		STUDY MODULE D	ESC				
Name of the module/subject Diploma seminar				Code			
Field of study Mathematics in Technology				Profile of study (general academic, practic general academi		Year /Semester 4/ 7	
Elective	Elective path/specialty			Subject offered in:		Course (compulsory, elective)	
Elect	ronic circuits an	d measurement techniqu		Polish		obligatory	
Cycle of	f study:		Form	of study (full-time,part-time)			
First-cycle studies (Polish Qualifications Framework level six)			full-time				
No. of h	ours					No. of credits	
Lectur	re: - Classes	s: - Laboratory: -	Project/seminars: 30 15				
Status o	of the course in the study	program (Basic, major, other) other	(university-wide, from another field) university wide				
Educati	on areas and fields of sci	ence and art	ECTS distribution (number and %)				
Tech	nical sciences		15 100%				
	Technical scie	ences				15 100%	
Resp	Responsible for subject / lecturer:			Responsible for subject / lecturer:			
dr inż. Zbigniew Krawiecki email: zbigniew.krawiecki@put.poznan.pl tel. 61 665 2546 Wydział Elektryczny ul. Piotrowo 3A, 60-965 Poznań			Prof. dr hab. Ryszard Płuciennik email: ryszard.pluciennik@put.poznan.pl tel. 61 665 2320 Faculty of Electrical Engineering ul. Piotrowo 3A 60-965 Poznań				
Prere	equisites in term Knowledge	Basic knowledge, skills an K_W04(P6S_WG), K_W07(P6S	of the speciality modules. [K_W01(P6S_WG),				
2	Skills		of basic electrical and nonelectrical quantities and realize the ea related to the chosen field and speciality of studies. _UU)]				
3	Social competencies	Ability to work as a team and aw skills. [K_K02(P6S_KK)]	wareness of the necessity of broadening of the knowledge and				
Assu	mptions and obj	ectives of the course:					
	edge of the selected p ned diploma thesis pr	roblems related to gathering of the eparation	e indisp	ensable materials and k	now	edge of principles	
	Study outco	mes and reference to the	educ	ational results for	a fi	eld of study	
Knov	vledge:						
 Knowledge of mathematical methods and tools in technical sciences application [K_W01(P6S_WG)] 							
2. Kno	wledge of technical sc	iences, especially electrical engin	eering	and electronics [K_W04	(P6S	5_WG)]	
supplie	es of patents information	f applying copyright and the prote on [K_W15(P6_WK)]	ction of	f the intellectual property	∕, stu	dents know how to use the	
Skills							
as con	clude [K_U06(P6S_U				natior	n and interpret them as well	
		presentation about the engineering	g task [K_U12(P6S_UK)]			
1. Stuc the rea	diness of submitting t	e value of their knowledge and wo o the principles of the work in the SS_KK), K_K04 (P6S_KR)]					
2. Awa	reness of the social p	art of a technical university graduating the achievements in the area					

Assessment methods of study outcomes

- Continuous estimation of students activity and the increase of their knowledge, and the skills necessary to realize the diploma thesis

- Evaluation based on the obtained results and ability of their presentation

- Evaluation of efficient application of the knowledge acquired to solve the given tasks

Course description

- Students realize diploma theses which subjects refer to Division research areas.

- The selected problems related to the area of diploma theses

- Arrangement of the tasks included in the subject of a given diploma thesis

- Principles of preparing the bibliography

- Editing and formatting of the engineer diploma theses

Basic bibliography:

1. Bibliography recommended by a diploma thesis supervisor

Additional bibliography:

1. Bibliography searched by a student in the range of a given diploma thesis subject matter

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Result of average stude	nt's workload	
Activity	Time (working hours)	
1. Participation in seminars		30
2. Participation in consulting with the teachers	20	
3. Preparation to seminars	30	
4. Arrangement of the detailed tasks included in a scope of the diploma	10	
5. Realization of the particular tasks	230	
6. Preparation of a multimedia presentation concerned with progress ir	30	
7. Preparation of the final multimedia presentation and preparation to t	20	
Student's work	load	
Source of workload	hours	ECTS
Total workload	370	15
Contact hours	60	2
Practical activities	210	7