		STUDY MODULE D	ESCRIPTION FORM	
	f the module/subject puter Aided Stru	ictural Design		Code 1010101161010110660
Field of Civil	study Engineering First	st-cycle Studies	Profile of study (general academic, practical) (brak)	Year /Semester 3 / 6
Elective	path/specialty	-	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of	f study:		Form of study (full-time,part-time)	
	First-cyc	le studies	full-time	
No. of h	ours	No. of credits		
Lecture: - Classes: - Laboratory: 15 Project/seminars:				- 1
Status o	•	program (Basic, major, other)	(university-wide, from another f	,
		(brak)		(brak)
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)
techr	nical sciences	1 100%		
	Technical scie	1 100%		
ema tel. Wyd ul. F	nž. Wojciech Sumelka ili: wojciech.sumelka@ (0-48) 61 647-5923 dział Budownictwa i In: Piotrowo 5 60-965 Poz equisites in term	żynierii Środowiska	d social competencies:	
1	Knowledge	Student has knowledge of technical mechanics and strength of materials, modeling materials and rules of the general principles of the theory of construction. Student knows shaping the design and analysis of rod systems in the field of statics, dynamics and stability. Knows the principles of designing and dimensioning of building construction elements: metal, reinforced concrete.		
2	Skills	Student can evaluate and make a statement of loads acting on buildings. Can design selected elements and simple structures made on metal or reinforced concrete. Can perform dynamic analysis of simple rod systems for the evaluation of resonance states. He can perform a linear stability analysis and can evaluate the critical states for rod systems.		
3	Social competencies	Student is able to work independently and collaborate with team on a designated task. He is responsible for the accuracy of the results of their work and their interpretation. Student complements and extends knowledge of modern techniques, processes and technology. Comply with the rules of ethics.		
Assu	mptions and obj	ectives of the course:		
applica		cquaint the student with the practi e ability to check a number of alte		
	Study outco	mes and reference to the	educational results for	a field of study
Knov	vledge:			
rules	[K_W11]	omputer programs to support the o	calculation and design of struct	tures and the organization works
Skills			ad for computer and to be of the	atruatura IV 1001
	-	define computational models use select the tool (analytical or num)		
and pla	anning of works, get th	e results and carry out their verific		
	al competencies:			
		k independently and collaborate a	-	
		for the accuracy of the results of les of ethics [K_K10]	their work and their interpretati	υπ [K_KUZ]
J. 1110				

Assessment methods of	study outcomes	
The basis of credit is the defense of the project performed in the clas	sroom and at home.	
Course descri	iption	
L1 Choice of the student's existing frame structure for later analysis. design and meeting loads.	Selection of alternative static pa	atterns for the selected
L 2 Static analysis of the system. Adoption of the optimal static scher	me and design of the structure (the RM-Win)
L 3 Static analysis and design of structures (the Builder)		
L 4 Static analysis and design of structures (program Soldis)		
L 5 Analysis of vibrations and stability of the initial (the Soldis)		
L 6 Optimization of the structure (the Soldis)		
L 7 Comparison of results - Conclusions - defense project.		
Basic bibliography:		
Additional bibliography: Result of average stude	ent's workload	
Activity	Time (working hours)	
1. Participation in laboratory		15
2. Homework	10	
Student's wor	kload	
Source of workload	hours	ECTS
Total workload		
Total workload	25	1
Contact hours	25 15	1