



Land Governance Master programmer

Discipline ***“Sustainable urban land development”***

Responsible university

Kiev National University of
Construction and Architecture

Course is developed by

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Sustainable urban land development

Integrative module

Total ECTS - 4

Is studied in

2st years

3st term

for Technical Universities



Basis for learning

Before study of ***“Sustainable urban land development”*** course

Student have to study:

- ➔ Environmental and Planning Law
 - ➔ Land Governance
 - ➔ Economics
 - ➔ Building Law
- ➔ Urban infrastructure
- ➔ Compulsory purchase for urban areas



Aim and objectives of the course

To acquaint students with world-wide Conception of sustainable development

The course gives overview of the main principles of Sustainable development Concept totally and highlights key points of the indicators of Sustainable urban land development

Also this discipline deals with responsibilities and functions of the different levels of government on Sustainable urban land development (including informal settlements, land privatization, as well as obtaining property rights in the process of urban land development)



Sustainable urban land development

Total hours	Classroom total/ hours	lectures	practice	Exam/ hours	individual student's work	% of class rooms
144	48	32	16	54	42	0,3



Course syllabus

# #	Topic	Number of hours		
		Total	Lecture	Practice
1	Conception of sustainable development, history of the beginnings and evolution	2	2	
2	Principals of sustainable development	2	2	
3	Ukraine's position concerning world-wide Conception of sustainable development	2	2	
4	Indicators which estimate the level of the sustainable development	4	4	
5	Governance authority responsibilities for providing sustainable development	2	2	2



Course syllabus

##	Topic	Number of hours		
		Total	Lecture	Practice
6	Environmental pollution 2, 8 and 5 groups of indicators 2. Local contribution of global climate change (HI – CO ₂ emission per capita) 5. Quality of air (HI – number of PM ₁₀ net overcomings) 8. Noise pollution (HI – percentage of population exposed to L _{night} >55 dB(A))	8	4	4
7	Population mobility 3 group. Local mobility and passenger transportation (HI – percentage of trip by motorized private transport)	4	2	2



Course syllabus

##	Topic	Number of hours		
		Total	Lecture	Practice
8	Public open areas	4	2	2
9	Historical and cultural heritage			
10	Sustainable land use (HI –percentage of protected area)	8	4	4
11	Property rights parity and democratization		2	2



Course syllabus

##	Topic	Number of hours		
		Total	Lecture	Practice
12	Reasons and Sources of environmental pollution and living conditions worsening	4	2	2
13	The top priorities to provide of sustainable development	4	2	2
	Total	48	32	16



Structure of the lectures

Topic #1– “Conception of sustainable development, history of the beginnings and evolution ” 4 hours

What sustainable development is. Why idea of promoting on the sustainable development was born. The confluence of three constituent parts of sustainable development (social, environmental, economy). Concepts of sustainable development and the connection between ecology, economy, and technology. The top priorities to provide of sustainable development.

Topic #2 “Ukraine’s position concerning world-wide Conception of sustainable development” 2 hours

Ukraine as the participant of “ХАБИТАТ-II” conference 1996. Official position to sustainable development in Ukraine and reality. The main point of Conception of cities sustainable development in Ukraine.



Structure of the lectures

Topic # 3 “Principals of sustainable development” - 2 hours

***Entitlement dwelling, entitlement clean nature environment.
Optimal conditions for economy development, optimization of
residence conditions, effective nature resources use, Increasing
of democratization etc/***

Topic # 4 “Indicators which estimate the level of the sustainable development” 2 hours

What indicator is. History of the development and evolution of the
Indicators from the beginnings to present day. The main 10 groups of
Indicators according to Report OOH 2001





Topic # 5 “Governance authority responsibilities for providing sustainable development” 2 hours

The tasks of sustainable development at state, regional and local level and governance authorities responsibilities.

1 group of indicators “Citizens’ satisfaction with the local community” (HI– average satisfaction with the local community)



Structure of the lectures

Topic # 6 “Environment protection and pollution ”

6 hours

Nature, anthropogenic and cultural environment.

Environment quality indexes. Pollution sources and methods of protection.

2, 5 and 8 groups of indicators

2. Local contribution of global climate change (HI – CO₂ emission per capita)

5. Quality of air (HI – number of PM₁₀ net overcomings)

8. Noise pollution (HI – percentage of population exposed to **L_{night} >55 dB(A)**)



Structure of the lectures

Topic # 7 “Population mobility”

4 hours

The role of population mobility in sustainable development of society.
Migration, work trips, consumer services trips, sightseeing trips etc.
Transportation system.

3 group. Local mobility and passenger transportation (HI – percentage of trip by motorized private transport)

Topic # 8 “Public open areas ”

2 hours

Green areas, nature reserve. Their state and accessibility.

7 group. Availability of local public open areas and services (HI – percentage of citizens living within 300 m from public open areas >5000m²)





Topic # 9 “Historical and cultural heritage” **2 hours**

Status, Sate and accessibility Historical heritage

Status, Sate and accessibility Cultural heritage



Structure of the lectures

**Topic # 10 "Sustainable land use (HI –percentage of protected area)
8 hours**

land use (industry, dwelling, green areas, etc)
Legal and illegal land use
Violation land and urban legislation

"9 group.

Indicators:

Intensity of use (Density of population per/ m²)

% of built-up area (in administrative boundaries)

Neglected area, pollution area (m²)

New building up (% per year)
on green area

On pollution area

On Neglected area

Reconstruction urban area

Disturbed, old building and uncompleted (m²)

Land use change of Neglected area for public aims (m²)

Purifying of pollution area (m²)





Topic # 11 “Property rights parity and democratization” 2hours

- Possibilities to get private property for
Different land use
female/ male
- Openness and democratization procedure of getting private property
- Protection of property right



Structure of the lectures

Topic # 12 “Reasons and Sources of environmental pollution and living conditions worsening” 2 hours

Dynamic – (transport)

Static (Industry)

⇒ **technologies**

Deficit of territory

Imperfect land governance

Etc.



Structure of the lectures

Topic # 13 “The top priorities to provide of sustainable development” ***2 hours***

International and national pot priorities, expirience and ways of overcoming negative effect



Exercises

Main tasks

To analyze different conditions of development of urban area which is specified by teacher

To appreciate the indexes for some characteristics of sustainable development

To make conclusion

To propose ways for improvement



List of literature

Indicators of Sustainable development. Framework and Methodologies. -United Nations.- New York, 1996. – 428 p.

Harvey J. Urban land Economics. Fifth edition.- London, 2000. - 436 p.

Larsson G. Land management. Public police, control and participation. -Stockholm, 1997. – 232 p.

Most of the literature is downloadable from the Internet





Thanks for you attention

Questions?

