



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Passing Project [N2Trans1-TrSz>PP]

### Course

Field of study

Transport

Year/Semester

1/2

Area of study (specialization)

Railway Transport

Profile of study

general academic

Level of study

second-cycle

Course offered in

Polish

Form of study

part-time

Requirements

compulsory

### Number of hours

Lecture

0

Laboratory classes

0

Other

0

Tutorials

0

Projects/seminars

4

### Number of credit points

5,00

### Coordinators

prof. dr hab. inż. Franciszek Tomaszewski  
franciszek.tomaszewski@put.poznan.pl

### Lecturers

### Prerequisites

**KNOWLEDGE:** The student has knowledge about the place and role of transport in the economy and social life, in the system of science and relations with other areas of knowledge. **SKILLS:** The student is able to use the acquired knowledge to analyze specific phenomena and processes occurring in the movement of objects, is able to solve specific problems appearing in technical systems. **SOCIAL COMPETENCES:** The student is able to define priorities important in solving the tasks set before him, shows independence in solving problems, acquiring and improving acquired knowledge and skills.

### Course objective

Learning methods and acquiring practical skills in solving problems in the field of rail transport.

### Course-related learning outcomes

Knowledge:

Students knows advanced methods, techniques and tools used in solving complex engineering tasks and conducting research in a selected area of transport

Skills:

Student is able to prepare and present a scientific study in Polish and English, presenting the results of scientific research or an oral presentation on specific issues in the field of transport engineering  
Student is able to obtain information from literature, databases and other sources (in Polish and English), integrate them, interpret and critically evaluate them, draw conclusions and formulate and exhaustively justify opinions

Social competences:

Student understands the importance of using the latest knowledge in the field of transport engineering in solving research and practical problems

Student is aware of the need to develop professional achievements and to observe the rules of professional ethics

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Learning outcomes presented above are verified as follows:

Evaluation by the supervisor of the prepared interim paper in terms of content, methodology and editing

### Programme content

Expanded knowledge on the preparation of technical studies on a specific topic. Determining the detailed topic and title of the interim paper and its substantive scope, indicating the sources of literature searches; discussion of the work schedule, questions, comments and suggestions. Discussion with the student about the work plan and collected data and information; approval of the plan by the teacher.

Submission of paper and discussion of the assessed work.

### Course topics

none

### Teaching methods

Project method - individual implementation of the project with support from the interim paper supervisor.

### Bibliography

Basic

1. Dudziak A., Żejmo A.: Redagowanie prac dyplomowych, Wskazówki metodyczne dla studentów, Wydawnictwo Difin 2008,
2. Opracowanie zbiorowe: Podręcznik pisanie prac, Wydawnictwo EJB 2007,
3. Sęk A.: Podstawowe zasady pisanie prac dyplomowych, Wydawnictwo Wyższej Szkoły Ekonomiczno-Społecznej, 2012.

Additional

1. Opracowanie zbiorowe: Podręcznik pisanie prac, Wydawnictwo EJB 2007,

### Breakdown of average student's workload

	Hours	ECTS
Total workload	125	5,00
Classes requiring direct contact with the teacher	15	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	110	4,00