

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Bodies of commercial vehicles</b>		Code <b>1010615321010607927</b>
Field of study <b>Transport</b>	Profile of study (general academic, practical) <b>(brak)</b>	Year /Semester <b>1 / 2</b>
Elective path/specialty <b>Road Transport</b>	Subject offered in: <b>Polish</b>	Course (compulsory, elective) <b>obligatory</b>
Cycle of study: <b>Second-cycle studies</b>	Form of study (full-time, part-time) <b>part-time</b>	
No. of hours Lecture: <b>9</b> Classes: <b>-</b> Laboratory: <b>-</b> Project/seminars: <b>-</b>		No. of credits <b>1</b>
Status of the course in the study program (Basic, major, other) <b>(brak)</b>		(university-wide, from another field) <b>(brak)</b>
Education areas and fields of science and art		ECTS distribution (number and %)
<b>Responsible for subject / lecturer:</b>  dr inż. Jakub Kowalczyk email: jakub.kowalczyk@put.poznan.pl tel. 616652248 Wydział Inżynierii Transportu ul. Piotrowo 3 60-965 Poznań		
<b>Prerequisites in terms of knowledge, skills and social competencies:</b>		
1	<b>Knowledge</b>	Student has general knowledge of regulations connected with the problem of construction of commercial vehicles. Student has a basic knowledge of the general construction of vehicles and their destination.
2	<b>Skills</b>	Student should demonstrate a general ability to identify problems related to commercial vehicles. Student should understand the basic rules for the selection of commercial vehicles for specific purposes.
3	<b>Social competencies</b>	Student shows a willingness to deepen knowledge in the field of interdisciplinary subjects. Student is open to learning about new engineering solutions.
<b>Assumptions and objectives of the course:</b> Provide basic information about the construction and design of commercial vehicles bodies and develop the skills of choosing a body for specific transport needs that will be used in practice.		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b> 1. Student has ordered, theoretically knowledge in the field of transport means, general characteristics and classification of transport means, their functional properties and basic technical and operational parameters - [K1A_W14]		
<b>Skills:</b> 1. Student is able to obtain information from literature, the Internet, databases and other sources, in Polish and foreign languages, can integrate the obtained information, interpret and draw conclusions from them and create and justify opinions - [K2A_U01]		
<b>Social competencies:</b> 1. The student is aware of the importance and understands the non-technical aspects and effects of the transport engineer's activities and its impact on the environment - [K2A_K02]		
<b>Assessment methods of study outcomes</b>		
Written and oral exam. During the written exam Student writes the most important issues and diagrams, which are discussed in the oral part of the exam.		
<b>Course description</b>		
Means of transport for vehicles for transporting animals. Means of transport for waste vehicles.		

<p>Means of transport for ADR vehicles, including tankers                  Means of transport for vehicles for transporting loose materials (feed, grain, aggregates) and for transporting concrete.                  Vehicles for transport at a regulated temperature.                  Vehicles for oversize transport.                  Means of transport for the needs of Police units.                  Trends in the development of commercial vehicle bodywork.</p>		
<p><b>Basic bibliography:</b>                  1. Pojazdy samochodowe. Samochody ciężarowe i autobusy, Leon Prochowski, WKŁ, 2015</p>		
<p><b>Additional bibliography:</b>                  1. Podwozia i nadwozia pojazdów samochodowych. Podstawy budowy, diagnozowania i naprawy. Marek Gabryelewicz, WKŁ, 2015</p>		
<p><b>Result of average student's workload</b></p>		
<p><b>Activity</b></p>	<p><b>Time (working hours)</b></p>	
1. Participation in lectures.	9	
2. Preparing for the exam	4	
3. Konsultacje	8	
4. Participation in the exam	4	
<p><b>Student's workload</b></p>		
<p><b>Source of workload</b></p>	<p><b>hours</b></p>	<p><b>ECTS</b></p>
Total workload	25	1
Contact hours	23	1
Practical activities	0	0