

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Diploma seminar</b>		Code <b>1010321361010320081</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>Electrical and Computer Systems in</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. Ryszard Nawrowski email: ryszard.nawrowski@put.poznan.pl tel. 616652788 Elektryczny ul. Piotrowo 3A, 60-965 Poznań		
<b>Prerequisites in terms of knowledge, skills and social competencies:</b>		
1	<b>Knowledge</b>	Basic information of subjects taught for first degree of full-time studies, majoring in electrical engineering and specialty of electric an information systems in industry and vehicles.
2	<b>Skills</b>	Measurements and calculations of basic electrical and non-electrical quantities, writing simple computer programs, designing and construction of simple circuits or electrical installations and effective self-study in chosen specialty and electrical engineering.
3	<b>Social competencies</b>	Verbal communication and team work, awareness of the need to expand their knowledge and skills.
<b>Assumptions and objectives of the course:</b> Understanding the issues related to the collection of necessary materials for research and the principles of preparation of Engineer?s thesis.		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b>		
1. student knows the basic engineering technology, and versed in the latest developmental trends in the field of electrical engineering - [K_W18+] 2. student knows the basics of copyright and intellectual property rights, know how to use patent information - [K_W21+++]		
<b>Skills:</b>		
1. student is able to use the resources available in paper and electronic literature, obtain information, and on the basis of them interpret and draw the conclusions - [K_U05+++] 2. student is able to work individually and in a team, to estimate the time needed for the commissioned tasks and during this time to realize this task - [K_U06+++] 3. student has the skills of self-education in order to improve professional skills of the chosen academic field and specializations - [K_U09+++]		
<b>Social competencies:</b>		
1. student is aware of his own work, he can obey the rules of work in a team, is able to prepare a report of the results of own work and teamwork - [K_K03+]		
<b>Assessment methods of study outcomes</b>		

<p>Seminar:</p> <ul style="list-style-type: none"> <li>- assess the knowledge and skills needed to carry out the Engineer?s thesis topic,</li> <li>- an assessment based on the presentation of the results of realized works,</li> <li>- evaluate the effectiveness of the application of knowledge in problem solving,</li> <li>- continuous evaluation for each class: student activities, increase their knowledge and skills.</li> </ul>		
<b>Course description</b>		
<p>The initial term diploma theses topics. Determine the objectives of the Engineer's theses topics. Discussion of selected issues of the diploma theses. Discussion of the principles of editing and formatting of the Engineer?s thesis. Discussion of the principles related with the preparation of a bibliography, formatting, drawings, diagrams, photographs and tables.</p> <p>Update 2017: Enabling students to take part in presentations on current scientific research by the Institute staff. Presenting papers on current progress in the implementation of their dissertation theses related to research conducted at the Institute.</p>		
<b>Basic bibliography:</b>		
1. Bibliography of Engineer?s thesis range recommended by the promoter.		
<b>Additional bibliography:</b>		
1. Bibliography of Engineer?s thesis searched by student.		
<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 the consultation	15	
3. preparation for seminar classes	5	
4. determine the tasks within the scope of Engineer?s thesis	18	
5. prepare a presentation on the progress made in the implementation of Engineer?s thesis	10	
6. search literature to engineering thesis	5	
7. supply of technical facilities (equipment, software, components for research, etc.)	7	
8. construction of the test stand	20	
<b>Student's workload</b>		
<b>Source of workload</b>	<b>hours</b>	<b>ECTS</b>
Total workload	95	4
Contact hours	48	2
Practical activities	67	2