



COURSE DESCRIPTION CARD - SYLLABUS

Course name

History of urbanisation and transport

Course

Field of study

Year/Semester

Civil Engineering

1 / 1

Area of study (specialization)

Profile of study

general academic

Level of study

Course offered in

First-cycle studies

polish

Form of study

Requirements

full-time

elective

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

30

0

0

Tutorials

Projects/seminars

0

0

Number of credit points

3

Lecturers

Responsible for the course/lecturer:

Responsible for the course/lecturer:

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Faculty of Civil and Environmental Engineering

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Prerequisites

KNOWLEDGE: student has knowledge of history, mathematics and physics on level appropriate for high school graduates.

SKILLS: student has an ability for logical thinking, including combining facts to reach new conclusions;

student has an ability to use available information sources, including electronic sources

SOCIAL COMPETENCIES: student is ready to cooperate with other students and with the lecturer, knows it is necessary to avoid actions disrupting other student's learning;

student applies rules of culture and social cohabitation, notices other people's needs.



Course objective

1. Learn an abridged history of transport, city development and urbanism in the world and in Poland;
2. Historia magistra vitae est - learn about chosen legal and economic processes in urbanism and transport on historical examples;
3. Learn cases of history's influence on current shape of transport network and city layout in Poland;
4. Learn about world class achievements of chosen polish civil engineers;
5. Learn an abridged history of road's construction elements, and traffic management systems.

Course-related learning outcomes

Knowledge

1. Has knowledge about an influence of history on design and realisation of transport infrastructure;
2. Has basic knowledge about history of road construction methods and about chosen economical processes influencing development of cities' layout and transport infrastructure;
3. Has basic knowledge about history of spatial planning and influence of history on city layout.

Skills

1. Can, while solving civil engineering problems, notice these problems' comprehensive and nontechnical aspects, including ethical and historical aspects;
2. Can evaluate dangers for construction works and processes resulting from history of the construction site;
3. Can evaluate a historical context of a building project.

Social competences

1. Has an ability to evaluate circumstances connected with construction of given objects and a need to adapt them to new needs;
2. Understands a need to care for traditions and achievements of engineer's profession.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

The acquired knowledge from the lectures is verified by a written colloquium done on the last lecture. The colloquium has a form of a multiple choice test with penalty for wrong answers, and can be supplemented by questions of "list with a short description" type. With a small number of students it is possible to change the form into an oral colloquium, requiring acceptance from the lecturer and majority of students. To pass the colloquium, students should acquire at least 50% of points. Activity during the lectures and in Moodle system may be taken into account during the colloquium's score evaluation.

Topics for the colloquium will be given to students during the first lecture or by email.



Programme content

1. A hint of transport history of the world, Poland and Poznań;
2. A hint on history of the world's urbanism – shaping cities;
3. Chosen legal and economic processes decisive for urban development and transport systems evolution;
4. Influence of history on transport network's shape in Poland and in Poznań.
5. Influence of history on urban evolution in Poland;
6. A hint on road pavement history;
7. A hint on traffic control systems.

Teaching methods

An informative lecture including elements of a conversation lecture, utilising a multimedia presentation with an occasional use of a blackboard.

Bibliography

Basic

1. Wł. Czarnecki. To też był mój Poznań. Wydawnictwo Poznańskie, Poznań 1987.
2. J. Podoski. Transport w miastach. WKiŁ, Warszawa 1985.
3. D. St. Clair. The motorisation of American cities. Praeger 1986.
4. J. Sysak. Drogi kolejowe. WKiŁ, Warszawa 1982.
5. J. Tazbir. Zarys historii Polski. PIW, Warszawa 1980.
6. Dzieje Poznania. Pr. zbior. p. red. J. Topolskiego. PWN, Poznań-Warszawa 1988.

Additional

1. Kronika miasta Poznania. Wydawnictwo miejskie.
2. R. Ast. Kształtowanie przestrzeni regionów i miast. Wyd. Politechniki Poznańskiej, Poznań 2001.
3. K. Borowski. Śródmiejskie transurbacje technologiczne. Wyd. Politechniki Poznańskiej, Poznań 2001.
4. J. Dutkiewicz. Tramwaje w Poznaniu. Kolpress, Poznań 2005.
5. A. Nowak. Dzieje Polski. Biały Kruk, Kraków 2015-2020.
6. M. Mikulski. Komunikacja lotnicza na świecie. PAN, Kraków 1972.
7. J. Rossman. Studia i projekty metra w Warszawie 1928-1958. Arkady, Warszawa 1962.



8. M. i L. Trzeciakowscy. W XIX-wiecznym Poznaniu. Wydawnictwo Poznańskie, Poznań 1987.

9. Transport samochodowy w Polsce Ludowej. WKiŁ, Warszawa 1973.

Breakdown of average student's workload

	Hours	ECTS
Total workload	75	3,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, preparation for tests/exam) ¹	45	2,0

¹ delete or add other activities as appropriate