

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

**O. M. BEKETOV NATIONAL UNIVERSITY
of URBAN ECONOMY in KHARKIV**

Methodological guidelines
for practical classes and independent work
on the course

“DRAWING, PAINTING, SCULPTURE”

*(for 1st-year full-time and part-time students
of speciality 191 – Architecture and Urban Development)*

Kharkiv – O. M. Beketov NUUE – 2019

Methodical Guidelines for the implementation of practical classes and students' independent work on the educational discipline “Drawing, painting, sculpture” (for 1st-year full-time and part-time students of specialty 191 – Architecture and Urban Development) / O. M. Beketov Kharkiv National University of Urban Economy ; compilers : O. V. Pidlisna, V. P. Manohin, P. V. Myronchik. – Kharkiv : O. M. Beketov NUUE, 2019. – 26 p.

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Reviewer

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INTRODUCTION

These methodical recommendations are designed to facilitate tasks during conducting practical classes and independent work on the discipline “Drawing, painting, sculpture” by students of full-time and part-time study forms, speciality 191 – Architecture and urban planning, in accordance with the work program of the discipline (OOP PP. 6.060102.).

The purpose of teaching the course “Drawing, Painting, Sculpture” is to create a practical foundation for the execution of artistic graphics of an architectonic form of the subject.

The given recommendations cover 2 modules of the first year of study, which are divided into 4 content modules with 12 topics:

Module 1 Drawing of geometric forms

Content module 1 Drawing of simple geometric forms

Theme 1 Draw a simple pencil of simple geometric shapes. Volume image of geometric bodies.

Theme 2 Introduction to the watercolor technique. Simple still life of geometric bodies (laundromat).

Theme 3 Pencil drawing of still life from domestic bodies of rotation.

Content module 2 Light-tonal properties of objects

Theme 4 Graphic still life of simple forms (charcoal, sanguina, pastel).

Theme 5 Sculptural image of still life from domestic bodies (layout).

Theme 6 Scenic still life of simple forms (watercolor, contrasting gamma).

Together Module 1

Module 2 Getting acquainted with architectural artistic techniques

Content module 3 Perform exercises from soft and dry technology.

Theme 7 Still life of domestic bodies in the technique of grizaile (gouache, acrylic, watercolor).

Theme 8 Full-colored painting sketch. Still life of domestic bodies with architectural elements (watercolor, acrylic).

Theme 9 Exercise in dry technique. Still-life drawing of architectural and domestic bodies (mascara, feather).

Content module 4 Introduction to the architectural landscape and architectural detail.

Theme 10 Full-length drawings of still life from architectural and living bodies (pencil).

Theme 11 Sketches of architectural details, architectural ornament.

Theme 12 Short-term drawing of the house from nature (outline of architectural objects).

The main tasks of studying the discipline are to inculcate students with practical skills in representing bulky objects and architectural objects on the plane by means of hand-drawn graphics and painting; skills of simple layout of paper and cardboard volumes.

According to the requirements of the qualification level student-architect after studying the discipline must be able to:

- characterize the main types of fine arts (drawing, painting, sculpture), to know the materials and artistic appearance inherent to them;
- use the techniques studied for the transfer of architectural and artistic creative ideas;
- independently make various plane and spatial compositions, which can become the basis of architectural and artistic decision;
- solve the question of forming a light-color solution of objects based on understanding of the laws of painting and light-tonal relations;
- to use the acquired knowledge and practical skills in the development of architectural and artistic design projects of the environment-architectural, landscape, architectural-and-landscape compositions.

Objective: accumulation of practical skills for students in the complex. The formation of images of bulky objects and architectural objects on the plane by means of hand-drawn graphics, painting and sculpture.

Task:

- acquaint students with the features of visual perception of architectural objects, their light-tonal and color characteristics;
- students studying the main artistic materials and tools, artistic techniques used in architectural and artistic solutions;
- study of features of light-tonal volume transfer on a plane for the further application of them during use of computer programs of 3-D graphics.

Students acquire certain skills, allowing to form images of bulky objects and architectural objects on the plane by means of hand-drawn graphics, painting and sculpture.

According to the requirements of the educational-professional program, students must:

know:

- principles of constructive construction and reception of light-tone image of bulk household objects and architectural details of the environment;
- regularities of light-colored organization of artistic works and architectural environment.

be able:

- to make quick sketches of composite components and architectural details and buildings;
- to complete drawings and picturesque sketches from nature, with the expression of the main spatial and spatial qualities of the given composition;
- use hand-drawn graphics and painting skills to convey their creative ideas in architectural design.

have a competence:

- the ability to use graphics and painting in their project in order to organize an optimal architectural design solution;

– the ability to apply the acquired knowledge in their projects, thus ensuring the formation of a modern and comfortable architectural environment.

TERMS

The valid methodological guidelines on the subject “Drawing, painting, sculpture” contain recommendations for the implementation of practical classes by students of the 1st-year course 6.060102 “Architecture”. Practical classes in the amount of 36 auditorium hours are performed under supervision of the head.

The practical classes include certification of students based on the results of tasks performed, test control, analysis of shortcomings in the implementation of practical tasks.

While practicing, students can perform sketch searches on the technology they are studying. The final accomplishment of the final practical task - the task of the thematic module – is expected on the A2 format, given by the teacher materials.

The general structure of the practical course of the discipline “RHD” according to the work program is given in Table 1.

Table 1 – General structure of the practical course of the discipline “RHD”

Module 1 Drawing of geometric forms		
Content module 1 Drawing of simple geometric forms.		
№	occupation main components of the task	Number hours
1	2	3
1	Theme 1 Draw a simple pencil of simple geometric shapes. Volume image of geometric bodies.(Three-dimensional image of geometric bodies	5
2	Theme 2 Pencil drawing of still life from domestic bodies of rotation	5
3	Theme 4 Sculptural image of still life from domestic bodies (layouts of cube, prizm, cilinder)	5
	Together content module 1	15
Content module 2 Light-tonal properties of objects		
4	Theme 3 Introduction to the watercolor technique (akvarel, greezail) Simple still life of geometric bodies (1 self-washing - artistic stretching of tone)	10
5	Theme 5 Graphic still life of simple forms (charcoal, sangina, pastel)	8
6	Theme 6 Sculptural image of still life from domestic bodies (layout design)	12
	Together content module 2	30
Module 2 Getting acquainted with architectural artistic techniques.		
Content module 1 Perform exercises from soft and dry technology		
7	Theme 7 Still life of domestic bodies in the technique of grisaille (gouache, acrylic, watercolor)	10

Continuation of table 1

1	2	3
8	Theme 8 Full-colored painting sketch. Still life of domestic bodies with architectural elements (watercolor, acrylic)	10
9	Theme 9 Exercise in dry technique. Still-life drawing of architectural and domestic bodies (mascara, feather).(inc, pen)	10
Together content module 3		30
Content module 2 Introduction to the architectural landscape and architectural detail		
10	Theme 10 Full-length drawings of still life from architectural and domestic bodies (pencil)	5
11	Theme 11 Sketches of architectural details, architectural ornament	5
12	Theme 12 Short-term drawing of the house from nature (outline of architectural objects)	5
Together content module 4		15
Total for 2 modules		90

Task number 1

Draw a simple pencil of simple geometric shapes. Volume image of geometric bodies

The contents of the task

You need to learn how to depict simple geometric bodies through an understanding of their design. It is necessary to show the internal structure of the geometric body. Then it is necessary to transfer the volume by means of a light-dark-tonal relationship by shading with a pencil.

The goal of the work
teaching academic drawing techniques – linear design, shading, perspective of the
subject.

Ensuring employment:

- a) teacher – samples of analogues, free composition of simple subjects;
artificial directional lighting;
- b) the student – a paper watman 420×594 (A2), a pencil, an eraser.

Methodology of practical work

1. Before starting work, the teacher tells about the materials and tools that will be used to perform the task, shows similar works of masters and student work of previous years. The teacher also suggests that the student himself chooses the point of view, the position from which the future image will be presented in the best way. A student can make several drawing-sketches of small (on the A5 format) essays for choosing a better composition.

2. The instructor can show students how to use brush, pencil, any materials and tools, and show the sequence of work. But author's working is allowed.

3. Students perform first sketches in real-time size of future work.

4. The teacher corrects the main mistakes. In the future, the work continues by the student independently. For partial performance of independent work it is possible to photograph a composition, but transferring from a photograph to a sheet is strictly prohibited.

5. Finalization of the task taking into account the features of the chosen technique of filing and comments of the teacher. Example of execution in Picture 1.

Task number 2–3

Draw simple geometric shapes with a simple pencil.

Three-dimensional image of geometric bodies.

Pencil drawing of a still life from everyday rotation bodies

Job content

You need to learn how to portray simple geometric bodies through an understanding of their shape. It is necessary to show the internal structure of the geometric body. The body of rotation has a circle at the base. The circle in perspective is depicted as an ellipse. The closer the ellipse is to the horizon line, the smaller its thickness. Light-shade helps to convey a round shape with a stretch tone.

Objective

teaching academic drawing techniques – linear design, shading, subject matter perspective.

Employment:

a) teacher – samples of analogues, free composition of simple objects; artificial directional lighting;

b) student – Whatman paper 420×594 (A2), pencil, eraser.

Task number 4–5

Introduction to the technique of watercolor. A simple still life of geometric bodies (washing - artistic stretching of tone). A simple still life of household items and geometric bodies (Grisaille).

Job content

You can draw simple geometric bodies with wet techniques – water colors. You must first draw the form in thin lines. You can then transfer the volume using light-dark tonal relationships, starting with light tones and ending with dark ones.

Objective

teaching methods of academic painting – local tones in the achromatic image.

Employment:

a) teacher – samples of analogues, free composition of simple objects; artificial directional lighting;

b) student – Whatman paper 420×594 (A2), pencil, eraser.

Task number 6

The sculptural image of a still life of geometric and domestic bodies (models, layouts). sweep cube, prism, vase.

Job content

You need to learn how to draw simple geometric bodies in volume. It is necessary to understand the structure of the geometric body. First draw a scan of the surface of the body on paper, then cut and glue it. You can collect the volume of individual elements or draw immediately joined parts. (See Picture 5). The smooth surface of the paper can be folded to give it a relief shape.

Objective

To give the concept of the volumetric form, the basics of the layout. Teach to lay out a complex shape on a simple plane.

Employment:

a) teacher – samples of analogs, drawings of scans;

b) pupil – Whatman paper 420×594 (A2), color paper, pencil, eraser, paper knife, glue.

Task number 7, 8

Graphic still life of simple forms (coal, sanguine, pastel).

Draw simple volumetric geometric bodies with a simple pencil and other soft materials. Three-dimensional image of geometric bodies. Exercises in the dry

technique. Drawing still life of architectural details and household bodies (ink, pen).

Job content

You need to learn how to draw simple geometric bodies. All complex architectural forms are compiled from them. It is necessary to learn how to quickly depict, sketch objects from nature. This is usually done with the help of a linear pattern – a quick draft. The volume of a geometric body can be shown using various soft, but dry materials: coal, sanguine, pastel. The volume is transmitted using light-shadow – tonal relations, shading the line. In this case, the line is absorbed by the plane.

Objective

learning academic drawing techniques - linear drawing, hatching, feathering.

Employment:

- a) teacher – samples of analogs, drawing from life;
- b) pupil – Whatman paper 420 × 594 (A2), coal, sanguine, sauce, pastel, eraser.

Task number 9–10

Still life of domestic bodies in the technique of grisaille (gouache, acrylic, watercolor). Full-color image: Still life of household objects with architectural elements (watercolor, acrylic).

Job content

Gradually complicating and diversifying the technique, it is possible to achieve a very high level of veracity in the depiction of objects. On the painting, we add color to the image. To do this, you need to understand the laws of color in painting. It is necessary to have knowledge of color science - to know the basic and additional colors, the basic harmonious color combinations, the dependence of color on distance and lighting.

Objective

Learning academic painting techniques - a sense of volume through color-tonal relationships. The development of observation, sensory perception of color.

Employment:

- a) teacher – samples of analogues. free composition of household items;
- b) student – paper of drawing paper 420×594 (A2), pencil, eraser.

Task number 11–12

Learning to depict the architectural landscape and architectural details. Exercises in the dry technique. Still life – drawing architectural and everyday objects (ink, pen). Full-length drawings of still life from architectural and domestic bodies (pencil). Sketches of architectural details, architectural ornament. Short-term drawing of the house from life (outline of architectural objects).

Job content

The architect should be able to quickly and easily draw sketches of architectural structures, emphasize the main features of the architectural style, isolate the main tectonic structures. For this you need to see the entire structure as a whole, and not its individual parts. It is necessary to learn to depict a building through simple geometric forms, through an understanding of the design.

Architectural ornament has its own laws that must be considered when building. But the individual parts, too, need to be seen clearly, to proportion their proportions with the whole volume. Such skills are developed only by multiple repetitions of drawings from life. Quick sketches need to be done on the tablet, on the street. Individual architectural details can be drawn in the audience. In such sketches do not reflect the amount of light and shadow, it is a linear pattern.

Objective.

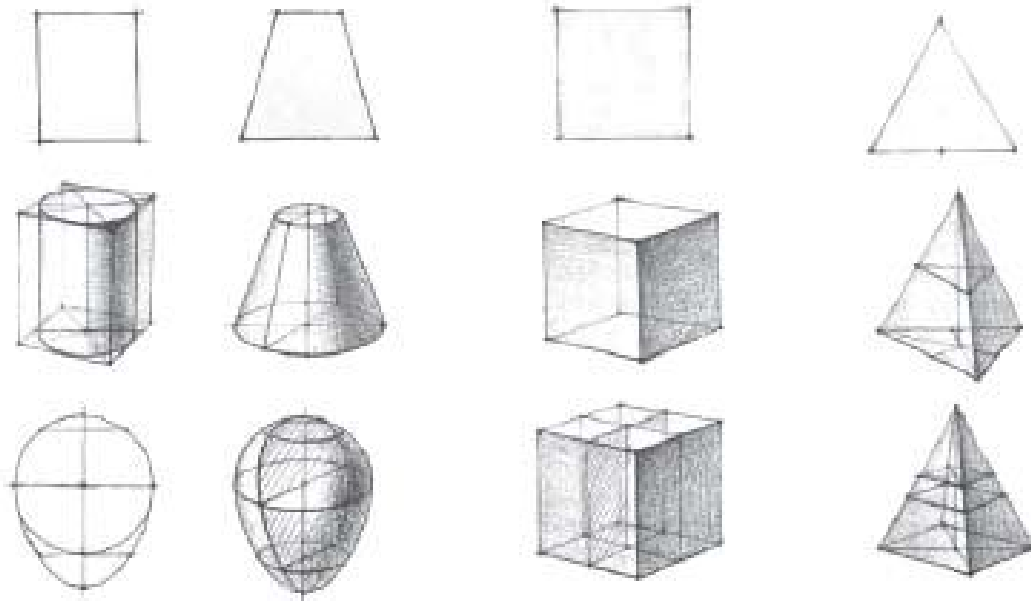
teaching academic drawing techniques – linear drawing, building perspective, training of an eye meter and precision of a hand.

Employment:

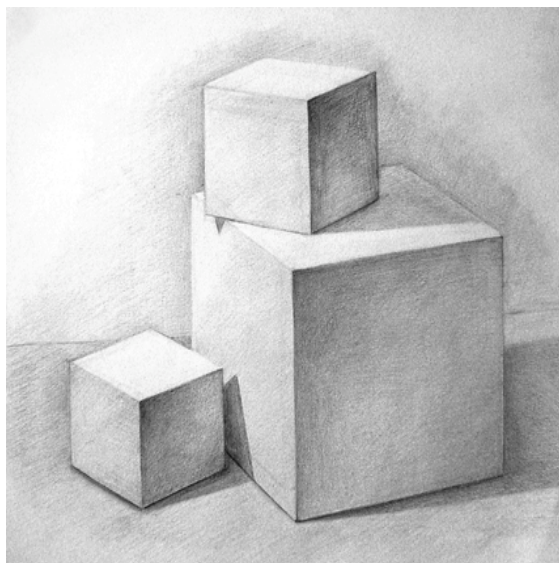
a) teacher – samples of analogues, real architectural monuments in the urban environment;

b) student – Whatman paper 420 × 594 (A2), pencil, eraser.

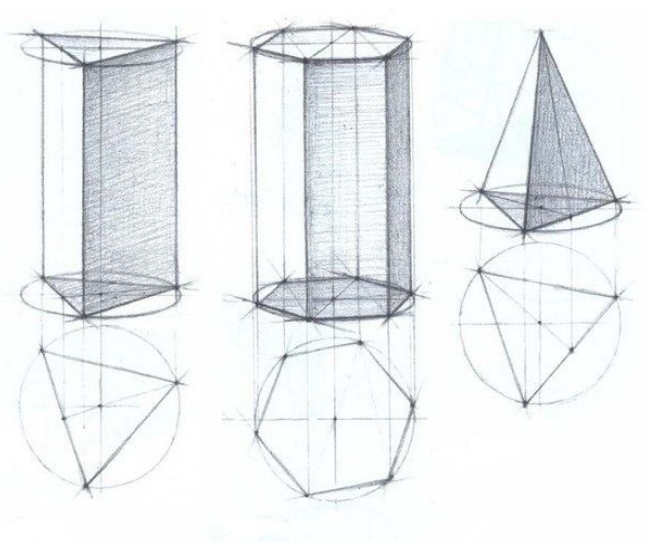
Theme 1



a



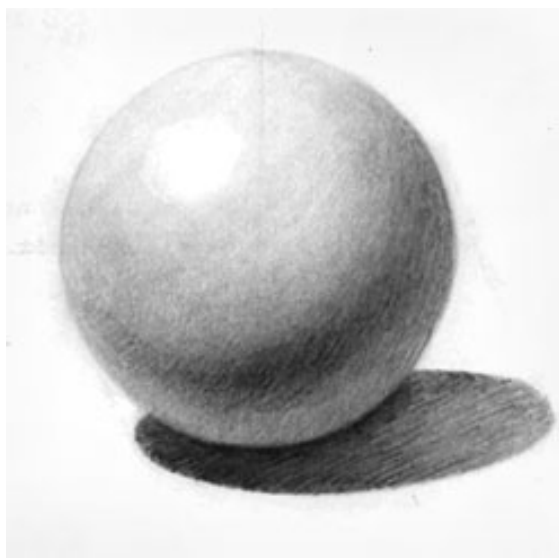
b



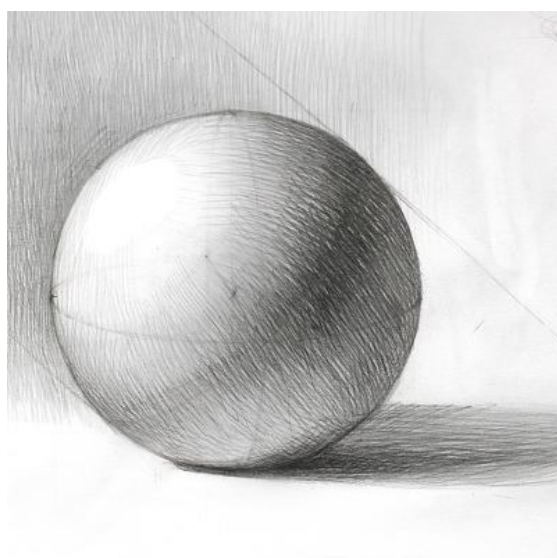
c

Picture 1 (a, b, c) – An example of a search to display the internal structure of a geometric body (execution options)

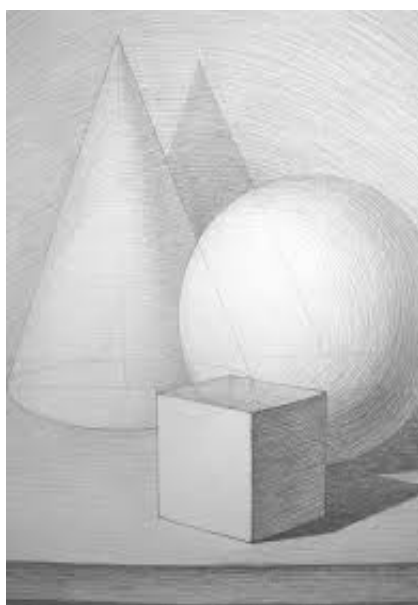
Theme 2, 3



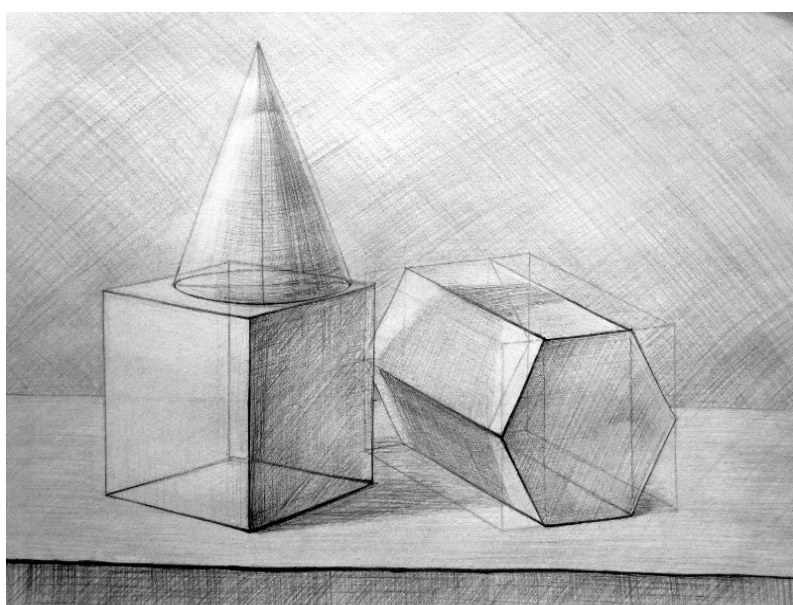
a



b

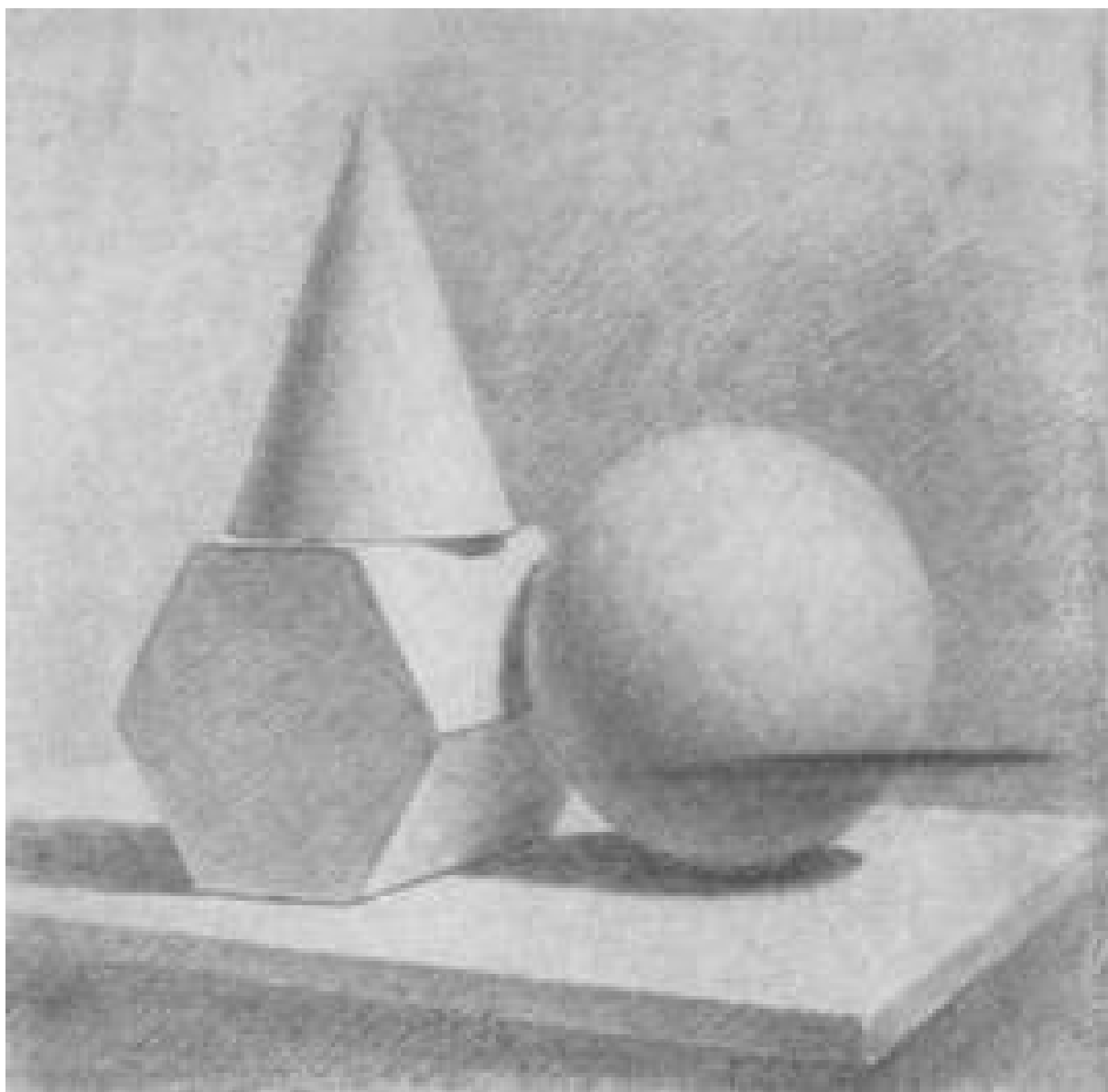


c



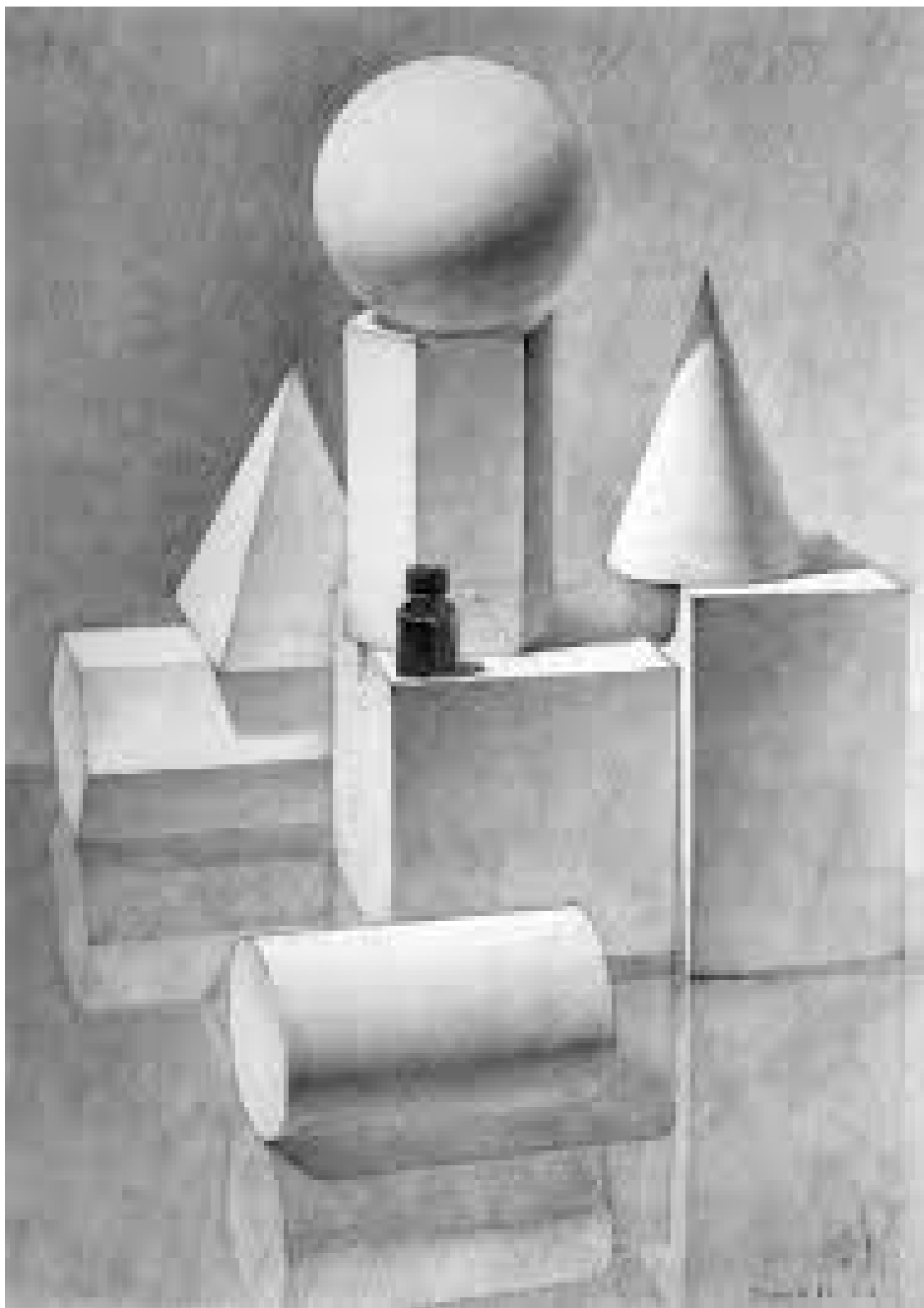
d

Picture 2 (a, b, c, d) – Pencil drawing of still life from domestic bodies of rotation (execution options) Examples of the image of simple geometric bodies and bodies of revolution (through the construction of an ellipse in perspective)



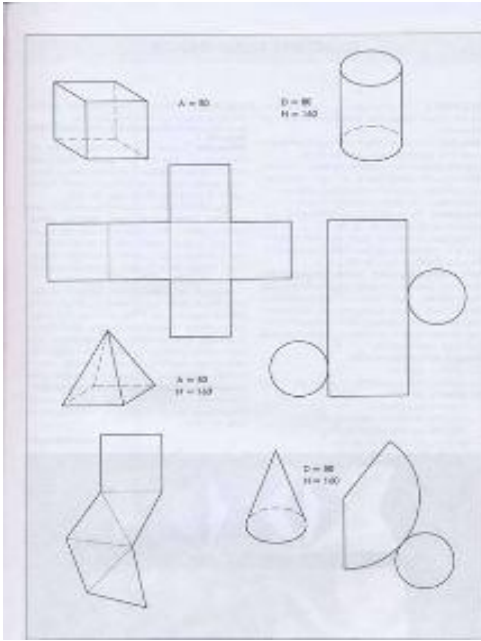
Picture 3 – Examples of the implementation of the final task on the topic
(the complexity of the task varies depending on the level of training of students)

Theme 4 Introduction to the watercolor technique. Simple still life of geometric bodies (laundromat)

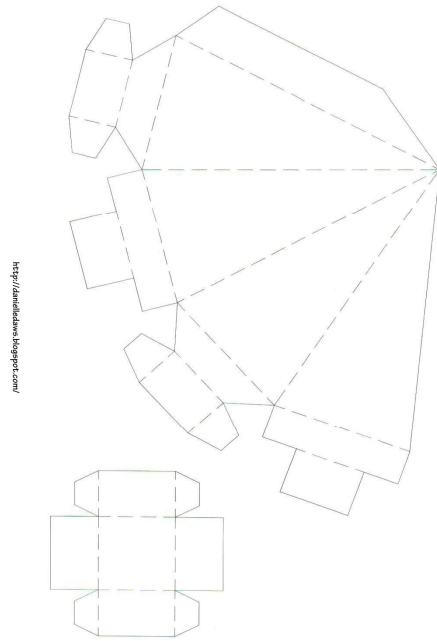


Picture 4 – Examples of the implementation of the final task on the topic (the complexity of the task varies depending on the level of training of students)

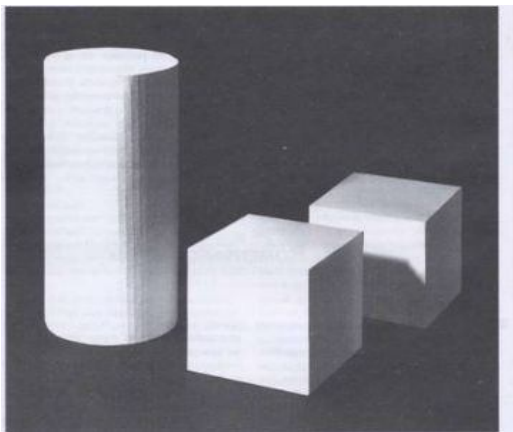
Theme 5 Sculptural image of still life from domestic bodies (layout)



a



b



c



d

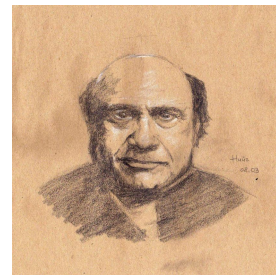
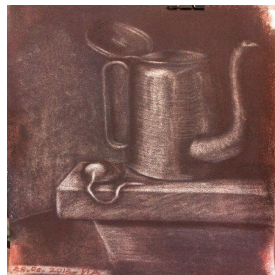
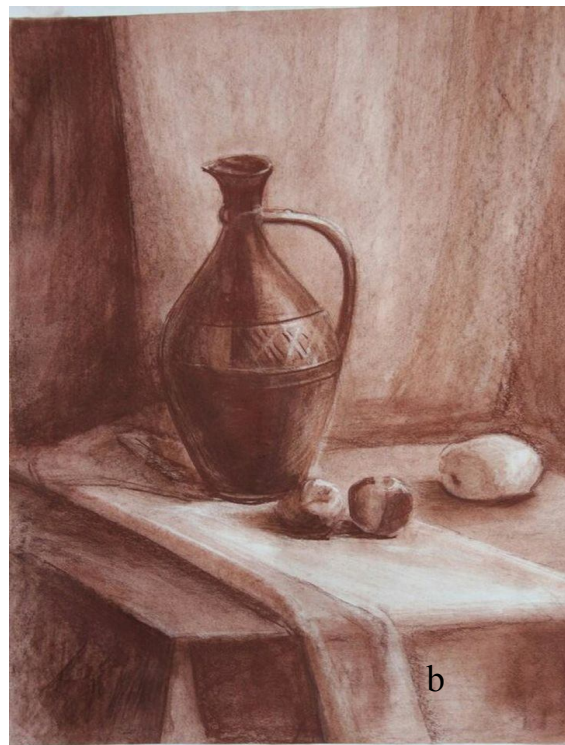
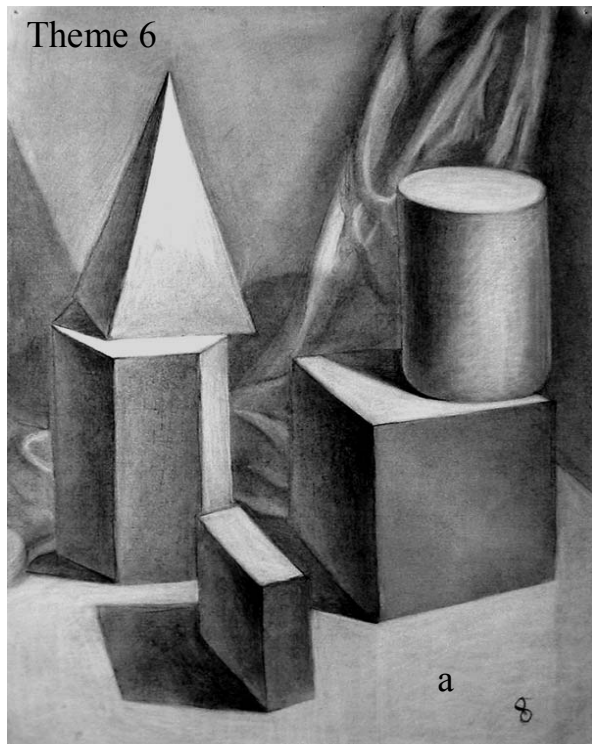


e



f

Picture 5 (a, b, c, d, e, f) – Sculptural image of still life from domestic bodies (layout)



Picture 6 (a-h) – Graphic still life of simple forms (charcoal, sangina, pastel)

Theme 7



a



b



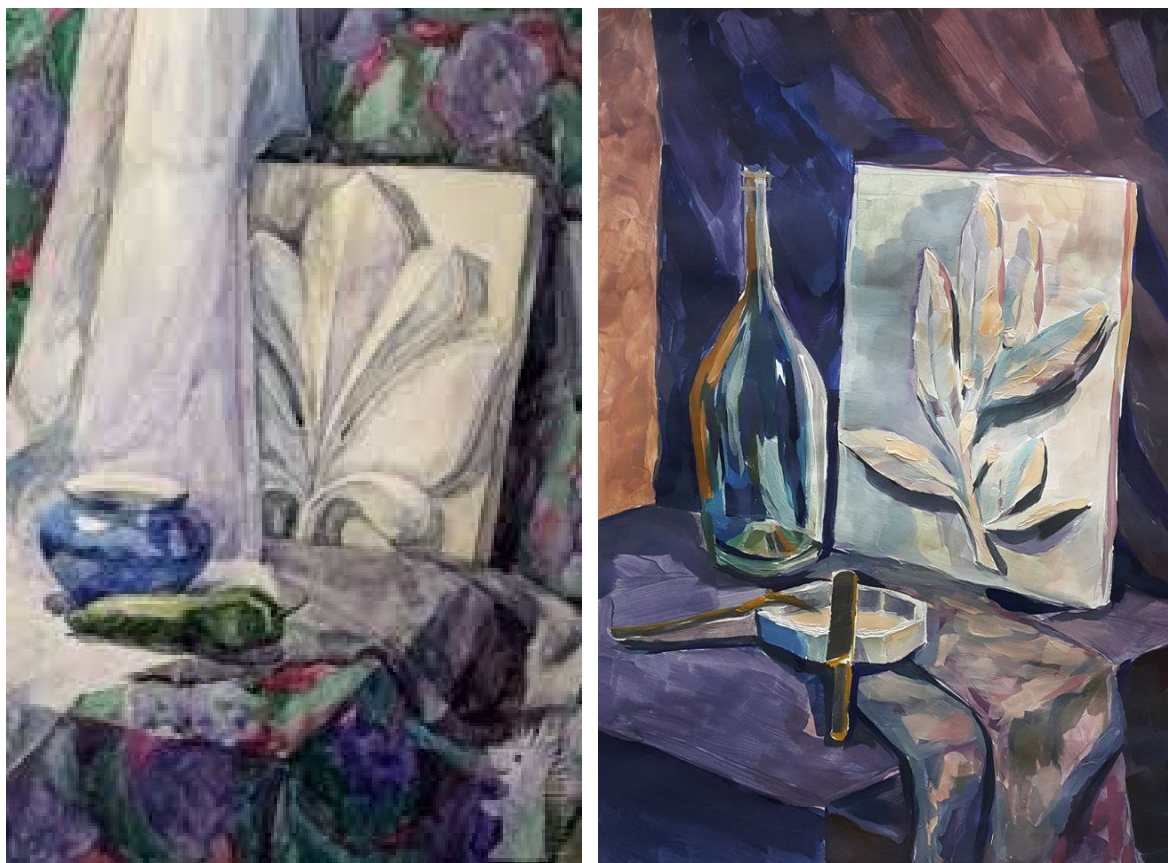
c



d

Picture 7 (a, b, c, d) – Still life of domestic bodies in the of grisailly art technique (gouache, acrylic, watercolor)

Theme 8, 9



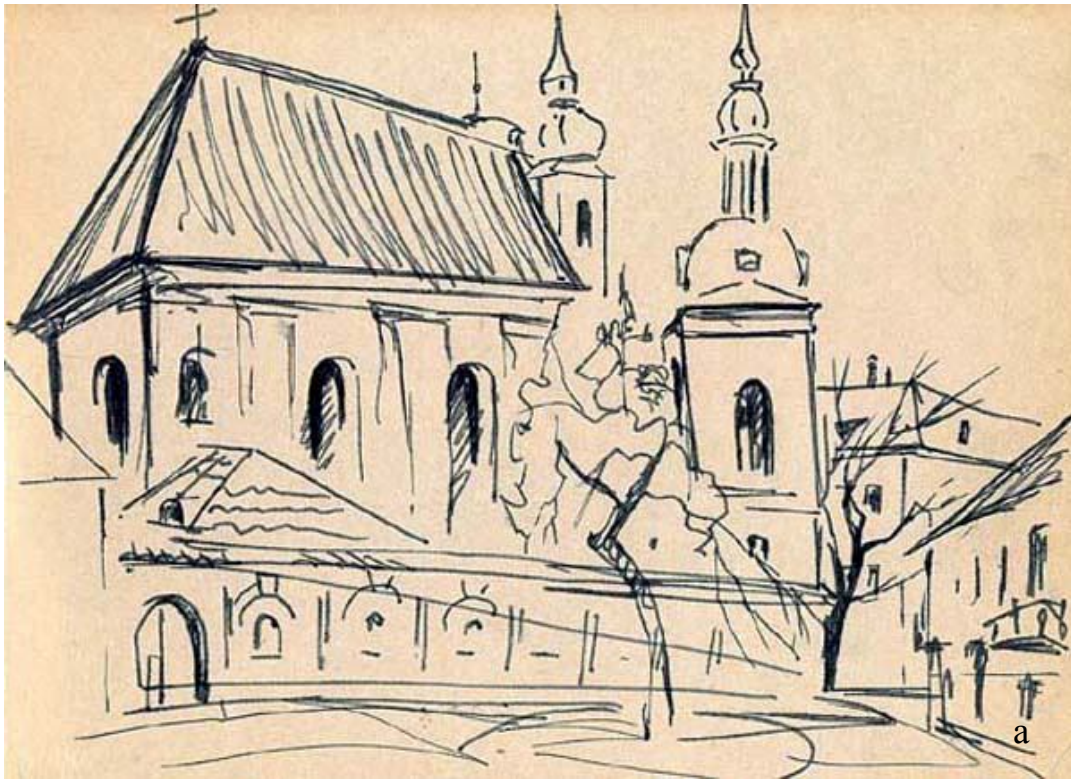
Picture 8 (a, b) – Full-colored painting sketch. Still life of domestic bodies with architectural elements (watercolor, acrylic)



Picture 9 (a, b) – Exercise in dry technique. Still-life drawing of architectural and domestic bodies (mascara, feather)

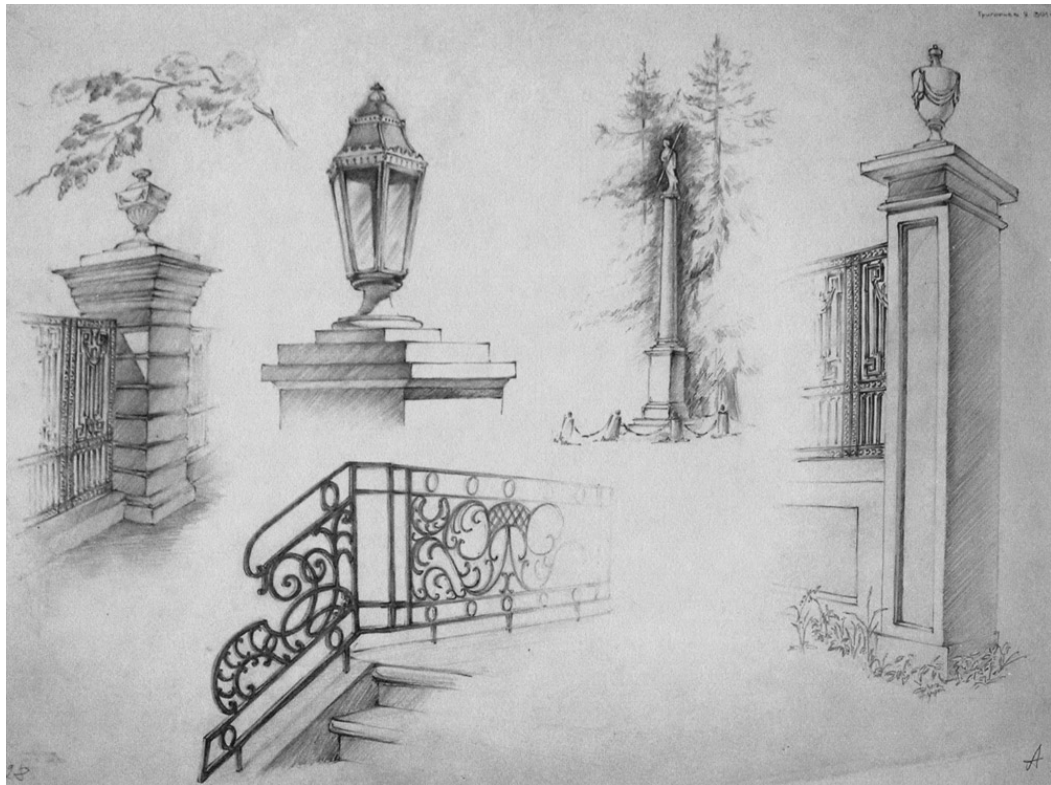
Content module 2 Introduction to the architectural
landscape and architectural detail.

Theme 10



Picture 10 (a, b) – Full-length drawings of still life from architectural

Theme 11



a



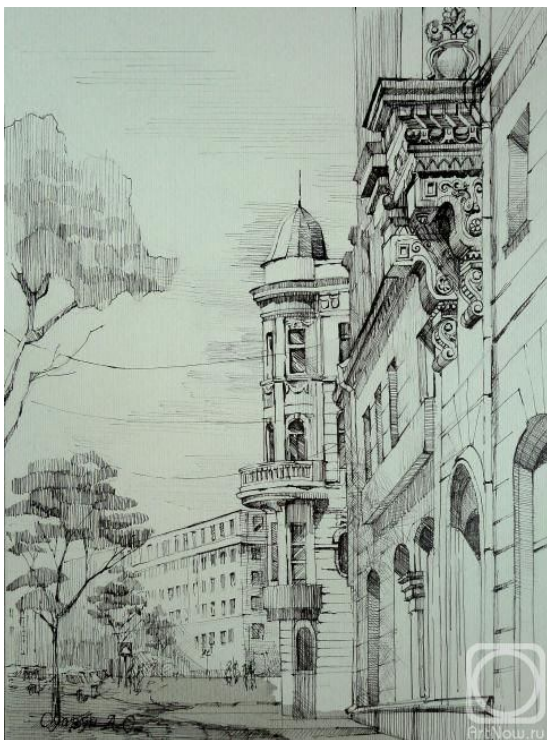
b

Picture 11 (a, b) – Sketches of architectural details of the urban environment from nature (execution options)

Theme 12 Short-term drawing of the house from nature



a



b



c

Picture 12 (a, b, c) – Short-term drawing of the house from nature (outline of architectural objects). Examples of the implementation of the final task on the topic (the complexity of the task varies depending on the level of training of students)

LIST OF RECOMMENDED LITERATURE

1. Практикум з нарисної геометрії : навч. посібник / [В. І. Лусь, Т. Є. Киркач, О. Є. Мандріченко та ін.]. – Харків. нац. ун-т міськ. госп-ва. – Харків : ХНУМГ ім. О. М. Бекетова, 2014. – 118 с.
2. Collier, Graham. Prentice Hall, 1972 [Електронний ресурс]. – Режим доступу: <http://www> Form, Space and Vision: An Introduction to Drawing and Design. (дата звернення 15.11.2019).
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