



## KHARKIVSKA STATE ACADEMY DESIGN AND OF ARTS

Faculty	Design of Environment	Level of higher education	The 2 <sup>nd</sup> (educationally-professional)
Chair	Design of Environment	Year of study	The 1 <sup>st</sup>
Branch of knowledge	02 Culture and Art	Type of discipline	normative
Specialty	022 Design	Semesters	The 1 <sup>st</sup>

**THEORY AND METHODOLOGY OF LANDSCAPE DESIGN*****OPP The Design of Architectural and Landscape Environment***Semester the 1<sup>st</sup> (autumn 2023)

<b>Teacher</b>	Khororian Natalia Petrivna, PhD, assistance professor of the department of "Architecture" in KSADA	
<b>E- mail</b>	<a href="mailto:khororian.natalia@ksada.org">khororian.natalia@ksada.org</a>	
<b>Occupation</b>	According to the schedule	
<b>Consultations</b>	By prior arrangement	
<b>Address</b>	61002, Kharkiv, The Fine arts str., 8, corps 2, floor 3, auditorium no.303	
<b>Phone</b>	057 706-02-46 chair of "Architecture"	

**COMMUNICATION WITH THE TEACHER**

Outside of classes, the official channel of communication with the teacher is e-mail (answers only on working days until 18:00). Terms of correspondence:

1) the name of the discipline must be specified in the *subject* of the letter; in the field of the text of the letter you have to indicate the full name of the applying student (anonymous letters are not considered);

2) files should be signed as follows: *last name of the student\_No|name of task*. Extensions: *text — doc, docx, illustrations — jpeg, pdf*.

In addition to printouts for offline classroom classes, students works for border control must be sent to the Class-Room. Discussions of disciplinary issues are not permitted in the corridors of the Academy. Consultations with the teacher take place within the walls of the Academy (offline) on certain days and hours or by e-mail (online).

**PREREQUISITES STUDY of the DISCIPLINE**

A prerequisite for studying the discipline "Theory and Methodology of Landscape Design" (TMLD) is a certain amount of knowledge on the history of garden and park art, history of arts, etc. A sufficient level of knowledge and competence in the basics of composition and shape creation, as well as the availability of practical skills in the field of course or real design, is mandatory.

**LINK ON MATERIALS**

Additional educational and informational materials, including landscape project developments, data about the authors, schools of garden and park art, and so on others are provided in lecture materials. Own and additional educational materials, search sketches, etc. can be offered to be viewed in the classroom or by email [khororian.natalia@ksada.org](mailto:khororian.natalia@ksada.org)

## **NECESSARY EQUIPMENT for the DISCIPLINE**

A mandatory condition for a student is compilations of the synopsis of lectures (in a notebook or in electronic form). When attending lectures, the student must have a notebook (notebook) and a pen for taking notes.

To perform tasks, you will also need computer equipment (laptop, tablet, etc.) with Internet access; paper for sketching and modeling, pencils, watercolor paints.

Programs required to perform the tasks: Microsoft Word, Corel Draw, Photoshop, or other graphic programs that the student has sufficiently mastered.

## **GOAL AND TASKS of the DISCIPLINE**

The course "Theory and Methodology of Landscape Design" is intended for the theoretical training of a specialist in the field of design. It makes it possible to get acquainted with historical styles in landscape architecture and project solutions, to expand professional skills in building composite diagrams of landscape architecture objects, including geoplastics, water devices, small architectural forms, artificial lighting and dendrological components, with the aim of further independent solution relevant tasks of the discipline "Theory and technique of landscape design".

The main goal of the discipline is for students to master a complex of knowledge and skills in designing objects of landscape architecture, the basics of dendrology and geodesy, assimilation of modern approaches to the study of the psychology of perception of the landscape environment.

### **Tasks of the discipline:**

- To acquaint students with the main stages of the history of garden and park art;
- To acquaint students with modern trends and methods of landscape design;
- To acquaint students with the basics of dendrology, types and species of plants and their morphological features;
- Learn to identify the structures and characteristics of the environment that affect the formation of the image of a landscape object;
- To master the modern principles of formation of landscape compositions depending on the project task.

## **COMPETENCES OF STUDENTS THAT SHOULD BE FORMED AS A RESULT OF LEARNING THE DISCIPLINE**

### **Integral competence:**

The ability to solve complex tasks and problems in the field of design or in the learning process, which involves conducting research and/or implementing innovations and is characterized by the uncertainty of conditions and requirements [Standard of higher education of Ukraine in the specialty "Design " for the second (master's) level of higher education ] Electronic resource. Access mode: <http://osvita.ua/master/spec-master/63144/>

<b>General Competence (GC):</b>	<b>Program Learning Outcomes (PLO)</b>
<p><b>GC 1.</b> The ability to generate new ideas (creativity).  <b>GC 2.</b> Ability to identify, pose and solve problems.  <b>GC 5.</b> Ability to develop and manage projects.  <b>GC 6.</b> The ability to act socially responsibly and consciously.  <b>GC 7.</b> The ability to abstract thinking, analysis and synthesis.</p>	<p><b>PLO 1.</b> Generate ideas for the development of creative design proposals, build a high-quality and extensive communication system, apply the basic concepts of visual communication in the artistic and cultural spheres.  <b>PLO 2.</b> Develop a scientifically based concept for solving a professional problem.</p>
<p><b>Professional Competencies (PC)</b></p> <p><b>PC 1.</b> The ability to carry out conceptual design of design objects taking into account functional, technical, technological, environmental and aesthetic requirements (according to specialization).  <b>PC 2.</b> The ability to conduct a project analysis of all influential factors and design components and the formation of the author's concept of the project.  <b>PC 3.</b> The ability to understand and use cause-and-effect relationships in the development of design and modern arts.  <b>PC 4.</b> The ability to ensure the protection of intellectual property for works of fine art and design.  <b>PC 5.</b> Possession of theoretical and methodical principles of training and integrated approaches to the professional training of designers; planning one's own scientific and pedagogical activities.</p>	<p><b>PLO 4.</b> To represent the results of activities in the scientific and professional environment in Ukraine and beyond.  <b>PLO 5.</b> Develop, shape and control the main stages of project implementation.  <b>PLO 6.</b> Form project components within project concepts; to possess artistic methods and artistic forms of social responsibility.  <b>PLO 9.</b> Apply the conceptual design method and carry out the design process taking into account modern technologies and constructive solutions, as well as functional and aesthetic requirements for the object of design.  <b>PLO 10.</b> Critically study the artistic and project work of Ukrainian and foreign specialists, apply modern methods and technologies of scientific analysis for the formation of the author's concept, the search for the Ukrainian national style.</p>

### **DESCRIPTION AND STRUCTURE of the DISCIPLINE**

Students get acquainted with historical features and modern trends in the design of objects of landscape architecture, features of compositional solutions, the influence of dendrological and botanical components on its creation, modern processing materials. The teaching method involves a course of lectures accompanied by video materials, as well as the simultaneous implementation of practical tasks in order to consolidate the material.

The discipline is studied during the first semester of the 1st (3 ECTS credits in accordance with the European Credit Transfer System (ECTS) at the choice of the higher education institution, studied in the amount of 90 educational hours, including 20 hours - lectures, 10 hours - practical classes, 60 hours - independent work). In total, the course has 2 modules and 14 topics.

## **MODULE 1. HISTORY OF GARDEN AND PARK ART, FUNDAMENTALS OF DENDROLOGY AND GEODESY**

### **Content module 1.1. History of garden and park art.**

**Topic 1.** "Gardens of ancient Egypt, Babylon, ancient Greece, Moorish Spain, gardens of the Middle Ages." Get acquainted with the history of the formation of private gardens of the ancient world, public gardens of ancient Greece, ancient Roman villas and gardens of the Middle Ages using the example of monastic and "botanical" gardens. Contains a description of the main planning and volume-spatial solutions and the main stylistic features.

**Topic 2.** "Gardens of Italian Renaissance villas, regular parks of French classicism." Contains a description of the peculiarities of the influence of symbolic and ideological contents on the formation of stylistic concepts in garden and park art. Contains a description of the main planning and volume-spatial solutions and the main stylistic features.

**Topic 3.** "Landscape English parks, European gardens of the era of modernism." It contains a description of the features of the influence of the ideas of European liberalism on the formation of landscape park concepts, the emergence of the romantic style in the garden and park art of Europe at the end of the 19th century. A description of the main planning and volume-spatial solutions and the main stylistic features is provided. Modern trends in greening urban public spaces. Vertical greening of facades, roof gardens, urban gardens. "Contains a description of the current state and place of landscape architecture in shaping the image of the surrounding environment.

### **Content module 1.2. The basics of dendrology and geodesy**

**Topic 4.** The concept of kinematics of movement and slope. Work with the water level. Formation of geoplastics of the relief (fences, paths, stairs, ramps, retaining walls, terraces). *Contains information on the use of geodetic surveys, methods of fixing the angle of inclination of the relief, methods of forming the relief.*

#### **Students write an essay on the topic "Analysis of landscape architecture monuments".**

The student chooses an object of landscape architecture. The text of the essay should include information about the architect who created this object, a historical reference should be made regarding the creation of a landscape object. The essay must contain a plan of the landmark landscape design; the student performs a composite analysis of the planning structure of the plan, and also, if available, provides information about the current state of the object and its impact on the culture of the region.

The format of the page is 30x40 cm (format A3); the minimum volume is 8 pages.

**Topic 5.** Methods of forming spaces using paths, stairs, ramps, retaining walls, terraces.

**Topic 6.** The main types of green vegetation, conifers and deciduous species, frost resistance, light- and shade-loving plants, hygrophytes, xerophytes and mesophytes. Soil requirements of plants, life span of plants, duration of flowering. Classification of plants and conditions that ensure their long-term decorativeness.

**Topic 7.** Morphological features of plants: the shape of the crown, the texture of the crown, the color options of the leaves, the nature of flowering". Description of the morphological characteristics of woody plants and their requirements for site conditions.

**Topic 8.** Compositional principles of building spaces in the landscape, formation of borders, green fences, schemes of formation of landscape groups. Description of the main compositional characteristics of space. Concept of axis, dynamic symmetry, compositional emphasis, scale of space, composition of schemes and dual pairs: unity and diversity, contrast and nuance; color, angle of vision and perception; light and shadow, linear and aerial perspective. Concepts of "space boundaries", "scale", "compositional emphasis", "dominants", "groups", examples of the use of these characteristics in the formation of the landscape.

## MODULE 2. DESIGNING IN LANDSCAPE DESIGN

### Content module 2.1 Basics of landscape design in urban environment

**Topic 9.** The order of analysis of the design area". Description of the main elements of the spatial environment (landscape) and the sequence of actions in the development of the image formation of the object depending on the specific features of the environment.

**Topic 10.** Peculiarities of design in conditions of flat and complex terrain. Description of objective natural conditions, options for compositional solutions depending on the given image and the sequence of development of the planning concept. Selection of a design area for creating a landscape group.

**Topic 11.** Peculiarities of design in the urban and natural environment. Description of the psychological factors of the comfort of the residential community, options for compositional solutions depending on the given image and the sequence of development of the planning concept. Visual aspects of the composition of the plan. Contains a description of planning, volumetric and spatial parameters and compositional techniques that affect the visual perception of the object. Analysis of the design area, selection and analysis of analogues.

**Topic 12.** Carrying out photo fixation and measurements of the design area in the urban environment. *Closure on the concept of space solution* and on the display of the nature of landscape groups in project graphics. Format – A3.

**Topic 13.** Development of a planning decision of the landscape group, dendroplan and street scan (facade).

**Topic 14.** Development of a planning decision of the landscape group, dendroplan and street scan (facade).

#### The composition of the project:

- 1) dendroplane (M:100) with explication,
- 2) street scan (facade) (1:100),
- 3) information of gardener material,
- 4) three-dimensional visualizations
- 5) presentation of the project on format A2 (A1, depends on the exposure volume)

#### FORMAT of SEMESTER CONTROL

The form of control is an exam. To get an exam grade, it is enough to pass the border stages of control in the form of current checks of the processes of practical and independent work. For those students who wish to improve their results, written works on the preparation of theses for conferences on selected topics of the discipline are provided (5 points).

#### TEACHER'S RULES

**Disciplinary and organizational responsibility.** The teacher is responsible for coordinating the class process, as well as creating an atmosphere conducive to open discussion with students and searching for necessary questions in the discipline. The teacher should pay special attention to the achievement of the program results of learning the discipline. If necessary, the teacher has the right to update the content of the educational discipline based on innovative achievements and modern practices in the relevant field, about which he must warn students. Personal views of the teacher on certain issues should not be an obstacle for students to implement the learning process. The teacher must create safe and comfortable conditions for the implementation of the learning process for persons with special health needs (within the designated audience).

**Interpersonal responsibility.** In the event of a business trip, illness, etc., the teacher has the right to postpone the class to a free day upon prior agreement with the management and students.

#### STUDENT'S RULES

During classes, the student must turn off the sound of mobile phones. If necessary, he/she has the

right to leave the classroom (except for a test or an exam). The student's own opinion on the topic of the class, which is based on arguments and evidence collected during practical or independent classes, is welcome.

### ATTENDANCE POLICY

Absences of classes by students without valid reasons are not allowed (the reasons for the absence must be confirmed by the necessary documents or a teacher's warning). Lateness to class is not welcome. If a student is absent from classes for any good reason, it is assumed that the topic of the discipline should be worked out independently "Theory and technique of landscape design", which was lost during the omission.

### ACADEMIC HONESTY

Students are obliged to observe the rules of academic integrity (in their reports, in the conceptual decision of the project proposal, etc.). No form of violation academic integrity is not tolerated. If a student is absent during the border control, he loses the right to receive points for the project. The next step of border control is obtaining a permit with the specified date of project handover.

#### Useful links :

<https://zakonodavstvo.com/zakon-ukrajiny/stattya-akademichna-dobrochesnist-325783.html>;

<https://saiup.org.ua/novyny/akademichna-dobrochesnist-shho-v-uchniv-ta-studentiv-na-dumtsi/>.

### COURSE SCHEDULE

Date	Topic	Kind of classes	Content	Hour	Border control	Details
<b>MODULE 1. HISTORY OF GARDEN AND PARK ART, FUNDAMENTALS OF DENDROLOGY AND GEODESY</b>						
<b>Content module 1.1. History of garden and park art.</b>						
The 1 <sup>st</sup> week	1	Lecture / Independent work	Gardens of Ancient Egypt, Babylon, Ancient Greece, Moorish Spain, gardens of Middle Ages. The acquaintance with the history of formation of private gardens in the Ancient World; public gardens of Ancient Greece, Ancient Roman villas and gardens of Middle Ages on examples of monastery and "botanical" gardens. Basic planning and volume-spatial solutions; main stylistic features.	2/4	Reading a lecture	Compilation of the synopsis
The 2 <sup>nd</sup> week	2	Lecture/ Independent work	Gardens of Italian Renaissance villas, regular parks of French classicism. Description of the peculiarities of the influence of symbolic and ideological contents on the formation of stylistic concepts in garden and park art. Planning and volume-spatial solutions and main stylistic features.	2/4	Reading a lecture	Compilation of the synopsis

The 3 <sup>rd</sup> week	3	Lectures / Independent work	<p>Landscape English parks, European gardens of the era of classicism. Peculiarities of influence of ideas</p> <p>European liberalism on the formation of concepts of a landscape park, the birth of a romantic style in the garden and park art of Europe at the end of the 19th century.</p> <p>Basic planning and volume-spatial solutions and main stylistic features.</p> <p>Modern trends in greening urban public spaces. Vertical greening of facades, gardens on the roof, "city garden". The current state and place of landscape architecture in shaping the image of the surrounding environment.</p> <p>Issue of essay topics.</p>	2/4	Reading a lecture	Compilation of the synopsis
<b>Content module 1.2. The basics of dendrology and geodesy</b>						
The 4 <sup>th</sup> week	4	Lectures / Independent work	<p>The concept of kinematics of movement and slope. Work with the water level. Formation of geoplastics of the relief (fences, paths, stairs, ramps, retaining walls, terraces). <i>Contains information on the use of geodetic surveys, methods of fixing the angle of inclination of the relief, methods of forming the relief.</i></p> <p><u>Students write an essay on the topic "<b>Analysis of landscape architecture monuments</b>".</u></p> <p>The student chooses an object of landscape architecture. The text of the essay should include information about the architect who created this object, a historical reference should be made regarding the creation of a landscape object. The essay must contain a plan of the landmark landscape design; the student performs a composite analysis of the planning structure of the plan, and also, if available, provides information about the current state of the object and its impact on the culture of the region.</p> <p>The format of the page is 30x40 cm (format A3); the minimum volume is 8 pages.</p>	2/4	Reading a lecture. Consultations with a teacher by the topic of essay	Compilation of the synopsis. Students prepare research materials and provide them in the classroom

The 5 <sup>th</sup> week	5	Lecture / independent work	Methods of forming spaces using paths, stairs, ramps, retaining walls, terraces.	2/4	Reading a lecture Consultations with the teacher on the topic essay	Compilation of the synopsis. Students prepare research materials and provide them in the classroom.
The 6 <sup>th</sup> week	6	Lectures / Independent work	The main types of green vegetation, conifers and deciduous species, frost resistance, light- and shade-loving plants, hygrophytes, xerophytes and mesophytes. Soil requirements of plants, life span of plants, duration of flowering. Classification of plants and conditions that ensure their long-term decorativeness.	2/4	Reading a lecture. Consultations with a teacher by topic of the essay	Compilation of the synopsis. Students prepare research materials and provide them in the classroom.
The 7 <sup>th</sup> week	7	Lectures / Independent work	Morphological features of plants: the shape of the crown, the texture of the crown, the color options of the leaves, the nature of flowering". Description of the morphological characteristics of woody plants and their requirements for site conditions.	2/4	Reading a lecture. Consultations with a teacher by topic of the essay	Compilation of the synopsis. Students prepare research materials and provide them in the classroom.
The 8 <sup>th</sup> week	8	Lectures / Independent work	Compositional principles of building spaces in the landscape, formation of borders, green fences, schemes of formation of landscape groups. Description of the main compositional characteristics of space. Concept of axis, dynamic symmetry, compositional emphasis, scale of space, composition of schemes and dual pairs: unity and diversity, contrast and nuance; color, angle of vision and perception; light and shadow, linear and aerial perspective. Concepts of "space boundaries", "scale", "compositional emphasis", "dominants", "groups", examples of the use of these characteristics in the formation of the landscape. Presentation of the essay	2/4	Reading a lecture. Consultations with a teacher by topic of the essay	Compilation of the synopsis. Students prepare research materials and provide them in the classroom.

MODULE 2. DESIGNING IN LANDSCAPE DESIGN						
Content module 2.1 Basics of landscape design in urban environment						
The 9 <sup>th</sup> week	9	Lecture / Independent work	The order of analysis of the design area". Description of the main elements of the spatial environment (landscape) and the sequence of actions in the development of the image formation of the object depending on the specific features of the environment.	2/4	Reading a lecture	Compilation of the synopsis.
The 10 <sup>th</sup> week	10	Lectures / Independent work	Peculiarities of design in conditions of flat and complex terrain. Description of objective natural conditions, options for compositional solutions depending on the given image and the sequence of development of the planning concept. Selection of a design area for creating a landscape group.	2/4	Consultation on the topic of the project	Students bring own research sketches and all materials related to the project for class
The 11 <sup>th</sup> week	11	Practical/ independent work	Peculiarities of design in the urban and natural environment. Description of the psychological factors of the comfort of the residential community, options for compositional solutions depending on the given image and the sequence of development of the planning concept. Visual aspects of the composition of the plan. Contains a description of planning, volumetric and spatial parameters and compositional techniques that affect the visual perception of the object. Analysis of the design area, selection and analysis of analogues.	2/4	Consultation on the topic of the project	Students bring own research sketches and all materials related to the project for class
The 12 <sup>th</sup> week	12	Practical/ independent work	Carrying out photo fixation and measurements of the design area in the urban environment.  <i>Closure on the concept of space solution</i> and on the display of the nature of landscape groups in project graphics. Format – A3.	2/4	Consultation on the topic of the project	Students bring own research sketches and all materials related to the project for class
The 13 <sup>th</sup> week	13	Practical/ independent work	Development of a planning decision of the landscape group, dendroplan and street scan (facade).	2/4	Consultation on the topic of the project	Students bring own all drawings & materials of the project for class

The 14 <sup>th</sup> week	14	Practical/ independent work	Development of a planning decision of the landscape group, dendroplan and street scan (facade).	2/4	Consultation on the topic of the project	Students bring own all drawings & materials of the project for class
The 15 <sup>th</sup> week	14	Practical/ independent work	Completion of the landscape group project in the urban environment.  <b>The composition of the project:</b> 1) dendroplane (M:100) with explication; 2) street scan (facade) (1:100); 3) information of gardener material; 4) three-dimensional visualizations; 5) presentation of the project on format A2 <i>(A1, depends on the exposure volume)</i>	2/4	Consultation on the topic of the project	Students bring own all drawings & materials of the project for class

## CRITERIA EVALUATION

	Points		Criteria assessment
	0–20	0–40	
A+	20	40	The student fully mastered the material of the practical and independent course, showed creative thinking when completing tasks, logically substantiated the sequence of performing the necessary tasks, professionally completed all stages of the task, additionally participated in the conference report on the chosen topic.
A	17–19	37–39	The student fully mastered the material of the topic. The graphic presentation is neat, professional, without errors.
A-	16	36	The student fully mastered the material of the topic, the presentation is neat, without gross errors.
B	12–15	32–35	The student has mastered the material of the practical and independent course well, creatively and qualitatively performed all the tasks, but at the same time the work has minor shortcomings.
C	8–11	22–31	In general, the student mastered the material of the practical and independent course well, performed most of it creatively and qualitatively tasks, but the work performed has significant shortcomings.
D	4–7	10–21	The student has mastered the material of the practical and independent course to an insufficient extent, has generally solved the main tasks, but the completed work has significant shortcomings (lack of concept, creative approach, low-quality graphic presentation of the project, etc.).
E	1–3	1–9	The student mastered the material of the practical and independent course to an insufficient extent, solved the main tasks set in general, but the completed work has many significant shortcomings (lack of meaningful analysis of analogs, justification of the concept of the task, errors in the processing of graphic material, late submission of completed work to the exam without a good reason etc).
	0	0	The student has missed border control without a valid reason

**DISTRIBUTION OF POINTS**

Topic	Form reporting	Points
1	Current CONTROL	0-5
2	Current CONTROL	0-5
3	Current CONTROL	0-5
4	Current CONTROL	0-5
5	Current CONTROL	0-5
6	Current CONTROL	0-5
7	Current CONTROL	0-5
8	Current CONTROL	0-10
9	Current CONTROL	0-5
10	Current CONTROL	0-5
11	Current CONTROL	0-5
12	Current CONTROL	0-5
13	Current CONTROL	0-5
14	Current CONTROL	0-10
	Exam	18-20
	<b>Total points</b>	<b>100</b>

**ASSESSMENT SCALE**

Sum points by all species educational activity	Rating ECTS	Rating by national scale
90 – 100	<b>A</b>	is credited
82 – 89	<b>B</b>	
75 – 81	<b>C</b>	
64 – 73	<b>D</b>	
60 – 63	<b>E</b>	
35 – 59	<b>F</b>	not credited with the possibility of retaking the credit
0 – 34	<b>FX</b>	not credited with mandatory repeated study of the discipline

**BONUS SYSTEM**

Additional points are provided for a speech at a conference on the project topic (5 points).

**RECOMMENDED LITERATURE****Basic**

1. Broto, Carles Landscape Architecture A New Point of View <https://www.goodreads.com/book/show/17866216-landscape-architecture>
2. Harris, Charles W., Dines, Nicholas T. Time-saver Standards for Landscape Architecture, second edition. McGraw-Hill Publishing Company, 923 p. <https://ia800509.us.archive.org/23/items/TimeSaverStandardsForLandscapeArchitecture/Time-Saver%20Standards%20for%20Landscape%20Architecture.pdf>
3. European Landscape Architecture: Best Practice in Detailing. Edited by Ian H. Thompson, Torben Dam, Jens Balsby Nielson. First published 2007 by Routledge 2 Park Square, Milton Park, Abingdon, Oxon, OX14 4RN [https://ia800704.us.archive.org/0/items/European\\_Landscape\\_Architecture/European\\_Landscape\\_Architecture.pdf](https://ia800704.us.archive.org/0/items/European_Landscape_Architecture/European_Landscape_Architecture.pdf)
4. Ruskin, John Lectures on Landscape, Delivered at Oxford in Lent Term . 1871. 57 p. [https://manybooks.net/titles/ruskinjo2001920019-8.html?check\\_logged\\_in=1#google\\_vignette](https://manybooks.net/titles/ruskinjo2001920019-8.html?check_logged_in=1#google_vignette)
5. Cantrell, Bradley, Michaels, Wes Digital Drawing for Landscape Architecture. Contemporary Techniques and Tools for Digital Representation in Site Design. John Wiley & Sons, Inc. 2010. 323 p. [https://ia801908.us.archive.org/19/items/Digital\\_Drawing\\_for\\_Landscape\\_Architecture/Digital\\_Drawing\\_for\\_Landscape\\_Architecture.pdf](https://ia801908.us.archive.org/19/items/Digital_Drawing_for_Landscape_Architecture/Digital_Drawing_for_Landscape_Architecture.pdf)
6. Lucas Philips Small garden. . London: FrancesLincoln . 2016. 384 p.
7. Ursula Buchan English garden. London: FrancesLincoln . 2017. 320 p.
8. Summerley, Victoria Secret Gardeners: Britain's Creatives Reveal Their Private Sanctuaries . 2017. 272 p.
9. Shrader, Scott, Romerein, Lisa (Photografer), Deniot, Jean-Louis (Foreword) The Art of Outdoor Living: Gardens for Entertaining Family and Friends . 2019. 240 p.
10. Plumptre, George, Harpur, Marcus, The English Country House Garden . 2018. 208 p.
11. Cranz, Galen The Politics of Park Design: A History of Urban Parks in America . The MIT Press . 1982
12. Blanc, Patric The Vertical Garden . From nature to the city . Revised and updated . New York ; London :WW Norton & Company , 2012: 192 p. 300 pictures URL: <https://www.semanticscholar.org/paper/>
- 13.

**Auxiliary**

1. Tufnell B. Land art. - London: Tate, 2006. - P. 144.
2. Langen S. Outdoor Art: Extraordinary Sculpture Parks and Art in nature. - New York: Prestel, 2015. - 205 p.
3. Langen S. Andrew Rogers. Rhythms of life: a global land art project. - Munich: Prestel, 2016. - 231 p.
4. Grande J.K. Art Nature Dialogues: Interviews with Environmental Artists. - SUNY Press, 2012. - P. 273.
5. Beardsley J., Finn D. A landscape for modern sculpture: Storm King Art Center. - Abbeville Press, 1996. - P. 112.
6. Dempsey A. Destination Art. - University of California Press, 2006. - P. 272.

**Informational resource / Useful links**

1. <https://www.youtube.com/watch?v=0HCiB7o6VLs> (application date 15.10. 2023)
2. <https://www.youtube.com/watch?v=YYowswHxnjc&t=3s> (application date 15.10. 2023)
3. <https://www.youtube.com/watch?v=hTINSoalB-w> (application date 15.10. 2023)
4. <https://www.youtube.com/watch?v=EEv9enWUOWQ> (application date 15.10. 2023)
5. <https://www.youtube.com/watch?v=Vwqj2VTz9Cs> (application date 15.10. 2023)
6. <https://www.youtube.com/watch?v=OsQD3elGlpk> (application date 15.10. 2023)
7. <https://www.youtube.com/watch?v=ZkHd9AtVw0Q> (application date 15.10. 2023)
8. <https://www.youtube.com/watch?v=1PNStFBIBAg> (application date 15.10. 2023)
9. <https://www.youtube.com/watch?v=4-8x8yaENJQ> (application date 15.10. 2023)
10. <http://www.yankodesign.com/2012/01/30/window-gardens/> (date appeal 15.10.2023)
11. Organic Building : URL: <https://inhabitat.com/organic-building-in-osaka-is-clad-with-plant-filled-pockets/> (application date 15.10. 2023)
12. Biological concrete: kak to create green wall in the exterior : URL: <https://www.vahsad.ua/landscape-design/architecture/articles/show/7646/> ( date of application 15.10.2023)
13. Vertical gardens Patrick Form: URL: <https://www.semanticscholar.org/paper/Vertical-Gardens-As-A-Restoration-Component-In-A-Patel-Verma/245605918a914677ead18da7d7446c0400c612dd> (application date 15.10. 2023)
14. <https://livewall.com/> (application date 15.10. 2023)