2025
2026

STUDY GUIDE

DEPARTMENT OF ARCHITECTURAL ENGINEERING

DEMOCRITUS UNIVERSITY OF THRACE

The cover of this Study Guide was designed by students of the Department: Christos Vogiatzis and Spyros Gourzoulidis.

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Department of Architecture – Brief History of Establishment

The Department of Architecture, within the School of Engineering at the Democritus University of Thrace, was established by Presidential Decree No. 208/1999. In accordance with this decree, the mission of the Department is twofold:

- To promote and advance the scientific discipline of architectural engineering, with a particular emphasis on architectural design, building technology, urban and spatial planning, and the functional and aesthetic configuration of interior environments;
- To educate and train architectural engineers who are equipped to study and conduct research in the aforementioned fields.

The Department is committed to fostering a dynamic academic environment that combines theoretical knowledge with design innovation and technical expertise, preparing students for professional practice and scholarly inquiry in architecture and the built environment.

Expected Learning Outcomes of the Study Programme

Upon completion of the study programme, graduates of the Department of Architecture are equipped with the knowledge, competencies, and skills necessary to apply the principles of engineering and the natural sciences, supported by contemporary technologies and digital tools. Simultaneously, they engage critically with the theoretical and historical foundations of the humanities, developing the capacity to articulate ideas, ethical perspectives, and symbolic meanings through the spatial, functional, and material organization of the built environment.
Architectural education is structured to ensure a dynamic balance between theoretical knowledge and practical application. It guarantees that students achieve comprehensive academic and professional preparation in accordance with internationally recognized standards, including the eleven key criteria outlined in Article 46 of Directive 2005/36/EC, as amended by Directive 2013/55/EU:

- The ability to design architectural projects that meet both aesthetic and technical requirements;
- A sound knowledge of the history and theories of architecture, as well as related disciplines in the arts, technologies, and humanities;
- A sufficient understanding of the fine arts as an element enriching architectural design;
- A solid grounding in urban planning, urban design, and the methods and techniques used in the urban development process;
- The ability to understand the relationships between people and buildings, as well as between buildings and their environment, and to design structures that respond harmoniously to human needs and scale;
- An awareness of the architect's role in society and the responsibilities associated with it, particularly in relation to social and community-sensitive design;
- Proficiency in documentation and the preparation of architectural studies and reports;
- An understanding of structural design and civil engineering principles relevant to building construction;
- Knowledge of building physics, technologies, and systems that ensure occupant comfort and environmental protection, in line with sustainable development principles;
- Technical competence in designing buildings that respond effectively to user needs while observing economic feasibility and regulatory frameworks;
- Familiarity with the industries, organizations, legal provisions, and procedures involved in the implementation of architectural projects and their integration into wider planning processes.

Welcome Message

It is with great pleasure that we welcome you to the Department of Architecture at the Democritus University of Thrace—a vibrant academic community where creativity is nurtured, artistic expression is encouraged, and the acquisition of essential engineering knowledge and skills is actively supported.
Our faculty is fully committed to fostering a dynamic and inclusive learning environment that promotes intellectual growth, design exploration, and academic excellence. We will make every effort to support you in your studies and to equip you with the tools necessary for your academic and professional development.
We warmly welcome you to the extended academic family of Democritus University. We are committed to meeting your expectations, and we sincerely wish you a rewarding and successful academic journey.

Professor Dimitrios Polychronopoulos
Chair, Department of Architecture

1st year

A01УП ARCHITECTURAL COMPOSITION I: BASIC PRINCIPLES AND CONCEPTS OF ARCHITECTURE

This is a year-long foundational course (in conjunction with B01УП) that introduces first-year students to the principles of architectural composition, both through theoretical exploration and applied design work. The course aims to stimulate critical thinking, unlock creative potential, and cultivate familiarity with fundamental tools and techniques of architectural representation.
A substantial component of the course is dedicated to the theoretical investigation of architectural composition. Through a conceptual "return" to the foundational elements of architecture, students engage with key compositional principles such as spatial structure, organizational logic, core concepts and properties of architectural space, as well as archetypal spatial configurations.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

- Apply fundamental architectural principles and concepts to the analysis and composition of space.
- Recognise the diverse characteristics of human-made environments.
- Analyse key parameters of existing buildings and urban contexts.
- Represent the material elements of architectural space using appropriate graphic methods.
- Identify different construction systems and understand their role in architectural design.
- Employ methods and tools of architectural representation effectively.
- Develop simple spatial configurations for the organisation of architectural space.

ECTS: 12
HOURS: 8

LECTURERS: Eleni Amerikanou - Professor
Panos Loukas Exarchopoulos - Assistant Professor

VISUAL ARTS I A03УП

This laboratory course introduces students to both the theoretical foundations—through lectures, presentations, and relevant bibliography—and primarily the practical aspects—through hands-on laboratory exercises—of the fundamental concepts of space, aesthetic form, and their interrelation.
The course aims to familiarize students with the use of representational tools and techniques as means of conceptual thinking and expression, as well as for the critical analysis, evaluation, and presentation of both the visible and invisible properties of objects, places, and spatial contexts.
Assignments include visual documentation and the presentation of objects and spaces through a variety of representational and narrative media, such as drawings, photographs, videos, animations, and written texts.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

- Analyse the parameters that shape the perceptual and conceptual dimensions of space, place, and form, and the relationships between these concepts.
- Demonstrate understanding of the notion of representation and its role in the critical interpretation, evaluation, and documentation of both manifest aesthetic qualities and latent conceptual and dynamic content of spatial situations and forms.
- Demonstrate and apply fundamental aspects of the creative process and visual language.
- Develop skills in using representational methods and media as tools for thinking, documentation, and communication of architectural ideas and design intentions.

LECTURERS: Antonis Michailidis - Professor
Panagiotis Kozokos - Associate Professor

ECTS: 4
HOURS: 4

A04ΥΠ STRUCTURAL SCIENCE I – STATICS OF RIGID BODIES

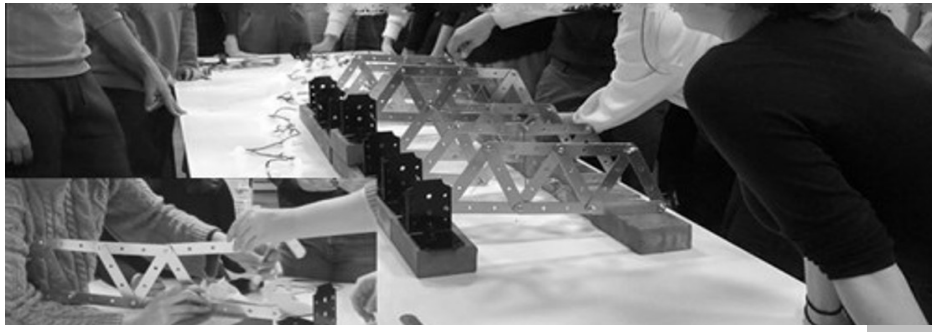
This is the first course in the annual study cycle, introducing the fundamental principles of equilibrium, types of structural elements and loads, as well as statically determinate and indeterminate structures. The course aims to consolidate the basic principles of Structural Mechanics and to promote the effective design of the load-bearing structural system in buildings.
Topics include support conditions and the internal forces of simple and complex statically determinate structures.
Covered subjects include: general principles, assumptions, and axioms of the statics of rigid bodies; concepts such as force, moment of force, and equilibrium of force systems; support conditions of rigid bodies; static determinacy; types of loads; reactions at supports; free body diagrams; types of simple structural elements; calculation of internal forces and the corresponding diagrams (normal force N, shear force Q, bending moment M) in statically determinate beams and frames; principles for composing complex statically determinate systems; calculation of reactions and internal forces in trusses; and the analysis of flexible structural elements.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:
• Identify the principal types of load-bearing structural systems and analyse their structural behaviour.
• Determine the support reactions and internal forces in statically determinate solid and planar truss structures.

ECTS: 3
HOURS: 4

LECTURER: Maria-Styliani Voutetaki - Associate Professor



TECHNOLOGY I – BUILDING & MATERIALS A05ΥΠ

The course aims to provide students with an introductory understanding of building construction technology, encompassing both the stages of design and construction. It also seeks to establish foundational knowledge of conventional building materials and construction techniques.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:
• Apply their knowledge of the properties of building materials in architectural and construction design.
• Develop architectural design proposals that take into account materiality, construction systems, and detailing requirements.

LECTURER: Eleftheria Deligiannidou - Assistant Professor

ECTS: 3
HOURS: 4

A06ΥΠ DIGITAL REPRESENTATIONS I

In recent years, digital tools have provided a wealth of representational and design instruments, enabling architects to conceive and depict increasingly complex forms beyond the reach of conventional methods. These technological advances have also contributed significantly to the morphological liberation of the architect's imagination.

This course aims to equip students with the skills and tools necessary to develop their design and compositional abilities without simply replicating the formal possibilities afforded by these technologies. Emphasis is placed on the relationship between form and function, semantic content, spatial experience, and the narrative dimension of space—key criteria for the semester's projects.

The course fosters the cultivation of design maturity, free from representational or technological constraints, encouraging students to use digital tools as means for morphological exploration and the expansion of their imaginative and visual-creative capacities.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

• Analyse, categorise, and apply different levels of programming and computational logic to enhance the development and communication of architectural design proposals.

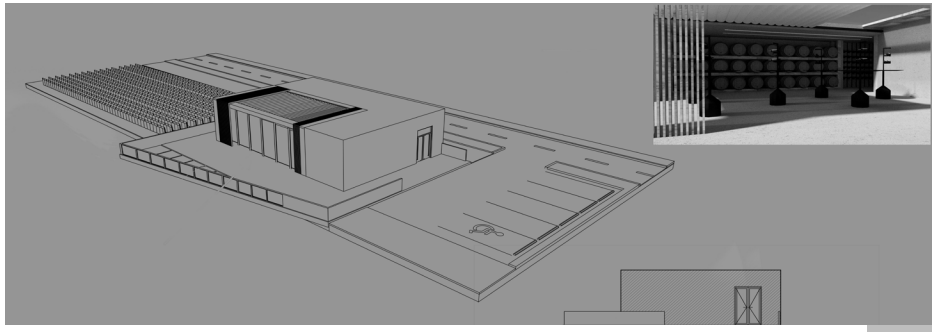
• Employ design thinking approaches using geometric models, prototyping strategies, and collaborative processes to address architectural design problems.

• Develop architectural designs using computational tools as digital components of the architectural design process rather than mere drafting instruments.

• Demonstrate an understanding of the technological principles underlying architectural software.

ECTS: 3
HOURS: 4

LECTURER: Dimitris Giouzepas - Assistant Professor



HISTORY OF ARCHITECTURE I: FROM PREHISTORY TO THE POST-BYZANTINE PERIOD A07ΥΠ

A diachronic exploration of transformations in the built environment of the Eastern Mediterranean.

Architecture in the Greek world: Prehistoric architecture; Ancient Near East, Egypt, and Mesopotamia; Minoan, Cycladic, and Mycenaean civilizations; Geometric and early Archaic periods; Ancient Greece (Archaic, Classical, and Hellenistic eras); Roman architecture.

Early Christian and Byzantine architecture: Historical background, theological foundations, materials and techniques, forms and functional elements, architects and patrons. Examination of architecture during the Early Christian period, Byzantine architecture, and its diffusion across both Western and Eastern regions.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

• Demonstrate knowledge of the major architectural developments from prehistory to the Ottoman period, including the technological, social and political conditions that shaped them.

• Understand the historical evolution of architectural forms, typologies, and structural systems within the wider Greek cultural context.

• Critically analyse architectural works, identifying their technological, formal and aesthetic characteristics.

• Compare architectural practices across historical periods, recognising similarities, differences and continuities in architectural development.

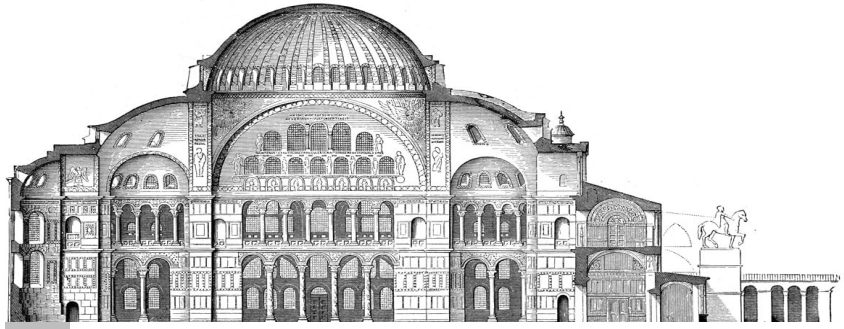
• Effectively employ architectural terminology for analysis and documentation.

• Demonstrate an informed understanding of the spatial qualities of architectural structures and their relationship with the natural and social environment.

• Conduct a basic architectural-historical analysis of a historic building, etc.

LECTURER: Aikaterini Ritzouli- Assistant Professor

ECTS: 5
HOURS: 4



B01УП ARCHITECTURAL COMPOSITION II – BASIC PRINCIPLES AND CONCEPTS OF ARCHITECTURE

The course aims to introduce first-year students to the principles of composition, organization, and representation of architectural space, familiarizing them with the processes, methodologies, and techniques of architectural design through the exploration of carefully selected small-scale projects.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

- Respond to the analytical design and development requirements of small-scale building projects with simple programmes.
- Address design issues related to the composition and articulation of architectural space.
- Focus on the organisation and arrangement of interior and exterior spaces and the detailed articulation of their boundaries.
- Integrate simple construction systems and specialised structural elements into the design and development of architectural space.
- Establish meaningful relationships between functional, structural, and morphological aspects of architectural design.
- Employ appropriate means of architectural representation for the development, refinement, and presentation of architectural proposals.

ECTS: 12
HOURS: 8

LECTURERS: Eleni Amerikanou - Professor
Georgios Papagiannopoulos - Associate Professor
Panos Loukas Exarchopoulos - Assistant Professor

VISUAL ARTS II B03УП

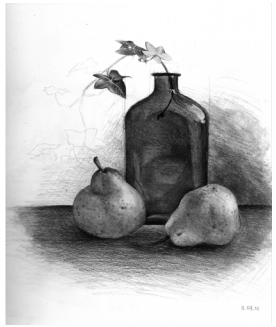
This course aims to further familiarize students with practical methods and techniques for documenting and presenting perceptual—primarily visual—characteristics that convey meaning and emphasize the distinctive “character” of objects and spatial situations at both individual and collective levels.
Light, color, geometry, relief, and material textures are examined both theoretically and, primarily, through practical inquiry, to understand their role in shaping the aesthetic and semantic content of space.
Through scaled design and implementation projects of spatial structures, students explore ways to manipulate these elements to impart a specific aesthetic character and foster the creation of desired atmospheres in interior and surrounding environments.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

- Understand the contribution of aesthetic elements, particularly light, colour, material texture and geometry, to the conceptual and psychological character of spaces and forms.
- Develop the ability to critically analyse and visually represent the aesthetic qualities that define the character of places and forms, using a range of representational methods and media informed by perceptual and conceptual interpretation.
- Demonstrate knowledge of, and apply in practice, fundamental aspects of the creative process and visual language.
- Work effectively both independently and collaboratively in the development of architectural representations.

LECTURERS: Antonis Michailidis - Professor
Panagiotis Kozokos - Associate Professor

ECTS: 4
HOURS: 4



B04УП STRUCTURAL SCIENCE II – MATERIAL STRENGTH

The course aims to provide analysis and understanding of the constitutive stress-strain relationships of structural materials in load-bearing building elements (including stresses and strains under simple and complex loads), the determination of reactions in statically indeterminate structures through compatibility conditions of deformations, and the fundamental principles of seismic action analysis.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Determine the stress and strain developed in structural materials under simple and complex loading conditions.
- Calculate support reactions and internal forces in statically indeterminate structures.
- Demonstrate understanding of the fundamental principles of dynamic and seismic analysis.

ECTS: 3
HOURS: 4

LECTURER: Maria-Styliani Voutetaki - Associate Professor

TECHNOLOGY II – INTRODUCTION TO BIOCLIMATIC DESIGN B05УП

The course aims to familiarize students with the theoretical foundations and problem-solving techniques in the Physics of Structures, alongside the application of insulating materials in building construction.
It covers theoretical aspects related to visual, thermal, and acoustic comfort in buildings, including sound propagation, modes of heat transfer, vapor diffusion, and comprehensive evaluation of insulating materials for building protection.
Furthermore, the course addresses technical solutions concerning building orientation, the design of openings and shading devices, as well as the implementation of sound barriers.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Apply the properties of insulation materials in architectural and construction design.
- Develop architectural solutions that respond to protection and comfort requirements, integrating insulation and environmental control into the composition of architectural spaces.

LECTURER: Eleftheria Deligiannidou - Assistant Professor

ECTS: 3
HOURS: 4

B06УП DIGITAL REPRESENTATIONS II

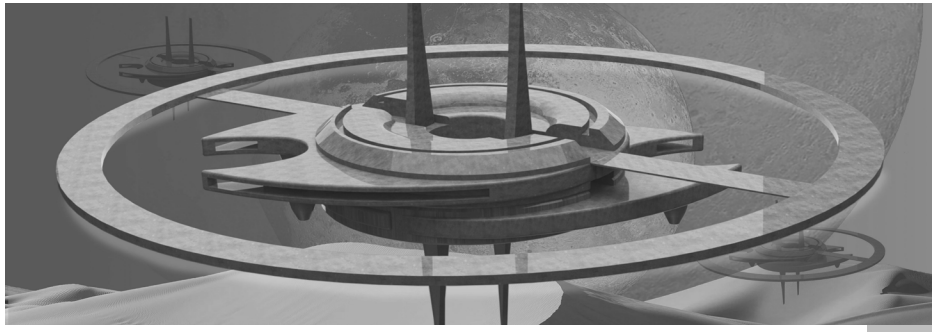
In recent years, digital tools have provided architects with a broad array of representational and design instruments, enabling the creation and depiction of increasingly complex forms that traditional drawing methods cannot adequately capture. These technological advancements have also contributed to the formal liberation of the architect's imagination.
The aim of this course is to equip students with the necessary tools to develop their design and compositional skills, avoiding mere replication of the formal possibilities offered by digital technologies. Key objectives include exploring the correlation between form and function, semantic content, spatial experience, and the narrative dimension of space.
The course aspires to cultivate design maturity in students, ensuring that their creative expression is not constrained by representational or technical limitations. Digital tools are approached both as instruments for formal investigation and as means for expanding imaginative and visual expression.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:
• Design and represent architectural projects, spaces, and objects demonstrating high morphological and formal complexity.
• Effectively communicate and support their design ideas using a variety of tools and media.
• Enhance their design capabilities and overall design maturity, demonstrating increased independence and sophistication in creative architectural thinking.

ECTS: 3
HOURS: 4

LECTURER: Dimitris Giouzepas - Assistant Professor



ART HISTORY: MODERN ART (1770–1945) B07УП

From Empirical Realism to Social Realism:
Flemish Art
The Italian Renaissance
Baroque
Art in the 18th Century
Art in the 19th Century: Neoclassicism, Romanticism, Orientalism, Realism

Upon successful completion of the course, students will be able to:
• Demonstrate knowledge of major Western art movements and their socio-historical contexts.
• Analyse the works of significant artists, identifying stylistic and thematic characteristics.
• Critically assess the formal and conceptual qualities of artworks, including Impressionism, Post-Impressionism, Symbolism, Fauvism, Expressionism, Cubism, Orphism, Futurism, Abstraction, Suprematism, Constructivism, Dada, Surrealism, and Modernist Sculpture.
• Interpret artworks as expressions of the broader European cultural heritage, considering literature, philosophy, and historical context.

LEARNING OUTCOMES

LECTURER: Ioannis Kolokotronis- Professor

ECTS: 5
HOURS: 4

2nd year

Г01УП ARCHITECTURAL DESIGN III

This course focuses on the architectural design of a residence intended for the permanent accommodation of four individuals, located within the urban area of Xanthi. Through the processes of conceptualization and design, students are encouraged to approach architectural space as a place of habitation—a "container of life"—shaped around the needs, routines, and aspirations of its inhabitants.

As a familiar and deeply personal environment, the dwelling offers students the opportunity to connect their own memories and lived experiences with a design subject that presents considerable compositional challenges and specific functional requirements.

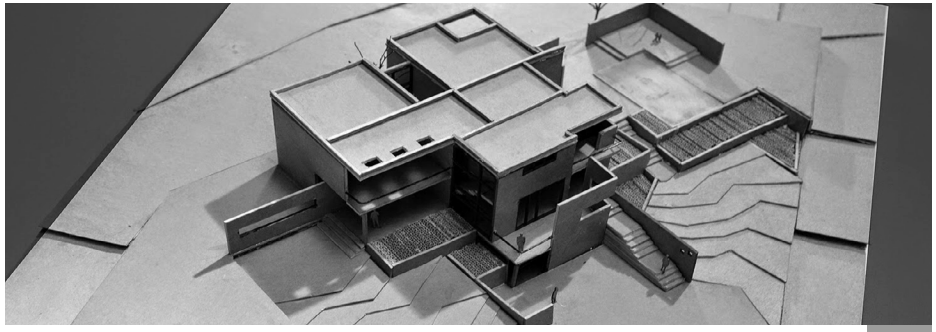
LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Analyse and interpret the urban and environmental context for residential design.
- Address compositional challenges related to housing within the urban fabric.
- Approach architectural design as a structured, integrative process.
- Develop small-scale residential proposals within an urban environment.
- Demonstrate competence in architectural composition and spatial organization.
- Explore transitions between public and private space, and interior–exterior relationships.
- Apply methodological tools for architectural design.
- Utilise a range of representation techniques, including physical models, freehand and linear drawing, and digital modelling.
- Integrate functional requirements with spatial organisation and circulation patterns.
- Develop a building programme for a residential project etc.

ECTS: 12
HOURS: 7

LECTURERS: Dimitris Polychronopoulos - Professor
Panagiotis Gouliaris - Associate Professor
Christos Koutelis - Assistant Professor



VISUAL ARTS III Г03УП

This semester focuses on the investigation and critical reflection of the relationship between the perceptual and conceptual dimensions of aesthetic form, as conceived within a specific context or emerging through the processes of shaping and representation.

Emphasis is placed on understanding the potential of various visual, audiovisual, and narrative media and techniques—used individually or in combination—as tools for identifying, evaluating, and presenting both the visible and invisible parameters that define the "physiognomy" and "identity" of particular places and spatial conditions.

The ultimate goal is the creation of representative visual, audiovisual, or plastic forms that, through selective reconstruction of reality and information gathered via observation, highlight the unique aesthetic and conceptual qualities of space as experienced and internalized on both individual and collective levels.

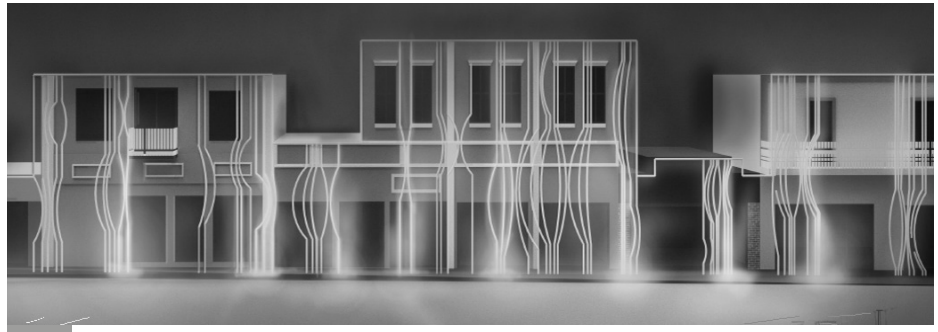
LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Understand the parameters that define the aesthetic and conceptual content of spatial and formal concepts, and their interrelation.
- Analyse the relationship between the aesthetic and conceptual aspects of form.
- Recognise the importance of analytical and experiential approaches, observation, and recording for in-depth knowledge and interpretation of spatial structures.

LECTURERS: Antonis Michailidis - Professor
Panagiotis Kozokos - Associate Professor

ECTS: 4
HOURS: 4



Γ04ΥΠ

STRUCTURAL ENGINEERING III – STEEL, TIMBER AND COMPOSITE STRUCTURES

The course analyzes the structural organization, design, and implementation of steel, timber, composite/mixed structures, as well as load-bearing masonry and other specialized construction types. Its aim is to familiarize students with the potential of these structural systems to fulfill and support architectural design requirements.

It introduces fundamental principles for the structural organization of steel, timber, composite, and masonry-based systems, along with special structures, in relation to the formal and functional demands placed on the structural system. Topics include the systematic classification of structural systems and selection criteria.

The course also covers basic dimensioning principles for tension and compression members, bending, shear, combined bending and axial forces, buckling, and torsion.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Recognise the capabilities of different structural systems in supporting and completing architectural designs.
- Understand the fundamental principles of designing with steel, timber, masonry, composite, and specialised systems.

ECTS: 3
HOURS: 4

LECTURER: Aikaterini Baltzopoulou - Professor

BUILDING CONSTRUCTION I

Γ05ΥΠ

The aim of the course is to enable students to recognize and understand the structural and overall constructive dimensions and configurations of architectural works. Simultaneously, it seeks to develop the necessary skills to critically assess and verify design proposals from a constructional perspective.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Demonstrate knowledge of the historical development of building systems and recognise them in the built environment.
- Distinguish the four primary building systems and identify them in architectural contexts.
- Understand load-bearing and non-load-bearing elements and their functional roles.
- Integrate these concepts to compose and design a small-scale building, including general construction drawings (plans, sections, elevations).
- Develop detailed construction drawings for specific building elements.

LECTURERS: Eleftheria Deligiannidou - Assistant Professor
Christos Koutelis - Assistant Professor

ECTS: 5
HOURS: 4

Γ07ΥΠ ART HISTORY: MODERN ART (FROM 1945 ONWARDS)

Art movements after 1945:
Abstract Expressionism, European Abstraction, Neo-Dada, Pop Art,
Art and Technology, Nouveau Réalisme, Minimal Art, Conceptual Art,
Process Art, Arte Povera, Site-specific Art, New Realism, and Ethnic Art.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

• Acquire substantial knowledge of major post-war and contemporary art movements and their historical and socio-economic contexts.
• Critically engage with the works of significant artists.
• Analyse and interpret the general and specific characteristics of a wide range of art movements.
• Situate and interpret artworks as expressions of broader cultural heritage, linking them with other aspects of European literature, philosophy, and social thought, while preserving their historical context.

ECTS: 5
HOURS: 4

LECTURER: Ioannis Kolokotronis- Professor

Δ01ΥΠ ARCHITECTURAL COMPOSITION IV

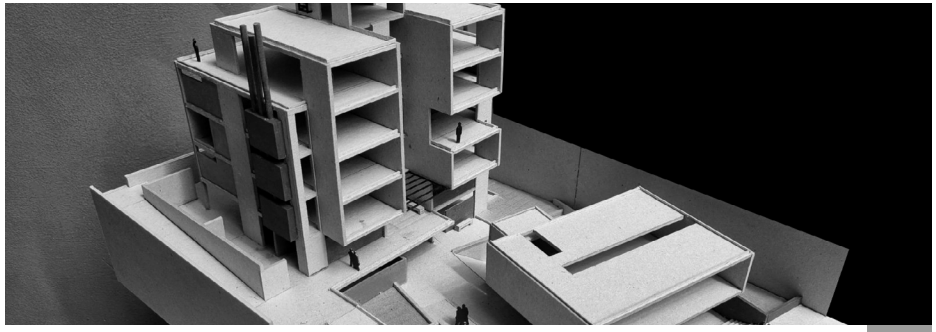
The course content directly addresses issues of collective housing as both an architectural and social phenomenon, alongside the topic of vertical building development. The central focus is the design of a small apartment building within a dense urban environment. The building will comprise 5–10 apartments of varying sizes, designed to accommodate the diverse needs of potential residents. Additionally, the design must incorporate a public-use space such as a gallery, multipurpose hall, or similar facility.
The transition from the single dwelling unit, covered in Architectural Composition III in the previous semester, to a collective housing complex is a deliberate pedagogical decision. This enriches the design process through the exploration of individual unit types and arrangements, their interrelationships, and a deeper understanding of the inherent principles, challenges, and contradictions of such a project—broadening students' design and compositional skills.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:
• Observe, record, and analyse complex and dense urban environments.
• Recognise and evaluate key design parameters, including solar orientation, natural ventilation, prevailing winds, site views, and adaptation to topography through the organisation of building volumes, outdoor spaces, and access routes.
• Assess the influence of adjacent buildings and the wider built environment on site advantages and constraints.
• Engage with the design of typologies and standard layouts, organising individual units and synthesising them into a coherent ensemble.
• Analyse complex relationships and interdependencies within the design at a conceptual and spatial level.
• Consider and address social issues in collective housing, including cultural, social, and other potential differences or inequalities among residents etc.

ECTS: 12
HOURS: 7

LECTURERS: Dimitris Polychronopoulos - Professor
Stavros Dendrinos - Associate Professor
Christos Koutelis - Assistant Professor

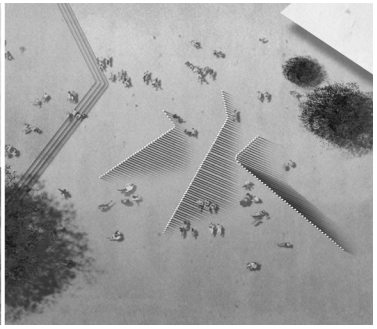


VISUAL ARTS IV Δ03ΥΠ

This course continues the thematic exploration of the previous semester, focusing on the function and impact of architectural and visual arts interventions, as well as their communicative potential within the physical environment—particularly in the urban context.
Fieldwork assignments emphasize the development of design programs involving visual or broader aesthetic interventions, which may also have a functional character. These interventions can take the form of installations, temporary or permanent actions, or architectural constructions, prioritizing aesthetic coherence and a direct relationship with the specific site or urban environment studied and interpreted previously.
The primary objective is to explore the potential of such interventions to comment on, highlight, challenge, or generate new spatial values and qualities. Concurrently, students are expected to substantiate the role of artistic activity within social space and the relevance of architectural design to everyday life and contemporary perceptions of urban living.
Upon successful completion of the course, students will be able to: *LEARNING OUTCOMES*
• Understand the interdependence between forms, spaces, and the historical, social, cultural, and economic context in which they are embedded, and how these factors influence design decisions.
• Recognise the importance of qualitative field research in the design process.
• Analyse how contemporary artistic practices engage with spatial and social contexts.
• Experiment with and apply contemporary tools for holistic research, analysis, synthesis, and processing of data that inform the aesthetic, symbolic, and social character of spaces.
• Develop skills in visual, representational, and narrative media for documenting, interpreting, and presenting design interventions.

LECTURERS: Antonis Michailidis - Professor
Panagiotis Kozokos - Associate Professor

ECTS: 4
HOURS: 4



Δ04ΥΠ STRUCTURAL ENGINEERING IV – REINFORCED CONCRETE AND SEISMIC DESIGN

This course covers the fundamental concepts of reinforced concrete structures, including the properties and mechanical behavior of concrete and reinforcing steel. It introduces the basic principles of designing reinforced concrete elements, focusing on dimensioning critical cross-sections for bending, shear, torsion, and punching shear. The course addresses second-order effects, serviceability limit states related to deformations, and crack width control.
Key design principles for structural components such as one-way and two-way slabs, ribbed slabs, beams, columns, and foundations are examined. The curriculum also covers constructional arrangements for seismic-resistant design, along with analysis and design principles for seismic actions. Topics include the morphology of structural systems and relevant construction requirements. Students participate in practical exercises based on ongoing construction projects to apply and consolidate theoretical knowledge.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:
• Understand the fundamental design principles of reinforced concrete structures.
• Apply Greek Design Codes and Eurocodes in the analysis and design of reinforced concrete structures under static and seismic loads.
• Recognise architectural forms and configurations that promote favourable seismic behaviour, reducing vulnerability and enhancing structural performance.
• Analyse the behaviour of reinforced concrete structures under seismic loads, considering architectural form and structural configuration.
• Evaluate the interaction between structural systems and architectural design to ensure functional, safe, and resilient buildings.

ECTS: 3
HOURS: 4

LECTURER: Aikaterini Baltzopoulou - Professor

BUILDING CONSTRUCTION II Δ05ΥΠ

The course aims to develop students' awareness of the fundamental relationship between architectural design and structural construction by examining the various stages involved in building construction. It cultivates both analytical and synthetic construction skills, alongside proficiency in relevant building design tools.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:
• Develop and synthesise the structural framework of a small reinforced concrete building.
• Select infill, cladding elements, and finishing materials (e.g., flooring, plaster, and surface treatments).
• Prepare general construction drawings, including floor plans, roof plans and slopes, sections, and elevations.
• Design formwork and foundation layouts.
• Develop detailed construction drawings for key architectural and structural elements.

LECTURERS: Eleftheria Deligiannidou - Assistant Professor
Christos Koutelis - Assistant Professor

ECTS: 5
HOURS: 4

Δ06ΥΠ PROTECTION, ANALYSIS AND DOCUMENTATION OF HISTORIC SETTLEMENTS

This course promotes an analytical approach to architectural values and the dialogue between past and present. It aims to expand students' knowledge of cultural heritage through the study and analysis of both individual architectural works and entire settlements.
Emphasis is placed on deepening the understanding of architectural composition in existing buildings through documentation methods, critical observation, and analysis of creative and construction processes.
The objective is to foster recognition and appreciation of traditional settlements in the country, highlighting the enduring value of architectural forms and the necessity of their protection.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

• Understand the principles of documentation and conservation of cultural heritage, from individual monuments (architectural scale) to historic urban ensembles (urban scale).
• Apply methods for analyzing and documenting historic settlements, including planning and implementing comprehensive conservation projects.
• Identify typological and morphological characteristics of urban spaces and understand their role in preserving the historical and architectural continuity of a place.
• Recognize the broader responsibilities of heritage preservation, which extend beyond the protection and maintenance of the architectural fabric to include the management of urban cohesion, integrity, and order.
• Develop critical thinking and interdisciplinary awareness regarding the role of architecture and urban form in cultural identity and heritage conservation.

ECTS: 3
HOURS: 4

LECTURERS: Anastasia Kapandriti - Assistant Professor
Aikaterini Ritzouli- Assistant Professor

HISTORY OF ARCHITECTURE II: THE WEST (9th–19th century & 20th–21st century) **Δ07ΥΠ**

Modern Architecture:
Industrial City – Classical Rationalism.
Futurism. Expressionism in Germany.
Main Modernism: Dutch De Stijl School. The Bauhaus School.
Suprematism, Constructivism, Rationalism in the Soviet Union.
Purism.
International Style.
Architecture and the State.
Contemporary Architecture in Europe and Greece:
Late Modernism, Neo-Expressionism, Brutalism,
Neo-Rationalism, Postmodernism, Deconstruction, Critical Regionalism.
Interwar, postwar and contemporary architecture in Greece.

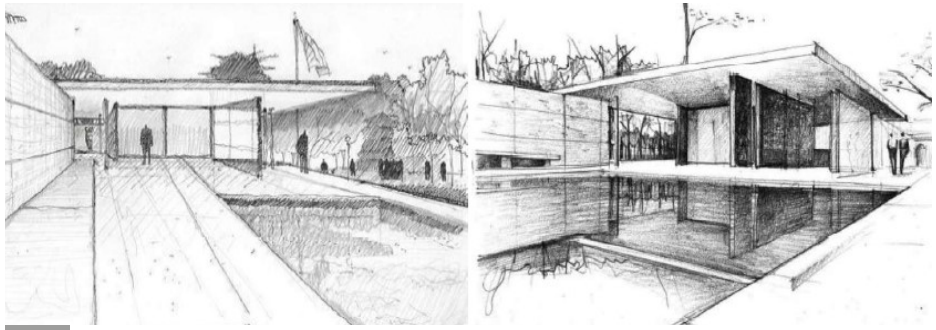
LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

• Acquire a broad understanding of architectural evolution in Western Europe from the 9th to the 19th century, linked to historical, social, and economic conditions.
• Gain a comprehensive overview of urbanization and architectural production in Europe and America from the early 20th century to the present.
• Understand the trajectory of architectural production in 20th-century Greece.
• Identify key architectural works, movements, and creators, recognizing their general and specific characteristics.
• Engage in critical analysis of dominant architectural trends, their emergence, evolution, interaction, and decline, alongside the theoretical discourse of each period etc.

LECTURER: Anastasia Kapandriti - Assistant Professor

ECTS: 3
HOURS: 4



3rd year

E01ΥΠ ARCHITECTURAL DESIGN V

This course directly addresses collective housing as both an architectural and social phenomenon, alongside vertical building development. The central design project involves a small apartment building within a dense urban environment, comprising 5 to 10 apartments of varying sizes to meet diverse resident needs. Additionally, the project includes a public-use space, such as a gallery or multipurpose hall.

The transition from individual housing units, studied in Architectural Design III during the winter semester, to a collective housing complex is a deliberate pedagogical choice. This shift enriches the design process through exploring unit types, spatial arrangements, relationships, and the challenges and contradictions inherent in collective housing, thereby broadening students' design and compositional skills.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

• Analyze and design the form and massing of a public building to support circulation, interaction, and integration with the surrounding urban context.
• Determine the degree of accessibility and openness appropriate to the intended public function and architectural expression.
• Prioritize and combine various public functions, balancing their spatial and functional relationships within a single project.
• Apply controlled compositional thinking across multiple spatial scales: city (macro), building (meso), and interior spaces (micro).
• Effectively use design tools and methodologies to support architectural analysis and proposal development.
• Understand and articulate the spatial and symbolic significance of design decisions in relation to the public character and meaning of the space.

ECTS: 12
HOURS: 7

LECTURERS: Theoni Xanthi - Professor
Stavros Dendrinos - Associate Professor
Georgios Papagiannopoulos - Associate Professor

ARCHITECTURAL DESIGN AND NEW TECHNOLOGIES I – BUILDING INFORMATION MANAGEMENT SYSTEMS (BIM) E02ΥΠ

In recent years, there has been a significant shift in how architects work, communicate, and collaborate with other engineering disciplines involved in architectural projects. Building Information Modeling (B.I.M.) software is not merely a complex supportive design platform but a comprehensive system for designing, organizing, communicating, and managing architectural projects. It enables diverse project teams to update and be updated simultaneously in real time throughout the design and construction process.

Since every design tool embodies a new way of perceiving architecture itself, a thorough understanding of BIM is essential to fully grasp the new possibilities it offers in architectural production.

Third-year students have the maturity to comprehend such a complex tool and gain valuable experience with a working model that is gradually becoming dominant in architectural practice. This experience enables them to apply BIM at various stages and scales—from preliminary studies and general layouts to detailed execution plans and construction details.

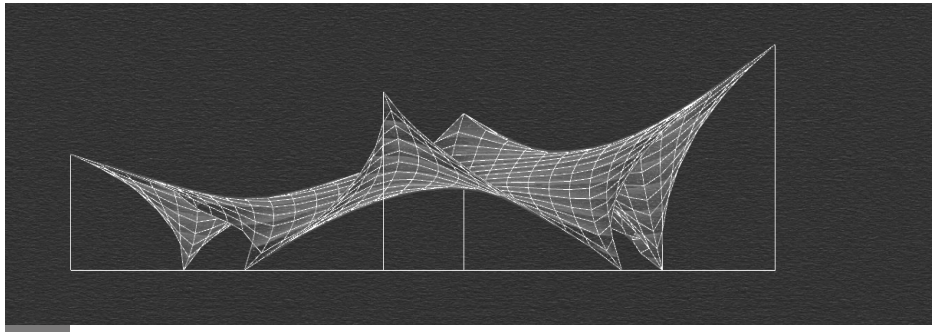
LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

• Develop and manage all stages of a complex architectural project, from initial layouts to detailed construction plans, using BIM tools.
• Understand and apply the integration of architectural information across multiple scales and stages, ensuring coherence in design and documentation.
• Gain practical experience with collaborative digital workflows, preparing for professional practice in large-scale, multidisciplinary design teams.
• Analyze and verify construction and design decisions through digital simulation and data management.
• Enhance teamwork and project coordination skills, reflecting professional architectural office practice.
• Apply digital tools to explore and resolve architectura challenges, etc

LECTURER: Dimitris Giouzepas - Assistant Professor

ECTS: 6
HOURS: 5



E03УП BUILDING CONSTRUCTION III – ENERGY DESIGN

The course aims to familiarize students with the theoretical foundations and technical solutions related to energy design and energy efficiency in buildings. Additionally, it addresses the resolution of complex construction challenges in multi-storey buildings with large floor areas and mixed-use functions.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

- Select the optimal building orientation according to the intended use of interior spaces.
- Design appropriate openings and shading devices to achieve visual comfort and energy efficiency.
- Apply climate, solar, and lighting data to inform building layout and envelope design.
- Integrate passive heating and cooling strategies into the architectural and structural design.
- Implement energy-saving techniques within bioclimatic design frameworks.
- Develop collaborative design projects coordinating structural layout, circulation cores, openings, and shading devices for multi-story buildings with complex functions.

ECTS: 3
HOURS: 4

LECTURER: Eleftheria Deligiannidou - Assistant Professor

URBAN PLANNING I E04УП

Introduction to the fundamental concepts of the defining elements of the city in relation to the cultural, economic, social, and historical factors that shape them. Examination of methods for identifying and representing the urban environment. A systematic approach to the basic concepts of the functional and morphological organization of cities. Presentation of methodologies for representing the urban context as a means of perceptual induction, critical inquiry, and structured communication of lived experience.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Understand the principal concepts and terminology used in contemporary urban analysis.
- Identify key problems and opportunities within the evolving context of urban activities and development.
- Analyse the interrelations between spatial, social, economic, and morphological parameters, recognising resulting social and spatial polarizations and the role of active urban agents.
- Employ representation methods to observe, document, and communicate urban conditions and design proposals effectively.

LECTURER: Georgios Patrikios - Assistant Professor

ECTS: 3
HOURS: 4

E05УП ARCHITECTURAL THEORY

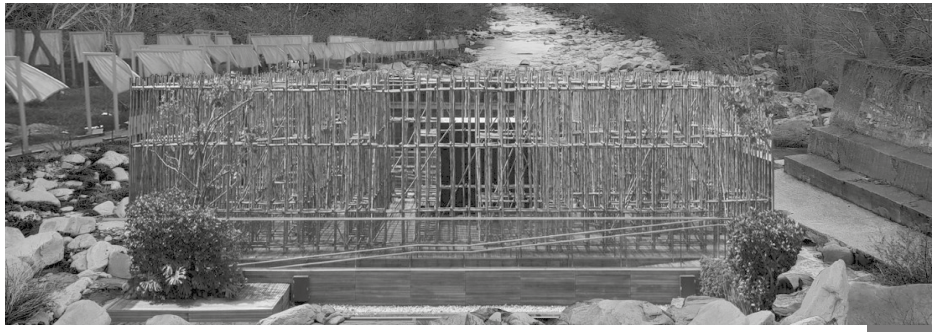
The course “Architectural Theory” explores key architectural concepts and elements that have consistently and contextually shaped architectural thought—both in the creation of architectural works and their critical interpretation. Through the study and analysis of drawings by prominent architects, comparative critiques of architectural works, and the connection to the humanities, the course aims to highlight the essential role of theory in architectural practice.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

- Understand architecture as a reflection of cultural, social, and scientific contexts.
- Analyze buildings and spaces using multiple theoretical lenses.
- Recognize the influence of philosophical and scientific thought on architectural expression.
- Communicate architectural concepts through varied media.
- Critically assess the relationship of architecture to place, time, and cultural identity.

ECTS: 3
HOURS: 4

LECTURER: Aikaterini Ritzouli- Assistant Professor



MORPHOLOGICAL INVESTIGATION AND MANAGEMENT OF EXISTING STRUCTURES IN HISTORIC ENVIRONMENTS E02ЕП

This course focuses on the architectural design of integrating contemporary constructions within historic urban complexes or archaeological sites. It acknowledges that the protection and enhancement of historic buildings and ensembles, along with active design interventions, constitute a specialized field requiring advanced knowledge and creative approaches grounded in solid theoretical foundations. This is in accordance with internationally accepted guidelines such as the Venice Charter, the Amsterdam Declaration, the Granada Convention, and the Washington Charter for Historic Towns, among others.
In this course:
a) Theoretical issues related to the morphological investigation and analysis of individual historic buildings and urban ensembles are developed through lectures, site visits, and practical exercises;
b) The morphological integration of new constructions into historic settlements is examined as a crucial factor for protecting the form and character of these areas;
c) Representative examples of contemporary structures integrated into historic environments are presented;
d) Practical workshop applications are conducted, focusing on the design and integration of a new building within a historic urban ensemble.

LEARNING OUTCOMES
Upon successful completion of the course, students will be able to:

- Understand and engage with the principles of protection and enhancement of architectural heritage.
- Apply the guidelines of international charters and conventions for the conservation of cultural heritage and historic environments.
- Address the integration of contemporary constructions into historic contexts, considering both morphology and construction technology etc.

LECTURER: Anastasia Kapandriti - Assistant Professor

ECTS: 3
HOURS: 4

E04ΕΠ VISUAL ARTS V – SCENOGRAPHY

This course focuses on the applied exploration of the relationship between aesthetic form and specific conceptual content or ideas.
The assignments aim to deepen both the theoretical understanding and practical skills developed in previous semesters.
Practices, media, and techniques covering the entire process—from critical analysis and initial conception, through the design process, to the assembly and presentation of the final proposal—are employed to ensure successful completion.
The final proposal is supported by comprehensive design software that addresses the process, the final outcome, and its presentation.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

• Understand the close relationship between visual form and the spatial conditions of theatrical space.
• Recognize the connection between conceptual content and the structural and constructive logic of scenic design.
• Develop critical thinking, research, and experimental skills in order to explore and consolidate the full creative process, from analysis and idea generation to the realization of a coherent scenic composition.
• Work both independently and collaboratively, applying appropriate design methods and strategies throughout the scenographic design and production process.

ECTS: 3
HOURS: 4

LECTURER: Dimitris Giouzepas - Assistant Professor

VISUAL ARTS V – FUNCTIONAL OBJECT E05ΕΠ

This course focuses on the applied investigation of the relationship between aesthetic form and a specific conceptual content or idea, emphasizing their potential for integration into a functional object.
The coursework aims to further consolidate both theoretical and practical knowledge acquired in previous semesters.
A range of practices, media, and techniques is employed, covering the entire process—from critical analysis and initial conceptualization to design development and the structured presentation of the final proposal.
The final project is supported by comprehensive design tools that ensure coherence in process, outcome, and presentation quality.

Upon successful completion of the course, students will be able to: *LEARNING OUTCOMES*

• Understand the close interaction between an aesthetic form and the spatial context in which it develops.
• Recognize the direct link between the conceptual content of the aesthetic form and its structural and constructive logic.
• Develop critical thinking, research, and experimental skills in order to explore and implement the full design process, from analysis and idea generation to the realization of a meaningful aesthetic form.
• Work independently and collaboratively, applying acquired methods and strategies throughout the creative and presentation process.

LECTURER: Antonis Michailidis - Professor

ECTS: 3
HOURS: 4

E06ΕΠ VISUAL ARTS V – AESTHETIC INTERVENTIONS IN PUBLIC SPACE

This course focuses on the applied negotiation of the relationship between aesthetic form and specific conceptual content or ideas, as they are expressed through artistic interventions in public space.
The projects aim to further consolidate the theoretical and practical knowledge acquired in previous semesters.
A variety of practices, media, and techniques are employed throughout the entire process—from critical analysis and conceptual development to the design process and the final presentation of the proposal.
The final project is supported by comprehensive design tools that ensure consistency and completeness in terms of process, outcome, and presentation.

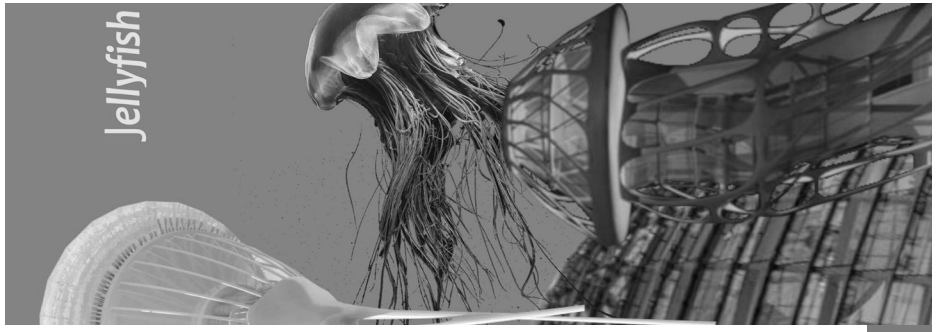
LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Understand the close interaction between an aesthetic form and the spatial context in which it develops.
- Recognize the direct link between the conceptual content of the aesthetic form and its structural and constructive logic.
- Develop critical thinking, research, and experimental skills in order to explore and implement the full design process, from analysis and idea generation to the realization of a meaningful aesthetic form.
- Work independently and collaboratively, applying acquired methods and strategies throughout the creative and presentation process.

ECTS: 3
HOURS: 4

LECTURER: Panagiotis Kozokos - Associate Professor



SPECIAL TOPICS IN MICRO-ENVIRONMENTAL DESIGN I E07ΕΠ

This course addresses compositional issues related to the “close-up,” tactile perception and experience of architectural space, highlighting the transition from small to large design scales. This shift fundamentally influences the qualities of the realized architectural project.
The aim is to develop students’ capacity to navigate fluidly between different design scales—from overall layout to detailed articulation—while ensuring coherence and unity in the architectural composition at every level.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Respond effectively to the detailed design of small-scale building constructions with simple programs.
- Approach design challenges related to the composition and completion of architectural spaces.
- Focus on the organization and arrangement of architectural space, both interior and exterior, and the detailed articulation of its boundaries.
- Integrate basic structural systems and specialized construction elements into the composition and refinement of architectural space.
- Correlate functional, structural, and morphological aspects in design decisions.
- Utilize architectural representation tools for the development, refinement, and presentation of architectural proposals.

LECTURERS: Eleni Amerikanou - Professor
Panos Loukas Exarchopoulos - Assistant Professor

ECTS: 3
HOURS: 4

E08ΕΠ PHOTOGRAPHIC COMPOSITION I

The course focuses on highlighting photography as a medium that synthesizes and structures the architect's way of seeing. Throughout the course, the concept of the Photographic Landscape is examined as both a form of representation and a creative expression, open to multiple interpretative approaches depending on the context (urban, natural, etc.). It is shaped by social and cultural factors, embodying a specific way of viewing characterized by unique techniques and compositional features. In this sense, photography transcends its straightforward representational function to become a defined and structured mode of perceiving visible reality.

The course aims to familiarize students with the process of transforming the empirical environment into photographic imagery. Its purpose is to reinforce the understanding that certain aspects of cultivating the gaze are unique to the photographic medium and cannot be substituted by other artistic or creative forms of expression.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

- Understand and interpret the photographic works of major creators.
- Recognize the visual impact of the compositional parameters of an image.
- Demonstrate knowledge of basic technical aspects of photography.
- Use photography as a tool to develop their compositional skills in architectural observation.
- Employ photography creatively within academic projects and future professional practice.
- Develop new perspectives on architecture and urban space through photographic observation.
- Explore composition and landscape concepts within a defined cultural and spatial framework.
- Appreciate the role of cultivating the gaze as a compositional instrument.

ECTS: 3
HOURS: 4

LECTURERS: Dimitris Polychronopoulos - Professor
Panagiotis Gouliaris - Associate Professor

ΣΤ01ΥΠ ARCHITECTURAL DESIGN VI

The course focuses on collective housing as both an architectural and social phenomenon. The core design assignment involves developing a small multi-storey residential building in a dense urban environment. The project includes designing 5 to 10 residential units of varying sizes to meet diverse inhabitant needs, along with a ground-level public space such as a gallery, cultural hub, or multipurpose venue.
This transition from the individual dwelling unit (addressed in Architectural Design III) to a collective housing complex represents a deliberate pedagogical step, enriching the design process through the study of unit typologies, layouts, interrelations, and the challenges inherent to such projects. Through this, students enhance their design thinking, spatial composition, and architectural skills across scales and programs.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

- Employ established architectural spatial configurations, including building massing, user circulation, and their relationship to the surrounding context.
- Establish hierarchies of access and movement, defining levels of openness and priority according to programmatic intentions and user groups.
- Define spatial priorities within the site and develop coherent groupings of uses that structure the architectural programme.
- Develop a reflective and controlled design approach that balances ergonomic, environmental, and conceptual dimensions of spatial design in order to achieve a coherent architectural character.
- Critically use and evaluate design tools and methods within the architectural design process.
- Understand and articulate the compositional principles that shape the meaning, organisation, and spatial expression of architecture.

ECTS: 12
HOURS: 7

LECTURERS: Theoni Xanthi - Professor
Christos Koutelis - Assistant Professor

BUILDING CONSTRUCTION IV – BUILDING PROTECTION AND MEP SYSTEMS ΣΤ03ΥΠ

The course aims to familiarize students with technical solutions for building protection, including thermal insulation, sound insulation, and waterproofing. It also introduces fundamental design requirements for mechanical, electrical, and plumbing (MEP) systems in conventional buildings, encompassing water supply, drainage, electrical power, central heating, and mechanical rooms.
Special emphasis is placed on the challenges posed by multi-storey buildings with large footprints and complex mixed-use programs. Students are expected to understand the integration of protective construction methods with MEP design, contributing to the overall functionality and sustainability of contemporary architectural projects.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

- Collaborate effectively with engineers responsible for the building's MEP installations.
- Assess the protection requirements and select appropriate insulating materials and protective construction solutions.

LECTURER: Eleftheria Deligiannidou - Assistant Professor

ECTS: 3
HOURS: 4

ΣΤ04ΥΠ URBAN PLANNING II

This course provides an introduction to methodologies for urban intervention and addresses key theoretical approaches to urban design. It presents the most important tools used in the context of urban planning and urban regeneration.
Through hands-on engagement with specific research areas, students develop the ability to identify the potentials, limitations, and implications of implementing different urban planning strategies within complex and ever-changing urban environments. The course also promotes an understanding of the critical role of social actors and their involvement in the power dynamics that shape spatial policies.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Understand the fundamental concepts and terminology of urban planning.
- Assess the potential, limitations, and implications of different strategies and instruments of urban intervention within the complex and evolving urban context.
- Understand the role of social actors and their engagement in the power dynamics that shape spatial policies.
- Integrate urban programming and urban design approaches in the management and organization of the urban environment, with particular emphasis on public space.
- Recognize the multifaceted relationships and inherent tensions that arise in the transition from planning to implementation in the built environment.
- Apply appropriate representation methods to communicate urban programming and urban design proposals effectively.

ECTS: 3
HOURS: 4

LECTURER: Georgios Patrikios - Assistant Professor

ART THEORY ΣΤ05ΥΠ

This course explores theoretical and historical approaches to art, covering topics such as art and the economy, museums and artworks, cultural management, public space and public art, private art collections, and art criticism. The course aims to provide students with a critical understanding of how art functions within broader socio-economic, institutional, and spatial frameworks.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- acquire a solid understanding of major theoretical approaches in Western art, with particular emphasis on developments from the 20th century to the present.
- Examine, through a range of examples, the theoretical frameworks articulated by artists, critics, and curators.
- Engage critically with key contemporary concepts and debates, including the Avant-Garde, the trajectory of the Multiple, Relational Art, Abject Art, vandalism as artistic practice, Eros, Feminist Art, Appropriation Art, the impact of the 2020–2022 pandemic on artistic production, Land Art and Architecture, the relationship between architecture and art in museum contexts, Architecture as Art – Art as Architecture, as well as major institutional phenomena such as biennales, Documenta, and blockbuster exhibitions.
- Understand contemporary art as an expression of globalized cultural discourse, reflecting on the critical issues and challenges posed by the 20th and 21st centuries.

LECTURER: Ioannis Kolokotronis - Professor

ECTS: 3
HOURS: 4

ΣΤ06ΥΠ ARCHITECTURE AND LANDSCAPE

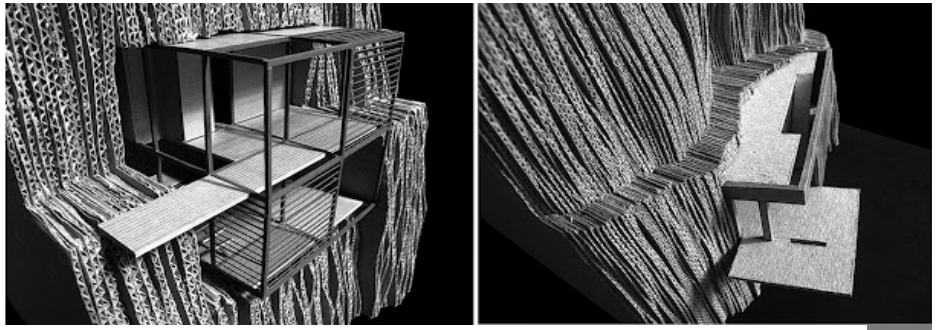
This course investigates theoretical issues concerning the clarification of key concepts and the perceptual interpretation of landscape. Students engage in a small-scale design project within a defined spatial context, focusing on the integration of architectural form into the landscape.
Through the exploration of landscape interpretation and architectural adaptation to specific topographies, the course encourages the development of both personal and collective design perspectives. The emphasis moves beyond conventional site planning to understanding the conditions under which architecture arises in a particular place—considering not only the "plot" but also the broader geographic, physical, and cultural context.
Particular emphasis is placed on the role of terrain in shaping a dialectical relationship between architecture and landscape, anchoring design decisions in the specificity and character of place.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

- Demonstrate foundational knowledge of landscape theory.
- Read, assess, and compose spatial characteristics within a landscape.
- Investigate the relationships between the natural and the built environment.
- Understand the perception of the subject in relation to the surrounding place.
- Propose strategies for integrating architectural interventions within the natural landscape/environment.
- Recognize the significance of boundaries between the anthropogenic and natural landscape.
- Consider the reversibility of architectural interventions with respect to the natural landscape etc.

ECTS: 6
HOURS: 5

LECTURERS: Maria Grigoriadou - Associate Professor
Christos Koutelis - Assistant Professor



VISUAL ARTS VI – SCENOGRAPHY ΣΤ04ΕΠ

The course focuses on the applied exploration of the relationship and methods connecting aesthetic form with specific conceptual content or ideas. The assignments aim to deepen the theoretical and practical knowledge developed in previous semesters.
Practices, tools, and techniques covering the entire process—from critical analysis and conception of the initial idea to the design, composition, and presentation of the final proposal—are employed to ensure successful completion. The final proposal is supported by integrated design software, encompassing the entire process, the final outcome, and its presentation.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

- Understand the inextricable relationship between aesthetic form and the spatial context in which it develops.
- Recognize the connection between the conceptual content of an aesthetic form and its structural and constructive logic.
- Develop critical thinking, research skills, and experimental approaches in order to explore and apply investigative and design methodologies from the initial concept to the realization of a meaningful aesthetic form.
- Work both independently and collaboratively within the design process.

LECTURER: Dimitris Giouzepas - Assistant Professor

ECTS: 3
HOURS: 4

ΣΤ05ΕΠ VISUAL ARTS VI – APPLIED OBJECT DESIGN

The course focuses on the applied exploration of the relationship and methods connecting aesthetic form with specific conceptual content or ideas. The assignments aim to further consolidate the theoretical and practical knowledge developed in previous semesters.
Practices, tools, and techniques covering the entire process—from critical analysis and conception of the initial idea to the design, composition, and presentation of the final proposal—are employed to ensure successful completion of the course. The final proposal is supported by integrated design software, encompassing the entire process, the final outcome, and its presentation.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Understand the intrinsic relationship and interaction between aesthetic form and the spatial context in which it develops.
- Comprehend the direct relationship between the content of an aesthetic form and its structural and constructional logic.
- Cultivate critical thinking, research skills, and experimental approaches aimed at identifying and applying investigative and design methodologies throughout the design process, from the initial concept to the realization and construction of a meaningful aesthetic form.
- Develop the ability to work both independently and collaboratively within a design process.

ECTS: 3
HOURS: 4

LECTURER: Antonis Michailidis - Professor

VISUAL ARTS VI – AESTHETIC INTERVENTIONS IN PUBLIC SPACE ΣΤ06ΕΠ

The course focuses on the applied exploration of the relationship between aesthetic form and specific conceptual content or ideas. The assignments aim to further consolidate the theoretical and practical knowledge developed in previous semesters.
Practices, tools, and techniques encompassing the entire process—from critical analysis and conception of the initial idea to the design, composition, and presentation of the final proposal—are employed to ensure the successful completion of the course. The final proposal is supported by integrated design software, covering the entire workflow, the final outcome, and its presentation.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Understand the intrinsic relationship and interaction between aesthetic form and the spatial context in which it develops.
- Comprehend the direct relationship between the content of an aesthetic form and its structural and constructional logic.
- Cultivate critical thinking, research skills, and experimental approaches aimed at identifying and applying investigative and design methodologies throughout the design process, from the initial concept to the realization and construction of a meaningful aesthetic form.
- Develop the ability to work both independently and collaboratively within a design process.

LECTURER: Panagiotis Kozokos - Associate Professor

ECTS: 3
HOURS: 4

ΣΤ07ΕΠ SPECIAL TOPICS IN MICROENVIRONMENTS II

This course addresses the architectural organization of spaces and microenvironments within building units of limited size, intended for common or specialized uses (residential, commercial, work, educational, recreational spaces, outdoor areas, etc.). It is the second of two compulsory elective semester courses and follows "Special Topics in Microenvironments I," sharing the same overall objective. However, the subject matter is expanded to further develop students' experience and compositional skills, enabling them to engage with more complex and varied architectural proposals focused on the organization and requirements of individual spaces characterized by distinctive features and specialized microenvironments.

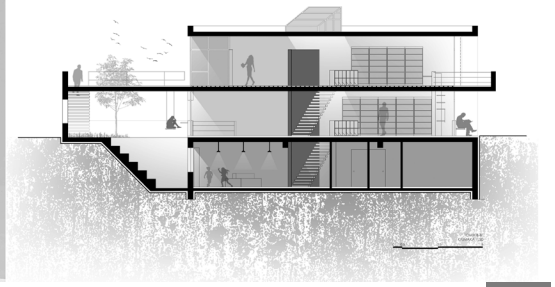
LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Respond effectively to the detailed design of small-scale architectural projects with relatively simple programs.
- Address design challenges related to the composition and articulation of architectural space.
- Focus on the organization and arrangement of architectural spaces (interior and exterior) and the detailed articulation of their boundaries.
- Integrate basic construction systems and specialized elements within the composition and development of architectural spaces.
- Correlate functional, constructive, and formal issues within a coherent architectural solution.
- Utilize architectural representation tools to support the composition, development, and presentation of architectural proposals.

ECTS: 3
HOURS: 4

LECTURERS: Eleni Amerikanou - Professor
Theoni Xanthi - Professor



AUDIOVISUAL MEDIA AND ARCHITECTURE ΣΤ08ΕΠ

The moving image is increasingly employed for the representation, understanding, and presentation of architectural work. Moreover, architects, leveraging their iconoclastic skills, often engage in the production of audiovisual works, even when these are not directly related to spatial design.
It is evident that temporal recording and spatial movement offer qualities that contribute to a different—and more complete—perception of architectural space, elements that static visual representation cannot fully capture. Additionally, sound qualities can emphasize or alter users' perception of space.
Student engagement and hands-on experience with audiovisual media can provide numerous educational benefits related to the representation and perception of space, as well as the production and enhancement of spatial qualities that cannot be designed or conveyed through conventional design tools.
The course combines theoretical readings with experimental applications, covering a broad spectrum of architectural aspects revealed through audiovisual recordings and representations.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Communicate and present architectural projects through audiovisual media.
- Produce and edit motion images and video content.
- Develop design skills alongside a deeper theoretical understanding of audiovisual representation in architecture.
- Experiment with tools and techniques for the creation and manipulation of visual and auditory media.

LECTURER: Dimitris Giouzepas - Assistant Professor

ECTS: 3
HOURS: 4

ΣΤ09ΕΠ PHOTOGRAPHIC COMPOSITION II

The course focuses on highlighting photography as a medium that synthesizes and structures the architect's way of seeing. Throughout the course, the concept of the Photographic Landscape is examined as both a form of representation and a creative expression, open to multiple interpretative approaches depending on the context (urban, natural, etc.). It is shaped by social and cultural factors, embodying a specific way of viewing characterized by unique techniques and compositional features. In this sense, photography transcends its straightforward representational function to become a defined and structured mode of perceiving visible reality.

The course aims to familiarize students with the process of transforming the empirical environment into photographic imagery. Its purpose is to reinforce the understanding that certain aspects of cultivating the gaze are unique to the photographic medium and cannot be substituted by other artistic or creative forms of expression.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Understand and interpret the photographic works of major creators.
- Recognize the visual impact of the compositional parameters of an image.
- Demonstrate knowledge of basic technical aspects of photography.
- Use photography as a tool to develop their compositional skills in architectural observation.
- Employ photography creatively within academic projects and future professional practice.
- Develop new perspectives on architecture and urban space through photographic observation.
- Explore composition and landscape concepts within a defined cultural and spatial framework.
- Appreciate the role of cultivating the gaze as a compositional instrument.

ECTS: 3
HOURS: 4

LECTURERS: Dimitris Polychronopoulos - Professor
Panagiotis Gouliaris - Associate Professor

4th year

Z01УП ARCHITECTURAL COMPOSITION VII

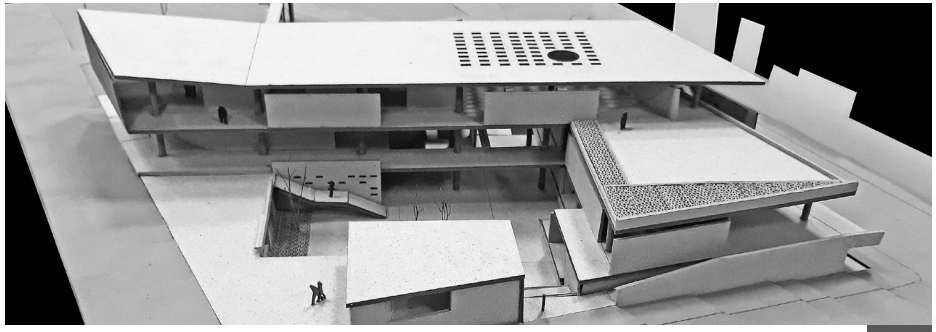
The subject of study concerns the architectural composition of a specialized building complex with a strong public character and social impact, aimed at reinforcing collective memory and promoting citizen education (e.g., Museum, Library, Arts Center, Exhibition/Trade/Leisure Center, etc.).
The course aims to synthesize the multiple and interrelated parameters involved in architectural design into a cohesive building complex—integrated in terms of function, meaning, and significance—that expresses a recognizable "place" of existence and reference, while simultaneously integrating with its immediate and broader environment, thereby restoring and reinforcing connections with it.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

- Integrate fundamental principles and concepts of architecture into the analysis and design of architectural space.
- Clarify and interpret the general and specific conditions of the site and its wider context.
- Address the requirements of a complex building program.
- Design a large-scale public building of significant importance within an urban environment.
- Integrate structural and construction systems as tools to shape and develop architectural space.
- Synthesize functional, structural, morphological, and other architectural considerations into a coherent design.
- Employ architectural representation tools for the development, refinement, and presentation of design proposals.

ECTS: 12
HOURS: 7

LECTURERS: Georgios Papagiannopoulos - Associate Professor
Panos Loukas Exarchopoulos - Assistant Professor



ARCHITECTURAL COMPOSITIONS OF SMALL SCALE Z02УП

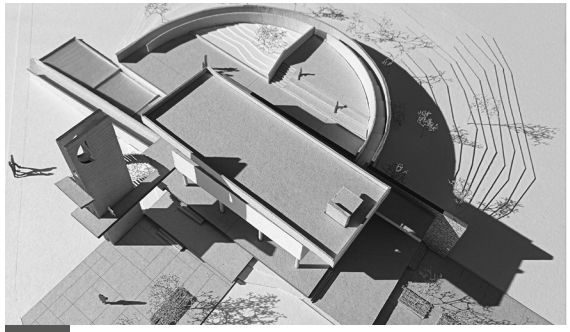
The subject matter concerns the focused study of the design of interior and/or outdoor spaces across various building categories (e.g., cafés, apartments, shops, exhibition spaces), as well as special constructions and elements (e.g., furniture, fixed and movable equipment, signage).
The course aims to deepen the understanding of spatial detail, highlighting its decisive contribution to expressing the desired character of each architectural proposal.
Through detailed investigation of the elements that compose and give identity to architectural space, students will become familiar with smaller-scale design, materials and their properties, construction details, as well as issues of symbolic expression and the "communication" of architectural components.

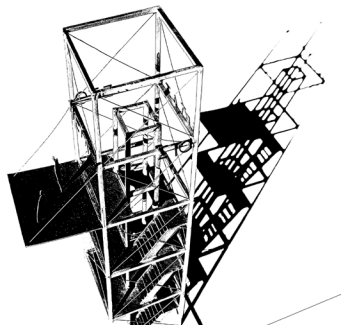
LEARNING OUTCOMES Upon successful completion of the course, participants will be able to:

- Consider the conditions and characteristics of the immediate context of the design project.
- Address the requirements of the detailed design of a small- to medium-scale building or specialized structure.
- Focus on the organization and arrangement of architectural spaces (interior or exterior) and the detailed articulation of their boundaries.
- Integrate specialized constructions into the development and refinement of architectural space.
- Synthesize functional, structural, morphological, and other architectural considerations into coherent design solutions.
- Use architectural representation tools to develop, refine, and present design proposals.

LECTURERS: Eleni Amerikanou - Professor
Panos Loukas Exarchopoulos - Assistant Professor

ECTS: 6
HOURS: 4





Z03ΥΠ SPATIAL PLANNING

Introduction to the basic concepts and thematic levels of spatial planning and regional development. A review of the history of spatial planning in Greece, including references to the responsible authorities and the institutional framework.
Special emphasis is placed on current spatial planning policy within the framework of the European Union, as well as on the main sectoral policies that directly influence spatial planning and regional development.
Conceptual approaches to space, planning, development, and the programmatic region are examined.
A detailed presentation of the content, objectives, responsible authorities, and instruments of spatial planning and its implementation is provided.
A critical review of the Greek experience is offered, considering both national policies and those outlined by the EU in relation to spatial planning.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

- Understand the basic concepts and terminology of spatial planning.
- Recognize the spatial dimension across diverse issues and sectoral policies.
- Analyze the role of urban centres and wider settlement networks in organizing activities and shaping regional economic dynamics.
- Understand spatial and development policies implemented in Greece and across the European Union.
- Develop frameworks for spatial policies that integrate developmental, social, economic, and environmental dimensions.
- Effectively use representation methods for large-scale spatial planning and interpret policy documents related to sectoral strategies.

ECTS: 4
HOURS: 4

LECTURER: Georgios Patrikios - Assistant Professor

DOCUMENTATION AND RESTORATION – REUSE OF HISTORIC BUILDINGS AND COMPLEXES I Z04ΥΠ

Through theoretical approaches and the presentation of applied studies, the course aims to familiarize students with both the theoretical and methodological issues related to the restoration, redesign, and reuse of historic buildings and complexes, as well as the specialized techniques and materials involved. The assimilation of this knowledge is assessed through written examinations at the end of the semester.
In parallel, students undertake practical exercises involving the documentation, drafting, representation, analysis, and recording of a representative building from the historic center of Xanthi. The objective is to develop students' ability to observe, analyze, and understand the historical and aesthetic values of historic buildings through systematic study and documentation of their types, forms, and distinctive structural systems. The exercise is developed throughout the semester, presented, and submitted at its conclusion.

LEARNING OUTCOMES Upon successful completion of the course, students are expected to:

- Become familiar with the documentation, protection, and management of architectural heritage, understanding the expansion of its scope from individual monuments (architectural scale) to historic settlement ensembles (urban scale).
- Apply methodologies for analyzing and documenting historic settlements through comprehensive case studies, critically reflecting on procedures, strategies, and means for their protection and preservation.
- Observe, analyze, and understand the historical, aesthetic, and cultural values of monuments and historic buildings.
- Identify the key typological elements of urban space and understand their dialectical relationship with the architectural fabric, appreciating their role in spatial coherence and symbolic meaning etc.

LECTURERS: Anastasia Kapandriti - Assistant Professor
Aikaterini Ritzouli- Assistant Professor

ECTS: 5
HOURS: 5

Z02ΕΠ THEATRICAL SPACE AND TECHNOLOGY

The course aims to familiarize students with the challenges of Theatrical Design within the field of Architectural Technology.
A series of lectures covering historical and theoretical content includes:

- Space as an element of the theatrical code
- Theatres and theatrical machinery in antiquity
- Medieval theatre and popular theatres of the Renaissance (Elizabethan stage, commedia dell'arte)
- Renaissance theatre (basic principles of theatrical design by S. Serlio, the Olimpico and Farnese theatres)
- Italian stage arrangements (scenographic applications and machinery)
- Theatre of the Baroque period and the 19th century (opera houses, scenographic realism, proscenium and curtain, theatrical lighting, Bayreuth theatre)
- Pioneers of the 20th century (A. Antoine, E. Piscator, C. Stanislavski, A. Appia, G. Craig, M. Reinhardt, J. Copeau, V. Mejerchol'd, Bauhaus theatre)
- Forms of contemporary theatre (proscenium theatre, arena theatre, open stage theatre, flexible theatre)
- Stage infrastructure and technical equipment of modern auditoriums

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

- Identify and understand theatrical forms and the functional elements characteristic of different historical periods.
- Collaborate effectively with technical specialists involved in the protection and restoration of historic theatre buildings.
- Design contemporary performance venues, considering the technological requirements for stage production and performance applications.

ECTS: 3
HOURS: 4

LECTURER: Nikolaos Barkas - Professor

STRUCTURAL SYSTEMS AND BUILDING PATHOLOGY Z03ΕΠ

The course focuses on the identification of load-bearing structural elements made of reinforced concrete and/or masonry that have sustained damage, as well as on the selection of appropriate methods for their repair and/or strengthening. The aim is to develop structural judgment and skills that integrate architectural form with structural performance, applicable both in the design of new constructions and in interventions on existing buildings.

LEARNING OUTCOMES

The course contributes to the development of the following skills:

- Rapid comprehension of reinforced concrete construction systems.
- Competence in construction site organization and supervision.
- Enhanced interdisciplinary communication with engineers and technical professionals.
- Insight into the relationship between structural systems, building materials, and construction processes.

LECTURER: Maria-Styliani Voutetaki - Associate Professor

ECTS: 3
HOURS: 4

Z06ΕΠ PARAMETRIC DESIGN

For architectural representations to achieve a deeper and more comprehensive description of space, as well as to enhance the appeal and competitiveness of architectural work, it is necessary to employ tools beyond the conventional means traditionally used by architects. Today, computers and multimedia offer a broad range of such tools and resources, and this course focuses on their presentation and exploration. Modern 3D design software not only provides practical and flexible means for producing three-dimensional forms but also introduces new geometric models for creating and representing space, such as NURBS (Non-Uniform Rational B-Splines). These forms arise from relational geometric definitions and move beyond analysis through elementary linear segments or planar meshes. Furthermore, beyond purely geometric dependencies, 3D spatial design can result from the integration of geometry and code, allowing for variations in form generation as well as the interconnection and interdependence of design information. Thus, design transitions from a fixed, structured process to a dynamic and flexible one. Within the framework of the course, students will have the opportunity to experiment with parametric design tools and use visual scripting to produce morphologically complex spatial forms of high sophistication.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

• Support and present an architectural project through high-quality photorealistic visualizations.

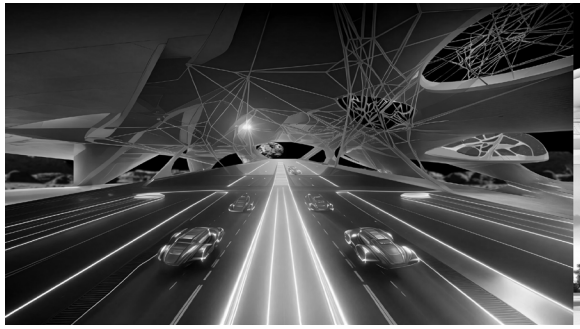
• Acquire proficiency in three-dimensional design software and visual programming tools.

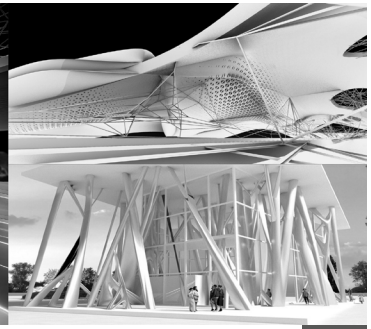
• Produce architectural forms of high complexity, meeting advanced design and functional requirements.

• Demonstrate enhanced design maturity in both the conception and representation of architectural proposals.

ECTS: 3
HOURS: 4

LECTURER: Dimitris Giouzepas - Assistant Professor





H01УП ARCHITECTURAL DESIGN VIII

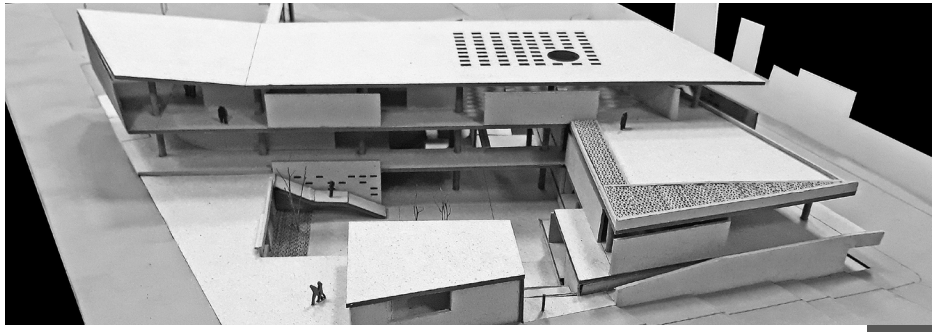
The subject of study focuses on the architectural composition of a special building complex with a strong public character and social foundation, aimed at enhancing community engagement and citizen participation (e.g., City Hall, Cultural Center, Mixed-Use Building, Office Building, etc.). The course's objective is to establish design coherence and a distinctive style that will permeate and emphatically characterize the architectural proposal as a whole.
By examining a multitude of interrelated parameters and exploring essential aspects of the design process, the course promotes a comprehensive and multifaceted approach to a broad spectrum of architectural design issues.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

- Integrate fundamental architectural principles and concepts into the analysis and design of architectural space.
- Clarify and interpret the general and specific conditions of the immediate and broader context of intervention.
- Address the requirements of a complex building program.
- Design a large-scale public building of significant architectural and urban importance.
- Employ structural and construction systems as integral tools for the composition and development of architectural space.
- Correlate functional, structural, morphological, and other architectural considerations in the design process.
- Focus on the organization and arrangement of architectural spaces (interior and exterior) and the detailed articulation of their boundaries.
- Utilize architectural representation tools for the development, refinement, and presentation of comprehensive design proposals.

ECTS: 12
HOURS: 7

LECTURERS: Georgios Papagiannopoulos - Associate Professor
Panos Loukas Exarchopoulos - Assistant Professor



URBAN DESIGN H02УП

The course focuses on public urban space and the development of students' theoretical and design skills. It emphasizes achieving a deeper understanding of the parameters that shape and form urban space, enabling students to undertake as "conscious" a programming process as possible, alongside its compositional expression within the public realm.
The aim of the course is to explore the relationships between the urban and social characteristics of the city, issues of structural relationships, and the interaction between the natural and built environments — the dynamic interface between nature and the city.

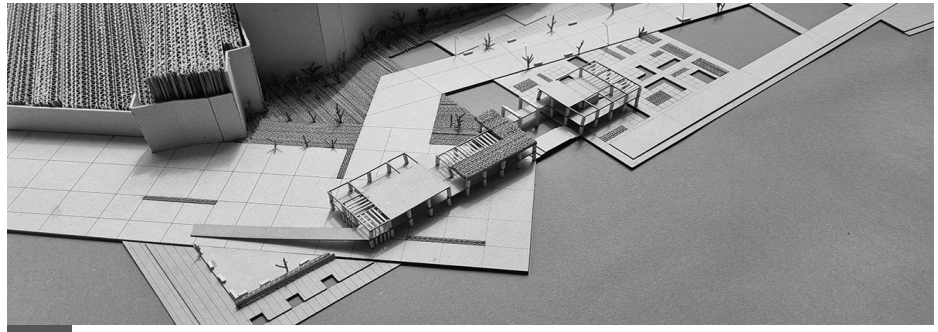
LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Understand methodologies for large-scale urban design and address challenges specific to public open spaces.
- Transform existing landscapes, including coastal areas, into integrated architectural and urban proposals incorporating cultural, recreational, and low-impact activities.
- Conduct critical analyses of urban contexts, identifying patterns in the built and unbuilt fabric, green areas, public spaces, urban functions, and development trends.
- Recognize continuities and interactions between urban design, landscape architecture, and architectural composition.
- Develop design strategies for open urban spaces at interfaces between land and sea.
- Formulate comprehensive planning frameworks for new urban interventions.
- Produce design proposals organizing public activities and spatial flows.
- Propose solutions for open public spaces, including restoration and enhancement of urban and natural landscapes etc.

LECTURERS: Maria Grigoriadou - Associate Professor
Panagiotis Gouliaris - Associate Professor

ECTS: 11
HOURS: 8



H04УП ARCHITECTURAL DESIGN AND NEW TECHNOLOGIES II – VIRTUAL INTERACTIVE ENVIRONMENTS

In the contemporary era, a significant portion of designed space concerns immaterial or non-physical environments, which are often created outside the traditional scope of architectural practice. The immaterial nature of such spaces largely frees architects from conventional constraints such as structural adequacy, functionality, and regulatory compliance.

This freedom of design offers students the opportunity to experiment with form and to explore additional qualities of space, including its semantic content and narrative dimension. Students are encouraged to conceive space as an interactive, experiential environment and to pursue aesthetic qualities and atmosphere through scenographic or conceptual approaches.

Moreover, the use of interactive virtual reality software enables virtual spaces to become more vivid, providing immersive spatial experiences. These tools are increasingly essential across various disciplines related directly or indirectly to architecture, representing the most advanced means of representation, communication, and promotion of architectural work.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

• Acquire fundamental knowledge and apply software tools for virtual and interactive reality.
• Explore and experiment with morphological, formal, and spatial aspects of design in virtual environments.
• Manipulate images and 3D representations to convey atmosphere, character, and spatial qualities.
• Develop design maturity and professional judgment in relation to digital and interactive architectural contexts.
• Cultivate critical thinking, reflective practice, and effective collaboration within design teams.
• Situate design work within theoretical, conceptual, frameworks.

ECTS: 4
HOURS: 5

LECTURER: Dimitris Giouzepas - Assistant Professor

URBAN PLANNING III – CONTEMPORARY URBAN IDENTITIES **H01ЕП**

This course addresses the key concepts of Urban Programming, Urban Management, and Urban Governance in relation to Urban and Physical Planning in contemporary cities. It introduces the management of a range of non-spatial factors that interact closely with spatial, social, and economic dimensions, shaping both the current identity and the future development of the city. The course combines theoretical exploration with practical analysis and includes a critical examination of the primary forms and manifestations of these concepts in various contexts.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

• Identify and critically assess non-spatial factors that interact with spatial, social, and economic dimensions, influencing urban identity and development.
• Understand and apply historical and contemporary urban theories to interpret the evolution and current challenges of cities.
• Evaluate the relationship between society, economy, and spatial organization in shaping urban patterns.
• Situate local urban phenomena within global urban debates and discourses.
• Integrate analytical and critical skills to propose informed approaches to urban planning and development.

LECTURER: Georgios Patrikios - Assistant Professor

ECTS: 3
HOURS: 4

H03ЕП ARCHITECTURAL ACOUSTICS

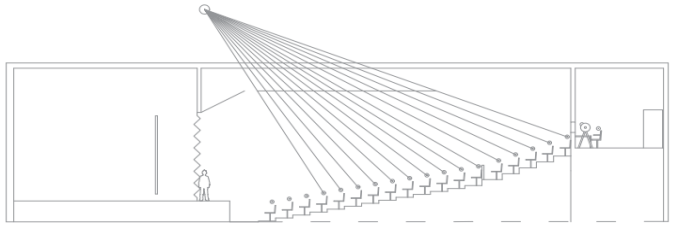
This course, within the field of Architectural Technology, aims to familiarize students with the principles and challenges of acoustic design in spaces with specialized requirements.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

- Evaluate and assess the acoustic performance of performance and public spaces.
- Propose design improvements to optimize the functional and acoustic qualities of spaces.
- Collaborate effectively with technical specialists in the design, preservation, and restoration of historic theatres.
- Conduct acoustic studies and propose solutions for contemporary spaces of small to medium scale.

ECTS: 3
HOURS: 4

LECTURER: Eleftheria Deligiannidou - Assistant Professor



PUBLIC OUTDOOR SPACES H04ЕП

This course addresses issues of critique, theory, and design of public outdoor spaces. In addition to highlighting and examining the various interactions that shape the dialectics of contradictions and transformations within the city, the course aims to develop students' compositional and design skills concerning the aesthetic, morphological, and functional formation of public urban spaces. Through this educational process, students gain a deeper understanding of the concepts underpinning the "architecture of the city."

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Understand the basic concepts related to the city.
- Comprehend the parameters that shape the natural and urban landscape.
- Develop critical thinking through evaluating the factors shaping the city.
- Analyze urban space and propose small-scale urban design interventions.
- Practice designing urban outdoor spaces.
- Understand the concept of "passage" and reinforce the transitional character from public to private.
- Perceive transitions between outdoor and semi-outdoor spaces.
- Propose new activities for the appropriation of urban space.
- Organize pedestrian networks and outdoor areas in dense urban contexts.
- Manage movement and stationary activity as elements structuring an architectural proposal.
- Integrate and separate functional elements and visitor groups in design.
- Propose design solutions for very small urban lots (urban gaps, residual spaces in the built environment).
- Develop abilities to address complex design issues related to the spatial configuration and the relationship between proposed activities/constructions and the natural and urban landscape etc.

LECTURER: Maria Grigoriadou - Associate Professor

ECTS: 3
HOURS: 4

Η05ΕΠ DOCUMENTATION, RESTORATION, AND REUSE OF HISTORIC BUILDINGS AND COMPLEXES II

The course includes lectures and presentations primarily focused on the in-depth analysis of completed restoration and redesign projects, covering all stages from study and planning to construction and the adaptive reuse of historic buildings and complexes.

Through these case studies, students have the opportunity to examine and discuss both the construction techniques and restoration methods applied to historic structures, as well as contemporary architectural interventions and the integration of modern technologies that allow such buildings to meet current functional and societal needs.

In parallel, as part of the design assignment, students build upon the analysis conducted during the winter semester to develop proposals for the preservation and restoration of the historic building's fabric, while also designing new structures and spaces that accommodate contemporary uses. These exercises are developed progressively throughout the semester and are presented and submitted at its conclusion.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

• Apply contemporary methodology for analyzing and documenting architectural heritage, with particular emphasis on historic buildings and their unique structural systems.

• Address theoretical and methodological issues related to the restoration, adaptive reuse of historic buildings, and the revival of historic ensembles.

• Understand, evaluate, and highlight the historical and aesthetic values of monuments and historic buildings.

• Design constructions and spaces within the framework of restoring historic buildings and integrating new functions.

• Engage in the dialogue between contemporary architecture and historic buildings etc.

ECTS: 3
HOURS: 4

LECTURERS: Anastasia Kapandriti - Assistant Professor
Aikaterini Ritzouli- Assistant Professor

5th year

Θ04ΥΠ ARCHITECTURAL COMPOSITION IX

The course aims to familiarize students with emerging areas of knowledge related to architecture as both a professional practice and a mode of aesthetic perception. It engages students with complex topics, where architectural design is approached as a comprehensive, multi-parameter process across all stages. Particular emphasis is placed on the synthesis and integration of knowledge acquired in previous years, toward a unified and holistic understanding of architectural design.

A central focus of the course is the multifaceted interpretation of landscape and the exploration of the boundary between the "natural" and the "artificial" within architectural practice. Students are encouraged to investigate alternative relationships between tourism and hospitality infrastructures and their unique environmental contexts, as well as to creatively reimagine the overlapping structures and scales that define them.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

• Systematically integrate the multiple "knowledge domains" of architecture: analytical, conceptual, experiential, constructive, and practical.

• Develop controlled and coherent design thinking that clearly expresses, at each stage of the design process (from initial sketches to final submission), the complexity of requirements, functions, and dimensions that an architectural project must harmoniously satisfy.

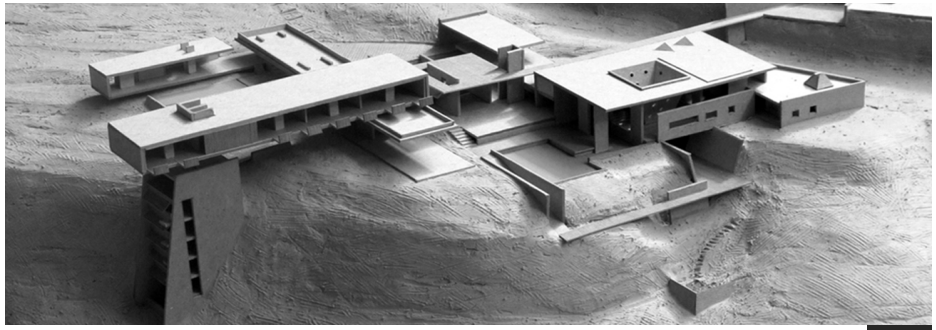
• Address a wide range of design challenges with increased demands for presentation quality under time constraints.

• Understand the direct connection of design to the conceptual framework of dwelling, hospitality, and the sense of place within which it develops.

• Respond effectively to the challenges of each site and proposed building program, considering multiple design parameters for complex, large-scale projects etc.

ECTS: 12
HOURS: 7

LECTURERS: Dimitris Polychronopoulos - Professor
Stavros Dendrinos - Associate Professor, Maria Grigoriadou - Associate Professor, Panagiotis Gouliaris - Associate Professor



WRITING SCIENTIFIC ESSAYS: PRINCIPLES, METHODOLOGY, AND PRACTICE Θ05ΥΠ

This course prepares students to successfully meet the requirements of the Research Seminar in the 9th semester and the Diploma Thesis in the 10th semester. The knowledge acquired is also essential for any theoretical or practical task involving scientific writing.

The following indicative theoretical units will be covered:

1. Scientific writing (general principles, issues of originality, plagiarism, etc.)
2. Collection and management of bibliographic sources
3. Text editing (handling of images, abbreviations, citation styles, and references)
4. Primary and secondary sources
5. Writing other professional forms of communication (CVs, internship application letters, etc.)
6. Presentation of writing samples from various scientific disciplines and publications

Throughout the course, students will participate in individual and group exercises aimed at practicing the expected deliverables. The course will also feature guest lectures by external experts, addressing both theoretical aspects of scientific writing and practical matters concer

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

• Understand the structure, analytical methods, and completion process of writing a scientific essay.

• Collect, organize, and present relevant bibliographic sources effectively.

• Respond appropriately to both theoretical and practical assignments that involve written scientific discourse.

• Compose professional correspondence, curricula vitae, and other written documents that support their career development.

LECTURERS: Ioannis Kolokotronis - Professor
Anastasia Kapandriti - Assistant Professor
Aikaterini Ritzouli- Assistant Professor

ECTS: 4
HOURS: 4

Θ03ΥΠ INTRODUCTION TO ARCHITECTURAL RESEARCH – SEMINAR (Reasearch Thesis)

Development of research processes, methodologies, and key issues in selected scientific fields related to the needs and means of constructing the human environment. The course involves the in-depth investigation and documentation of a critical topic situated within the knowledge areas and scientific domains of one or more Departments. Particular emphasis is placed on critical analysis and the formulation of proposals for improving design and construction techniques.
Weekly meetings with supervising instructors, combined with independent student research, lead to a documented project that is subsequently presented publicly. During the scheduled hours indicated in the syllabus, only feedback, individual or group guidance, and corrections will be provided. Further details can be found in the chapter Regulations for the Conduct of Research Work – Seminar.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

- Acquire theoretical knowledge on a specific research topic.
- Develop their research skills and investigative abilities.
- Select, manage, and critically evaluate relevant bibliographic sources.
- Document and accurately present their research findings in a scholarly manner.
- Apply critical thinking, historical knowledge, and draw conclusions based on thorough research processes.
- Identify and utilize appropriate research methodology tools.
- Cultivate teamwork and collaborative skills in a research context.

ECTS: 14
HOURS: 8

DIPLOMA THESIS **Ι01ΥΠ**

The topics, titles, and most importantly the content and core objectives of the Diploma Thesis must, from both a scientific-research and primarily a synthetic-creative perspective, lead to a comprehensive architectural outcome. This outcome represents the culmination of the student's long-term academic efforts and embodies the peak of an education grounded in the cumulative knowledge acquired throughout the five-year, unified and uninterrupted course of study at the University.
The objectives of the Diploma Thesis, along with all matters concerning its assignment, implementation, and evaluation, are outlined in the corresponding chapter: Regulations for the Diploma Thesis.

LEARNING OUTCOMES Upon successful completion of the course, students will be able to:

- Contribute to the development of their identity as emerging architects, aware of both social responsibilities and technical demands.
- Apply, systematize, and expand their acquired knowledge, while deepening their understanding in a specific scientific or professional field.
- Develop, present, and publicly defend a comprehensive, high-level architectural project that meets professional standards and market requirements.
- Creatively utilize tools, skills, and methodologies to produce the necessary drawings, models, technical approaches, and research strategies.
- Enrich their architectural and professional bibliography, establishing references that support the education and practice of future students and colleagues.

ECTS: 30
HOURS: 25