			ESCRIPTION FORM			
Name of	the module/subject			Code		
Information Technology in Construction				1010112111010105653		
Field of study			Profile of study (general academic, practical)	Year /Semester		
Civil	Engineering		(brak)	1/1		
Elective path/specialty			Subject offered in:	Course (compulsory, elective) obligatory		
Cycle of study:			Form of study (full-time,part-time)			
Second-cycle studies			full-time			
No. of h	ours			No. of credits		
Lectur	e: 30 Classes	s: - Laboratory: 15	Project/seminars:	- 3		
Status of the course in the study program (Basic, major, other) ((university-wide, from another fi	eld)		
		(brak)		(brak)		
Educatio	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
Resp	onsible for subje	ect / lecturer:	Responsible for subject	t / lecturer:		
Prof	. dr hab. inż. Wojciecł	n Cellary	Dr hab. inż. Willy Picard	Dr hab. inż. Willy Picard		
ema tol	ill: cellary@kti.ue.pozr	nan.p	email: picard@kti.ue.poznan.pl			
Univ	versvtet Ekonomiczny	w Poznaniu	Uniwersytet Ekonomiczny w Poznaniu			
Univ	versytet Ekonomiczny	w Poznaniu	Uniwersytet Ekonomiczny w Poznaniu			
Prere	quisites in term	s of knowledge, skills and	d social competencies:			
1	Knowledge	General technical knowledge about information systems and the Internet. General knowledge about management, especially in the construction sector.				
2	Skills	Basic skills to use computers and the Internet				
3	Social competencies	Team cooperation on projects. Ability to present in a structured manner to a team of collaborators a set of tasks to perform and the associated obtained results.				
Assu	mptions and obj	ectives of the course:				
Knowle suppor	edge about choose str ting the construction s	ategies to manage organizations a sector	and their environment using info	rmation technology aiming at		
	Study outco	mes and reference to the	educational results for	a field of study		
Know	/ledge:					
1. Knows the characteristics of e-business and e-economy [K_W19]						
2. Knov	ws the characteristics	of the information society [K_W	11]			
3. Understands the influence of information technologies on the structure of private organizations and public administration [-K_W11]						
4. Knov	ws the potential suppo	ort of information technologies for c	organization operations [-K_W	/11]		
5. Knows the global trends in technology and the economy and understands the influence of IT on the construction sector [-K_W11]						
Skills:						
1. Can describe the potential use and importance of Internet-based solutions aiming at improving the realization of investments in the construction sector [-K_U05]						
2. Can apply appropriate e-business models in given cases [-K_U12]						
3. Can	apply virtual organiza	tion models in business and admir	nistrative projects [K_U13]			
4. Can	apply appropriate IT t	ools to effectively plan a project ar	nd organize collaboration - [-K_	_U12]		
Social competencies:						

1. Is aware of dynamic phenomena occurring in the electronic economy and of the unceasing need for the acquisition of new competences related with $IT - [-K_K07]$

2. Can presented the role of the Internet and IT as a factor fostering the development of markets. - [-K_K07]

3. Can describe and evaluate strategies aiming at improving productiveness, efficiency, innovation and profitability as well as strategies to form virtual organizations. - [-K_K07]

4. Can explain the concept of IT-based management. - [-K_K07]

5. Can analyze and present novel information technologies and indicate their potential application to the construction sector. -[-K_K07]

Assessment methods of study outcomes

Open question written exam

Team project ended by a presentation

Open discussions

Course description

- 1. Innovativeness
- 2. Privacy
- 3. Cloud computing
- 4. Knowledge based economy
- 5. Virtual organizations
- 6. Entrepreneurship
- 7. Information Management
- 8. Version Control Systems
- 9. Project Management Systems
- 10. Sourcing and Electronic Auctions
- 11. Contract-Oriented Negotiation Support Systems
- 12. Communication-Oriented Negotiation Support Systems
- 13. Big Data

Basic bibliography:

1. Teaching materials provided on the course space on the Moodle platform of the Poznań University of Economics

Additional bibliography:

1. Publikacje UNDESA (United Nations Department of Economic and Social Affairs Publications) http://www.un.org/esa/desa/

2. Publikacje UNDP (Program Narodów Zjednoczonych ds. Rozwoju), http://web.undp.org/publications/

3. Czasopismo World Economics. The Journal of Current Economic Analysis and Policy, http://www.world-economics-journal.com/

4. Opracowania statystyczne dostępne na stronach Banku Światowego, http://data.worldbank.org/

5. Publikacje i opracowania statystyczne Organizacji Współpracy Gospodarczej i Rozwoju (OECD) związane z tematyką elektronicznej gospodarki i technologii informacyjnych, http://www.oecd-ilibrary.org

Result of average student's workload

Activity	Time (working hours)	
1. 1. Classes participation	45	
2. 2. Works preparation	30	
3. 3. Computer work	15	
4. 4. Works finishing	30	
Student's wo	orkload	
Source of workload	hours	ECTS
Total workload	100	3
Contact hours	50	2
Practical activities	30	1