

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Diploma seminar</b>		Code <b>1010322321010320081</b>
Field of study <b>Electrical Engineering</b>	Profile of study (general academic, practical) <b>(brak)</b>	Year /Semester <b>1 / 2</b>
Elective path/specialty <b>Measurement Systems in Industry and</b>	Subject offered in: <b>Polish</b>	Course (compulsory, elective) <b>obligatory</b>
Cycle of study: <b>Second-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>3</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>3 100%</b> <b>3 100%</b>
<b>Responsible for subject / lecturer:</b>  prof. dr hab. inż. Anna Cysewska-Sobusiak email: anna.cysewska@put.poznan.pl tel. 61 665 2633 Wydział Elektryczny ul. Piotrowo 3A, 60-965 Poznań		
<b>Prerequisites in terms of knowledge, skills and social competencies:</b>		
1	<b>Knowledge</b>	Basic knowledge in the scope of the speciality modules
2	<b>Skills</b>	Ability to realize measurements of basic electrical and nonelectrical quantities and realize the efficient self-education in the area related to the chosen field and speciality of studies
3	<b>Social competencies</b>	Ability to work as a team and awareness of the necessity of broadening of the knowledge and skills
<b>Assumptions and objectives of the course:</b> Knowledge of the selected problems related to gathering of the indispensable materials and knowledge of principles concerned the preparation of a diploma thesis		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b>		
1. Knowledge of trends to development and the most important new achievements in electrical engineering and ? a bit less ? in electronics, computer science, power industry - [K_W04 ++]		
2. Well-ordered and theoretically supported knowledge of the design of electrical devices and systems, including their influence on environment - [K_W05 +]		
<b>Skills:</b>		
1. Ability to collect information from the literature, data bases and other sources; ability to integrate, interpret and critically evaluate the obtained information as well as properly conclude, formulate and sufficiently justify opinions - [K_U01 +]		
2. Ability to prepare and show a presentation on the subject of a realized project tasks and to take the discussion on this presentstion - [K_U04 ++]		
3. Ability to speak English in the sufficient degree to communicating, also in professional matters, reading with the understanding of the professional literature, and also preparation and delivering the short presentation on the subject of the realized projects - [K_U05 +]		
4. Ability to estimate an usefulness and possibility of application of the new technical and technological achievements for design and producing of the electrical systems and devices that include the innovative solutions - [K_U019 +]		
5. Ability to integrate the knowledge in the scope of electrotechnics, electronics, computer science and automation, when to formulate and solve the tasks of modeling and design of the electrical elements, devices and systems - [K_U15 ++, K_U16 +]		
<b>Social competencies:</b>		

1. Students awareness of the value of their work, and also the readiness of submitting to the principles of the work in the team cooperating in the range of realized tasks - [K\_K01 +]

<b>Assessment methods of study outcomes</b>		
<ul style="list-style-type: none"> <li>- Continuous estimation of students activity and the increase of their knowledge, and the skills necessary to realize the diploma thesis</li> <li>- Evaluation based on the obtained results and ability of their presentation</li> <li>- Evaluation of efficient application of the knowledge acquired to solve the given tasks</li> </ul>		
<b>Course description</b>		
Updating 2017: <ul style="list-style-type: none"> <li>- Students realize diploma theses which subjects refer to Division research areas. Students present reports referring to their MSc theses as well as research works conducted in the Division, taking into account a review and analysis of scientific literature.</li> <li>- The selected problems related to the area of diploma theses</li> <li>- Arrangement of the tasks included in the subject of a given diploma thesis</li> <li>- Principles of preparing the bibliography</li> <li>- Editing and formatting of the engineer diploma theses</li> </ul>		
<b>Basic bibliography:</b>		
1. Bibliography recommended by a diploma thesis supervisor		
<b>Additional bibliography:</b>		
1. Bibliography searched by a student from the printed and electronic sources from the range of the subject matter of the diploma thesis		
<b>Result of average student's workload</b>		
Activity	Time (working hours)	
1. Participation in seminars	15	
2. Participation in consulting with the teachers	15	
3. Preparation to seminars	15	
4. Arrangement of the detailed tasks included in a scope of the diploma thesis	15	
5. Realization of the particular tasks	19	
6. Preparation of a multimedia presentation concerned with progress in the work realization	15	
<b>Student's workload</b>		
Source of workload	hours	ECTS
Total workload	94	3
Contact hours	68	3
Practical activities	60	2