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Assessment methods of s	study outcomes	
Lecture: Exam at the end of the semester:		
- Sat. 1 knowledge test (4 questions)		
- Sat. 2 test of skills (4 jobs).		
Method of evaluation: each answer/solution evaluated point system wi	th a scale of 0-3 points.	
Duration of test: 60 minutes.		
Tutorials:		
- 2 colloquia written during the semester (7 and 14 weeks),		
- permanent evaluation for each course.		
Course descrip	otion	
1. Elements of logic. Elements of set theory, the set of real numbers. T	he scalar function.	
2. Elementary functions (formulas, graphs, properties).		
3. The limit of a function and applications.		
4. Differential calculus of one variable function with selected applicatio	ns in engineering practice. Ta	ylor and Maclaurin series
5. Integral calculus of one variable function with selected applications	n engineering practice.	
Basic bibliography:		
1. W. Żakowski, Matematyka, T.1 i T.2, WNT, Warszawa 2003.		
2. M. Gewert, Z. Skoczylas, Analiza matematyczna 1 (Definicje, twier 2011.	dzenia, wzory), Oficyna Wyda	awnicza GiS, Wrocław
3. W. Krysicki, L. Włodarski, Analiza matematyczna w zadaniach, T.1	T.2, PWN, Warszawa 2011.	
Additional bibliography:		
1. W. Stankiewicz, J. Wojtowicz, Zadania z matematyki dla wyższych	uczelni technicznych, T.1, T.2,	PWN, Warszawa 2003.
2. I. Foltyńska, Z. Ratajczak, Z. Szafrański, Matematyka dla studentów Politechniki Poznańskiej, Poznań 2004.		
Result of average stude	nt's workload	
Activity		Time (working hours)
1. lecture		30
2. preparation for tutorials		20
3. tutorials	30	
4. credit preparation	16	
5. credit		4
Student's work	load	
Source of workload	hours	ECTS
Total workload	100	5
Contact hours	60	3
Practical activities	0	0