

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Diploma seminar</b>		Code <b>1010314391010320081</b>
Field of study <b>Power Engineering</b>	Profile of study (general academic, practical) <b>(brak)</b>	Year /Semester <b>5 / 9</b>
Elective path/specialty <b>Ecological Source of Electrical Energy</b>	Subject offered in: <b>polish</b>	Course (compulsory, elective) <b>obligatory</b>
Cycle of study: <b>First-cycle studies</b>	Form of study (full-time, part-time) <b>part-time</b>	
No. of hours Lecture: - Classes: - Laboratory: - Project/seminars: <b>18</b>		No. of credits <b>12</b>
Status of the course in the study program (Basic, major, other) <b>(brak)</b>		(university-wide, from another field) <b>(brak)</b>
Education areas and fields of science and art <b>technical sciences</b> <b>Technical sciences</b>		ECTS distribution (number and %) <b>12 100%</b> <b>12 100%</b>
<b>Responsible for subject / lecturer:</b>  Prof. dr hab. inż. Władysław Opydo email: wladyslaw.opydo@put.poznan.pl tel. 616652685 Elektryczny ul. Piotrowo 3A, 60-965 Poznań		
<b>Prerequisites in terms of knowledge, skills and social competencies:</b>		
1	<b>Knowledge</b>	The knowledge gained during the current education process, especially on the subject of this thesis.
2	<b>Skills</b>	Logical thinking, the use of literature and the Internet, computer skills, effective self-study
3	<b>Social competencies</b>	He understands the needs of learning and acquiring new knowledge. Is aware of the need to broaden their skills and willingness to work together as a team
<b>Assumptions and objectives of the course:</b> Knowing the rules of writing scientific and technical studies, and in particular the principles of preparing a thesis. Understanding the principles of editorial thesis and methods of preparing and delivering scientific and technical presentations		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b> 1. Formulate goals and dissertation thesis and to recognize and identify the problem in question, respecting copyrights, showing current trends of energy development - [K_W20++, K_W26++] 2. Propose a thesis plan - [K_W28++] 3. Describe the studies and analysis, and summarize them and formulate conclusions - [K_W28++]		
<b>Skills:</b> 1. Search the said literature and use it and formulate objectives and thesis work - [K_U01++, K_U06+] 2. Review the present problems and carry out the analysis, as well as advocating and verify hypotheses, and prepare and deliver a presentation of the work. - [K_U01++, K_U06++]		
<b>Social competencies:</b> 1. Students should be active and determined to write a very good job, which is a summary and showcase their knowledge and should be open to suggestions, creative research and took care of the proceedings in accordance with the principles of ethics - [K_K01++]		
<b>Assessment methods of study outcomes</b>		

-Seminars:		
Rating prepared presentation; bonus points for the substantive activity in the classroom		
<b>Course description</b>		
Issues relating to a proceeding in accordance with the principles of ethics, rules editing theses, requirements concerning the form, scope of work and the timeframe for the preparation work. Discussion of substantive issues on the topic of thesis. and periodic assessment of progress in the writing work.		
<b>Basic bibliography:</b>		
1. Literatura tematycznie związana z przygotowawaną pracą		
2. Notatki z wykładów		
3. Komisja Dydaktyczna Samorządu Studentów Politechniki Warszawskiej "Poradnik pisania pracy dyplomowej", Samorząd Studentów Politechniki Warszawskiej, Warszawa 2009		
<b>Additional bibliography:</b>		
1. Gambarelli G., Łucki Z. "Jak przygotować pracę dyplomową: wybór tematu, pisanie, prezentacja, publikowanie", Wyd. Universitas, Kraków 1998		
2. Rawa T. "Metodyka wykonywania inżynierskich i magisterskich prac dyplomowych", Akademia Rolniczo-Techniczna w Olsztynie, Olsztyn 1999		
3. Internet		
<b>Result of average student's workload</b>		
<b>Activity</b>	<b>Time (working hours)</b>	
1. participation in seminar classes	18	
2. participating in consultations	30	
3. work with the promotor (to determine the scope, evaluation of progress, verification report)	35	
4. implementation of model / simulation	75	
5. analysis and the results of model development / simulation	75	
6. prepare a presentation on the progress made in the implementation of engineering thesis	4	
7. thesis preparation	70	
8. searching the literature for thesis	5	
<b>Student's workload</b>		
<b>Source of workload</b>	<b>hours</b>	<b>ECTS</b>
Total workload	321	12
Contact hours	83	4
Practical activities	150	6