

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Diploma seminar</b>		Code <b>1010311361010310081</b>
Field of study <b>Electrical Engineering</b>	Profile of study (general academic, practical) <b>(brak)</b>	Year /Semester <b>3 / 6</b>
Elective path/specialty <b>Power Networks and Electric Power System</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>full-time</b>	
No. of hours Lecture: - Classes: - Laboratory: - Project/seminars: <b>15</b>		No. of credits <b>4</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>4 100%</b> <b>4 100%</b>
<b>Responsible for subject / lecturer:</b> prof. dr hab. inż. Józef Lorenc email: jozef.lorenc@put.poznan.pl tel. 61 6652279 Wydział Elektryczny ul. Piotrowo 3A 60-965 Poznań		<b>Responsible for subject / lecturer:</b> dr inż. Jerzy Andruszkiewicz email: jerzy.andruszkiewicz@put.poznan.pl tel. 61 665 2392 Faculty of Electrical Engineering ul. Piotrowo 3A 60-965 Poznań
<b>Prerequisites in terms of knowledge, skills and social competencies:</b>		
1	<b>Knowledge</b>	He/she has fundamental knowledge collected during study on Electric Engineering field.
2	<b>Skills</b>	He/she can indicate and formulate tasks, problems in frame of electric engineering.
3	<b>Social competencies</b>	He/she knows fundamental possibilities of the receiving of knowledge from literature sources.
<b>Assumptions and objectives of the course:</b> The presentation of literature, genesis, aim, and range of diploma work which concerning chosen problems in frame of electric Engineering.		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b>		
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+]		
<b>Skills:</b>		
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+++]		
<b>Social competencies:</b>		
1. He/she has consciousness of consequenced of own work results in frame of electric power engineering - [K_K03+]		
<b>Assessment methods of study outcomes</b>		
Assessment of prepared presentations of individual parts of diploma thesis in verbal form (literature, aim, range of the thesis)		
<b>Course description</b>		

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		
<b>Basic bibliography:</b> 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		
<b>Additional bibliography:</b> 1. Very well prepared diploma thesis		
<b>Result of average student's workload</b>		
<b>Activity</b>	<b>Time (working hours)</b>	
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	
<b>Student's workload</b>		
<b>Source of workload</b>	<b>hours</b>	<b>ECTS</b>
Total workload	95	4
Contact hours	45	2
Practical activities	40	2