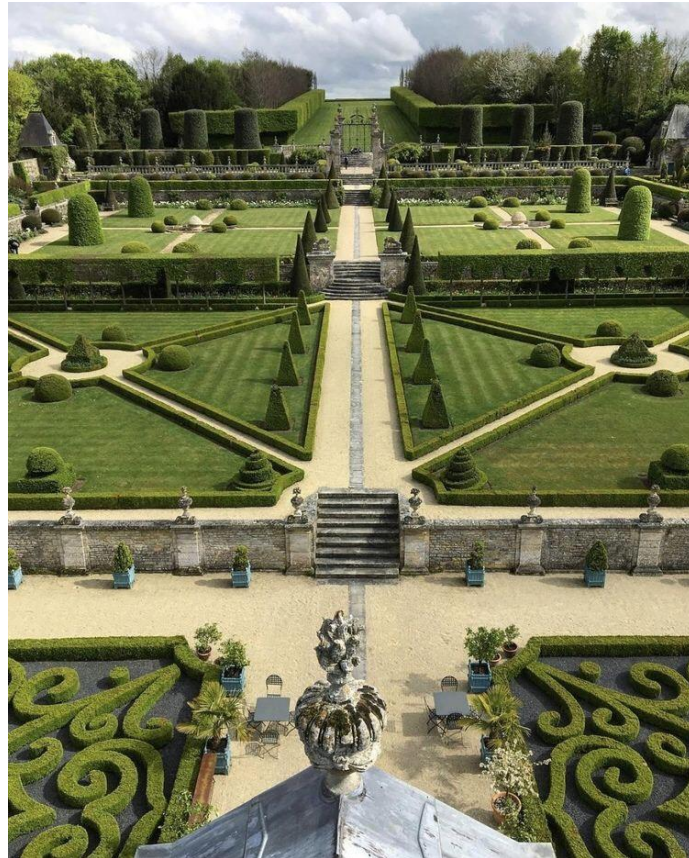


MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL UNIVERSITY
“YURI KONDRATYUK POLTAVA POLYTECHNIC”



Liudmyla SHEVCHENKO

LANDSCAPE ARCHITECTURE

Part_1

Illustrative and informative educational book
for students of the specialty 191 “Architecture and Urban Planning”

Poltava 2023

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Reviewers:

Olena TROSHKINA, Ph.D in Arch., Associate Professor (National Academy of Fine Arts and Architecture);

Andrii DMYTRENKO, Ph.D. in Technical Sciences, Associate Professor (National University “Yuri Kondratyuk Poltava Polytechnic”)

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Liudmyla Shevchenko

Landscape Architecture. Part 1: illustrative and informative educational book. Poltava: National University “Yuri Kondratyuk Poltava Polytechnic”. 2023. 80 p.

Issues of landscape science, the history of garden and park art, urban greening, the basics of composition in landscape architecture, and its ecological aspects are considered in this educational book. It has an illustrative and informative format. Attention is paid to the basics of designing landscape objects. Important are the highlighted issues of the influence of the landscape on the formation of the architectural environment and its aesthetic qualities; composite forms of green spaces; methods of greening functional zones of settlements, greening and beautification of their territories. The presented information is confirmed by numerous examples of landscape objects, garden and park ensembles and complexes.

Illustrative and informative educational book is for students studying in English on the specialty 191 “Architecture and Urban Planning” of the first (bachelor) level of full-time higher education.

Published in author’s edition

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FOREWORD

The proposed illustrative and informative educational book “Landscape Architecture” covers the theoretical issues of content module III of the discipline “Architectural Environment Design (interior, landscape, urban environment)”, which is taught to foreign students of the first (bachelor’s) level of higher education under specialty 191 “Architecture and Urban Planning” of the National University “Yuri Kondratyuk Poltava Polytechnic”.

The development of this educational book is motivated by the pressing need for an assistant to foreign students when studying this discipline in English and the lack of a similar publication at this university.

The presented educational book is the result of the author's many years of experience in teaching theoretical aspects of landscape architecture at National University “Yuri Kondratyuk Poltava Polytechnic”. Despite the presence of similar publications in the world scientific space in both Ukrainian and English languages, this work highlights the author’s own vision of the discipline structure and approaches to its teaching.

During the teaching period (from 2012 to the present), the name of the discipline, its content and scope have been adjusted several times. Starting with the separate discipline “Landscape Architecture”, there were changes in its volume: 2012 (total volume – 2 credits, 60 hours, of which 24 hours are lectures), 2013 (total volume – 3 credits, 90 hours, of which 32 hours are lectures)), 2014-2020 (total amount – 2 credits, 60 hours, of which 22 hours are lectures). But the main questions of the discipline are included by the author in the syllabus, necessary for students.

The author hopes that this publication will contribute to a better assimilation of the material by foreign applicants and will be a real support for them when studying the content module III of the discipline “Architectural Environment Design (interior, landscape, urban environment)”.

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INTRODUCTION

“The further a person departs from a harmonious connection with nature, the more harmful the environment around us becomes”

Richard Neutra

“To intelligently improve a landscape or an area, we must not only understand the essence of its natural character, but also have knowledge that would allow us to develop this essence to the maximum”

John Ormsbee Simonds

Landscape architecture has gone through a significant evolutionary path from its origin in ancient times, to an intense and diverse subsequent period of its development. This is demonstrated in objects of garden and park art, urbanized open spaces and private gardens. During this long period, the relationship between the natural environment and urban areas changed. In one way or another, they persistently displaced each other, as if they were fighting “for a place under the sun”. In certain periods, nature dominated with its unique landscapes and variety of colors. In this case, the architectural objects fit in only delicately, fearing to disturb this natural harmony. And sometimes landscape components “played along” with exquisite architectural ensembles and complexes. Their fragility emphasized their significance and monumentality... Such coexistence, compatible development (or perhaps rivalry, “struggle of opposites”) led to the appearance of a whole series of exquisite landscape objects, interesting open spaces of cities. This contributed to the invention of such landscape-composition techniques that contributed to the development of a harmonious relationship between the natural environment and man.

The presence of significant environmental problems indicates the existence of a number of issues in the relationship between nature and man, which began to escalate from the middle of the 19th century. Therefore, it is important to understand their origins, scope and real solutions. This work will help in learning about the natural environment, understanding important landscape issues, and clarifying the ways of forming modern landscape objects based on mutual respect and harmony. These postulates are important in the preparation of future architects, urban planners, who in their further professional life will deal with open spaces of different levels of urbanization.

Therefore, mastering the necessary theoretical base in landscape architecture will contribute to the formation of students of both important general and professional competencies, among which:

- Ability to accumulate and use information from legislative documents, state construction norms and rules in the field of architecture, urban planning, design, landscape design and reconstruction and restoration works;
- Ability to perform technical and artistic images for use in architectural and urban planning, architectural design and landscape design, as well as in reconstruction and restoration projects of monuments of historical architectural, urban planning and landscape environment;
- Ability to participate in creative cooperation with specialists of related engineering and technical specialties, with economists, customers and managers in the development, coordination and public discussion of architectural projects and proposals for reconstruction and restoration;
- Ability to understand the basics of landscape architecture, the subject and its objects; knowledge of the main provisions of national and international landscape and recreation legislation; the ability to determine the basic requirements for the formation of the composition of landscape architecture objects, the application of the basic provisions of the design of touristic and recreational objects;
- Ability to master the international and domestic experience of architectural and landscape improvement of the territory, the development of elements of the improvement of landscape and recreational areas, the use of landscape tools when placing technological objects;
- Knowledge and use of professional terminology in the formation of objects of landscape architecture.

The prerequisites for studying the discipline “Architectural Environment Design (interior, landscape, urban environment)” at the National University “Yuri Kondratyuk Poltava Polytechnic” are the mastery of the following mandatory academic disciplines of the educational and professional bachelor’s training program “Architecture and Urban Planning” as “History of Arts and Architecture”, “History of Urban Planning”, “Fundamentals of Architectural Design”, “Fundamentals of Urban Planning. Engineering Improvement of the Territory and Transport”, “Fundamentals of Composition and Graphics”.

The expected program learning outcomes of students from this discipline meet the requirements of the educational and professional program and consist of:

- To know the basic concepts, terms of the professional language of communication in the field of architecture and urban planning, in related fields of science with the application of a foreign language;
- To know the basic principles and sections of the state regulatory framework created for the development of architectural and urban planning, architectural and environmental and landscape projects, projects of reconstruction and restoration of existing objects;

- To be able to systematize the stages and directions of the historical development of classical and modern artistic styles in architecture and urban planning, design, and garden and park art;
- Apply the basic principles and methods of artistic and compositional thinking in architectural and urban planning, and forecasting;
- Apply modern theoretical, methodological and typological approaches to solving the problems of formation and development of the architectural, town-planning and landscape environment;
- Review literature, make reports and presentations for a professional audience and a community of residents and managers in order to promote modern ideas of humanization and harmonization of the architectural and urban planning environment;
- To raise the professional level by participating in architectural and urban planning competitive design, in scientific and technical conferences.

The educational book is illustrative and informative in nature. It includes theoretical material on all topics of module III “Landscape architecture” of the discipline “Design of Architectural Environment (interior, landscape, urban environment)”, starting from general information about the landscape as a natural system, travelling through the main milestones of the development of landscape architecture through the ages and countries of the world, continuing with the general system of greening of cities, modern classification of landscape objects and ending with consideration of the main means of landscape architecture and key moments of the formation of landscape composition.

Structurally, the material is presented on relevant topics. Each topic is presented in a short text announcement and extended illustrative material. The text announcement demonstrates the purpose, plan, key words and concepts necessary for self-control of knowledge, a list of recommended sources for more in-depth study of the material.

The main content of the topic is presented in the form of illustrative and informational material, which facilitates its perception and assimilation by students. The sources of illustrative material are the author’s work in the form of analytical graphic material, photos from open sources of free access, and the work of specific authors in this field with a corresponding link.

While working on the educational book, the author was inspired by the works of leading scientists and practitioners in landscape science, landscape architecture and landscape design.

Educational edition

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