

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Vehicle Repairs Technology</b>		Code <b>1010611261010612458</b>
Field of study <b>Transport</b>	Profile of study (general academic, practical) <b>(brak)</b>	Year /Semester <b>3 / 6</b>
Elective path/specialty <b>Food Transport</b>	Subject offered in: <b>Polish</b>	Course (compulsory, elective) <b>obligatory</b>
Cycle of study: <b>First-cycle studies</b>	Form of study (full-time, part-time) <b>full-time</b>	
No. of hours Lecture: <b>1</b> Classes: <b>1</b> Laboratory: <b>1</b> Project/seminars: <b>-</b>		No. of credits <b>3</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. Aleksandra Rewolińska email: aleksandra.rewolinska@put.poznan.pl tel. 61 665-2232 MRiT ul. Piotrowo 3, 60-965 Poznań		
<b>Prerequisites in terms of knowledge, skills and social competencies:</b>		
1	<b>Knowledge</b>	Student has a basic knowledge of design, technology and operation of machinery.
2	<b>Skills</b>	He can describe the basic methods of machining.
3	<b>Social competencies</b>	He can think and act in a creative way.
<b>Assumptions and objectives of the course:</b> Familiar with the organization and planning of service and repair work, and methods to restore airworthiness vehicles.		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b>		
1. He has basic information about the maintenance and repair of vehicles. - [-]		
2. He has knowledge of the basic stages of vehicle overhaul: disassembly, cleaning and verification of parts and assembly and reaching after repair. - [-]		
3. He knows strategies for vehicle use - [-]		
4. He has ordered of knowledge about how to repair vehicles - [-]		
<b>Skills:</b>		
1. He can design a simplified manufacturing process of vehicle repair - [-]		
<b>Social competencies:</b>		
1. Student is aware of the importance of maintaining the state of fitness of food transport and related accountability for the decisions. - [-]		
<b>Assessment methods of study outcomes</b>		
The written examination, completion of the project and the current control laboratory preparation and evaluation of their progress		
<b>Course description</b>		

<p>General characteristics of the truck fleet of vehicles and repair facility in Poland. Characteristics of service and repair systems and methods of repair of motor vehicles. Qualifying vehicles for repair. Stages of the vehicle repair process. Discussion of the various steps - dismantling, verification, cleaning, assembly. Examples of repair processes. Technical documentation of the repair process. Damage to the vehicle. Methods of repair - replacement parts, repair by machining, repair parts by gluing, regeneration by metal spraying, welding methods of repair, regeneration method of electroplating.</p>		
<p><b>Basic bibliography:</b></p> <ol style="list-style-type: none"> <li>1. Cypko J., Cypko E. Podstawy technologii i organizacji napraw pojazdów mechanicznych. Wkił, Warszawa 1989</li> <li>2. Kostrzewa S., Nowak B. Podstawy regeneracji części pojazdów mechanicznych. Wkił, Warszawa, 1986</li> <li>3. Klimpel A., Napawanie i natryskiwanie cieplne. Technologie, WNT, Warszawa, 2000</li> <li>4. Adamiec P., Dziubiński P., Regeneracja i wytwarzanie warstw wierzchnich elementów maszyn transportowych, Wyd. Pol. Śląskiej, Gliwice, 1999</li> </ol>		
<p><b>Additional bibliography:</b></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 lecture		15
2. Consolidation on lecture		12
3. Participation in the exam		5
4. Consultations		6
5. Participation in laboratories		15
6. Participation in laboratories		15
<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	68	3
Contact hours	56	2
Practical activities	17	1