		STUDY MODULE D	ESCRIPTION FORM		
Name of the module/subject Economic Forecasting			Code 1011104461011136781		
Field of	study	-	Profile of study	Year /Semester	
l ogi	stics - Part-time	studies - First-cycle	(general academic, practical) (brak)	3/6	
	path/specialty		Subject offered in:	Course (compulsory, elective)	
LIGOUVO	pairropoolaity	-	Polish	elective	
Cycle of	f study:		Form of study (full-time,part-time)		
First-cycle studies			part-time		
No. of h	ours			No. of credits	
Lectur		s: - Laboratory: -	Project/seminars:	- 3	
		program (Basic, major, other)	(university-wide, from another f		
	-	(brak)		(brak)	
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)	
socia	I sciences			3 100%	
30018					
	Economics			3 100%	
Resp	onsible for subje	ect / lecturer:	Responsible for subject	ct / lecturer:	
dr T	omasz Brzęczek		dr Tomasz Brzęczek		
	ail: tomasz.brzeczek@	put.poznan.pl	email: tomasz.brzeczek@put.poznan.pl		
	61 665 33 92		tel. 61 665 33 92		
	ulty of Engineering Ma	-	Wydział Inżynierii Zarządzania ul. Strzelecka 11 60-965 Poznań		
	Strzelecka 11 60-965 F				
Prere	equisites in term	s of knowledge, skills an	d social competencies:		
1	Knowledge	Student knows economics terms	s and laws.		
2	Skills	Student can use computer ane	Excel.		
3	Social competencies	Student works in team for project	ct preparation.		
Assu	-	ectives of the course:			
	• •	ating and forecasting of economic	variables.		
	-	out forecasting theory and metho			
-		mes and reference to the		a field of study	
Knov	vledge:			,	
	-	theory terms (forecast, simulatio	n, forecasting process, error, ad	ccuracy), - [K1A W26]	
	ws methods classificat	•	,		
		te for stationary time series [K'	1A_W04]		
		te for nonstationary time series, ir			
		and their types and methods of e	v : = :		
	-	orecasting [K1A_W04]	- ·		
Skills	5:				
1. Stuc	lent can forecast and a	assess forecasts in scientifc way.	- [K1A_U05]		
		ng methods (naive, moving avera		- [K1A_U09]	
		ends, seasonality and correlated i			
4. Can	forecast using Excel a	and GRETL [K1A_U07]			
5. Can	estimate error of fore	cast ex ante and ex post [K1A_	_U15]		
Socia	al competencies:				
1. Stuc	lent is concious about	forecasting role and meaning in r	management [K1A_K01]		
2. Pror	notes forecasting in m	anagement [K1A_K06]			
3. Is re	adv to work in forecas	ting field projects and teams [K	1A K03]		

Assessment methods of stu	dy outcomes			
Forming mark:				
on basis of questions about curent themes.				
Summary mark:				
on basis of written project entitled "Revenues forecasting in a chosen ente economic variable in enterprise. Project form and content are marked.	rprise? or on the simulatio	n or forecasting of other		
Course descriptio	n			
1. Forecasting theory. Terms, forecast, simulation, forecasting proc	cess, error, accuracy.			
2. Examination of autocorrelation and unity roots. Stationary series stationary variance forecasting (naive method, moving average, exponential series) and the series of	0.	autoregression) and nor		
3. Trends. Linear and non-linear. Residuals autocorrelation.				
4. Seasonality effects. Additive (mechanical and seasonal dummie	s method) and multiplicativ	ve (seasonality indices).		
5. Case of revenue forecasting with software assistance.				
6. Smoothing models with trends: Holt;s and Winters'.				
7. Simulation in econometric deterministic model.				
Basic bibliography:				
1. Prognozowanie gospodarcze. Metody i zastosowania, Cieślak M. (re	d.), WN PWN, Warszawa	2002.		
2. Gujarati D.N., Basic Econometrics, McGraw-Hill 2002.				
3. Kufel T., Ekonometria. Rozwiązywanie problemów z wykorzystaniem pr	ogramu GRETL WN PWN	, Warszawa 2011.		
4. Witkowska D., Podstawy ekonometrii i teorii prognozowania, Oficyna Ek	konomiczna, Kraków 2006			
Additional bibliography:				
1. Borkowski B., Dudek H., Szczesny W., Ekonometria. Wybrane zagadnie 2004.	enia, Wydawnictwo Nauko	we PWN, Warszawa		
2. Dittmann P., Prognozowanie w przedsiębiorstwie, PWE, Warszawa 200	13.			
3. Kufel T., Ekonometryczna analiza cykliczności procesów gospodarczyc UMK, Toruń 2010.		i obserwowania, WN		
Result of average student's	s workload			
Activity		Time (working hours)		
1. Lectures		16		
2. Consultations	30			
3. Student	30			
Student's workloa	ıd			
Source of workload	hours	ECTS		
Total workload	76	3		
Contact hours	45	3		
	40			