		STUDY MODULE D	ES		M	
	f the module/subject	aring and Management				
Field of		ering and Management		Profile of study	10	10102231010110144 Year /Semester
Environmental Engineering Second-cycle				(general academic, pract general academic		2/3
	path/specialty	ditioning and Air Protect	ion	Subject offered in: Polish		Course (compulsory, elective) obligatory
Cycle of		and An Trolect	1	m of study (full-time,part-ti	me)	obligatory
-	Second-cy	cle studies	full-time			
No. of h	ours		1			No. of credits
Lectur	e: 15 Classes	: - Laboratory: -		Project/seminars:	15	2
Status o	-	program (Basic, major, other)	(university-wide, from anot		
Educati		other		ur	livers	ity-wide
Education areas and fields of science and art						ECTS distribution (number and %)
technical sciences						2 100%
Technical sciences						2 100%
Resp	onsible for subje	ect / lecturer:				
-	iż. Magdalena Hajdas					
		z najdasz@put.poznan.pl				
tel.	el. 61 665 21 91					
	ulty of Civil and Enviro rowo 5, 60-965 Pozna					
	,		-l -			
Prere	quisites in term	s of knowledge, skills an	as	scial competence	es:	
1	Knowledge	Basic knowledge of building mat process	terial	s, technology and orga	inisatior	n of the construction
2	Skills	Skills in obtaining information fr Skills in analysing engineering a			ject	
3	Social	Workteam skills				
Ŭ	competencies	Responsibility for the accuracy of	of the	e results of one?s own	work	
Assu	mptions and obj	ectives of the course:				
		of the investment process, basics ng network models and of site lay			ement i	n construction. Obtaining
	Study outco	mes and reference to the	ed	ucational results	for a f	ield of study
Know	/ledge:					
	•	re, rights and obligations of the pa				nt process - [[K2_W08]]
	0 1 0	and construction organization ba		- [-[K2_W08, K2_W09	9]]	
	, v	tion documentation - [[K2_W08]]			
Skills			lue e			
		ructure of the investment process J01, K2_U02, K2_U05]]	, kho	ws rights and obligation	ns of the	e participants involved in the
alterna	tive solutions - [K2_L	nstruction schedule and network n J01, K2_U02, K2_U05, K2_U09, I	K2_L	J10, K2_U17]]		
3. Stuc the imp	lent knows how to dev	elop a concept of the constructior [[K2_U01, K2_U02, K2_U05, K2_	n site U10	management by taking , K2_U17]]	g into a	ccount the conditions during
Socia	I competencies:					
1. Stuc [[K2_K		nificance and understands the no	on-te	chnical aspects and oto	comes c	of engineering activities -
	,	rmine priorities for the specific tas				
3. Stuc	lent recognises the ne	ed for a systematic development	of co	mpetences and engine	ering ki	nowledge - [[K2_K01]]

Assessment methods of st	udy 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	ion	
Investment process organization. Stages of the investment process. Part 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 delivery construction site layout planning. Human resource management in const	Schedules and network pla uction processes dynamics a y systems. Construction site	nning in construction and variable environmenta
Project: The concept of organisation of complex construction tasks		
Teaching methods:		
Lecture: informative lecture, problem lecture, lecture with multimedia pre	esentation	
Project: project design, team work, discussion		
Basic bibliography:		
1. Jaworski K.M., Metodologia projektowania realizacji budowy, Wydawr	nictwo Naukowe PWN. Wars	szawa 2009
2. Robbins.S.P., De Cenzo D.A., Podstawy Zarządzania, Polskie Wydav		
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,	1000	
 Dyzewski A., Technologia Forganizacja budowy, Arkady, Warszawa, Werner W., Zarządzanie w procesie inwestycyjnym, Oficyna Wydawn 		vici Warszawa 2008
		(iej, waiszawa 2000
3. Eaton D., Zarządzanie zasobami ludzkimi, Wydawnictwo Poltex, Wars		istom Export Systems
 Hajdasz M., Flexible management of repetitive construction processes with Applications, 2014, s. 962-973 	s by an intelligent support s	vstem, Expert Systems
	t's workload	
Result of average studen		
Result of average studen Activity		Time (working hours)
Activity		
Activity 1. Participation in lectures		hours)
Activity 1. Participation in lectures 2. Participation in exercises		hours)
Activity 1. Participation in lectures 2. Participation in exercises 3. Preparation of the project		hours)
	oad	hours)
Activity 1. Participation in lectures 2. Participation in exercises 3. Preparation of the project 4. Prepare to pass lectures	oad	hours) 15 15 10
Activity 1. Participation in lectures 2. Participation in exercises 3. Preparation of the project 4. Prepare to pass lectures Student's worklo		hours) 15 15 10 10
Activity 1. Participation in lectures 2. Participation in exercises 3. Preparation of the project 4. Prepare to pass lectures Student's worklo	hours	hours) 15 15 10 10 ECTS