		STUDY MODULE D	ESCRIPTION FORM				
	f the module/subject Yeying Measurem	nents Training		Code 1010101221010110121			
Field of	study	neering First-cycle Studie	Profile of study (general academic, practical general academic				
	path/specialty	ieering i list-cycle Studie	Subject offered in:	L Course (compulsory, elective)			
2.000.00	pairsopoolaity	-	Polish	obligatory			
Cycle of	f study:		Form of study (full-time,part-time)				
First-cycle studies full-time				time			
No. of h	ours			No. of credits			
Lectur	re: - Classes	s: 60 Laboratory: -	Project/seminars:	- 2			
Status o	of the course in the study	program (Basic, major, other)	(university-wide, from another				
		other	univ	ersity-wide			
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)			
ema tel. Fac	inż. Michał Moczko ail: michal.moczko@pi 616652421 ulty of Civil and Enviro Piotrowo 5 60-965 Poz	onmental Engineering					
Prere	equisites in term	s of knowledge, skills an					
1	Knowledge	Knowledge of analytic geometry, trigonometry and knowledge of the basic methods in the field of mathematical analysis.The knowledge gained in the classroom with surveying conducted in the semester preceding					
		the practice of surveying.					
2	Skills	Ability to solve basic tasks in ma Skills gained in the classroom w of surveying.	• • •	onometry. semester preceding the practice			
3	Social competencies	Diligence and regularity in acqui	ring knowledge and skills.				
Δεειι		ectives of the course:					
Fieldwo This is fieldwo etc. de	ork with geodetic surv done by consulting ar ork tasks include training termines the height di n well let alone some	eying practices are known to deve nd implementation of practical acti ng in mastering the techniques of fferences. Entire job including the of the tasks encountered in engine	ons clearly formulating surveyi measurement, which is measu development is to develop the eering practice.	ng tasks. Linking the theme of red repeatedly length, angles, ability to work in a team and			
		mes and reference to the	educational results for	r a field of study			
	vledge:						
	student knows how to d accuracy [-K_W0	properly interpret the task of surv 9]	reying, choose the equipment a	and perform them with the			
Skills	5:						
		rre angles, distances and height di hts [-K_U08,K_U10,K_U15]	ifferences, calculate the most p	probable value and assess the			
	2. Able to perform basic calculations directly surveying and using computer programs [-K_U08,K_U10,K_U15]						
		ential directly and using CAD soft	ware [-K_U01,K_U07,K_U10	0,K_U15]			
	al competencies:						
		a designated task [-K_K03]					
2. Stuc	lents deepen their kno	owledge in the field of geodesy and	d verifies it in legal terms [-K	_K01,K_K02]			
		Assessment metho	ds of study outcomes				

Continuous assessment of student involvement and contribution to the work done by measuring assembly. Control and checking the daily progress of fieldwork and chamber measuring units. Evaluation of the implementation of single practical tasks. Final evaluation of the implementation of the sampling surveying. Way of checking individual skills and score sets a leading of group practice. **Course description** Implementation of the selected tasks: Task 1: Development of a situation and altitude maps in scale 1: 1000 or 1: 500. Task 2: Surveying the development project of the collector and the demarcation of its axis in the field. Task 7: Determination of longitudinal decline in the water table and the average water velocity. Task 8: Develop cross-section of the river valley. Basic bibliography: 1. Przewodnik do ćwiczeń terenowych z geodezji - praca zbiorowa, Wydawnictwo Politechniki Poznańskiej 2008 Additional bibliography: 1. Geodezja - M. Wójcik, I. Wyczałek, Wydawnictwo Politechniki Poznańskiej 1997 2. Geodezja dla kierunków niegeodezyjnych - Stefan Przewłocki PWN, Warszawa 2002 3. Geodezja. Podręcznik dla studiów inżynieryjno-bodowlanych - M.Odlanicki-Poczobutt PPWK, Warszawawa 1989 Result of average student's workload Time (working Activity hours) 1. Preparing to perform the task of surveying. 7 50 2. Performing surveying tasks. 3. Preparing to pass the surveying field exercises. 3

Student's workload				
Source of workload	hours	ECTS		
Total workload	60	2		
Contact hours	60	0		
Practical activities	60	0		