		STUDY MODULE DE	SCRIPTION FORM			
Name of the module/subject					Code	
Cons	struction Engine	ering and Management		101	0135241010110144	
Field of a	study		Profile of study (general academic, practical)	\ \	Year /Semester	
Envi	romental Engine	ering Extramural Second-		,	2/4	
Elective path/specialty Water Suply, Water Soil Protection			Subject offered in: Polish		Course (compulsory, elective) obligatory	
Cycle of	study:		Form of study (full-time,part-time)	•		
Second-cycle studies			part-time			
No. of h	ours				No. of credits	
Lectur	e: 10 Classes	s: - Laboratory: -	Project/seminars:	10	3	
Status o	-	program (Basic, major, other)	(university-wide, from another f	- '		
		(brak)	(brak)			
Educatio	on areas and fields of scie	ence and art			ECTS distribution (number and %)	
Resp	onsible for subje	ect / lecturer:				
dr inż. Magdalena Hajdasz email: email: magdalena.hajdasz@put.poznan.pl tel. tel. 61 665 21 91						
Fac	ulty of Civil and Enviro rowo 5, 60-965 Pozna	a b				
Prere	quisites in term	s of knowledge, skills and	social competencies:			
1	Knowledge	Basic knowledge of building mate process	rials, technology and organisa	ation	of the construction	
2	Skills	Skills in obtaining information from the literature on the subject Skills in analysing engineering activities				
3	Social	Workteam skills				
3	competencies	Responsibility for the accuracy of	the results of one?s own work	k		
Assu	mptions and obj	ectives of the course:				
		of the investment process, basics on ng network models and of site layo		ent ir	o construction. Obtaining	
	Study outco	mes and reference to the e	educational results for	' a fi	ield of study	
Know	vledge:					
1. Fam	iliarity with the structu	re, rights and obligations of the par	ticipants involved in the invest	tmen	t process - [[K2_W08]]	
2. Knowledge of the planning and construction organization basics - [-[K2_W08, K2_W09]]						
		tion documentation - [[K2_W08]]				
Skills						
constru	ction process - [K2_L	ructure of the investment process, I J01, K2_U02, K2_U05]]				
alterna	 Student can develop a construction schedule and network model, estimate the resources in terms of time-cost, can provide alternative solutions - [K2_U01, K2_U02, K2_U05, K2_U09, K2_U10, K2_U17]] 					
		elop a concept of the construction [[K2_U01, K2_U02, K2_U05, K2_U		to ac	count the conditions during	
Socia	I competencies:					
1. Student is aware of the significance and understands the non-technical aspects and otcomes of engineering activities - [[K2_K02]]						
		rmine priorities for the specific task		-		
3. Stud	ent recognises the ne	ed for a systematic development of	f competences and engineering	ng kn	owledge - [[K2_K01]]	

Assessment methods of study outcomes

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 descript	tion			
Investment process organization. Stages of the investment process. Pa their duties. Introduction to the theory of organization and management. management. Construction management taking into account the constru- conditions. Time-cost analysis. Organizational structure. Project deliver construction site layout planning. Human resource management in const Project: The concept of organisation of complex construction tasks	. Schedules and network plar uction processes dynamics a y systems. Construction site	nning in construction nd variable environmenta		
Teaching methods:				
Lecture: informative lecture, problem lecture, lecture with multimedia presentation				
Project: project design, team work, discussion				
Basic bibliography:				
1. Jaworski K.M., Metodologia projektowania realizacji budowy, Wydaw	nictwo Naukowe PWN. Wars	zawa 2009		
2. Robbins.S.P., De Cenzo D.A., Podstawy Zarządzania, Polskie Wyda				
3. Meszek W., Żywica R., Żywica A., Organizacja procesu inwestycyjne				
4. Rak A., Budowlane przedsięwzięcie inwestycyjne, PWN, Warszawa 2	-			
Additional bibliography:				
1. Dyżewski A., Technologia i organizacja budowy, Arkady, Warszawa,	1990			
 Werner W., Zarządzanie w procesie inwestycyjnym, Oficyna Wydawr 		iei Warszawa 2008		
 Baton D., Zarządzanie zasobami ludzkimi, Wydawnictwo Poltex, War 		ioj, Walozawa 2000		
 Hajdasz M., Flexible management of repetitive construction processes with Applications, 2014, s. 962-973 		stem, Expert Systems		
Result of average studen	it'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 workl	oad			
Source of workload	hours	ECTS		
Total workload	75	3		
Contact hours	40	2		
		1		