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STUDY MODULE DESCRIPTION FORM						
	f the module/subject Oma seminar		Code 1010325331010320081			
Field of study			Profile of study	Year /Semester		
Electrical Engineering			(general academic, practical) (brak)	2/3		
Elective path/specialty Electrical and Computer Systems in			Subject offered in: Polish	Course (compulsory, elective) obligatory		
Cycle of study:			Form of study (full-time,part-time)			
Second-cycle studies			part-time			
No. of h	ours			No. of credits		
Lectur	e: - Classes	s: - Laboratory: -	Project/seminars:	9 5		
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			5 100%		
	Technical scie	ences		5 100%		
Resp	onsible for subje	ect / lecturer:				
Prof	. dr hab. inż. Ryszard	Nawrowski				
ema	ail: ryszard.nawrowski					
tel. 616652788 Elektryczny						
	Piotrowo 3A, 60-965 P	oznań				
Prere	auisites in term	s of knowledge, skills an	d social competencies:			
1	Knowledge	Basic information of subjects taught for second degree of full-time studies, majoring in electrical engineering and specialty of electric an information systems in industry and vehicles.				
2	Skills	Measurements and calculations of basic electrical and non-electrical quantities, writing simple computer programs, designing and construction of simple circuits or electrical installations and effective self-study in chosen specialty and academic field.				
3	Social competencies	Verbal communication and team skills.	work, awareness of the need	to expand their knowledge and		
Assumptions and objectives of the course:						
	standing the issues rel	ated to the collection of necessary	v materials for research and the	e principles of preparation of		
	Study outco	mes and reference to the	educational results for	a field of study		
Knov	vledge:					
2. stud	-	e on developments and achievements and achi				
Skills						
		formation from various sources, c nd justify opinions - [K_U01+]	an make their interpretation an	d evaluation, as well as draw		
	ent is able to prepare tation - [K_U04++]	and give a presentation about the	project or research tasks and I	lead a discussion about the		
3. students knows English sufficiently to communicate in professional matters, reading comprehension, as well as prepare and deliver a short presentation - [K_U05+]						
non-te	chnical aspects (incluc	lving the tasks posed to him - to i ling economic aspects and legal a	spects - [K_U15++, K_U16+]	-		
5. student is able to assess the suitability and ability to exploit new technical and technological achievements for the design and manufacture of electrical equipment and systems - [K_U19+]						
	al competencies:					
1. student is able to think and act in a creative and enterprising - [K_K01+]						

## Assessment methods of study outcomes

Seminar:

- assess the knowledge and skills needed to carry out the thesis,
- an assessment based on the presentation of the results of realized works,
- evaluate the effectiveness of the application of knowledge in problem solving,

- continuous evaluation for each class: student activities, increase their knowledge and skills.

## **Course description**

The initial term master diploma theses topics. Determine the objectives of the Master's diploma theses topics. Discussion of selected issues of the diploma theses. Discussion of the principles of editing and formatting of the Master thesis. Discussion of the principles related with the preparation of a bibliography, formatting, drawings, diagrams, photographs and tables.

#### Basic bibliography:

1. Bibliography of Engineer?s thesis range recommended by the promoter.

#### Additional bibliography:

1. Bibliography of Engineer?s thesis searched by student.

# Result of average student's workload

Activity	Time (working hours)	
1. participation in seminar classes		9
2. participation in the consultation	20	
3. preparation for seminar classes	3	
4. determine the tasks within the scope of Master thesis	11	
5. prepare a presentation on the progress made in the implementati	10	
6. literature search for Master thesis	10	
7. supply of technical facilities (equipment, software, components for	15	
8. the construction of the test stand	45	
Student's wo	rkload	
Source of workload	hours	ECTS
Total workload	123	5
Contact hours	40	2
Practical activities	94	3