



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Organization of urban transport

### Course

Field of study

Year/Semester

Transport

3/6

Area of study (specialization)

Profile of study

Rail transport

general academic

Level of study

Course offered in

First-cycle studies

Polish

Form of study

Requirements

part-time

elective

### Number of hours

Lecture

Laboratory classes

Other (e.g. online)

9

9

0

Tutorials

Projects/seminars

0

0

### Number of credit points

1

### Lecturers

Responsible for the course/lecturer:

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Faculty of Civil and Transport Engineering

ul. Piotrowo 3, room. 722, 60-965 Poznań

Responsible for the course/lecturer:

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### Prerequisites

Basic knowledge of transport, mathematics, basic computer skills and group work skills

### Course objective

Provide students with basic knowledge of the functioning of urban transport

### Course-related learning outcomes

Knowledge

1. The student has an ordered, theoretically founded general knowledge of technology, transport systems and various means of transport.



### Skills

1. The student is able to obtain information from various sources, including literature and databases (both in Polish and in English), integrate it properly, interpret it and critically evaluate it, draw conclusions, and comprehensively justify his/her opinion.
2. The student can communicate in Polish and English using specialized terminology, using various techniques, both in the professional environment and in other environments, also with the use of tools in the field of transport engineering.

### Social competences

1. The student is aware of the importance of knowledge in solving engineering problems, knows examples and understands the causes of malfunctioning transport systems that have led to serious financial and social losses or to serious loss of health and even life.

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

For discussion, ongoing preparation and activity in class. Written credit for lectures and written credit for laboratory classes

### Programme content

1. Introduction to the organization of urban transport
2. Basic concepts in urban transport
3. Urban transport in statistical terms
4. Demand and supply in urban transport
5. Costs in urban transport
6. City transport policy
7. Shaping transport habits of city inhabitants

### Teaching methods

1. Lecture with multimedia presentation
2. Laboratory - task solving

### Bibliography

#### Basic

1. Ustawa z dnia 16 grudnia 2010 r. o publicznym transporcie zbiorowym.
2. G. Dydkowski, Zarządy transportu miejskiego w Polsce – przesłanki tworzenia oraz organizacyjno-prawne formy działalności, Zeszyty Naukowe Uniwersytetu Ekonomicznego w Katowicach, nr 232, 2015.



3. M. Tomaszuk, A. Kaczmarek, Integracja publicznego transportu zbiorowego na przykładzie aglomeracji poznańskiej – opinie władarzy gmin, *Rozwój Regionalny i Polityka Regionalna*, nr 44, 2018.
4. H. Kołodziejski, *Modele zarządzania komunikacją miejską*, Akademia Ekonomiczna Wrocław, 2007.
5. *Transport. Nowe wyzwania*. K. Wojewódzka-Król, E. Załoga (red.), PWN, Warszawa, 2016.

Additional

1. *Komunikacja Miejska w Liczbach*, IGKM, Warszawa, 2009.
2. Rozporządzenie Ministra Infrastruktury z dnia 2 marca 2011 r. w sprawie warunków technicznych tramwajów i trolejbusów oraz zakresu ich niezbędnego wyposażenia.
3. R. Bul, *Problemy funkcjonowania transportu publicznego w obszarach metropolitalnych na przykładzie Aglomeracji Poznańskiej*, Centrum Badań Metropolitalnych, Uniwersytet im. Adama Mickiewicza, Poznań.

**Breakdown of average student's workload**

	Hours	ECTS
Total workload	28	1,0
Classes requiring direct contact with the teacher	18	0,7
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) <sup>1</sup>	10	0,3

<sup>1</sup> delete or add other activities as appropriate