



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Organization and management of technical facilities

Course

Field of study

Year/Semester

Transport

3/5

Area of study (specialization)

Profile of study

Road transport

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)

15

Tutorials

Projects/seminars

15

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

dr inż. Ryszard Mańczak

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Wydział Inżynierii Lądowej i Transportu

ul. Piotrowo 3, 60-965 Poznań

Responsible for the course/lecturer:

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Wydział Inżynierii Lądowej i Transportu

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Prerequisites

The student has a basic knowledge of the automotive field.

Course objective

Getting to know the basics of the functioning and organization of facilities in the automotive technical facilities.

Course-related learning outcomes

Knowledge

The student has knowledge of important development trends and the most important technical achievements and of other related scientific disciplines, in particular transport engineering



The student has a basic knowledge of the life cycle of means of transport, both equipment and software, and in particular about the key processes occurring in the product life cycle

The student knows the basic techniques, methods and tools used in the process of solving tasks in the field of transport, mainly of an engineering nature engineering

Skills

The student is able to take into account in the process of formulating and solving tasks in the field of transport engineering also non-transport aspects, in particular social, legal and economic issues

Student is able to assess - at least in a basic scope - various aspects of the risk associated with a transport project

The student has the preparation necessary to work in a business environment, including an industrial environment, and knows the safety rules related to the profession of a transport engineer

Social competences

The student can think and act in an entrepreneurial way, incl. finding commercial applications for the created system, taking into account not only business benefits, but also social benefits of the conducted activity

The student is aware of the social role of a technical university graduate, in particular, he/she understands the need to formulate and transfer to the society, in an appropriate style, information and opinions on engineering activities, technological achievements, as well as the achievements and traditions of the transport engineer profession

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Credit based on the results of the test and grades of completed tasks and projects.

Programme content

Classification of service workshops, types of maintenance and repairs. Types of service and repair stands. Equipment of stands. Authorized vehicle service centers. Vehicle inspection stations. Bus depots. Specialist repair plants. Other facilities in the technical back-up.

Teaching methods

Auditorium lecture, blackboard exercises, visit to the car service.

Bibliography

Basic

Jóska M., Ulbrich D., Kowalczyk J., Mańczak R., Nosal S.; Inżynieria odnowy pojazdów samochodowych; Wydawnictwo Politechniki Poznańskiej, Poznań 2019.

Chaciński J., Jędrzejewski Z.: Zaplecze techniczne transportu samochodowego, WKiŁ, W-wa 1982.



Additional

Maryański A.: Stacje obsługi samochodów, WKiŁ, W-wa, 1981.

Breakdown of average student's workload

	Hours	ECTS
Total workload	60	2,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	30	1,0

¹ delete or add other activities as appropriate