		STUDY MODULE D	FSC					
Name o	f the module/subject		Code					
Information Technology in Construction					10 [·]	10112111010105653		
Field of study				Profile of study (general academic, practical))	Year /Semester		
Civil Engineering				general academic		1/1		
Elective path/specialty				Subject offered in: Polish		Course (compulsory, elective) obligatory		
Cycle of study: For				rm of study (full-time,part-time)				
Second-cycle studies				full-time				
No. of h	ours				No. of credits			
Lectur	e: 30 Classe	s: - Laboratory: 15	Project/seminars:	-	4			
Status o	of the course in the study	(university-wide, from another field)						
		other		university-wide				
Education areas and fields of science and art						ECTS distribution (number and %)		
Responsible for subject / lecturer: Responsible for subject / lecturer:								
Prof	f. dr hab. inż. Wojciecl	h Cellary	D	Dr hab. inż. Willy Picard				
email: cellary@kti.ue.poznan.p				email: picard@kti.ue.poznan.pl				
	48 61 8569330 wersytet Ekonomiczny	w Poznaniu		tel. 48 61 8569330 Uniwersytet Ekonomiczny w Poznaniu				
	wersytet Ekonomiczny			Uniwersytet Ekonomiczny w Poznaniu				
Prere	equisites in term	ns of knowledge, skills an	d so	cial 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.						
Assumptions and objectives of the course:								
	edge about choose str ting the construction s	rategies to manage organizations a sector	and th	neir environment using inf	orma	ation technology aiming at		
		mes and reference to the	edu	cational results for	' a f	ield of study		
Knov	vledge:							
1. Kno	ws the characteristics	of e-business and e-economy [I	K_W1	19]				
		of the information society [K_W	-					
3. Understands the influence of information technologies on the structure of private organizations and public administration [-K_W11]								
 Knows the potential support of information technologies for organization operations [-K_W11] 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]								
 Can apply appropriate e-business models in given cases [-K_U12] Can apply virtual organization models in business and administrative projects [K_U13] 								
4. Can apply appropriate IT tools to effectively plan a project and organize collaboration - [-K_U12]								
Social competencies:								
oodiai 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	rkload	
Source of workload	hours	ECTS
Total workload	100	4
Contact hours	50	2
Practical activities	30	1