		STUDY MODULE D	ESCRIPTION FORM			
Name of the module/subject Economic Forecasting			Code 1011104461011136781			
Field of	study	-	Profile of study	Year /Semester		
Logi	stics - Part-time	studies - First-cycle	(general academic, practical) (brak)	3/6		
Elective	path/specialty		Subject offered in: Polish	Course (compulsory, elective)		
Cycle of	f study:	•	FOIISI Form of study (full-time,part-time)			
Cycle of						
First-cycle studies			part-time			
No. of h	ours			No. of credits		
Lectur	e: 16 Classes	: - Laboratory: -	Project/seminars:	- 3		
Status o	-	program (Basic, major, other)	(university-wide, from another	*		
(brak)			(brak)			
Education	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
socia	l sciences			3 100%		
	Economics			3 100%		
Resp	onsible for subje	ect / lecturer:	Responsible for subje	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 ulty of Engineering Ma	pagement	tel. 61 665 33 92 Wydział Inżynierii Zarządz	ania		
	Strzelecka 11 60-965 F	0	ul. Strzelecka 11 60-965 Poznań			
Prere	auisites in term	s of knowledge, skills an	d social competencies:			
	•	Student knows economics terms	•			
1	Knowledge	Student knows economics terms	s and laws.			
2	Skills	Student can use computer ane I	Excel.			
3	Social competencies	Student works in team for project	ct preparation.			
Accu	-	ectives of the course:				
			variables			
<ul><li>C1 Forming skills of simulating and forecasting of economic variables.</li><li>C2 Aquiring knowledge about forecasting theory and methods.</li></ul>						
02 /		mes and reference to the		a field of study		
Knov	/ledge:					
		theory terms (forecast, simulation	n, forecasting process error a	ccuracy), - [K1A W26]		
	ws methods classificat					
		te for stationary time series [K1	IA_W04]			
		te for nonstationary time series, ir	-			
5. Kno	ws seasonality effects	and their types and methods of e	stimation [K1A_W04]			
		orecasting [K1A_W04]	-			
Skills	:					
1. Stuc	lent can forecast and a	assess forecasts in scientifc way.	- [K1A_U05]			
2. Can	forecast with smoothi	ng methods (naive, moving average	ge, exponential average, Holt	- [K1A_U09]		
3. Can	forecast analitically tre	ends, seasonality and correlated r	andom effects (OLS, GLS)	[K1A_U09]		
4. Can	forecast using Excel a	and GRETL [K1A_U07]				
		cast ex ante and ex post [K1A_	_U15]			
Socia	al competencies:					
		forecasting role and meaning in n	nanagement [K1A_K01]			
	-	anagement [K1A_K06]				
3. Is re	ady to work in forecas	ting field projects and teams [K	1A K03]			

Assessment methods of study	outcomes			
Forming mark:				
on basis of questions about curent themes.				
Summary mark:				
on basis of written project entitled "Revenues forecasting in a chosen enterprise economic variable in enterprise. Project form and content are marked.	se? or on the simulation	n or forecasting of other		
Course description				
1. Forecasting theory. Terms, forecast, simulation, forecasting process	s, error, accuracy.			
2. Examination of autocorrelation and unity roots. Stationary series for stationary variance forecasting (naive method, moving average, exponential s	5,	autoregression) and nor		
3. Trends. Linear and non-linear. Residuals autocorrelation.				
<ol> <li>Seasonality effects. Additive (mechanical and seasonal dummies method) and multiplicative (seasonality indices).</li> </ol>				
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. (red.),	WN PWN, Warszawa	2002.		
2. Gujarati D.N., Basic Econometrics, McGraw-Hill 2002.	,			
3. Kufel T., Ekonometria. Rozwiązywanie problemów z wykorzystaniem progra	amu GRETL WN PWN	. Warszawa 2011.		
<ol> <li>Witkowska D., Podstawy ekonometrii i teorii prognozowania, Oficyna Ekono</li> </ol>				
Additional bibliography:	<u> </u>			
<ol> <li>Borkowski B., Dudek H., Szczesny W., Ekonometria. Wybrane zagadnienia 2004.</li> </ol>	i, Wydawnictwo Naukov	we PWN, Warszawa		
<ol> <li>Dittmann P., Prognozowanie w przedsiębiorstwie, PWE, Warszawa 2003.</li> </ol>				
<ol> <li>Bitiliani I., Floghozowanie w przedsiębiorstwie, Fwie, warszawa 2003.</li> <li>Kufel T., Ekonometryczna analiza cykliczności procesów gospodarczych o UMK, Toruń 2010.</li> </ol>	wysokiej częstotliwości	obserwowania, WN		
Result of average student's w	vorkload			
Activity		Time (working hours)		
1. Lectures		15		
2. Consultations	30			
3. Student	30			
Student's workload				
Source of workload	hours	ECTS		
Source of workload Total workload Contact hours	<b>hours</b> 75 45	<b>ECTS</b>		