

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Urban and road engineering, PG_00061558							
Field of study	Architecture							
Date of commencement of studies			Academic year of realisation of subject			2025/2026		
Education level	first-cycle studies			Subject group		Obligatory subject group in the field of study		
Mode of study	Full-time studies		Mode of de	elivery		at the	university	
Year of study	3		Language	of instruction	n	Englis	h	
Semester of study	6		ECTS cred	lits		2.0		
Learning profile	general academic pro	ofile	Assessmer	nt form		assess	assessment	
Conducting unit	Department Of Urban Design And Regional Planning -> Faculty Of Architecture -> Wydziały Politechniki Gdańskiej			olitechniki				
Name and surname	Subject supervisor							
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM
of instruction	Number of study hours	30.0	0.0	0.0	0.0		0.0	30
	E-learning hours inclu							
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation i consultation h	cipation in Sel sultation hours		Self-study SUM	
	Number of study hours	30		2.0		18.0		50
Subject objectives	The aim of the lecture of urban and road eng acquisition by student understanding the rel	gineering. In co ts of the neces	onnection with t sary knowledge	the above, the e needed for th	didactic e correc	result o	of the lectures f specialist te	is the ms,
Learning outcomes	Course out	come	Subject outcome			Method of verification		
	to critically analyze the conditions and formulate conclusions for design in an interdisciplinary context		Gaining by students the necessary knowledge needed to correctly understand the relationship between specific needs, applied solutions and achieved effects in the field of urban and road engineering.		[SU2] Assessment of ability to analyse information			
	construction problems, building and engineering issues related to		Gaining by students the necessary knowledge needed for the correct use of specialist terms in the field of urban and road engineering.		[SW2] Assessment of knowledge contained in presentation			
Subject contents	Selected topics: - a brief history of the - presentation, compa - review and explanat - principles of univers - approach to the des - discussion of import parking; - traffic management - relations between th - discussion of key pr	arison and expl tion of the meal al design; ign process; ant component measures, suc te intensity of d	anation of basi ning of internat ts of engineerir h as traffic calr evelopment ar	ic concepts; tional, national ng projects: ligh ming; nd transport infi	and loca nting, gre rastructu	al docui eenery, ire;	nents; water manag	ement,

Prerequisites and co-requisites			
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade
	The way of presenting the selected topic.	60.0%	100.0%
Recommended reading	Basic literature	 (3rd printing). Cambridge [MÁ]: The Technology. Gehl, J. (2010). <i>Cities for people</i>. We Island Press. Gehl, J. (2010). <i>Life between buildir</i> issue). København: The Danish Arce Jacobs, J. (2002). <i>The death and lif</i> York: Random House (Original work York: Random House (Original work Montgomery, C. (2013). <i>Happy city: urban design</i> (Kindle edition; Reprin New York: Farrar, Straus and Girou Sadik-Khan, J., & Solomonow, S. (2 <i>Urban Revolution</i> (Kindle Edition): Note that the stransmitted of the	ess. R. (1971). <i>The View from the Road</i> Massachusetts Institute Vashington (DC), Covelo, London: ngs: Using public space (6. ed., 2. hitectural Press. <i>e of great American cities</i> . New published 1961). <i>Transforming our lives through</i> tt edition (November 12, 2013)). x. 2016). <i>Streetfight: Handbook for an</i> <i>V</i> iking. <i>The rise of cities and the fall of cars</i> b). New York: Public Affairs.

Supplementary literature	Additional literature:
	Abiko, A. (2010). Urban Engineering: Concepts and Challenges. In Pina Filho, Armando Carlos de & A. C. d. Pina (Eds.), <i>Methods and</i> <i>Techniques in Urban Engineering</i> . InTech. Retrieved from https:// edisciplinas.usp.br/pluginfile.php/5529410/mod_resource/content/1/ UrbanEngineering.pdf
	Bain, B. (2001). City and Regional Planning. In P. Finkelman (Ed.), Encyclopedia of the United States in the nineteenth century (pp. 217219). New York: Charles Scribner's Sons.
	Benevolo, L. (1995). <i>Miasto w dziejach Europy. Tworzenie Europy.</i> Warszawa: Krąg; Volumen (Original work published 1993).
	Berg, N. (2013). Citizens as sensors: Our cities are talking, and were talking back. In S. Mathis & J. Cary (Eds.), <i>TED Books. City 2.0: The Habitat of the Future and How to Get There</i> (423463). Ted Conferences.
	Braess, D. (2005). On a Paradox of Traffic Planning. <i>Transportation Science</i> , 39(4), 446450. https://doi.org/10.1287/trsc.1050.0127
	City of Vancouver (2023, February 26). Urban planning, sustainable zoning, and development. Retrieved from https://vancouver.ca/home-property-development/planning-zoning-development.aspx
	Downs, A. (2004). <i>Still stuck in traffic: Coping with peak-hour traffic congestion</i> (Rev. ed.). <i>James A. Johnson Metro Series</i> . Washington, D.C., Great Britain: Brookings Institution (Original work published 1992).
	Economic Commission for Europe, Inland Transport Committee, Working Party on Road Traffic Safety (2016). <i>Automated driving</i> (Convention on Road Traffic (1968) No. Item 3 (c) of the provisional agenda). Geneva.
	Gore, A., Jr. (2013). <i>The Future: Six Drivers of Global Change</i> (First Edition). New York: Random House.
	Greenfield, A. (2015, November). <i>Transforming Cities: Implications for an Urban Age.</i> MIT Media Lab. Disrupting Mobility Summit, Media Lab Building, Cambridge, MA. Retrieved from https://youtu.be/ 3oWjmQ0YU9I?list=PLFPx70Od9XB71TyGyWw-MwR-s6fAsKRI0
	Heck, S., & Rogers, M. (2014). <i>Resource Revolution: How to Capture the Biggest Business Opportunity in a Century</i> (Kindle). Seattle: Amazon Publishing.
	Jałowiecki, B., & Szczepański, M. S. (2006). <i>Miasto i przestrzeń w perspektywie socjologicznej</i> (2 (revisited)). <i>Wykłady z socjologii: Vol. 4.</i> Warszawa: Wydawnictwo Naukowe Scholar.
	Jevons, W. S. (1866). <i>The Coal Question: An Inquiry Concerning the Progress of the Nation, and the Probable Exhaustion of Our Coal-Mines</i> . London: Macmillan and Co. (Original work published 1865). Retrieved from http://lf-oll.s3.amazonaws.com/titles/317/0546_Bk.pdf
	La Peña, B. d. (2013). The autocatalytic city Bottom-up growth, driven by citizens, trumps central command. In S. Mathis & J. Cary (Eds.), <i>TED Books. City 2.0: The Habitat of the Future and How to Get There</i> (pp. 9971105). Ted Conferences.
	Leeming, J. J. (2007). Road accidents: Prevent or punish?
20.54	Strona 3 z 5

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Monroe, E. B. (2001). Civil Engineering [Entry]: Bridges and Tunels [Subentry]. In P. Finkelman (Ed.), <i>Encyclopedia of the United States in</i> <i>the nineteenth century</i> (pp. 222228). New York: Charles Scribner's Sons.
Mumford, L. (1956). Restored Circulation, Renewed Life. In A Harvest book: Vol. 13. From the ground up: Observations on contemporary architecture, housing, highway building, and civic design (pp. 219229). New York: Harcourt, Brace, and Company (Original work published 1947).
Mumford, L. (1961). <i>The city in history: Its origins, its transformations, and its prospects. A Harvest/HBJ book.</i> New York: Harcourt Brace Jovanovich.
Mumford, L. (2010). <i>Technics and civilization</i> . Chicago: University of Chicago Press (Original work published 1934).
Nash, B. (2005). <i>Car Tech of the Future</i> . History Channel: Cambou, Don. Retrieved from https://www.youtube.com/watch?v=IZZGpMjJr4A
OECD (2007). <i>Glossary of statistical terms</i> . Retrieved from https:// stats.oecd.org/glossary/index.htm
O'Toole, R. (2011). Using Markets to Enhance Mobility. In J. Kuznicki (Ed.), Cato Unbound. There Ain't No Such Thing as Free Parking (Cato Unbound Book 42011) (331399). Cato Institute.
PÅlsson, K. (2023). <i>Urban block cities: 10 Design Principles for Contemporary Planning</i> . Berlin: DOM publishers.
Papandreou, T. (2015, November). <i>Mobility and the Sharing Economy.</i> MIT Media Lab. Disrupting Mobility Summit, Media Lab Building, Cambridge, MA. Retrieved from https://youtu.be/pZZyYMMBNHs? list=PLFPx70Od9XB71TyGyWw-MwR-s6fAsKRI0
Peltzman, S. (1975, August). The Effects of Automobile Safety Regulation. <i>Journal of Political Economy</i> , <i>83</i> (4), 677726. Retrieved from http://www.jstor.org/stable/1830396
Poradnik projektowania uniwersalnego, <i>Zbiór zarządzeń Prezydenta Miasta Gdańska</i> (2021).
Reichard, D. A. (2001). Cities and Urbanization. In P. Finkelman (Ed.), Encyclopedia of the United States in the nineteenth century (pp. 209217). New York: Charles Scribner's Sons.
Sadik-Khan, J. (2015, November). <i>Transforming Cities: Implications for an Urban Age</i> . MIT Media Lab. Disrupting Mobility Summit, Media Lab Building, Cambridge, MA. Retrieved from https://youtu.be/ 3oWjmQ0YU9I?list=PLFPx70Od9XB71TyGyWw-MwR-s6fAsKRI0
Salomon, A. (2018). Ekonomiczne i pozaekonomiczne determinanty działalności transportowej: Wykład 02. Ekonomika transportu, Gdynia. Retrieved from http://www.akademor.webd.pl/download/ET_w02.pdf

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	example questions/	 Exemplary examples of metropolita Methods of traffic calming (Woonerf, of road flyovers - examples from aro Bikesharing, carsharing and rideshar 	Ustawa z dnia 19 lipca 2019 r. o zapewnieniu dostępności osobom ze szczególnymi potrzebami, <i>Dz.U.</i> (2019). Smolnicki, P. M. (2017). Mobility Oriented Development (MOD): Public- Private Partnership in Urban Parking & Traffic Management with the Use of Autonomous Automobiles, Car-sharing, Ridesharing Modes of Transport & Mobility as a Service (MaaS). In P. Golinska (Series Ed.) & A. Brdulak & H. Brdulak (Vol. Eds.), <i>EcoProduction: Environmental Issues in Logistics and Manufacturing. Happy City: How to plan and create the best livable area for the people</i> (1st ed., pp. 207220). Springer International Publishing. https://doi.org/ 10.1007/978-3-319-49899-7_12 Solnit, R. (2001). <i>Wanderlust: A history of walking. Always Learning.</i> London: Penguin Books. Sterling, B. (2014). <i>The Epic Struggle of the Internet of Things</i> : Strelka Press. Thomson, J. W. (1972). <i>Methods of Traffic Limitation in Urban Areas</i> (No. No. 3 Work Paper). Thoreau, H. D. (1985). Walden; or Life in the Woods. In R. F. Sayre (Ed.), <i>The Library of America Series: Vol. 28. A Week, Walden, The Maine Woods, Cape Cod</i> (6th ed., pp. 321587). New York: The Library of America Series: Vol. 28. A Week, Walden, <i>The Maine Woods, Cape Cod</i> (6th ed., pp. 321587). New York: The Library of America Series: Vol. 28. A Week, Walden, <i>The Maine Woods, Cape Cod</i> (6th ed., pp. 321587). New York: The Library of America Series: Vol. 28. A Week, Walden, <i>The Maine Woods, Cape Cod</i> (6th ed., pp. 321587). New York: The Library of America (Original work published 1854). Wysocki, M. (2015). <i>Przestrzeń publiczna przyjazna seniorom. Poradnik RPO</i> . Warszawa: Biuro Rzecznika Praw Obywatelskich. Adresy na platformie eNauczanie:	
work placement Not applicable				
	Work placement	Not applicable		

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