



NTUA – NATIONAL TECHNICAL UNIVERSITY OF ATHENS  
SCHOOL OF ARCHITECTURE

## **ARCHITECTURAL DESIGN STUDIO 7 & 8**

**AUTUMN SEMESTER 2020-2021**

### TEACHING STAFF:

DEPARTMENT I:	Dr Nicholas Anastassopoulos, <i>Assistant Professor</i> Mr. Vassilis Ghikapeppas, <i>Assistant Professor</i> Dr Nelly Marda, <i>Professor</i> Mr. Matthew Papavassiliou, <i>Associate Professor</i>
DEPARTMENT IV:	Mr. Panagiotis Vassilatos, <i>Associate Professor</i> Mr. Kostas Karadimas, <i>Professor</i> Mr. Kostas Kostopoulos, <i>Assistant Professor</i> Ms Athina Stavridou, <i>Assistant Professor</i>
Module Convener:	Mr. Vassilis Ghikapeppas, <i>Assistant Professor</i>
Teaching Assistants:	Ms Evangelia Andronikidou, Ms Maria Velaora, Mr. Phoebus Gheralis, Mr. Theodoros Politis – <i>Architects</i>
Administrative Support:	Ms Aleka Peppa

### **Architectural Design Studio 7 - 8: Multi-purpose Public Building**

## **PROJECT BRIEF**

### **PROJECT TITLE:**

### **ART HUB: Collaborative Studios for Emerging Artists and Creatives**

#### **1. INTRODUCTION**

The Semester 7 and 8 Architectural Design Studio modules are organized and collaboratively delivered by the Departments of Architectural Design (Dept I), and Technology (Dept IV).

The two distinct, but closely interrelated modules span a full year, offering students the opportunity to explore in depth complex issues which cover the full range of the architectural design process.

The modules address complex functional and construction problems, issues of integration into the urban context, and balance of the built versus the outdoor space, in an attempt to ask questions and give answers to contemporary architectural design concerns.

## 2. CRITERIA AND DESIGN PRINCIPLES

- Identify the characteristics of the urban context, and their importance for design decisions and integration of the building in its environment.
- Vertical development of the building. Arrangement of spaces of public use, resolution of internal circulation problems.
- Design of the immediate outdoor common and public space, identify its importance
- Deepening in issues of coupling of architectural design and construction expression.
- Development of structural strategies and design of the load bearing structure, considering the parameters that affect the structural, construction and technological choices, as well as environmental considerations.
- Addressing construction issues that arise during the design of the building.
- The design of interior and exterior as a whole.
- Elaborate the organization and character of the interior, the importance of materials, lighting and construction in your design.

With reference to the programmatic and functional requirements, the project aims to:

- provide shared facilities and services, and appropriate infrastructure
- promote innovation and technological diversification
- ensure Interdisciplinary support for all activities
- establish sustainable service delivery schemes
- create new jobs and employment opportunities for young architects, engineers and artists of applied arts
- promote economic and cultural development
- create professional networks and promote interaction and collaboration

The proposed collaborative, experimental workshops are intended to act as a catalyst for the development of the area, and the cultural production of the city at large. The project aims to develop a contemporary building of innovative typology, strategically located on **Piraeus Street**, the axis linking Athens Center to the Port of Piraeus, in order to create workspaces and space for the promotion and establishment of young and emerging artists.

The project aims to create a multifunctional organization that:

- provides space, infrastructure and technology for young creators who need support in their first steps
- provides the supporting infrastructure and the tools to promote an alternative paradigm of a collaborative work environment for the production of new ideas and knowledge
- assists and supports the creation of innovative products and services in the respective disciplines of the user groups

The project proposes the rethinking and revision of the conventional way of organizing creative production and workplace, a strong cultural and educational character, and encourages a collective/ collaborative way of intellectual and physical activity.

### 3. MODULE AIMS

The aim of the course is to delve into essential aspects of the design process. For this purpose, the 7th and 8th semesters are combined based on the same thematic entity but with differentiated requirements. The purpose of the connection of the two semesters is to understand the interrelated relationship of part and all, space-shell-construction, the "inside" and the "outside" in the creation of the architectural work and the overthrow of inextricably established priorities in the formulation of these relationships.

Thus, in the 7th semester the focus is on the **Public building in the urban area**, and its **in-height development**. These two parameters (multi-storey building development and the urban environment), specify for the researcher certain ways of handling, in order for the result to meet the principles concerning the integration of the building in the urban fabric and in its relation with the directly structured space and in the qualitative utilization of the space available for exploitation - in addition to the specific requirements arising from the specific program. The arrangement of the volumes, the form and the characteristics of the space that surrounds the new building belong to the first category. The in-height development and the rational organization of the construction imposed by it (which will be investigated at the same time and in direct relation to the synthetic options), the fulfillment of the functional and building requirements in the context of the space economy, as well as the systematization of horizontal and vertical circulation, belong to the second category.

In the 8th semester, the proposal of the 7th will be used as the starting point and will be further developed deepening in issues related to structure and construction, the detailed design of the interior and outdoor space, the overall design consistency, the promotion of the design options and the design intent throughout the detail and construction design. In this way it will be understood that all these parameters are not only an integral part and culmination of the architectural design process, but also they support and value the architectural creation, often being a driving force in the process of conception.

### 4. PROJECT THEME

The Arts Center (ART HUB) is going to house art related activities, both theoretical research and physical production of various scales. It seeks to be active in all areas that can attract the interest of the public and promote the visibility, influence and integration of artistic creation and expression in the City of Athens, with the ultimate goal of cultivating a broader critical awareness and an educated understanding of the holistic and interrelated nature of artistic expression and architecture.

The Arts Center operates as a collective capacitor, providing artists with the workspace to develop and exhibit their work. It is open to all fields of visual arts, which can attract the interest of the public and promote the cause of artistic creation in the City of Athens. At the same time, it seeks to activate and revitalize this part of the city, a spatial event contributing to the cultural identification of the area.

## 5. PROJECT LOCATION

Given its public character, the building is appropriately located in the city center, on a major thoroughfare that will support its visibility and is easily accessible by various means of public transport. The three corner plot is located on Piraeus Street flanked by Evandis Street, Orfeos Street, and Zakiadon Street in the neighborhood of Kerameikos, opposite the popular recreation pole of "Gazi" named after the old gas company retrofitted into a cultural and recreational center, and not far from the place originally allocated for the construction of the Third Square of the 19th century Urban Plan of the city of Athens, to date not developed.





## 6. THE SITE - BUILDING CODE REQUIREMENTS

The plot has a SE front of 44.30m on Piraeus Street, NE 46.90m on Evadnis Street, and NW 32.30m on Orfeos Street, while SW 57.00 borders on adjacent buildings.

Area of the Plot:	2.040,86 m <sup>2</sup> .
Floor to Area Ratio (FAR):	3,0
Maximum Building Floor Area Permitted:	6.122,58 m <sup>2</sup> (3.0 x 2.040,86)
(but your design should not exceed 2,400 m <sup>2</sup> )	2,400 m <sup>2</sup> (as per building program)
Maximum Plot Coverage (Ratio)	40%
Maximum Plot Coverage (Area)	816,44 m <sup>2</sup> (2.040,86 x 40%)
Maximum Height - H max	30,00 m
Maximum Plot Coverage 100%: where Underground	2.040,86 m <sup>2</sup> .
Parking (ONLY) extends outside the building perimeter	





<b>BUILDING PROGRAM</b>			
ITEM	SPACE DESCRIPTION	Persons	AREA (m <sup>2</sup> )
<b>O.</b>	<b>ENTRANCE LOBBY AND RECEPTION</b>		<b>100</b>
O.1	Central reception area – Information (on Services & Events)	2	100
<b>A.</b>	<b>ADMINISTRATION</b>		<b>120</b>
A.01	President's Office	1	
A.02	President's Secretariat – Waiting	1	
A.03	Vice President	1	
A.04	Admin Offices	3	
A.05	Financial Services	2	
A.06	Server Room		
A.07	Copy center - printers	2	

A.08	Stationary Storage		
A.09	Kitchen	1	
A.10	Restrooms (Accessible)	1	
<b>B.</b>	<b>ART STUDIOS / WORKSHOPS</b>		<b>1000</b>
B.01	Studios and Workshops for young artists – number of rooms / Internal layout of your choice	48	480
B.02	Seminar & workshop space for training - number of rooms / Internal layout of your choice	60	300
B.03	Gallery – exhibition and presentation of research projects	60	150
B.04	Audio-visual equipment storage	1	20
B.05	Ancillary rooms		50
<b>C.</b>	<b>THEMATIC LIBRARY - MEDIATHEKE</b>		<b>300</b>
C.1.	LIBRARY ADMINISTRATION		
C.1.1	Reception and Waiting Room	2	
C.1.2	Admin Office	1	
C.1.3	Librarian's Office	1	
C.2	PUBLIC SERVICE AREAS		160
C.2.1	Lending and Catalogue	2	
C.2.2	Reading Room	20	
C.2.3	Internet Access Room	20	
C.2.4	Audio-visual Room	20	
C.3	OPEN ACCESS COLLECTION		
C.3.1	Book stacks		
C.3.2	Drawing and Map Archive		
C.3.3	Film - Photo Collections		
C.4	ACQUISITIONS & PROCUREMENT		
C.4.1	Acquisitions Office	2	
C.4.2	Procurement Office	2	
C.4.3	Documentation Dept. (2x15.00 sq.m.)	2	
<b>D.</b>	<b>CONFERENCE CENTER – SPECIAL EVENTS</b>		<b>380</b>
D.1	Entrance Lobby -Foyer		
D.2	Amphitheater - Multipurpose Hall	150	200
D.3	Audiovisual support – Interpreters - Projectors		

D.5	Canteen		
<b>E.</b>	<b>CAFETERIA</b>		<b>100</b>
E.1	Main hall		
E.2	Kitchen		
E.3	Public Restrooms		
<b>F.</b>	<b>TEMPORARY EXHIBITION SPACE</b>		<b>400</b>
F.1	Temporary Exhibition Space(s)		300
F.2	Logistical support and equipment storage		
F.3	Thematic Bookstore		100
	<b>TOTAL BUILDING FLOOR AREA (PLUS-MINUS 10%)</b> (will not use the maximum floor area permitted by the FAR)	≈	<b>2.400</b>
<b>G.1</b>	<b>OUTDOOR SPACE</b>		
	The outdoor space of the plot is the intermediate between the public space of the city and its interiors. Properly designed, it will be composed together with the enclosed spaces as one entity, providing the possibility of hosting outdoor gatherings, performances and other events, enhancing the intended multifunctional character of the building.		
<b>G.2</b>	<b>OPEN-AIR ROOFTOP CINEMA</b>		
<b>H.</b>	<b>UNDERGROUND SERVICE AREAS</b> (not counted in the FAR)		
H.1	Enclosed Parking space for 20-25 vehicles and access from and to the street		
H.2	Library Storage		
H.3	Cafeteria storage and loading area		
H.4	Archives, artwork and collections storage		
H.5	BUILDING SERVICES PLANT ROOMS (HVAC – Heating, Ventilation and Air Conditioning plant rooms / PPC Substation – Generator Room / (supply and return) / Elevator machine rooms		
H.6	Janitor / Cleaning equipment		



## 7. MODULE ORGANIZATION AND EDUCATIONAL OBJECTIVES

A full-year cross-departmental module is delivered in two consecutive semesters, the 7th (autumn) and the 8th (spring) semester. Students are encouraged to work in small project teams of up to 3 students.

In the **7th semester** module:

- Students are asked to investigate the relationship of the proposed building with the immediate and wider urban context.
- Basic synthetic strategies and concepts are explored and formulated, considering the urban context, the “genius loci”, functional and programmatic requirements, structural strategies and formal aspirations.

The educational process is completed with the submission of the project deliverables.

During the **8th semester** module, the concept design delivered and submitted at the end of the autumn semester (7th) will be used as a starting point, focusing on issues related to:

- the detail design of the interiors and the outdoor space
- the detail construction design
- a solid and robust design development, consistent with the design intent throughout the architectural design process and scale of detail
- The educational process is completed with the submission of the project deliverables.

## 8. PROJECT DELIVERABLES

The design development and delivery of the project will be elaborated in a series of architectural scales of increasing detail, reflecting the two-stage development of the project through the two semesters:

**7th Autumn Semester:** At the end of the 7th Semester the following will be delivered:

- **Master Plan**, with the strategies of integration of the building in the urban fabric, access to the building, and configuration of the open spaces, in 1: 500 scale
- **Site Plan** / roof plan with the surrounding area of the building, scale 1: 200.
- **Floor plans** of all levels with projections of the immediate environment, the load-bearing structure, drawn with proper architectural convention and all necessary annotation necessary for the understanding of your design, such as the location of different Programs in the Building, individual spaces and all other information required, on a scale of 1: 100
- **Sections** through characteristic parts of the building, in a way that better describes the functional organization of the spaces, as well as the arrangement of the load-bearing structure and construction of the building, in scale 1: 100

- **Facades** of the building with indications of material, color, etc., on a scale of 1: 100.
- **3D Models:** working models, scales 1: 500 and 1: 200, and final model at 1: 100 scale.
- **Photorealistic 3d renderings**, axonometric, perspective sketches and other visualizations, sketches etc. that showcase your final design, as well as any other material that witness and explain the design development of the project, as well as any other item necessary for the best presentation and understanding of the proposal.

**8th Spring Semester:** the final design delivered at the end of the autumn semester is further developed in detail, both in terms of architectural composition and in terms of function and equipment of the spaces, as well as in construction systems and construction details.

Students design the building and the immediate surroundings in ascending scales and increasing detail.

They are asked to select a characteristic zone of the building, which they will further design in scales 1:50, 1:20, and 1:10, developing the necessary construction details and models.

The process and the deliverables of the spring semester will be further clarified in due time.

Students are encouraged to use various representation techniques, analog and/or digital, models, etc., seeking to present as best as possible the qualities of the subject, both the whole and the individual spaces.

**Note:**

**Time and place of class**

Time: Tuesday 09:45 - 14:00 and Friday 15:30 - 19:15

Place: Averoff Building: Ground floor rooms A003, A006, and 1<sup>st</sup> floor rooms A102, A104.

**Announcements** will be posted on the following locations:

- The bulletin board outside the Offices of the Dept I - Architectural Design (Tositsa building, 2nd floor, Room 201)
- The bulletin board next to the elevator of the Tositsa building, ground floor
- Online: [www.arch.ntua.gr](http://www.arch.ntua.gr): Studies → undergraduate → course websites → 7th semester → architectural design studio 7 → announcements. More details will be given in due time.