

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Diploma seminar		Code 1010314391010310081
Field of study Electrical Engineering	Profile of study (general academic, practical) (brak)	Year /Semester 5 / 9
Elective path/specialty Power Networks and Electric Power System	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: 18		No. of credits 13
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		ECTS distribution (number and %) 13 100%
Responsible for subject / lecturer: prof. dr hab. inż. Józef Lorenc email: jozef.lorenc@put.poznan.pl tel. 61 6652279 Faculty of Electrical Engineering ul. Piotrowo 3A 60-965 Poznań		Responsible for subject / lecturer: dr inż. Jerzy Andruszkiewicz email: jerzy.andruszkiewicz#put.poznan.pl tel. 61 6652 Faculty of Electrical Engineering u. 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: 1. Description of genesis, aim, thesis, and range of investigations and problems analysis 2. Polish-English dictionary 3. Specialist literature (books, conferences proceedings) 4. Lexicons, encyclopedias, technical guides		
Additional bibliography: 1. Very well prepared diploma thesis		
Result of average student's workload		
Activity	Time (working hours)	
1. Participation in seminar	9	
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	406	13
Contact hours	111	8
Practical activities	250	7