		STUDY MODULE D	ESCRIPTION FORM			
	f the module/subject			Code		
building systems technology				Intervention Intervention Profile of study (general academic, practical) Year /Semester (brak) 4 / 7		
Field of study Civil Engineering First-cycle Studies						
	path/specialty		Subject offered in:	Course (compulsory, elective)		
-			Polish	elective		
Cycle of	study:		Form of study (full-time,part-time)			
First-cycle studies			full-time			
No. of hours				No. of credits		
Lectur	e: 20 Classes	s: - Laboratory: -	Project/seminars:	3		
Status c	-	program (Basic, major, other)	(university-wide, from another field)			
		(brak)	(br	ak)		
Educatio	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
techr	ical sciences			3 100%		
	Technical scie	ences		3 100%		
Resp	onsible for subje	ect / lecturer:	Responsible for subject /	lecturer:		
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	rowo5, Poznań	nodowiska	Piotrowo5, Poznań			
Prere	quisites in term	s of knowledge, skills an	d social competencies:			
1	Knowledge	The student has a basic knowled	nowledge of technology and building materials			
2	Skills	Able to obtain information from the literature and other sources. It can combine the information obtained.				
3	Social competencies	The student should be aware of the consequences of their decisions. Understands the need for learning throughout their working lives. He understands the need for cooperation and teamwork.				
Assu	mptions and obj	ectives of the course:				
-The aim of the course is to acquaint students with the technology implementation of housing facilities, utilities and industrial construction site. The building, technology implementation, method of construction objects, technological systems. Technologies and systems for precast concrete construction.						
	* *	•	educational results for a	field of study		
Know	/ledge:			-		
		sign and analysis of selected obje and demolition of buildings - [K_W	ects of general construction and ha	s expertise in the		
	wledge of technology nents - [K_W12, T1F		the rules of the industrial productio	n of building materials and		
	ws the most commonly 4 T1P_W02 T1P_W05		ic elements of manufacturing them	-		
Skills	5					
acquisi the info	tion software to suppo	ort the work of the designer and or make their interpretation, as well a	d other sources to search for inform ganizer of the construction works. Is to draw conclusions and formula	Student is able to integrate		
2. Student Knows the rules of production and use, and can make the selection of building materials to the end to design technological solutions - [K_U19 T1P_U01 T1P_U13]						
	I competencies:					
		need of team effort in solving theored for continuing to increase the d	retical and practical problems - [epth and breadth of their knowledg	K_K01 T1P_K03 T1P_K04] ge - [K_K03 T1P_K01]		

Assessment methods of study o	utcomes			
-Final test, scale of marks [%]				
91-100, very good (A)				
81-90, good+ (B)				
71-80, good (C)				
61-70, satisfactory+ (D)				
51-60, satisfactory (E)				
less than 50, fail (F)				
Continuous assessment of progress made by students, their activity in gaining I	knowledge/skills			
Course description				
Evolution of construction technologies in the years 1945 - 2014				
Overview and characteristics of the forming equipment for concrete construction	n technology monolith	nic		
Climatic conditions of the execution of works of concrete at a construction site				
Support of construction projects				
Prefabrication. Prefabrication plants.				
Prefabrication systems: Szczecin, Rataje, Winogrady.				
Technological defects prefabricated buildings and repair methods.				
Modernization of prefabricated buildings.				
steel and wooden structures.				
Building insulation systems.				
Basic bibliography:				
1. ? Orłowski Z.: Podstawy technologii betonowego budownictwa monoli	tycznego. PWN, War	szawa, 2013, s.336		
2. ? Korona L.: Innowacyjne technologie deskowań traconych. Budownict	wo i Inżynieria Środo	wiska. 2/2011, s. 307-31		
 Jasiczak J.: Technologie budowlane II. Poznań, 2003, s. 200. Witryn Budowlanych, Poznań 	a Alma Mater. Instytu	ıt Konstrukcji		
4. ? Neville AM.: Właściwości betonu. Polski Cement, Kraków 2013				
5. ? Biliński Tadeusz, Gaczek Wojciech - Budownictwo systemowe, PP Po				
 Starosolski Włodzimierz - Połączenia w żelbetowych prefabrykowanych kons Śląskiej, Gliwice 2006 	trukcjach szkieletowy	/ch. Wyd. Politechniki		
Additional bibliography:				
1. ? PN-EN 1168 Prefabrykaty z betonu - sprężone płyty kanałowe				
2. ? PN-EN 13747 Prefabrykaty z betonu - elementy stropowe płytowe				
3. ? Sieczkowski Józef, Nejman Tadeusz - Ustroje budowlane, Warszawa	2002, rozdział dot. F	Prefabrykacji		
4. ? ?Żenczykowski Władysław ? Budownictwo ogólne, tom 2/2				
5. ? Katalogi systemowe				
Result of average student's wo	orkload			
Activity	Time (working hours)			
1. lecture	20			
2. studying the source materials (literature, internet etc.)	30			
Student's workload				
Source of workload	hours	ECTS		
Total workload	50	3		
Contact hours	20	1		
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Practical activities

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