

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Seminar		Code 1010312321010314073
Field of study Power Engineering	Profile of study (general academic, practical) general academic	Year /Semester 1 / 2
Elective path/specialty Electrical Power Engineering	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: Second-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: - Classes: - Laboratory: - Project/seminars: 1		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		ECTS distribution (number and %) 5 100%
Responsible for subject / lecturer: prof. dr hab. inż. Józef Lorenc email: jozef.lorenc@put.poznan.pl tel. 61 6652279 Wydział Elektryczny ul. Piotrowo 3A 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	He/she has fundamental knowledge collected during study on Electric Engineering field.
2	Skills	He/she can indicate and formulate tasks, problems in frame of electric engineering.
3	Social competencies	He/she knows fundamental possibilities of the receiving of knowledge from literature sources.
Assumptions and objectives of the course: The presentation of literature, genesis, aim, and range of diploma work which concerning chosen problems in frame of electric Engineering.		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. He/she has knowledge in frame of metrology of measurements in electric power system. - [K_W18+] 2. He/she knows the newest trends according to development trends in frame of network and electric power system protection on the basis of technical literature - [K_W18+] 3. He/she knows fundamental of author rights during preparation of diploma thesis in frame of network and electric power system protection - [K_W21+]		
Skills:		
1. He/she can use available literature in printed and electronic version in frame of network and electric power system. obtained information and summarize conclusions, and formulate opinions with arguments - [K_U05+++, K_U06+++, K_U09+++]		
Social competencies:		
1. He/she has consciousness of consequenced of own work results in frame of electric power engineering - [K_K03+]		
Assessment methods of study outcomes		
Assessment of prepared presentations of individual parts of diploma thesis in verbal form (literature, aim, range of the thesis)		
Course description		

1. Presentation of introduction, worked out on the basis of literature, to problem in area of electric engineering, in diploma thesis 2. Description of genesis, aim, thesis, and range of investigations and problems analysis 3. Preparation of specialist literature used in diploma thesis		
Basic bibliography:		
Additional bibliography:		
Result of average student's workload		
Activity	Time (working hours)	
1. Participation in seminar	15	
2. Analysis of literature	20	
3. Laboratory and results analysis	25	
4. Consultation with supervisor	30	
5. Preparation of presentation	5	
Student's workload		
Source of workload	hours	ECTS
Total workload	95	3
Contact hours	45	2
Practical activities	40	2