

| <b>STUDY MODULE DESCRIPTION FORM</b>   |   |   |
|--|---|---|
| Name of the module/subject<br><b>Diploma seminar</b>   |   | Code<br><b>1010321261010320081</b>  |
| Field of study<br><b>Electrical Engineering</b>  | Profile of study (general academic, practical)<br><b>(brak)</b> | Year /Semester<br><b>3 / 6</b>  |
| Elective path/specialty<br><b>Measurement Systems in Industry and</b>  | Subject offered in:<br><b>polish</b>                            | Course (compulsory, elective)<br><b>obligatory</b>  |
| Cycle of study:<br><b>First-cycle studies</b>  | Form of study (full-time, part-time)<br><b>full-time</b>        |   |
| No. of hours<br>Lecture: - Classes: - Laboratory: - Project/seminars: <b>1</b>   |   | No. of credits<br><b>3</b>  |
| Status of the course in the study program (Basic, major, other)<br><b>(brak)</b>   |   | (university-wide, from another field)<br><b>(brak)</b>  |
| Education areas and fields of science and art<br><b>technical sciences</b><br><b>Technical sciences</b>  |   | ECTS distribution (number and %)<br><b>3 100%</b><br><b>3 100%</b>  |
| <b>Responsible for subject / lecturer:</b><br><br>prof. dr hab. inż. Anna Cysewska-Sobusiak<br>email: anna.cysewska@put.poznan.pl<br>tel. 61 665 2633<br>Wydział Elektryczny<br>ul. Piotrowo 3A, 60-965 Poznań   |   |   |
| <b>Prerequisites in terms of knowledge, skills and social competencies:</b>  |   |   |
| 1  | <b>Knowledge</b>  | Basic knowledge within the scope of subjects included in the programme of the speciality  |
| 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 cooperate as a team and awareness of the necessity of broadening of the competence in the field of electrical engineering  |
| <b>Assumptions and objectives of the course:</b><br>Knowledge of 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 typical engineering technologies in the area of the Electrical Engineering field of study and in the newest tendencies in development of measuring systems - [K_W18 + ]                          |   |   |
| 2. Knowledge of the bases of applying copyright and the protection of the intellectual property, and ability to use the supplies of patents information - [K_W21 + ]   |   |   |
| <b>Skills:</b>   |   |   |
| 1. Ability to use the printed and electronic bibliography sources, integrate the gathering information and interpret them as well as conclude - [K_U05 +++]  |   |   |
| 2. Ability to work independently and as a team, and ability to estimate time needed to realize the tasks provided for in the range of the diploma thesis - [K_U06 +++]   |   |   |
| 3. Ability to realize the self-education in order to improve the professional competences in the range of the chosen field and speciality of study - [K_U09 +++]   |   |   |
| <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_K03 + ]                         |   |   |
| <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>  |                             |             |
| <ul style="list-style-type: none"> <li>- The selected problems related to the area of diploma theses</li> <li>- Arrangement of the tasks included in the subject of a diploma thesis</li> <li>- Principles of preparing the bibliography</li> <li>- Editing and formatting of diploma theses</li> </ul>  |                             |             |
| <b>Basic bibliography:</b>   |                             |             |
| 1. Bibliography related to the subject of diploma thesis   |                             |             |
| <b>Additional bibliography:</b>  |                             |             |
| <b>Result of average student's workload</b>  |                             |             |
| <b>Activity</b>  | <b>Time (working hours)</b> |             |
| 1. Participation in seminars   | 15                          |             |
| 2. Participation in consulting with lecturers  | 15                          |             |
| 3. Preparation to seminars   | 15                          |             |
| 4. Arrangement of the tasks included in the subject of a diploma thesis  | 10                          |             |
| 5. Realization of the work   | 15                          |             |
| 6. Preparation of presentations related to the progress in the realization of the work   | 10                          |             |
| <b>Student's workload</b>  |                             |             |
| <b>Source of workload</b>  | <b>hours</b>                | <b>ECTS</b> |
| Total workload   | 80                          | 3           |
| Contact hours  | 40                          | 2           |
| Practical activities   | 40                          | 2           |