

| STUDY MODULE DESCRIPTION FORM | | |
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| Name of the module/subject Passing Project | | Code 1010612221010624451 |
| Field of study Transport | Profile of study (general academic, practical) (brak) | Year /Semester 1 / 2 |
| Elective path/specialty Railway Transport | Subject offered in: Polish | Course (compulsory, elective) obligatory |
| Cycle of study: Second-cycle studies | Form of study (full-time, part-time) full-time | |
| No. of hours Lecture: - Classes: - Laboratory: - Project/seminars: 4 | | No. of credits 6 |
| Status of the course in the study program (Basic, major, other) (brak) | | (university-wide, from another field) (brak) |
| Education areas and fields of science and art technical sciences | | ECTS distribution (number and %) 6 100% |
| Responsible for subject / lecturer: Grzegorz Szymański DEng. email: grzegorz.m.szymanski@put.poznan.pl tel. +48 (61) 224 4510 Faculty of Work Machines and Transport Piotrowo 3 street, 60-965 Poznan | | |
| Prerequisites in terms of knowledge, skills and social competencies: | | |
| 1 | Knowledge | The student has a basic knowledge of the place and the role of transport in the economy and social life, in the system of sciences and relation of the other areas of knowledge. The student knows the main tasks in the operation of the systems and economic development of enterprises and the state. |
| 2 | Skills | Student is able to use the his/her knowledge analysis of specific phenomena and traffic objects processes. The student is able to solve arising specific problems in technical systems. |
| 3 | Social competencies | The students can solve important problems and they able skills work themselves. They able to work in a group. Student demonstrates self-reliance in solving problems, acquire and improve their knowledge and skills. |
| Assumptions and objectives of the course: Learning the methods and practical skills of problem solving in the exploitation of rail vehicles. | | |
| Study outcomes and reference to the educational results for a field of study | | |
| Knowledge: | | |
| 1. Has a basic knowledge of I prepared knowledge of reports. - [K2A_W06] | | |
| Skills: | | |
| 1. The students are able to find information from the literature, internet, databases and other sources in Polish and English. - [K2A_U01] | | |
| 2. Is able to communicate using a variety of techniques in a professional environment and other environments using the formal record of the design, technical drawings, concepts and definitions in the scope of the study area. - [K2A_U02] | | |
| Social competencies: | | |
| 1. The students understand the need and know the possibilities of learning, they know the need for acquiring new knowledge for professional development. - [K2A_K01] | | |
| 2. The students are able to think and act in an entrepreneurial manner. they make decisions and work for the development of the employer and the society. - [K2A_K07] | | |
| 3. The students are aware of the transfer of knowledge to society. They takes steps to ensure that the information is understandable. They present different solutions and points of view. - [K2A_K08] | | |

| Assessment methods of study outcomes | | |
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| Thesis | | |
| Course description | | |
| Knowledge on the preparation of technical papers. Formulating the technical aims. Formulating of tasks to achieve the objective. The student is able to perform and edit developed a technical report. | | |
| Basic bibliography: | | |
| Additional bibliography: | | |
| Result of average student's workload | | |
| Activity | Time (working hours) | |
| 1. Preparation for project | 30 | |
| 2. Participation in the project | 15 | |
| 3. Consultation lecture | 4 | |
| 4. Project preparation | 180 | |
| Student's workload | | |
| Source of workload | hours | ECTS |
| Total workload | 154 | 6 |
| Contact hours | 19 | 1 |
| Practical activities | 154 | 6 |