

## Subject card

Date of commencement of study   Date of commencement of studies   Decided Commencement of studies   Cotober 2020   Academic year of realisation of subject   Cotober 2020	Subject name and code	TRACK MAINTENANCE TECHNOLOGY, PG_00044236							
Date of commencement of studies    Detail of commencement of studies   Subject group   Optional subject   Optional subject   Optional subject   Optional subject   Optional	•								
Education level first-cycle studies Subject group Optional subject group Mode of study Full-time studies Mode of delivery at the university Year of study 4 Language of instruction Polish Semester of study 7 ECTS credits 2.0 Learning profile general academic profile Assessment form assessment Conducting unit Department of Railway Engineering -> Faculty of Civil and Environmental Engineering Name and sumame of lecturer (lecturers) Teachers drinz. Zbigniew Kędra Lesson types and methods of instruction Elearning hours included: 0.0 Learning activity and number of study hours Teachers and profile to the control of	•								
Mode of study	studies	COLODEL EVEN				2023/2024			
Year of study 4	Education level	first-cycle studies		Subject group		Optional subject group			
Semester of study	Mode of study	Full-time studies		Mode of delivery		at the university			
Learning profile   general academic profile   Assessment form   assessment	Year of study	4		Language of instruction		Polish			
Conducting unit   Department of Railway Engineering -> Faculty of Civil and Environmental Engineering	Semester of study	7		ECTS credits			2.0		
Name and sumame of lecturer (lecturers)    Subject supervisor   Teachers   dr in 2. Zbigniew Kędra	Learning profile	general academic profile		Assessment form			assessment		
Course outcome   Course and methods of instruction   Course outcome   Co	Conducting unit	Department of Railway Engineering -> Faculty of Civil and Environmental Engineering							
Lesson types and methods of instruction    Lesson types   Lecture   Tutorial   Laboratory   Project   Seminar   SUM	Name and surname	Subject supervisor		dr inż. Zbigniew Kędra					
Mumber of study hours   15.0   15.0   15.0   0.0   0.0   0.0   0.0   30	of lecturer (lecturers)	Teachers		dr inż. Zbigniew Kędra					
Learning activity and number of study hours   Learning activity and number of study hours   Participation in didactic classes included in study phours   Participation in didactic classes included in study phours   Participation in consultation hours   Participation		Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
Learning activity and number of study hours   Number of study hours   Number of study hours   Number of study hours   To acquaint students with technologies repair the tracks and subgrade. The choice of appropriate technology repair, machinery and equipment.   Subject outcome   Method of verification   Method of verif			15.0	15.0	0.0	0.0	0.0		30
and number of study hours    Number of study hours   Subject objectives   To acquaint students with technologies repair the tracks and subgrade. The choice of appropriate technology repair, machinery and equipment.    Course outcome		E-learning hours included: 0.0							
Subject objectives   To acquaint students with technologies repair the tracks and subgrade. The choice of appropriate technology repair, machinery and equipment.		Learning activity	classes includ				Self-study		SUM
Learning outcomes   Course outcome   Subject outcome   Method of verification			30		5.0		15.0		50
IK6_U17] has specialized skills in civil engineering within offered specialization with repair of the railway surface.    IK6_W16] Has deeper and adequate knowlege of civil engineering, within offered specialization of the railway tracks bed. Recognizes and describes machines used in track repair technology. Independently expands knowledge in the field of mechanization of track works. Grinding rails. Tamping the track. Cleaning of ballast. Welding of rails. Modern machinery for construction and maintenance of railways.    Prerequisites	Subject objectives								
civil engineering within offered specialization   technology and machines for the indicated damage. He can plan the repair of the railway surface.	Learning outcomes	Course out	Subject outcome			Method of verification			
adequate knowlege of civil engineering, within offered specialization   repairs of the track surface and railway track bed. Recognizes and describes machines used in track repairs.		civil engineering within offered		technology and machines for the indicated damage. He can plan					
professional and personal competences improvement; and broadens his knowlege about modern processes and technologies   track repair technology. Independently expands   knowledge in the field of mechanization of track works.		adequate knowlege of civil engineering, within offered		repairs of the track surface and railway track bed. Recognizes and describes machines used in track					
Cleaning of ballast. Welding of rails. Modern machinery for construction and maintenance of railways.  Railways  Assessment methods and criteria  Subject passing criteria  Passing threshold  Percentage of the final grade  Project task  Midterm colloquium  50.0%  Recommended reading  Basic literature  Codańskiej, Gdańsk 2015.  Supplementary literature  Publications relating to railway machines.  Example issues/ example questions/ tasks being completed		professional and personal competences improvement; complements and broadens his knowlege about modern		track repair technology. Independently expands knowledge in the field of					
Assessment methods and criteria  Recommended reading  Basic literature  Subject passing criteria  Passing threshold  Percentage of the final grade  100.0%  50.0%  Midterm colloquium  50.0%  Kedra Z.: Technology of rail track work. Wydawnictwo Politechniki Gdańskiej, Gdańsk 2015.  Supplementary literature  Publications relating to railway machines.  eResources addresses  Adresy na platformie eNauczanie:  Example issues/ example questions/ tasks being completed	Subject contents								
and criteria  Project task Midterm colloquium  Description  Recommended reading  Basic literature  Condariskiej, Gdańsk 2015.  Supplementary literature  Example issues/ example questions/ tasks being completed  Project task 100.0%  So.0%  Kedra Z.: Technology of rail track work. Wydawnictwo Politechniki Gdańskiej, Gdańsk 2015.  Publications relating to railway machines.  Adresy na platformie eNauczanie:		Railways							
Midterm colloquium   50.0%   50.0%	Assessment methods			Passing threshold Percentage of the final grade					e final grade
Recommended reading  Basic literature  Kedra Z.: Technology of rail track work. Wydawnictwo Politechniki Gdańskiej, Gdańsk 2015.  Supplementary literature eResources addresses  Adresy na platformie eNauczanie:  Example issues/ example questions/ tasks being completed	and criteria	Project task		100.0%		50.0%			
Gdańskiej, Gdańsk 2015.  Supplementary literature Publications relating to railway machines.  eResources addresses Adresy na platformie eNauczanie:  Example issues/ example questions/ tasks being completed		Midterm colloquium		50.0%			50.0%		
eResources addresses  Adresy na platformie eNauczanie:  Example issues/ example questions/ tasks being completed	Recommended reading	Basic literature							
Example issues/ example questions/ tasks being completed		Supplementary literature		Publications relating to railway machines.					
example questions/ tasks being completed		eResources addresses		Adresy na platformie eNauczanie:					
Work placement Not applicable	example questions/								
	Work placement	Not applicable							

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