		STUDY MODULE DI	ESCRIPTION FORM	
	f the module/subject eying Measuren	nents Training		Code 1010101121010120121
Field of		Engineering First-cycle	Profile of study (general academic, practical) general academic	Year /Semester
	path/specialty		Subject offered in:	Course (compulsory, elective)
	P	-	Polish	obligatory
Cycle of	f study:		Form of study (full-time,part-time)	
First-cycle studies			full-time	
No. of h	ours			No. of credits
Lectur	e: - Classe	s: 90 Laboratory: -	Project/seminars:	- 2
Status o	of the course in the study	program (Basic, major, other)	(university-wide, from another fig	
		other	unive	rsity-wide
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)
Resp	onsible for subj	ect / lecturer:		
ema	ıż. Artur Plichta ail: artur.plichta@put.p 616652421	ooznan.pl		
	ulty of Civil and Enviro Piotrowo 5 60-965 Poz	onmental Engineering znań		
Prere	equisites in term	ns of knowledge, skills and	d social competencies:	
1	Knowledge	Knowledge of analytic geometry, trigonometry and knowledge of the basic methods in the field of mathematical analysis.		
		The knowledge gained in the cla the practice of surveying.	ssroom with surveying conduct	ed in the semester preceding
2	Skills	Ability to solve basic tasks in ma	• • •	•
2	ONING	Skills gained in the classroom wi of surveying.	th surveying conducted in the s	emester preceding the practice
3	Social competencies	Diligence and regularity in acquir	ing knowledge and skills.	
Assu		jectives of the course:		
Fieldwe This is fieldwo etc. de	ork with geodetic surv done by consulting a rk tasks include traini termines the height di n well let alone some	eying practices are known to deve nd implementation of practical action ng in mastering the techniques of r ifferences. Entire job including the of the tasks encountered in engine	ons clearly formulating surveyin neasurement, which is measure development is to develop the a ering practice.	g tasks. Linking the theme of ed repeatedly length, angles, ability to work in a team and
		mes and reference to the	educational results for	a field of study
	/ledge:			· · · ·
require	d accuracy [K_W03	p properly interpret the task of surv]	eying, choose the equipment ar	nd perform them with the
		ure angles, distances and height di	fferences, calculate the most pr	obable value and assess the
		<pre>culations directly surveying and using a subscript a surveying and using a subscript a subscript</pre>	ng computer programs [-K]	14]
		ential directly and using CAD software		- · · J
	al competencies	, ,		
1. Able	to work in a team on	a designated task [-K_K01,K_K	05]	
2. Stuc	lents deepen their kno	owledge in the field of geodesy and	d verifies it in legal terms [K_k	(03,K_K06]
		According to the set		
		Assessment method	ts 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.

Persons conducting exercises - employees of the Department of Surveying:

dr inż. Artur Plichta

Course description

Teaching methods: Observation, field measurement.

Implementation of the following tasks:

Task 1: Tacheometric measurement of the geodetic control network.

Task 2: Performing a situational-height measurement of a part of the site along with plotting a situation-height map in the scale of 1: 500.

Task 3: Measuring the height of the inaccessible point.

Task 4: Calculating the coordinates of point basing on the intersection of directions.

Task 5: Surveying the development of a construction project.

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

Activity	Time (working hours)	
1. Preparing to perform the task of surveying.		10
2. Performing surveying tasks.	75	
3. Preparing to pass the surveying field exercises.	5	
Student's wo	rkload	
Source of workload	hours	ECTS
Total workload	90	2
Contact hours	90	0
Practical activities	75	0