

University of Salahaddin  
College of Engineering  
Department of Architecture  
2020-2021

Architectural Design II  
2<sup>nd</sup> Year Students  
Lecturers: Dr. Roza Sabir  
First Semester Project

## **Topic: Eco-Friendly Villa**

### **Location:**

The location should be in the Kurdistan region. It might be in the mountain, valley, or forest ....

**Design process:** Modern style and green building principles should be considered in the design process. The design considerations are:

- Integration with the natural surrounding and connection to the site.
- Promotes harmony between human habitation and the natural world through design approaches.
- Pure geometry and simple forms.
- Careful balance (openings and solids)
- Continuous spaces (understanding of each space) Material used in a harmonious way with nature.
- Eco-Friendly building

### **Submissions:**

#### **1. Research Study**

#### **2. The Concept requirements:**

- a. The Site
- b. Plans
- c. Mass Model

**3. The Pre-Final requirements:**

- a. The site plans
- b. Plans
- c. Elevations
- d. Sections
- e. Detailed Model
- f. Concept Development

**4. The Final requirements:**

- a. The site plans
- b. Plans
- c. Elevations
- d. Sections
- e. Detailed Model
- f. 3D View (Perspective)
- g. Concept Development

## Space Program of the Eco-friendly Villa

### Main Building

No.	Name of Space	Number of spaces	Area Sq. m
1	Entrance	1	12 - 15
2	Reception with Dining	1	60
3	Toilet	1	8
4	Bath Room	1	10
5	Hot Kitchen	1	10 - 12
6	Cold Kitchen	1	35
7	Storage	1	12
8	Housekeeper with bath	1	24
9	Living Room	1	60
10	Dining Room	1	35
11	Master Bed room with bath	1	60
12	Bed Room with bath for each one	2	72
13	Bed Room with bath for each one	2	72
14	Laundry	1	15
15	Hobby room	1	24
16	Storage for first floor	1	12
<b>Total Built Area of Main Building</b>			<b>526</b>

### Guest Building

17	Entrance	1	4
18	Living + kitchenet + Dining area	1	50
19	Bed Room with bath for each one	2	90
20	Toilet	1	8
21	Housekeeper with bath	1	24
<b>Total Built Area of Guest Building</b>			<b>170</b>

### Outdoor Activities

22	Garage	4 Cars	
23	Storage	1	30
24	Sport room	1	24
25	Covered terrace		
26	Open Area		
27	Outdoor Swimming Pool		12.5 x 25
<b>Site Area</b>			<b>240000 (600 x 400)</b>