		STUDY MODULE D	E3(
Name of the module/subject Construction Engineering and Management					Code 1010102231010110144		
Field of study				Profile of study (general academic, prac		Year /Semester	
Environmental Engineering Second-cycle				general acaden		2/3	
	path/specialty			Subject offered in:		Course (compulsory, elective)	
		ditioning and Air Protect		Polish		obligatory	
Cycle of study: Form of study (full-time,part-time) Second-cycle studies full-time						e	
No. of hours				No. of credits			
Lectur		: - Laboratory: -	F	Project/seminars:	1	3	
Status c	f the course in the study	program (Basic, major, other)		niversity-wide, from anot	her field)		
		other		ur	ivers	ity-wide	
Education areas and fields of science and art						ECTS distribution (number and %)	
dr in ema tel. t Fac	onsible for subje ż. Magdalena Hajdas: il: email: magdalena.h el. 61 665 21 91 ulty of Civil and Enviro rowo 5, 60-965 Pozna	z najdasz@put.poznan.pl nmental Engineering					
		s of knowledge, skills an	d so	cial competenci	es:		
1	Knowledge	Basic knowledge of building mat process	terials	s, technology and orga	nisatior	n of the construction	
2	Skills	Skills in obtaining information from skills in analysing engineering a	obtaining information from the literature on the subject analysing engineering activities				
3	Social competencies	Workteam skills Responsibility for the accuracy o	of the	results of one?s own	work		
Assu	-	ectives of the course:					
		of the investment process, basics ng network models and of site laye			ement i	n construction. Obtaining	
	•	mes and reference to the	edu	cational results	for a f	field of study	
1. Fam 2. Knov 3. Knov	wledge of the planning wledge of the construct	re, rights and obligations of the pa and construction organization ba tion documentation - [[K2_W08]	asics			nt process - [[K2_W08]]	
Skills							
constru	iction process - [K2_L	ructure of the investment process, J01, K2_U02, K2_U05]] nstruction schedule and network m					
alterna	tive solutions - [K2_L	J01, K2_U02, K2_U05, K2_U09, k elop a concept of the construction	K2_U	10, K2_U17]]			
the imp	elementation phase -	[[K2_U01, K2_U02, K2_U05, K2_			y nitu di		
	Il competencies:		netoo	hnical aspects and st	nomes (of engineering activities	
1. Stud [[K2_K	02]]	inificance and understands the no			omes (or engineering activities -	
2 04		rmine priorities for the specific tas					

Written exam: 60 minutes test, activity							
Presentation							
Rating scale:							
91-100 very good							
81-90 good plus							
71-80 good							
61-70 dostateczna plus sufficient plus							
51- 60 sufficient							
below 50 insufficient							
project: developing a concept of the construction site management							
Course description							
Investment process organization. Stages of the investment process. Participants of the investment process and the scope of their duties. Introduction to the theory of organization and management. Schedules and network planning in construction management. Construction management taking into account the construction processes dynamics and variable environmental conditions. Time-cost analysis. Organizational structure. Project delivery systems. Construction site management and construction site layout planning. Construction documentation.							
Basic bibliography:							
1. Jaworski K.M., Podstawy organizacji budowy, Wydawnictwo Naukowe PWN, Warszawa, 2004							
2. Robbins.S.P., De Cenzo D.A., Podstawy Zarządzania, Polskie Wydawnictwo Ekonomiczne, Warszawa, 2002							
3. Meszek W., Żywica R., Żywica A., Organizacja procesu inwestycyjnego. Politechnika Poznańska 2003							
Additional bibliography:							
1. Dyżewski A., Technologia i organizacja budowy, Arkady, Warszawa, 1990							
2 Werner W., Zarządzanie w procesie inwestycyjnym, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 2008							
Result of average student's workload							
Activity	Time (working hours)						
1. Participation in lectures		15					
2. Participation in exercises	15						
3. Preparation of the project	10						
4. Prepare to pass lectures	10						
Student's workload							
Source of workload	hours	ECTS					
Total workload	30	3					

20

10

2

1

Contact hours

Practical activities