

Project Brief

Villa Design on the Famous Architects' Styles

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Project Due Date: April, 25th, 2022

Introduction:

Architecture has always distinguished itself from other art forms because it plays a functional as well as an aesthetic role, offering shelter, of course, but also shaping our daily experiences. Architecture also leaves behind monuments to moments in time, signifying in stone, glass and steel the various layers of history that define the evolution of a place. There famous architects who played a big role in shaping our world of today and each one were a pioneer in a big architectural movement that converted our thinking of architecture. Knowing about them and understudying their style of design can play pivotal role on our studying of architecture and our professional work as architect.

Students Task:

Students are asked to take one the famous architects and study their professional life, architectural styles, design movement they worked on and their famous project. Then design a villa based on their style. The group of each two students will be in one group and work on one of the architect.

Architect name	Assigned students group
Zaha hadid	
Frank Louid Right	
Renzo Piano	
Le Corbusier	
Norman Foster	
Santiago Caltrava	
Oscar Niemeyer	
Mies Vander Rohe	
Rem Koolhas	
Tado ando	

Walter Gropius	
Alvar Arto	
Louis Kahn	

Learning outcomes:

- Increasing students education about pioneer architects
- Knowing about the architectural styles and movements in the last century as well as their philosophy and methodology of design.
- Be able to translate an idea into an architectural proposition and understand the intentions and consequences behind design decisions.
- Students should also be able to engage with an increasing level of design-research through iterative studies and move fluidly between different modes.
- Conventions of architectural representation and communication through drawing and modelling should be engaged with clarity and intentionality.
- Knowing about modular scale of furniture on residential types of project and being able to design spaces corresponding based on that.
- Understanding and applying architectural design methodology (site analysis, conceptual design, bubble diagram, zoning, first drawing, progressed drawings, and rendering) on a small scale project.
- Understanding topographic sites and being able to design in terrains.

Space Program

Space	Space number	Area of space	Total Area
Garage	2 cars	25	50
Entrance	1	9	9
Guest Room	1	35	35
Living Room	1	30	30
Kitchen	1	18	18
Hot kitchen	1	12	12
General Toilets	1	10	10
Circulation and staircases	1	16	16

Master bedroom	1	including closet and WC	40
Bedroom	4	20-25	100
Individual toilets (including closet)	4	10	40
Laundry	1	6	6
Swimming pool	1	40	40
Sauna	1	4	4
Steam room	1	4	1
Changing room	1	10	10
Storage	1	15	15
			436
circulation, structure, and balconies		20%	87
gardens, and outdoor setting areas			150
			673

Project Stages:

Stage one:

Research on the assigned architects including the professional life, architectural movements, famous buildings they worked on, and a detailed analysis of villa project they designed.

Stage two:

Site analysis: this include a site visit to discover the advantage and disadvantages of the site. Also making a physical model of the site.

Stage three:

Space program research, this includes research about all project zones, required furniture, their dimensions, also a bubble diagram showing the relation between the project zones.

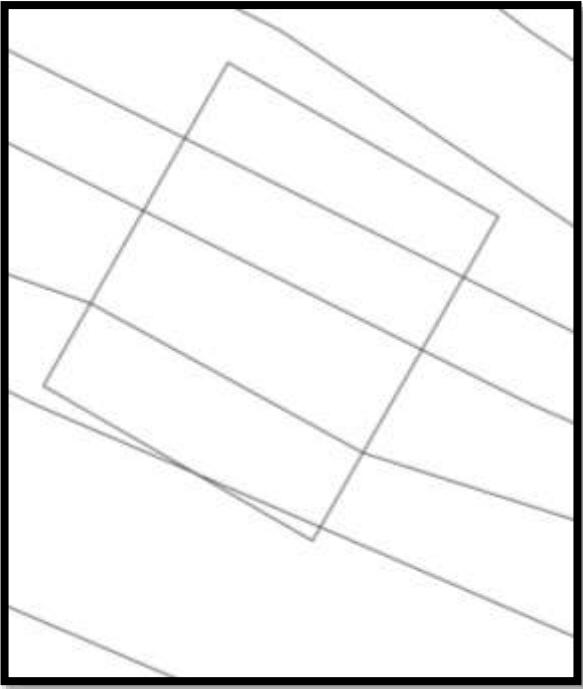
Stage four:

Concept: this would include creating a project layout following the same styles of the assigned architects to the students. On this stages students have to create and develop many mass models until the reach the acceptable configuration of the mass.

Stage five: developed plans of the project, on this stage students have to work hard on developing the plans in terms of wall thickness, furniture, adding doors, windows, sections, elevation

Stage six: on this stage students have to work on rendering their project and creating final physical model of the project.

Site view:



Deliverable:

All the plan should be submitted on A1 sheet size (594X840) mm.

- 1- Bubble Diagrams
- 2- Concept diagrams
- 3- Mass development
- 4- A brief about the architect and architectural movement and the concept
- 5- Site plan (Scale 1:100)
- 6- Floor Plans (Scale 1:50)
- 7- 2 sections (Scale 1:50)
- 8- 2 elevation (Scale 1:50)
- 9- 2 perspective views
- 10- Physical models (Scale 1:50)