



SHADE DESIGN FOR A GARDEN IN ARCHITECTURE DEPARTMENT

ABSTRACT

Shade design is taken as a first reality project for the students of the first year of architecture. After studying the main design principles, design process and issues that come within, the students are asked to design a multifunctional shading space in the site of a college of engineering. Where the students are requested to put hands on fields, take adequate measurements before starting with the design of the project. Then after designing is done, the teaching staff will evaluate and give feedback for each presented project taking in consideration design requirements, graphic presentation and modeling craftsmanship.

Objective

To establish the students with the use of key design elements and principles in their design work. As a result the students are able to overcome design related issues such as determining convenient circulation paths, furniture arrangement within the shade and human scale.

Shade Design for a garden in Architecture department

- **Project consist of 40-60 cubes**
- **Cubes are (4 cm x 4 cm x 4 cm)**

1. Introduction to the Shade (Outdoor shelter)

2. Survey of location

Site visit, taking dimensions by the students, drawing the site (class work)

3. data collection

Present available data regarding shelter design clarifying its

- ❖ dimensions
- ❖ forms
- ❖ furniture
- ❖ colours
- ❖ material
- ❖ texture

Reference books (neufert, time saver standard) and another source (books in library and internet)

4. similar project analysis 3 projects

Analyses the projects according to the information those collected in first point clarifying its:-

- ❖ entrances(access)
- ❖ function
- ❖ Dimension
- ❖ Circulation
- ❖ Type
- ❖ furniture
- ❖ type(fixed or moveable)
- ❖ the shelter composition (dynamic or static, regular or irregular))
- ❖ Analysis of the form (additive or subtractive)

5. Concept

6. Function

7. Introducing colour to the project

- Harmony in colour
- Contrast in colour
- Warm and cold colour

8. Shade and shadow top

Course detail of the shade project		
9th Week 24 th Dec. 27 th Dec.(holiday)	Transformation of form -Subtractive and additive forms -Centralized, linear, radial, clustered form... -Multi view Drawings (top, front and side)	Physical composition using cubical units: The students are requested to create different cubical forms and spaces through applying theoretical concepts (individual work). -Orthographic projection
10th Week 31 st Dec.-3 rd Jan.	Christmas and new year holiday	
11th Week 7 th Jan. 10 th Jan.	Form and space Multi view Drawings	-Cubical composition: Ambiguity state -Cubical composition: Subtraction -Orthographic projection exercises
12th Week 14 th Jan. 17 th Jan.	Form and space Multi view Drawings	-Cubical composition: Addition -Cubical composition: Space creation (Final submission). -Orthographic projection exercises
13th Week 21 st -24 th Jan.	First semester exams	
Starting Second semester		
14th week 28 th Jan. 31 st Jan.	-Opening in space: defining elements -Degree of enclosure -Architectural multi view Drawings: Drawing a floor plan	-Physical modelling: The students are asked to design and create enclosure or sheltered space by cubes -Drawing exercises
15th week 4 th Feb. 7 th Feb.	Light View Architectural multiview Drawings: -Doors and windows	Physical modelling: 3D Screen pattern design which focuses on the idea of visual connection between inside and outside of a space/room as well as light penetration into space – using cubes -Drawing exercises
16th week 11 th Feb. 14 th Feb.	Organization of form and space Spatial organizations: centralized, linear, radial, cluster and grid organizations Architectural multiview Drawings: -Stairs	-Physical modeling: practicing different types of spatial organization by using cubes Individual works -Drawing exercises

<p>17th week 18th Feb. 21st Feb.</p>	<p>-Circulation: movement through space Forms of circulation space.</p> <p>Architectural multiview Drawings: -Scale and orientation</p>	<p>Drawing exercises for movement and circulation types 3D modelling of cubes Drawing exercises for section and elevation</p>
<p>18th week 25th Feb. 28th Feb.</p>	<p>-Proportions and scale: material, structured and manufactured.</p> <p>Architectural multiview Drawings: -Site plans drawings</p>	<p>Ergonomic studies in relation to human scale and furniture dimensions in particular space- (drawing/ rendering/ collage /physical model) using cubes Drawing exercises for section and elevation</p>
<p>19th week 4th March. 7th March.</p>	<p>Proportion systems & Human scale.</p> <p>Architectural multiview Drawings: -Section and Elevation drawing</p> <p>\</p>	<p>Ergonomic studies in relation to human scale and furniture dimensions in particular space- (drawing/ rendering/ collage /physical model) using cubes Drawing exercises</p>