

Card of Course

Description of course	
Code of course	MiMoTIP
Name of course	Methods in Management of Transport Investment Processes
Version of course	2024/2025
A. Place of the course in system of studies	
Level of education	Intermediate
Form and mode of studies	Full-time studies
Field of studies	Transport
Profile of studies	General academic profile
Specialisation	Main field
Place of teaching of course	Faculty of Transport
Place of realization of course	Department of Transport Systems Engineering and Logistics
Coordinator of course	Professor Marianna Jacyna, dr hab. inż. Department of Transport Systems Engineering and Logistics, Faculty of Transport
B. General characteristic of the course	
Block of courses	Main field
Group of courses	General
Level of course	-
Status of course	Faculty with limited choice
Language of course	English
Nominal semester	-
Academic year	2024/2025
Preliminary requirements	No preliminary requirements
Limit of students	No limit
C. Effects of education and manner of teaching	
Purpose of course	Acquiring knowledge and basic skills in modern management of investment projects in transport
Effects of education	See Table 1.
Form of didactic studies and number of hours per week	
Lecture	15
Exercise type of course	-
Laboratory	-
Project type of course	-
Contents of education	<ol style="list-style-type: none"> 1. Basics of projects and investment processes in transport. 2. Types of investment projects — investments and investment process and its participants. 3. Logical progression of a project — five stages of project. 4. Schedule of investment project: linear schedules, network methods. 5. Project management tips, project schedule, process flow chart.

	<p>6. Project management — CPM, PERT - Time, Cost & Savings Estimates.</p> <p>7. Fixed time and expected time of the investment process.</p> <p>8. A sample project — four square chart, project schedule, process flow chart, cause & effect diagram, 5-Whys analysis, description of solutions & impacts to process. Risk of project (investment process) implementation. A practical example of project management — Gantt chart and determination of critical path with CPM, PERT.</p>
Methods of evaluation	Realization of practical tasks during semester
Methods of verification of effects of education	See Table 1.
Exam	No
Literature	<p>[1] Project Management. A Systems Approach to Planning, Scheduling, and Controlling. Seventh Edition, Harold Kerzner, John Wiley & Sons, 2001.</p> <p>[2] Principles of Project Management: http://www.free-managementebooks.com/dldebk-pdf/fme-projectprinciples.pdf</p> <p>[3] Project Management Handbook: https://www.projectmanagementtraining.net/wordpress/wpcontent/uploads/2015/11/book_project_management.pdf</p> <p>[4] Project Management — From Simple to Complex: https://www.saylor.org/site/textbooks/Project%20Management%20-%20From%20Simple%20to%20Complex.pdf</p>
Website of the course	No
D. Student's activity	
Number of credits ECTS	3
Number of hours of student's job for achievement of education's effect (description):	<p>15 hours — lectures</p> <p>30 hours — reading related materials and own work</p> <p>20 hours — realizing recommended exercises</p> <p>2 hours — consultations</p>
Number of credits ECTS on the course with direct participation of academic teacher	1
Number of credits ECTS on practical activities on the course	2
E. Additional information	
Notes	-
Date of last edition	2024/11/21

Table 1. General academic profile

Course's effects		Field effects	Area effect
Knowledge			
Effect:	Student has a basic knowledge about investment projects in transport	Tr1A_W08	T1A_W03 T1A_W05
Code of effect:	W_01		
Verification:	Practical tasks		

Effect:	Student has a knowledge about modern management tools and techniques	Tr1A_W09	T1A_W04 T1A_W05 T1A_W08
Code of effect:	W_02		
Verification:	Practical tasks		
Effect:	Student has a knowledge about sites of the project, schedule and risk management		
Code of effect:	W_03		
Verification:	Practical tasks		
Skills			
Effect:	Student can practically use standard project management tools	Tr1A_U11 Tr1A_U23	T1A_U09 T1A_U16
Code of effect:	U_01		
Verification:	Practical task		
Effect:	Student can estimate risk, time and cost of the project realization	Tr1A_U20	T1A_U14
Code of effect:	U_02		
Verification:	Practical task		
Social competences			
Effect:	---		
Code of effect:	---		
Verification:	---		