			SCRIPTION FORM			
Name of	the module/subject			Code		
Stati	stics in Manage	ment	1	010102121010101982		
Field of study			Profile of study (general academic, practical)	Year /Semester		
Civil	Engineering sec	cond-cykle studies	(brak)	1/2		
Elective path/specialty Costruction Engineering and Management			Subject offered in: Polish	Course (compulsory, elective) obligatory		
Cycle of	study:		Form of study (full-time,part-time)			
Second-cycle studies			full-ti	full-time		
No. of h	ours			No. of credits		
Lectur	2					
Status o	f the course in the study	program (Basic, major, other)	(university-wide, from another fie	ld)		
		(brak)	()	(brak)		
Education areas and fields of science and art				ECTS distribution (number and %)		
Responsible for subject / lecturer:						
mgr inż. Maria Kośmieja email: maria.kosmieja@put.poznan.pl tel. +48 (61) 665 2474 Faculty of Civil and Environmental Engineering ul. Piotrowo 5 60-965 Poznań						
Prere	quisites in term	s of knowledge, skills and	social competencies:			
1	Knowledge	The student has a basic knowledge in data analysis, interdependence of phenomena and statistical inference.				
		The student has an essential kno and the organization of construct	wledge from the management a ion processes.	and methods of the planning		
2	2 Skills The student is able to obtain inform		rmation from the literature.			
2	OKIIIS	The student has a skill of the self-education.				
3	Social competencies	The student is aware of a need for knowledge.	or constant updating both supple	ementing the construction		
Assu	mptions and obj	ectives of the course:				
Getting taken r	to know the basic m esults and practical co	ethods of statistical research. A ac omputer using.	quisition the ability of the resear	ch, analysis, interpretation of		
	Study outco	mes and reference to the	educational results for a	a field of study		
Know	vledge:					
1. The	student obtained the l	knowledge in making statistical res	earch - [K_W 01]			
2. The	student has a knowled	dge in appointing all statistical mea	sures for conducting a statistic	al analysis - [K_W 01]		
3. The student obtained the knowledge in interpretation of deduction and possibilities of using them in managing of construction - [K W 11, K W 07, K W 10]						
4. The student obtained knowledge in the possibility of computer using assisting at conducting K_W 08 statistical surveys - [K_W 10, K_W 11K_W11]						
Skills:						
1. The student got abilities of getting statistical data and carrying out an analysis of them - [K_U10]						
2. The student is able to introduce and to present statistical data with reference to the specificity of managing in the construction - [K_U 10]						
3. The student is able to use computer programme in a statistical analysis - [K_U 05]						
Social competencies:						
1. Stud	ent is responsible for	the reliability of achieved results	- [K_K01, K_K11, K_K02]			

Assessment methods of study outcomes

- written test:						
Scale of the evaluation in %:	Scale of the evaluation in %:					
excellent (A) 90% and up						
good (B) 85%-89%						
average (C) 75%-84%						
passing (D) 65%-74%						
near failed (E) 55%-64%						
failed (F) 0%-54%						
-prepare the report of a statistical analysis of the construction market						
Course description						
Review of techniques and methods of statistical research. Stages of the statistical research. Ranking of data and statistical measures for the structure analysis of the community. House styles of data. Testing and the verification of statistical hypotheses. Analysis of the interdependence of features. Analysis methods of dynamics of phenomena. Computer programme for a statistical analysis						
Basic bibliography:						
1. Aczel A Statystyka w zarządzaniu Wydawnictwo Naukowe PWN Warszawa 2000						
2. Bobrowski D., Maćkowiak-Łybacka K. Wybrane metody wnioskowania statystycznego Wydawnictwo Politechniki Poznańskiej Poznań 2004						
3. Lipiec-Zajchowska M. (red.) Wspomaganie procesów decyzyjnych, Statystyka Wydawnictwo C.H.Beck Warszawa 2003						
Additional bibliography:						
1. Snarska A. Statystyka. Ekonometria. Prognozowanie. Ćwiczenia z Excelem Wydawnictwo Placet Warszawa 2005						
2. Sobczyk M. Statystyka Wydawnictwo Naukowe PWN Warszawa 2007						
3. Szapiro T. (red) Decyzje menedżerskie z Excelem Polskie Wydawnictwo Ekonomiczne Warszawa 2000						
Result of average student's workload						
Activity	Time (working hours)					
Student's workload						
Source of workload	hours	ECTS				
Total workload	50	2				
Contact hours	35	1				
Practical activities	15	1				