to follow assessment procedure for the complex investment project applying appropriate techniques at various stages of the assessment procedure												
	E2_K03 Learns how to reconcile contradictory investment requirments. Understands ipmacts on society and can plan on mitigitaing negative environmental and social aspects of investments.												
		٧	'erificatio	n of learn	ing outcor	nes - Atti	tudes						
Outcomes	written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project		
E2_K01					X				Х	Х			
E2_K02										Х			
E2_K03										Х			
E2_K04								Х	Х				
Course contents													

- 1. Basics of investment theory: investment in real vs financial sector, investment theories: financial investment equilibrium in Markowitz and CAPM vs real sector investment market equilibrium, investors and investment lifecycles, infrastructure vs company own investments (2h)
- 2. Financing real sector investments: financial mechanisms for investing in real sector, external and internal capital, cost of capital, innovative financial instruments, green bonds and green financing (4h)
- 3. Investment decision making process: application of the theory of decision making under condition of risk into real sector investments, investment selection, preliminary investment assessment, alternative investments (2h)
- 4. Investment financial and economic assessment: financial indicators, rate of return and discounted cash flows, fundamental analysis of the investment project (4h)
- 5. Cost Benefit Analysis: calculation of costs and benefits, ENPV and BCR for selected T&L investments (5h)
- 6. Risk identification and assessment in investment projects: risk typology, qualitative and quantitative risk assessment, VaR and sensitivity for investment project assessment (5h)

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- 7. Risk management: risk strategies, internal and external risk instruments, use of real options and derivatives, risk avoidance and risk taking (4h)
- 8. Case studies in investment assessment in T&L sector (4h)

Recommended reading lists

- 1. P. Borkowski, A framework for risk analysis in infrastructure projects, Prace Naukowe Uniwersytetu Ekonomicznego we Wrocławiu, Wydawnictwo Uniwersytetu Ekonomicznego we Wrocawiu, nr 401, 2015, s. 69-82, DOI:10.15611/pn.2015.401.0
- 2. P. Borkowski, Applicability of reference-based appraisals in the assessment of real sector investment projects, Prace Naukowe Uniwersytetu Ekonomicznego we Wrocławiu, nr 401, 2015, ss. 58-68.
- 3. Guide to Cost-Benefit Analysis of Investment Projects, European Commission, Brussels 2014
- 4. P. Borkowski, Practice of cost benefit analysis in transport infrastructure projects in the European Union, Zeszyty Naukowe Uniwersytetu Szczecińskiego Problemy Transportu i Logistyki, Wydawnictwo Naukowe Uniwersytetu Szczecińskiego, nr 27, 2014, s. 49-63.
- 5. H.Priemus, B.Flyvbjerg, B.van Wee, Decision-making on mega-projects, Edward Elgar Publishing, Cheltenham 2008.
- 6. Assessing the true value of infrastructure investments, KPMG, 2016.

Contact

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^{*} SS1- undergraduate studies * SS2 - graduate studies * SDang - doctoral studies

^{**} MSG - International Economic Relations