



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Passong Project

Course

Field of study

Year/Semester

Construction and Exploation of Means of Transport

2/2

Area of study (specialization)

Profile of study

Machines

general academic

Level of study

Course offered in

Second-cycle studies

Polish

Form of study

Requirements

full-time

compulsory

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

0

0

0

Tutorials

Projects/seminars

0

0

Number of credit points

5

Lecturers

Responsible for the course/lecturer:

Responsible for the course/lecturer:

mgr inż. Jacek Marcinkiewicz

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Faculty of Civil and Transport Engineering

ul. Piotrowo 3, 60-965 Poznań

Prerequisites

Has a basic knowledge of the life cycle of machines. Has ordered, theoretically founded knowledge covering key issues useful in the design of working machines. He knows the principles of rational design of working machines. He can design selected sets of working machines - especially drive and working systems from components available on the market). Is able to use computer programs supporting the design process. Is aware of the importance and understands the non-technical aspects and effects of engineering activities, including its impact on the environment, and the responsibility for the decisions made.

Course objective

Practical use of knowledge gained in the process of previous education. Acquiring the ability to independently solve problems in the field of study and specialization, designing devices and



technological lines for industry, construction of working machines and methods of their testing and operation. The ability to calculate the strength of machines and their structures.

Course-related learning outcomes

Knowledge

Has knowledge of the conditions that should be taken into account when developing a project (assessment of the current state of technical theory and practice, selection and justification of the solution, social aspects).

Skills

He can design, according to a given specification, a device, a technological line for the production or processing of food. He can evaluate the system of exploitation of technical objects.

Social competences

Is aware of the ecological and social aspects of the project task.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Assessment of the completed project.

Programme content

Mastering the principles of independent solving of engineering tasks and preparation for the implementation of a master's thesis in the field of Working Machines.

Teaching methods

Consultations with the lecturer.

Bibliography

Basic

Kłós Z. Rozprawy naukowe. Wydawnictwo Politechniki Poznańskiej, 2011

Additional

Breakdown of average student's workload

	Hours	ECTS
Total workload	125	5,0
Classes requiring direct contact with the teacher	25	1,0
Student's own work (literature studies, preparation of a transitional work, getting acquainted with the subject of the work and expanding knowledge related to the subject) ¹	100	4,0

¹ delete or add other activities as appropriate