		STUDY MODULE DE	ESCRIPTION FORM	
	f the module/subject	uctural Design		Code 1010101221010130660
Field of	-	U	Profile of study (general academic, practical)	Year /Semester
Envi	ronmental Engir	neering First-cycle Studies	s (brak)	1/2
Elective	path/specialty	-	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle o	f study:		Form of study (full-time,part-time)	
First-cycle studies			full-time	
No. of h	ours			No. of credits
Lectu	re: 15 Classes	s: - Laboratory: 30	Project/seminars:	- 4
Status o	of the course in the study	program (Basic, major, other)	(university-wide, from another f	ield)
		(brak)		(brak)
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)
techr	nical sciences			4 100%
	Technical scie	ences		4 100%
Resp	onsible for subj	ect / lecturer:		
ema	nż. Fabian Cybichowsl ail: fabian.cybichowski 61 665 24 14			
Wyo	dział Budownictwa i In Piotrowo 5 60-965 Poz	-		
Prere	equisites in term	s of knowledge, skills and	social competencies:	
1	Knowledge	Basic knowledge about informati	on technology, according to co	llege education.
2	Skills	Ability to work with personal com	puter, including basic office so	ftware suite.
3	Social competencies	Awareness of the need to continu	ually update and supplement o	ne's knowledge and skills.
Assu	mptions and obj	ectives of the course:		
To acc engine		e methods of computer-aided desig	gn, with particular emphasis on	it's application in environmenta
	Study outco	mes and reference to the	educational results for	a field of study
Knov	vledge:			
	-	e of a spreadsheet in solving engin	eering problems - [K W07]	
		ar software for engineering calculat		ring - [K_W07]
		al characteristics and use of softwa	=	
4. Stud	lent knows general ch	aracteristics and use of Building In	formation Modeling software -	[K_W07]
Skills	5:			
1. Stuc	lent is able to exchan	ge technical information in electron	ic form - [K_U02]	
	student can choose tł 7, K_U09]	ne application that corresponds to t	he task in the field of environm	nental engineering -
		computer-aided design software in	the field of environmental en	gineering - [K_U15]
Socia	al competencies:			
1. The	student is aware of th	e value of information and knowled	lge - [K_K07]	
		Assessment method	Is of study outcomes	

Basic method for checking the effects of education: (lecture) multiple choice test performed on the last class, (laboratory exercises) ability test performed on the last class.

Course desci	iption	
Basic course on the software and computer methods used in engine engineering software for designing water distribution, heating and ve Building Information Modeling.		
Basic bibliography:		
1. An overview of currently available software (www).		
Additional bibliography:		
Result of average stud	lent's workload	
Activity		Time (working hours)
1. Lectures		15
2. Laboratory classes	30	
3. Preparation for laboratory classes	10	
4. Preparation for final tests	5	
Student's wo	rkload	
Source of workload	hours	ECTS
Total workload	60	4
Contact hours	39	4
Practical activities	30	2