

## **“LIVING MORPHOGENESIS” –**

**2024-2025 fall semester interior arch. design fundamentals studio**

**prof. dr. ervin garip**  
**res. assist. gözde gökdemir**  
*gokdemirg@itu.edu.tr*

**prof. dr. banu garip**  
**res. assist. merve öksüz**  
*oksuz19@itu.edu.tr*

**assoc. prof. dr. orkan zeynel güzelci**  
**res. assist. ayşenaz sönmez**  
*sonmezays@itu.edu.tr*

Architecture is based on *actions and functions*. The relationship between actions and functions is dual: actions can create functions, or functions can cause actions. *Interior Architecture Design Fundamentals Studio* prioritizes the action-function dual relationship. The studio's primary goal is to produce **pure morphological relations and solutions** centered on the action-function concept, without limitations such as context, shell, topology, and so on (Phases 1-2-3). Secondly, the studio aims to **create hierarchies** among action function-oriented morphological solutions, define unit-whole relationships, construct variational productions for units and wholes, and develop interior scenarios for all generated variations (Phases 4-5). Finally, in this **context-independent studio**, we address how the produced morphology-organism can **fit into a given situation**. However, the generations created here prefer action function-oriented morphological variants over context-dependent morphological variations (Phases 6-7). The following are the details of the project's seven phases:

### **P1: Define: Function & Action**

In the first phase, it is expected to define functions & actions for “**communal living-based essentials for students in Istanbul**” and determine separate units. In addition, within the first phase students are expected to create 3D representations and expressions of these units. And also, to understand the relationships between functions & actions, it is expected from the students to do research about sample design projects and present & discuss in the studio.

### **P2: Develop: Common representation language**

In the second phase, students are encouraged to focus on the development of a common design and representation language of defined actions. Students are expected to determine a method for growth principles of the defined actions and submit in a certain format.

### **P3: Generate: Morphological variations**

In the third phase, students are invited to a studio workshop which aims to generate morphological variations with genetic algorithms. In this phase, all the students are expected to work on the configurational relationships of the separate units with the given tree diagrams based on the defined functions.

#### **P4: Superpose: Topological relations**

In this phase, the topological relationships of predefined units are expected to be superposed based on the given tree diagram.

#### **P5: Taxonomy: Organizational hierarchy**

In the fifth phase, students are expected to determine the organizational hierarchy of the defined units related to the topology. And also, it is expected to develop and present interior life scenarios of all units.

#### **P6: Contextualization: Topographical fitness**

In this phase, students are questioning the given concepts: contextualization and topographical fitness. To better understand these concepts, students are invited to analyze the building and environment of the given project site. Students are expected to integrate the organizational hierarchy they developed in the previous phase into the given project site.

#### **P7. Final Tuning:**

In the final phase, students are expected to work on the final submission of the design project.

WEEK	DATE	PHASE	STUDIO	CONTENT - SUBMISSIONS
1	30.09.2024		Welcome and Introduction	<b>Intro and welcome</b> Understanding topic and studio + determination of the working groups
	03.10.2024	P1	<b>Studio</b> Define: Function & Action	<b>Defining functions and actions.</b> 3D representations & expressions of separate units + Preparations for sample project research and presentation & group discussions
2	07.10.2024	P1	<b>1<sup>st</sup> PIN-UP:</b> <i>sample project research</i>	<b>STUDENT PRESENTATIONS</b> Digital presentations and discussions of sample project research
	10.10.2024	P1	<b>Studio:</b> Define: Function & Action	<b>Defining functions and actions.</b> 3D representations & expressions of separate units
3	14.10.2024	P2	<b>Studio</b> Develop: Common representation language	<b>Determination and expression</b> of all defined actions and their representations in a common language + determining a method for growth principles of the units
	17.10.2024	P2	<b>Studio</b> Develop: Common representation language	<b>Determination and expression</b> of all defined actions and their representations in a common language + determining a method for growth principles of the units
4	21.10.2024	P2	<b>Studio</b> Develop: Common representation language	<b>Expression and examinations</b> of all defined actions and their representation in a common language + determining a method for growth principles of the units + Preparations for the 1 <sup>st</sup> jury
	24.10.2024	P2	<b>1<sup>st</sup> JURY and submission</b>	<b>STUDENT PRESENTATIONS</b> <b>Submission</b> of all defined actions + their growth principles and their representation in a common language in a certain format

5	28.10.2024	P3	<b><u>STUDIO WORKSHOP:</u></b> Generate: Morphological variations  <b><u>Invited Guest:</u></b> <b><u>Serkan Kocabay</u></b>	Generating morphological variations & configurations of all units + Creating a tree diagram for defined functions + Identification of unit-function relationships with genetic algorithms
	31.10.2024	P3	<b>Studio</b> Generate: Morphological variations	Generating morphological variations & configurations of all units + Creating a tree shape diagram for defined functions + Identification of unit-function relationships with genetic algorithms
6	04.11.2024	P4	<b>Studio</b> Superpose: Topological relations	<b>Developing topological relationships and superpositions</b> Defining, shaping and superposing topological relations of predefined units based on the given tree diagram
	07.11.2024	P4	<b>Studio</b> Superpose: Topological relations	<b>Developing topological relationships and superpositions</b> Defining, shaping and superposing topological relations of predefined units based on the given tree diagram
7	11.11.2024	P4	<b>Studio</b> Superpose: Topological relations	<b>Developing topological relationships and superpositions</b> Defining, shaping and superposing topological relations of predefined units based on the given tree diagram
	14.11.2024	P5	<b>Studio</b> Taxonomy: Organizational hierarchy	Determining organizational hierarchy + Developing & expressing interior life scenarios
8	18.11.2024	<b>FALL BREAK</b>		
	21.11.2024			
9	25.11.2024	P5	<b>Studio</b> Taxonomy: Organizational hierarchy	Determining organizational hierarchy + Developing & expressing interior life scenarios + Preparations for 2 <sup>nd</sup> pin-up
	28.11.2024	P5	<b><u>2nd PIN UP</u></b>	<b><u>STUDENT PRESENTATIONS</u></b> Submission of all organizational hierarchies and interior life scenarios
10	02.12.2024	P6	<b><u>SITE VISIT</u></b>	
	05.12.2024	P6	<b>Studio</b> Contextualization: Topographical fitness.	Discussion on-site visit analysis Analyzing the project site and determination of the context + Questioning topographical fitness
11	09.12.2024	P6	<b>Studio</b> Contextualization: Topographical fitness.	Discussion on-site visit analysis Analyzing the project site and determination of the context + Questioning topographical fitness
	12.12.2024	P6	<b>Studio</b> Contextualization: Topographical fitness.	Analyzing the project site and determination of the context + Questioning topographical fitness
12	16.12.2024	P6	<b>Studio</b> Contextualization: Topographical fitness.	Analyzing the project site and determination of the context + Questioning topographical fitness + First representations of contextualization
	19.12.2024	P6	<b>Studio</b> Contextualization: Topographical fitness.	Analyzing the project site and determination of the context + Questioning topographical fitness + First representations of contextualization

13	23.12.2024	P6	<b>Studio</b> Contextualization: Topographical fitness.	Analyzing the project site and determination of the context + Questioning topographical fitness + First representations of contextualization + Preparations for the 2 <sup>nd</sup> Jury
	26.12.2024	P6	<b>Studio</b> Contextualization: Topographical fitness.	Analyzing the project site and determination of the context + Questioning topographical fitness + First representations of contextualization + Preparations for the 2 <sup>nd</sup> Jury
14	30.12.2024	P6	<b>2nd JURY</b>	<b>STUDENT PRESENTATIONS</b> Submission of the relations with the context.
	02.01.2025	P7	<b>Studio</b> Final Tuning	Preparations for the final submissions
15	06.01.2025	P7	<b>Studio</b> Final Tuning	Preparations for the final submissions
	09.01.2025	P7	<b>Studio</b> Final Tuning	Preparations for the final submissions

#### **Studio Process:**

**%80 attendance to studio is** required (attendance means to study within the studio). Student reports are considered within the scope of 20% attendance right. Students ought to present in all submissions, pin-ups and juries.

#### **Evaluation:**

Attendance (studio work performance), presentations, submissions, workshop, juries, pin-ups, final submission and final jury (**all the processes that are mentioned will be graded**).

<b>Evaluation Criteria</b>	<b>%</b>
Pin-up I	%10
Pin-up II	%10
Jury I	%20
Jury II	%20
Final Submission	%40
<b>TOTAL</b>	<b>%100</b>