

| STUDY MODULE DESCRIPTION FORM | | |
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| Name of the module/subject Diploma seminar | | Code 1010314381010320081 |
| Field of study Power Engineering | Profile of study (general academic, practical) (brak) | Year /Semester 4 / 8 |
| Elective path/specialty Ecological Source of Electrical Energy | Subject offered in: polish | Course (compulsory, elective) obligatory |
| Cycle of study: First-cycle studies | Form of study (full-time, part-time) part-time | |
| No. of hours Lecture: - Classes: - Laboratory: - Project/seminars: 9 | | No. of credits 3 |
| Status of the course in the study program (Basic, major, other) (brak) | | (university-wide, from another field) (brak) |
| Education areas and fields of science and art technical sciences Technical sciences | | ECTS distribution (number and %) 3 100% 3 100% |
| Responsible for subject / lecturer: Prof. dr hab. inż. Władysław Opydo email: wladyslaw.opydo@put.poznan.pl tel. 616652685 Elektryczny ul. Piotrowo 3A, 60-965 Poznań | | |
| Prerequisites in terms of knowledge, skills and social competencies: | | |
| 1 | Knowledge | The knowledge gained during the current education process, especially on the subject of the thesis |
| 2 | Skills | Logical thinking, the use of literature and the Internet, computer skills, effective self education. |
| 3 | Social competencies | Understand 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. |
| Assumptions and objectives of the course: 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 | | |
| Study outcomes and reference to the educational results for a field of study | | |
| Knowledge: 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+] | | |
| Skills: 1. Literature search and use it and formulate objectives and thesis work - [K_U01+, K_U06+] 2. Review the present problems and carry out the analysis - [K_U01+] | | |
| Social competencies: 1. Students should be active and determined to write a very good thesis, which is a summary and showcase of his knowledge - [K_K01+] | | |
| Assessment methods of study outcomes | | |
| Seminars: Rating prepared presentation; bonus points for the substantive activity in the classroom | | |

| Course description | | |
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| 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. | | |
| Basic bibliography: | | |
| 1. Literatura tematycznie związana z przygotowywaną pracą | | |
| 2. Notatki z wykładów | | |
| 3. Komisja Dydaktyczna Samorządu Studentów Politechniki Warszawskiej "Poradnik pisania pracy dyplomowej", Samorząd Studentów Politechniki Warszawskiej, Warszawa 2009. | | |
| Additional bibliography: | | |
| 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 | | |
| Result of average student's workload | | |
| Activity | Time (working hours) | |
| 1. participation in seminar classes | 9 | |
| 2. participating in consultations | 15 | |
| 3. determine the tasks within the scope of engineering thesis | 13 | |
| 4. development of the test / simulation models | 15 | |
| 5. provision of technical facilities (equipment, software, components for research, etc.) | 25 | |
| 6. prepare a presentation on the progress made in the implementation of engineering thesis | 4 | |
| 7. search literature to engineering thesis | 10 | |
| Student's workload | | |
| Source of workload | hours | ECTS |
| Total workload | 94 | 3 |
| Contact hours | 41 | 2 |
| Practical activities | 40 | 2 |