

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Diploma seminar		Code 1010315431010320081
Field of study Power Engineering	Profile of study (general academic, practical) general academic	Year /Semester 2 / 3
Elective path/specialty Sustainable Energy Development	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: Second-cycle studies	Form of study (full-time, part-time) part-time	
No. of hours Lecture: - Classes: - Laboratory: - Project/seminars: 9		No. of credits 5
Status of the course in the study program (Basic, major, other) other		(university-wide, from another field) university-wide
Education areas and fields of science and art technical sciences Technical sciences		ECTS distribution (number and %) 5 100% 5 100%
Responsible for subject / lecturer: dr hab. inż. Andrzej Tomczewski email: Andrzej.Tomczewski@put.poznan.pl tel. 61 665 2788 Faculty of Electrical Engineering ul. Piotrowo 3A 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Basic information of subjects taught for first degree of full-time studies, majoring in power engineering and specialty of ecological source of electrical energy.
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 work, awareness of the need to expand their knowledge and skills.
Assumptions and objectives of the course: Knowledge about proposed issues in Engineering Thesis. Preliminary selection of the thesis subject. Understanding rules of the thesis editing and carry out research. Preparatory recognition of literature and possibility of carrying out the research by simulations and experimentally.		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. X - [K_W17+] 2. X - [K_W18+]		
Skills:		
1. X - [K_U01+] 2. X - [K_U011+] 3. X - [K_U015+]		
Social competencies:		
1. x - [K_K01+]		
Assessment methods of study outcomes		
<ul style="list-style-type: none"> - assess the knowledge and skills needed to carry out the Master thesis topic, - 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		
Presentation of proposed Master Thesis subjects. Rules of: the thesis realization, individual consultations, literature resources using. Issue of copyright policy in the thesis.		
Basic bibliography:		
1. Vademecum autora (in Polish) Wydawnictwo Politechniki Poznańskiej		
2. Books and papers		
Additional bibliography:		
1. Another Diploma Thesis		
Result of average student's workload		
Activity	Time (working hours)	
1. Participation in seminar classes	9	
2. Participation in the consultation	45	
3. Determine the tasks within the scope of Master thesis	10	
4. Prepare a presentation on the progress made in the implementation of Engineer's thesis	15	
5. Preliminary review of the literature on engineering thesis	15	
6. Execution of preliminary research and analysis	30	
Student's workload		
Source of workload	hours	ECTS
Total workload	124	5
Contact hours	54	3
Practical activities	39	2