



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Passing project - Machines

		Course
Field of study	Construction and Exploation of Means of Transport	Year/Semester 3/6
Area of study (specialization)	Machines	Profile of study general academic
Level of study	First-cycle studies	Course offered in Polish
Form of study	full-time	Requirements 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:	dr inż. Konrad Włodarczyk	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	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	100	5,0
Classes requiring direct contact with the teacher	25	1,0
Student's own work (literature studies, interium project) ¹	75	4,0

¹ delete or add other activities as appropriate