# **Faculty of Civil and Environmental Engineering**

		STUDY MODULE D	ESC	CRIPTION FORM			
Name of the module/subject  Modern methods and tools in construction ma				gement	Cod <b>10</b> 1	de 10104191010115399	
Field of	study Engineering First	st-cycle Studies		Profile of study (general academic, practical) (brak)	)	Year /Semester 5 / 9	
	path/specialty	-		Subject offered in:  Polish		Course (compulsory, elective)  elective	
Cycle o	f study:		Forn	n of study (full-time,part-time)			
First-cycle studies				part-time			
No. of h						No. of credits	
Lectur	0.0000	1		Project/seminars:		2	
Status		program (Basic, major, other) (brak)	((	university-wide, from another f	tield) (bra		
Education	on areas and fields of sci	· /			(	ECTS distribution (number and %)	
•	onsible for subje	ect / lecturer:					
ema tel. Civi	nż. Marcin Gajzler hil: marcin.gajzler@pu +48 61 665 2454 I and Environmental E rowo 5, 60-965 Pozna	ngineering					
	-	s of knowledge, skills an	d sc	ocial competencies:	1		
1	Knowledge	He knows fundamentals of the organization of construction projects, basic structures and mechanisms associated with functioning of a building enterprise					
2	Skills	He is able to use tools and meth	ethods in planning of the project organization				
3	Social competencies	He is conscious of the need of be the problem solving compound	e is conscious of the need of broadening his knowledge to the purpose of the possibility of ne problem solving compound				
Assu	mptions and obj	ectives of the course:					
using t	hem in the accumulati	d tools in managing the constructi on of the useful knowledge in ma s well as making of the own work:	nagin	g the construction project.			
	Study outco	mes and reference to the	edu	icational results for	a f	ield of study	
Knov	vledge:						
	nows applications of n 4; K_W17]	nodern techniques and technolog	jies as	ssisting in managing const	truct	ion projects -	
		lysis of quality and quantitative date		•	161		
Skills		managing in the concluded in [i		10, 1 <u>_</u> 1111, 1 <u>_</u> 1110, 1 <u>_</u> 11	.01		
		ge of available computer program	ns ass	isting the management -	ſK	U121	
2. he is		on of sources of knowledge, to ma					
3. he is		ge of quality and quantitative meth	hods	of the data analysis for the	e sim	nplest case -	
Socia	al competencies:						
	s able to think and to a action - [K_K08]	ct in the comprehensive way takir	ng int	o account the complexity	of ex	ktrinsic factors influencing th	
		associated with performed engine	eering	activity correctly - [K_K0	)2, K	_K04]	
3. he is	s aware of a need to ra	aise own engineering competence	e, in it	in the technology of inforr	matio	on - [K_K03]	

# Assessment methods of study outcomes

## Faculty of Civil and Environmental Engineering

-lecture: 90 minute's test, in frames which the student is describing 5 detailed issues associated with the scope of the object and independent drawing up the case study of the object associated with the scope

### **Course description**

Specificity of the construction in the aspect of the management. Elements of the theory of the decision support. Data and the knowledge. Sources of knowledge in the construction. Manners of the knowledge acquisition and her formalization. Data analysis quantitative but quality. Using the artificial intelligence in the data analysis. Review of computer systems assisting the management.

## Basic bibliography:

- 1. Zieliński J.: Inteligentne systemy w zarządzaniu. PWN, Warszawa, 2000
- 2. Kapliński O.(red.): Metody i modele badań w inżynierii przedsięwzięć budowlanych. PAN KILiW IPPT, Warszawa, 2007

#### Additional bibliography:

- 1. Januszewski A.: Funkcjonalność informatycznych systemów zarządzania. PWN, Warszawa, 2008
- 2. Hand D., Mannila H., Smyth P: Eksploracja danych. WNT, Warszawa, 2005

### Result of average student's workload

Activity	Time (working hours)
1. Participation in lectures	20
2. Homework	15
3. Preparation to the test	5

#### Student's workload

Source of workload	hours	ECTS
Total workload	50	2
Contact hours	20	1
Practical activities	0	0