University of Gdańsk

Subject card

Subject name and code	Infrastructure sector law - auditorium classes, PG_00198047						
Field of study	Administration						
Date of commencement of studies	October 2026		Academic year of realisation of subject	2026/2027			
Education level	Master's studies		Subject group	Obligatory subject group in the field of study Subject group related to scientific research in the field of study			
Mode of study	full-time studies		Mode of delivery	at the university			
Year of study	1		Language of instruction	Polish			
Semester of study	2		ECTS credits	1.0			
Learning profile	academic		Assessment form	credit			
Conducting unit	Department of Public Economic Law and Environmental Protection Law -> Faculty of Law and Administration -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Justyna Przedańska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	15.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						

Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
	Number of study hours	15	2.0	8.0	25

Subject objectives	The aim of the course is to provide an advanced analysis of the regulation of infrastructure sectors in the context of the digital transformation of public administration, with particular emphasis on the role of data, digital tools, and new forms of communication between regulators, market actors, and users of public services. The course aims to develop the ability to critically assess regulatory instruments and apply them in a changing technological environment, including in the context of e-government, the platformisation of services, and the automation of decision-making processes.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[ADMINMU2_U02] at an advanced level, is able to communicate on issues related to legal and organizational problems in their professional work—both orally and in writing—and are capable of formulating clear and understandable messages for both specialists and non-specialists in the field of administration.	The student, at an advanced level, is able to communicate issues related to the regulation of infrastructure sectors, including legal and organisational problems arising from the digital transformation of public administration, both orally and in writing, and is capable of formulating clear and accessible messages tailored to different audiences, including non-specialists.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report [SU4] test/exam - oral or written [SU6] demonstration of practical skills [SU8] observation of student's independent or team work
[ADMINMU2_U01] using their own knowledge and other sources of information, is able to identify, analyze, and resolve complex problems, formulate their own theses, and interpret phenomena related to the organization and functioning of public administration as well as selected domains of social and economic life, particularly those characteristic of the state and the information society.	The student, using their own knowledge and a range of information sources, including data and materials published by regulatory authorities, is able to identify, analyse, and resolve complex regulatory problems in infrastructure sectors, formulate independent arguments, and interpret phenomena related to the functioning of public administration and the economy, particularly in the context of digital transformation and the development of the information society.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report [SU3] text preparation/written work [SU5] implementation of a problem task [SU6] demonstration of practical skills [SU8] observation of student's independent or team work
[ADMINMU2_W02] at an advanced level, identifies and understands the legal and administrative determinants of various forms of social and economic life, including those characteristic of the state and the information society, as well as issues relating to different aspects of the application of new technologies.	The student, at an advanced level, identifies and understands the legal and administrative determinants of the functioning of infrastructure sectors, in particular in the context of digital transformation, the use of data, and the application of new technologies within the state and the information society.	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report [SW5] implementation of a problem task

Subject contents

The tutorials are problem-based and practical in nature, aimed at developing students ability to analyse and apply regulatory instruments in infrastructure sectors in the context of digital transformation. The classes are based on case study analysis, work with data, and simulations of decision-making processes.

During the course, students analyse selected regulatory cases in infrastructure sectors (in particular energy, transport, and telecommunications), with a focus on the impact of digitalisation on the functioning of regulatory authorities and market actors. Examples include the use of digital tools such as reporting systems, market monitoring, and data-driven solutions.

An important element of the course is working with source materials, including reports and data published by regulatory authorities. Students learn to identify regulatory problems, interpret data, and formulate conclusions regarding market functioning and the effectiveness of regulatory instruments.

The tutorials also include simulations of decision-making processes, in which students assume the role of a regulatory authority and make decisions concerning issues such as tariff setting, access to infrastructure, and resolving conflicts between public interest and business interests.

The course further addresses contemporary regulatory challenges related to digitalisation, including automated administrative decision-making, the use of algorithms, and the operation of digital platforms. Students critically assess these developments from a legal and public administration perspective.

The tutorials conclude with the preparation of a short case study analysis or project, involving the proposal of a solution to a selected regulatory problem, taking into account legal, technological, and social considerations.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
case study analysis / project	51.0%	30.0%
class participation and activity	0.0%	10.0%
written assessment (problem-based questions	51.0%	60.0%

<table>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>M. Król-Bogomilska (red.), Regulacja sektorowa. Instytucje i instrumenty, Wolters Kluwer, Warszawa 2024
M.M. Zalcewicz, Regulacja działalności gospodarczej. Wybrane problemy prawne, C.H. Beck, Warszawa 2022</td></tr>
<tr><td>Supplementary literature</td><td>Energy Regulatory Office (URE), National Reports (Energy Market in Poland), available at: https://www.ure.gov.pl/en/about-us/reports/67,Reports.html</td></tr>
<tr><td>eResources addresses</td><td>Basic
https://commission.europa.eu/system/files/2020-02/communication-shaping-europes-digital-future-feb2020_en_4.pdf - European Commission, Shaping Europe’s Digital Future, 2020</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">1. The nature and scope of infrastructure sector regulation in the context of the digital transformation of public administration.
2. The role of data as a regulatory resource and its significance for regulatory authorities.
3. Ex ante and ex post regulatory models in the context of dynamic infrastructure and digital markets.
4. The impact of digitalisation on regulatory authorities and on relationships between regulators, market actors, and users of public services.
5. Analysis of a selected infrastructure sector (energy, transport, telecommunications, water and wastewater management) in the context of digitalisation processes.
6. Automated administrative decision-making opportunities, legal limits, and risks.
7. The importance of interoperability of information systems for effective regulation.
8. Contemporary regulatory challenges: energy transition, digital platforms, and cybersecurity of infrastructure.

Tasks:

1. Case study analysis of a regulatory decision (e.g. tariffs, access to infrastructure).
2. Interpretation of data or reports published by regulatory authorities.
3. Simulation of a decision-making process from the perspective of a regulatory authority.
4. Development of a proposal to address a selected regulatory problem.</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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