

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Diploma seminar</b>		Code
Field of study <b>Mathematics in Technology</b>	Profile of study (general academic, practical) <b>general academic</b>	Year /Semester <b>3 / 6</b>
Elective path/specialty <b>Electric Power Device Diagnostics</b>	Subject offered in: <b>Polish</b>	Course (compulsory, elective) <b>obligatory</b>
Cycle of study: <b>First-cycle studies (level PRK 6)</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>3</b>
Status of the course in the study program (Basic, major, other) <b>other</b>		(university-wide, from another field) <b>university-wide</b>
Education areas and fields of science and art <b>Technical sciences</b> <b>Technical sciences</b>		ECTS distribution (number and %) <b>3 100%</b> <b>3 100%</b>
<b>Responsible for subject / lecturer:</b> dr hab. eng. Jarosław Gielniak email: jaroslaw.gielniak@put.poznan.pl tel. 61 665 2024, 61 665 2622 Faculty of Electrical Engineering ul. Piotrowo 3A 60-965 Poznań		<b>Responsible for subject / lecturer:</b> dr hab. Małgorzata Migda email: malgorzata.migda@put.poznan.pl tel. 61 665 2359 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>	Student has basic knowledge within the scope of subjects included in the programme of the specialization [K_W03 (P6S_WG)] Student has basic knowledge accumulated during studies in the field of Mathematics in technology [K_W08 (P6S_WG), K_W15 (P6S_WK)]
2	<b>Skills</b>	Student has ability to carry out measurements of basic electrical and non-electrical values and effective self-study in the field of the chosen field of study and chosen specialization [K_U05 (P6S_UW), K_U11 (P6S_UW)] Is able to perceive and specify the technical problems [K_U05 (P6S_UW)]
3	<b>Social competencies</b>	Student is aware of the consequences of the results of his own work [K_K04 (P6S_KR)] Ability to work in a team and awareness of the necessity to broaden their knowledge and skills [K_K02 (P6S_KK), K_K03 (P6S_KO)]
<b>Assumptions and objectives of the course:</b> Learning about selected issues regarding the collection of the necessary materials and rules for the preparation of engineering thesis. Learning the rules of conducting research and editing the diploma thesis		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b>		
1. Student has knowledge in the field of measurement methodology and conducted analyzes of a selected technical problem [K_W04 (P6S_WG)] 2. The student knows the latest development trends in technology based on professional literature [K_W11 (P6S_WG)] 3. Student has knowledge of the principles of writing studies and editing text, knows and understands the basic concepts and principles in the field of intellectual property protection, among others of copyright. [K_W15 (P6S_WK)]		

<b>Skills:</b>
<ol style="list-style-type: none"> <li>1. Is able to use printed and electronic literature sources, integrate the acquired information and make their interpretation and draw conclusions [K_U06 (P6S_UW)], K_U10 (P6S_UW), K_U13 (P6S_UK]</li> <li>2. Can work individually and in a team, can estimate the time needed to accomplish the tasks provided for in the diploma thesis [K_U12 (P6S_UK)]</li> <li>3. Has the skills of self-education to improve professional competence in the field of the chosen field of study and specialization [K_U15 (P6S_UU)]</li> </ol>
<b>Social competencies:</b>
<ol style="list-style-type: none"> <li>1. Student is aware of the value of his work, and also shows willingness to comply with the principles of working in a team in the field of jointly carried out tasks [K_K01 (P6S_KK), K_K05 (P6S_KR)]</li> <li>2. The student is aware of the need to deepen and broaden knowledge in order to solve technical problems [K_K02 (P6S_KK), K_K04 (P6S_KR)]</li> </ol>

<b>Assessment methods of study outcomes</b>		
<ol style="list-style-type: none"> <li>1. Continuous evaluation of seminar activities of the student's activity and increase of his knowledge and skills needed to implement the diploma thesis</li> <li>2. Evaluation based on the results obtained and the method of their systematic presentation</li> <li>3. Assessment of the effectiveness of applying knowledge to the needs of solving the tasks</li> </ol>		
<b>Course description</b>		
<p>Actualisation 2018:</p> <ol style="list-style-type: none"> <li>1. In time of the diploma seminars, selected information about research carried out at the Institute is presented</li> <li>2. Selected topics in the field of the subject of diploma thesis preparation</li> <li>3. Setting tasks covered by the subject of work</li> <li>4. Principles of bibliography preparation</li> <li>5. Editing and formatting of the electrical engineering diploma thesis</li> </ol>		
<b>Basic bibliography:</b>		
<ol style="list-style-type: none"> <li>1. Bibliography on the subject of the diploma thesis recommended by the supervisor</li> <li>2. Author's vademecum, recommendations for the preparation of publications prepared by IE and the Poznan University of Technology Publishing House</li> <li>3. Specialist literature (books, articles, conference materials, technical brochures)</li> <li>4. Lexicons, encyclopedias, technical guides, dictionaries</li> </ol>		
<b>Additional bibliography:</b>		
<ol style="list-style-type: none"> <li>1. Bibliography found by the student in printed and electronic form</li> <li>2. Sample, master diploma thesis</li> </ol>		
<b>Result of average student's workload</b>		
<b>Activity</b>	<b>Time (working hours)</b>	
1. Participation in seminar classes	15	
2. Participation in consultations	5	
3. Preparation for seminar classes	10	
4. Determining specific tasks covered by the scope of work	5	
5. Implementation of the work	30	
6. Preparation of the presentation at subsequent stages of the diploma thesis	10	
<b>Student's workload</b>		
<b>Source of workload</b>	<b>hours</b>	<b>ECTS</b>
Total workload	75	3
Contact with teacher hours	25	1
Practical activities	40	2