

## MODULE INFORMATION SHEET

<b>Name of Module Unit</b>	<b>Environmental protection management in urban areas</b>
Name in polish language	Zarządzanie ochroną środowiska w aglomeracji miejskiej
Module type	Elective
Form of studying	full-time day courses
Level of study	undergraduate course (B.Sc. level)
Type of study ( for extra-mural courses)	-
Programme	Environmental Engineering
Speciality	Environmental Engineering
Responsible department	Dep. of Informatics and Environment Quality Research
Responsible person	Artur Badyda, PhD, D.Sc.

Semester	Lectures(E)	Tutorials	Laboratory	Computer Exercises	Projects	ECTS
6	15				30	3

### Learning outcomes (knowledge, skills, competencies)

The aim of the course is to provide knowledge on the specifics of environmental management in large urban areas and industrialized areas. Part of the lecture will also be devoted to environmental management in local government units. There will be presented issues related to the conduct of investment processes in the administration of cities and local units, in the context of the limitations associated with the management of environmental resources, the use of space, the impact on the natural and social environment.

The lecture is dedicated for future employees of units carrying out tasks in the field of environmental protection, administration units, especially local government. It will also be useful for investors implementing large projects in the cities. Knowledge about proper management and environmental protection in investments will enable planners, officials, policy makers, investors the use of optimal solutions to the needs and direction of urban development.

### Prerequisites

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### Rules for integrated grade setting

0,5\*test + 0,5\*project

### Recommended readings

Literature will be specified later.

## Contents of lectures (syllabus)

	Topics	Time (hrs.)	Scope (S / Ex)
1	<b>Environmental management in cities</b> – an introduction to the topic, general guidelines, funding, environmental protection programs, investments and development of municipal, industrial and urban transport infrastructure, environmental impact assessment process of urban development.	3	S
2	<b>Information about the environment</b> – how to obtain information about the environment, environmental quality monitoring systems in cities, permits, decisions, concessions, a database of permits and decisions, registers.	2	S
3	<b>Waste management</b> – legal status, problems of waste management in urban areas, waste management systems, waste management programs, rationalization of waste management.	3	S
4	<b>Air protection</b> – legal regulations, sources of air pollutants emissions in urban areas, protection against pollution, the problem of traffic-related air pollution.	3	S
5	<b>Protection against noise</b> – noise emissions, traffic noise.	2	S
6	<b>Management of urban green areas.</b>	2	S
<b>Total</b>		<b>15</b>	<b>hours</b>

S – topics listed in the legal study programme standards from 12.07.2007

Ex – extended topics

### Lecturers

Artur Badyda, PhD, D.Sc.

### Assessment method

Test

## Contents of guided projects

	Topics	Time (hrs.)	Scope (S / Ex)
1	Introduction, overview of your schedule, choice of the subject of projects	4	S
2	Implementation of projects based on the analysis of the current situation and proposals for improving environmental management in selected urban agglomeration, selected area of activities of cities, local administration units or in the investment process in the city / municipality.	22	S
3	Presentation of the project, discussion	4	S
<b>Total</b>		<b>30</b>	<b>hours</b>

S – topics listed in the legal study programme standards from 12.07.2007

Ex – extended topics

### Persons responsible for guided projects

Artur Badyda, PhD, D.Sc., Dominika Mucha MSc Eng.

### Assessment method for guided projects

Project (written document)