



**ARCHITECTURE DESIGN STUDIO  
SEMESTER 4TH  
Academic Year  
2022-23**

**DAYANAND COLLEGE OF ARCHITECTURE  
LATUR**

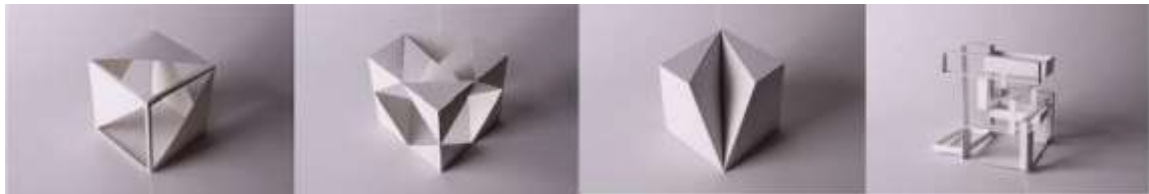
# Form Morphology

Faculty: Ar. Renuka Kale-Shivalkar

Semester 4 (2<sup>nd</sup> Year) 2022-23 Architecture Design Studio

## Aim:

To create understanding of human built environment as a holistic, living entity from macro to micro scales, and shaped by geographic and socio-cultural forces as well as by historic, political and economic factors, through study of and design within the context of rural settlements



## Intent of studio:

What is form?

Form can be described as a reference to both the internal structure and external outline, often in the shape of a three-dimensional mass or volume.

What is Morphology?

Morphology in architecture is the study of the evolution of form within the built environment. Often used in reference to a particular vernacular language of building, this concept describes changes in the formal syntax of buildings and cities as their relationship to people evolves and changes.

The structural efficiency and the architectural appearance of building forms is extremely important while designing a structure. Both qualities are affected by the overall form of the space. Thus, its necessary to evolve the form through various conceptual, case study, drawing exercises to achieve the final splendid design that does justice to function of programs, needs and aspirations of Users and Quality of space.

This semester we will divide the Architecture Design studios in multiple short sessions and eskeys to achieve final goal of designing a holistic projects with innovative design strategies along with Socio-Enviro-cultural awareness.

## Out-come:

To design ann **Elderly Nursing Centre**

According to syllabus: The scale and complexity of planning and construction involved will be simple - small or medium span, ground plus two storeyed maximum, local materials and passive designing strategies.

## Exercise 1: Case Study



Students will begin with form analysis of existing structures. Note: Students will redraw the case study structure's plans, sections and make model on scale.

### List of case studies:

1. School of blind and visually impaired - SEALab

Link:

<https://www.archdaily.com/984721/school-for-blind-and-visually-impaired-children-sealab>

2. Houses for Eldery People in Alcácer do Sal / Aires Mateus

Link: <https://www.archdaily.com/328516/alcacer-do-sal-residences-aires-mateus>

3. Mill owner's association Building, Ahmedabad

Link: <https://www.archdaily.com/464142/ad-classics-mill-owners-association-building-le-corbusier>

4. Gandhi memorial museum - Ahmedabad

Link: <https://archeyes.com/sabarmati-ashram-museum-gandhi-residence-charles-correa/?amp=1>

5. National Brain research centre by Raj Rewal

Stationery required:

Triangular Scale,

Tracings,

Pencils

Prints of plans, sections, elevations and views

## Exercise 2: An Eskey - Dwelling of 4 elements

This Eskey will be scheduled for a week. Students are expected to make models and resolve this task.



Task: Design separate spaces for any of the **three** following elements. These spaces should highlight enhance the quality of these elements.

Light  
Air  
Water  
Ground

Students should not use straight surfaces to design. These spaces should have organic/ Curved/ biomimicry/biophilic Forms. Each space form should be approximately of 20 Sq.M. Models will be on scale

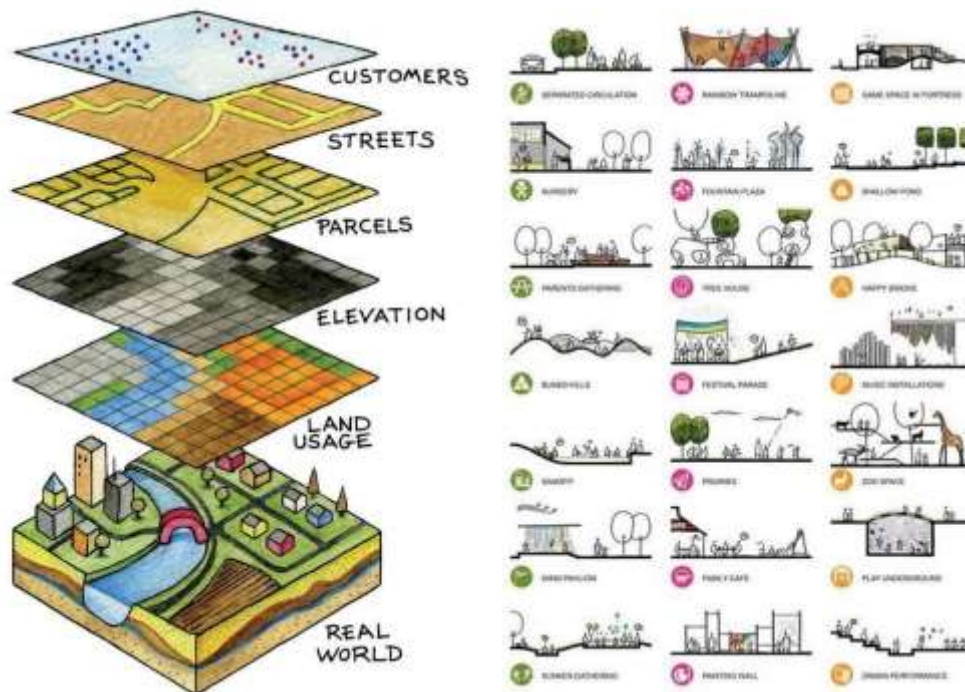
## Exercise 3: Concept Evolution – Heirloom



Select one Heirloom object (Ancestral object) which has some emotional value to you. Write down its properties and convert it into spatial quality. This session will require students to make multiple charcoal drawings on blank newspaper sheets. With learnings from exercise 2 and 3 students will evolve their concept for designing.

## Exercise 4: Site Analysis

Site Analysis will involve measuring of site and drafting contours, context etc as part 1. As second parts students will survey site to understand culture, socio-economic aspects, Environmental factors with respect to the area of design (Elderly Nursing centre) . This data will be presented through story maps, sketches etc. As part 3 students will note with program space area details for designing



## Exercise 5: Designing.

In this session students will design structures for provided program based on program details and learning from previous exercise. Designing exercise will be continuous process, until spaces are resolved for its architectural, services, constructional needs.

List of Final detailed drawings: A2 size sheets

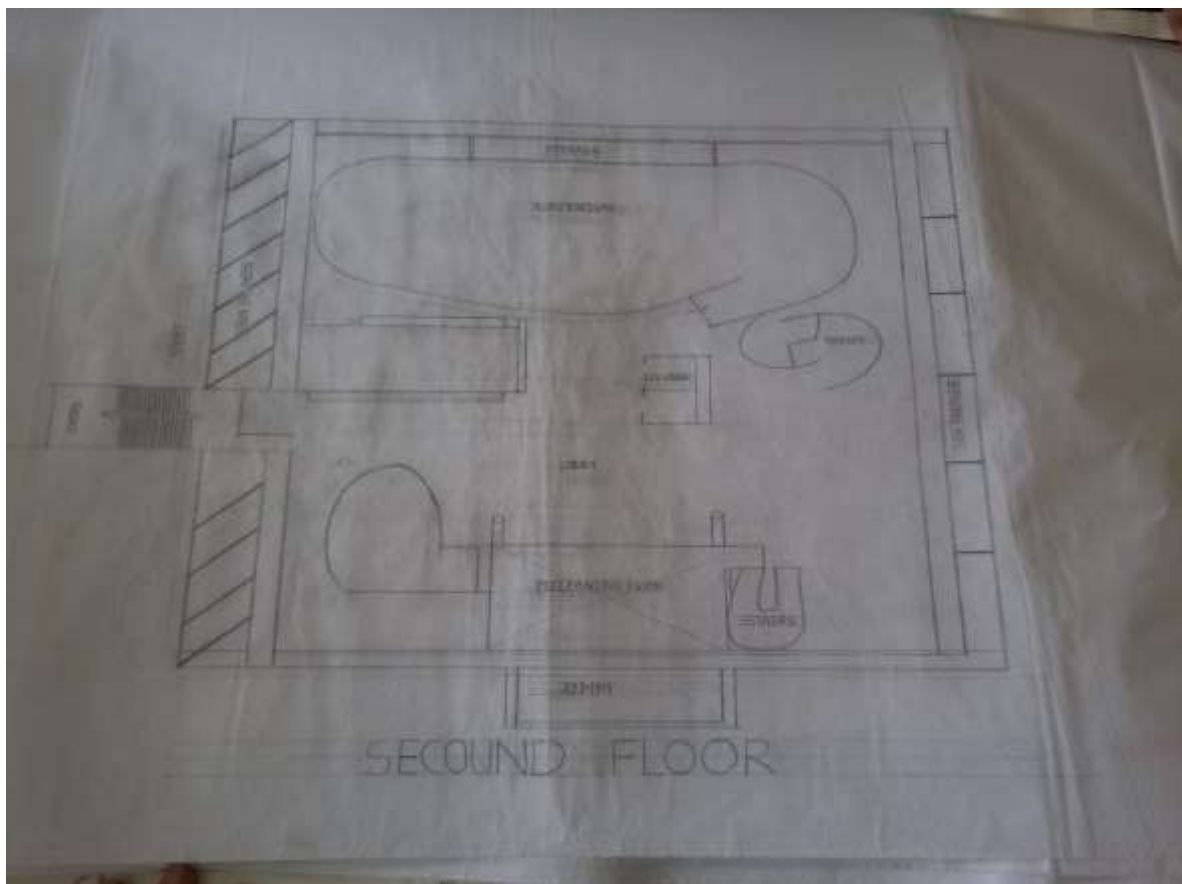
Sheets No	Name
1	Documentation of Case Study
2	Documentation of Eskey
3	Documentation of Heirloom and concept
4	Documentation of Site Survey
5	Site Plan
6,7	Plans of all floors
8,9	2 Sections per structure
10,11	2 Elevations per structure
12,13	Services sheet: Plumbing and drainage
14	Views
15 (Not sheet)	Model of structure (To Scale ) along with Site context

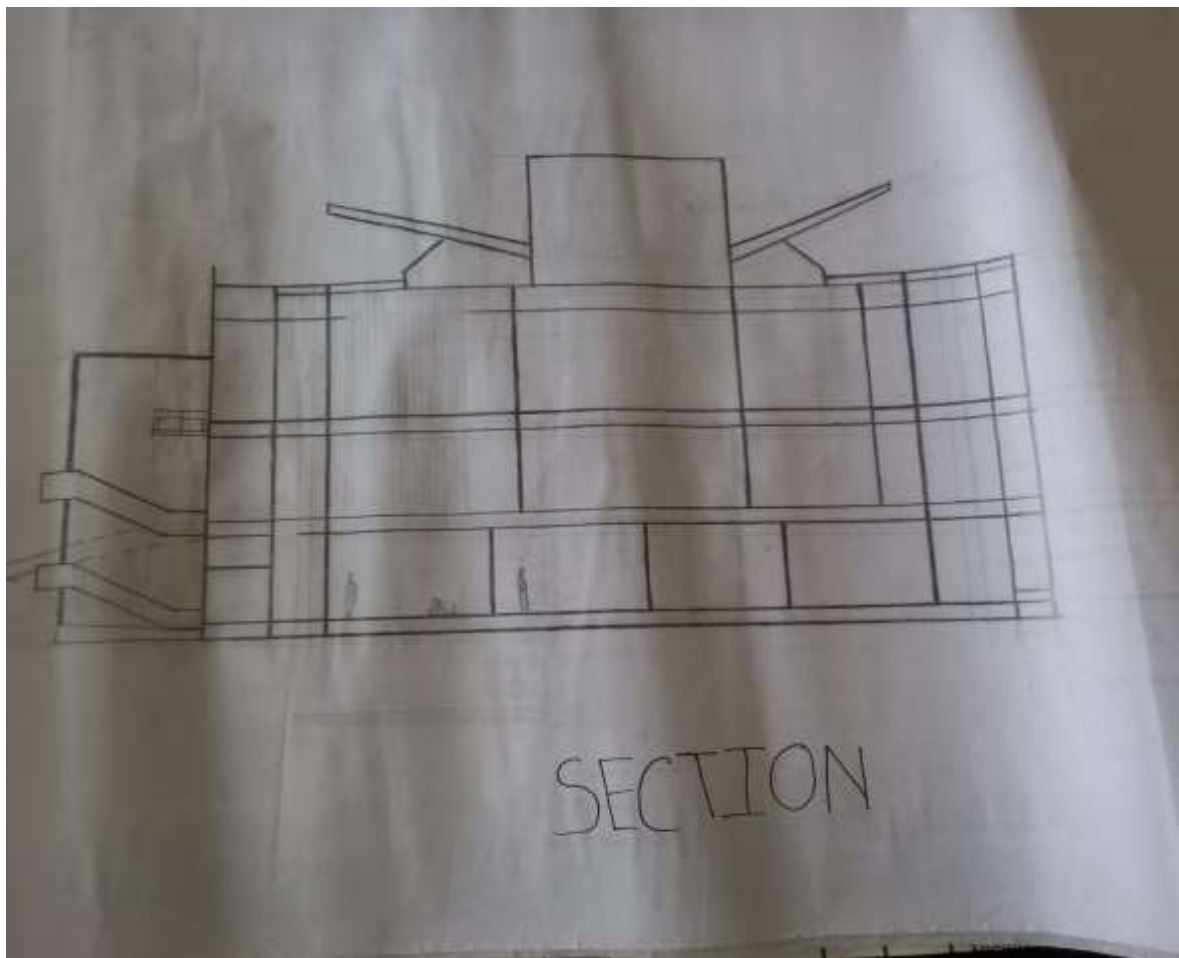
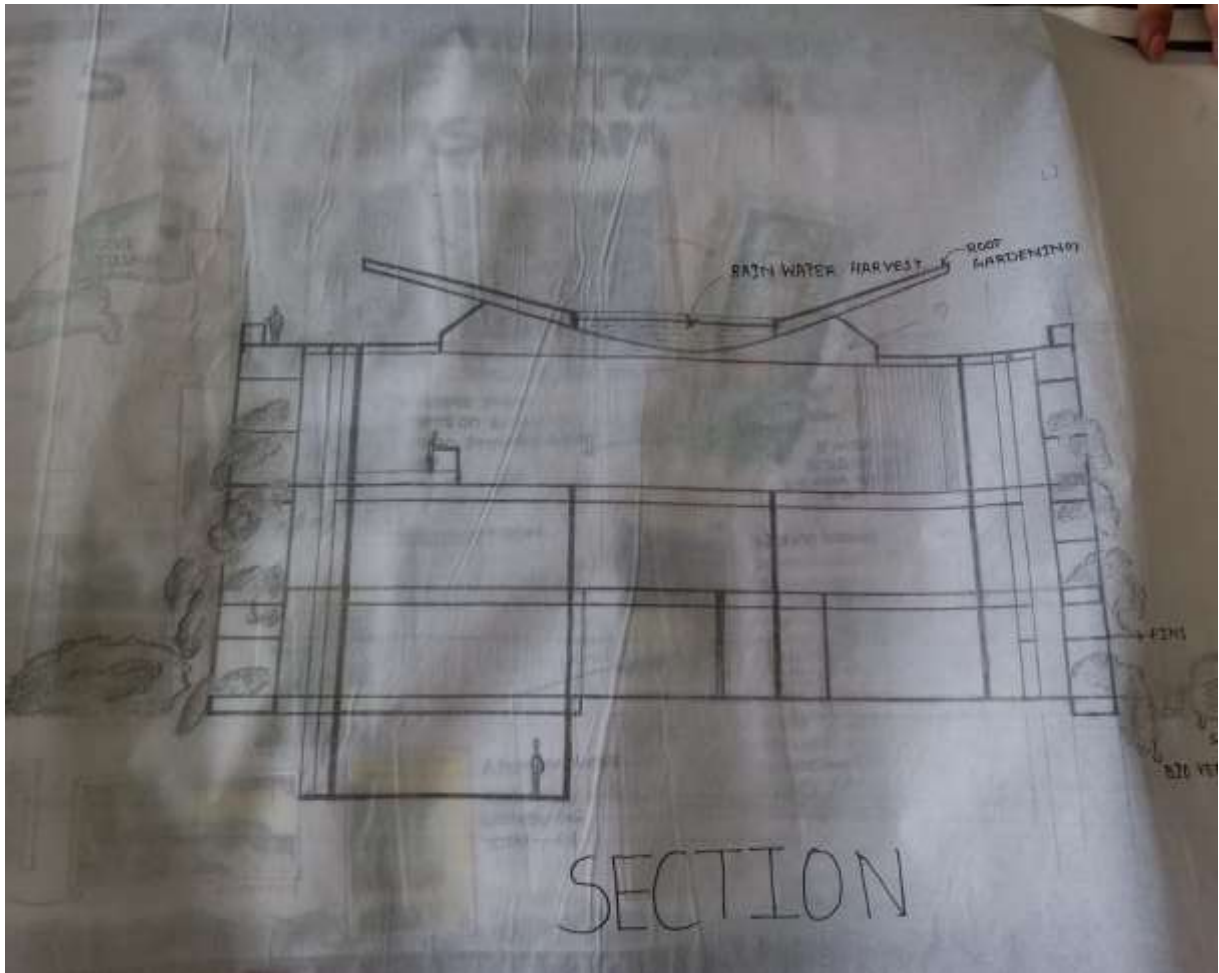
Schedule

Date	Day	Schedule	Marking
24th Jan	Tuesday	Introduction to ADS Exercise, Esskey, CaseStudy	
25th Jan	Wed	Case Study Studio	
27th Jan	Friday	Case Study Studio	
1st Feb	Wed	Case Study Presentation	15
3rd Feb	Friday	Introduction to Esskey	
7th Feb	Tuesday	Esskey Studio-Model making	
8th Feb	Wed	Esskey Studio-Model making	
10th Feb	Friday	Esskey Presentation	15
14th Feb	Tuesday	Site Survey Introduction and Site Visit	
15th Feb	Wed	Site Survey	
17th Feb	Friday	Site Survey	
21st Feb	Tuesday	Site Survey Presentation	10
22nd Feb	Wed	Concept Analysis	
24th Feb	Friday	Concept Analysis	
28th Feb	Tuesday	Concept Presentation	10
1st March	Wed	Spatial Resolution	
3rd March	Friday	Spatial Resolution	
7th March	Tuesday	Spatial Resolution Presentation-1	10
8th March	Wed	Holiday	
10th March	Friday	Spatial Resolution	
14th March	Tuesday	Spatial Resolution	
15th March	Wed	Spatial Resolution Presentation-2	10
17th March	Friday	Spatial Resolution	
21st March	Tuesday	Spatial Resolution	
22nd March	Wed	Holiday	
24th March	Friday	Pre Final Jury presentation	20
28th March	Tuesday	Services resolution	
29th March	Wed	Services resolution	
31st March	Friday	Services resolution Presentation	10
4th April	Tuesday	Holiday	
5th April	Wed	Final Drawings studio	
7th April	Friday	Holiday	
11th April	Tuesday	Final Drawings studio	
12th April	Wed	Final Drawings studio	
14th April	Friday	Final Jury	50
		<b>Total Marks</b>	<b>150</b>

# PORTFOLIO/STUDENTS

## 1. KUSHI AGRAWAL







# CASE STUDY OF MATOSHREE VRUDHASHRAM

Sriyoga Prastha Ganga Samithi, Thiruvananthapuram

**INTRODUCTION**  
 Sriyoga Prastha - 1996  
 Sriyoga Prastha - 1996  
 Prastha: Sriyoga Prastha  
 Area: 1000  
 Location: Thiruvananthapuram - District of Kerala

**LOCATION**

**PEOPLE PLANT TREES ON BIRTHDAY OR ON REMEMBRANCE DAY**

**INSTRUCTION**  
 1. ...  
 2. ...  
 3. ...  
 4. ...  
 5. ...

**Notice board**  
 ...  
 ...  
 ...

**Admin members**  
 Men - 25  
 Women - 66  
 Total - 91

**5 ACRES AREA BUILD UP AREA 2-0 ACRES SURROUNDING 3-0**

**SEARCH TABLE**

**TEMPLE**

**PARKING**

**CONSTRUCTION AREA**

**MAIN ENTRANCE FOR VRUDHASHRAM**

**SEED PROVIDED**

**SOIL PROVIDED**

**Design process**

# LOCATION, ZONING, BUBBLE DIAGRAM

**LOCATION**

**BUBBLE DIAGRAM**

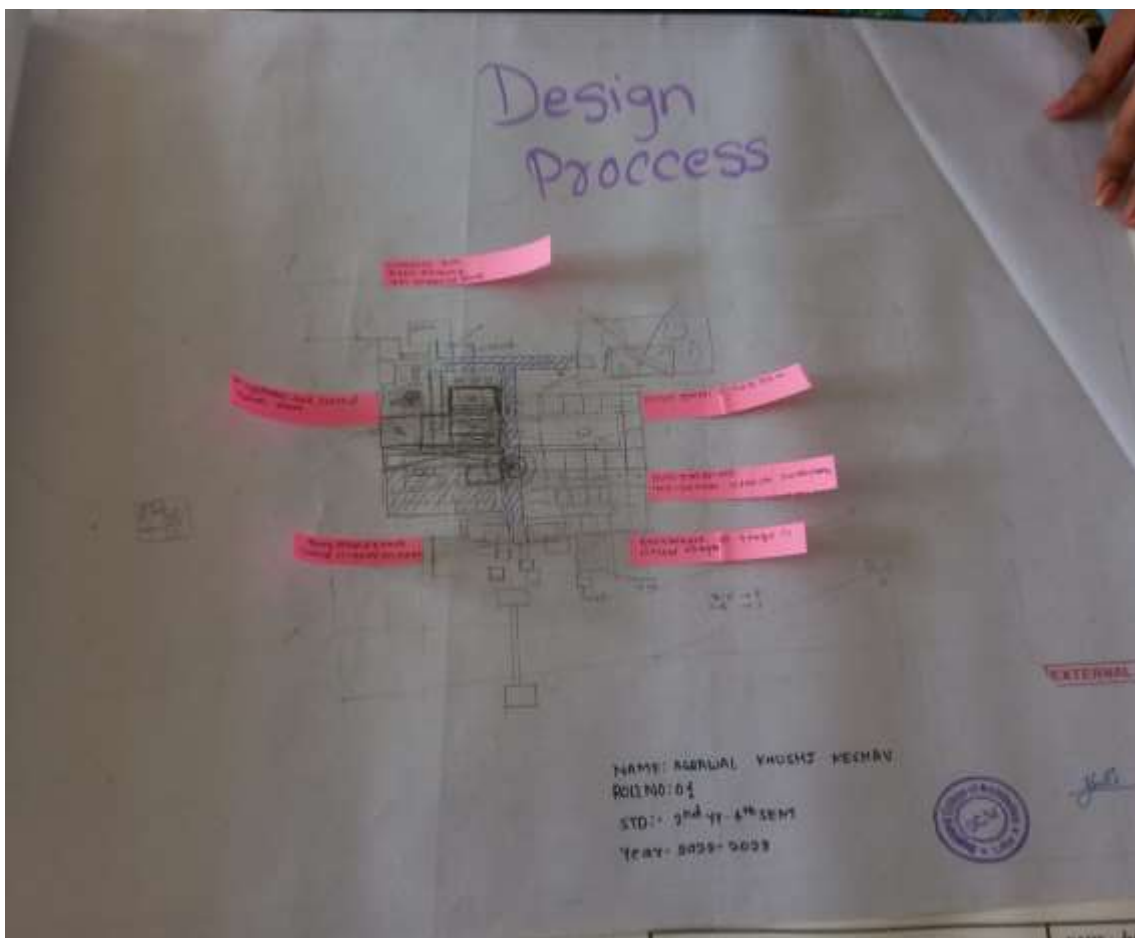
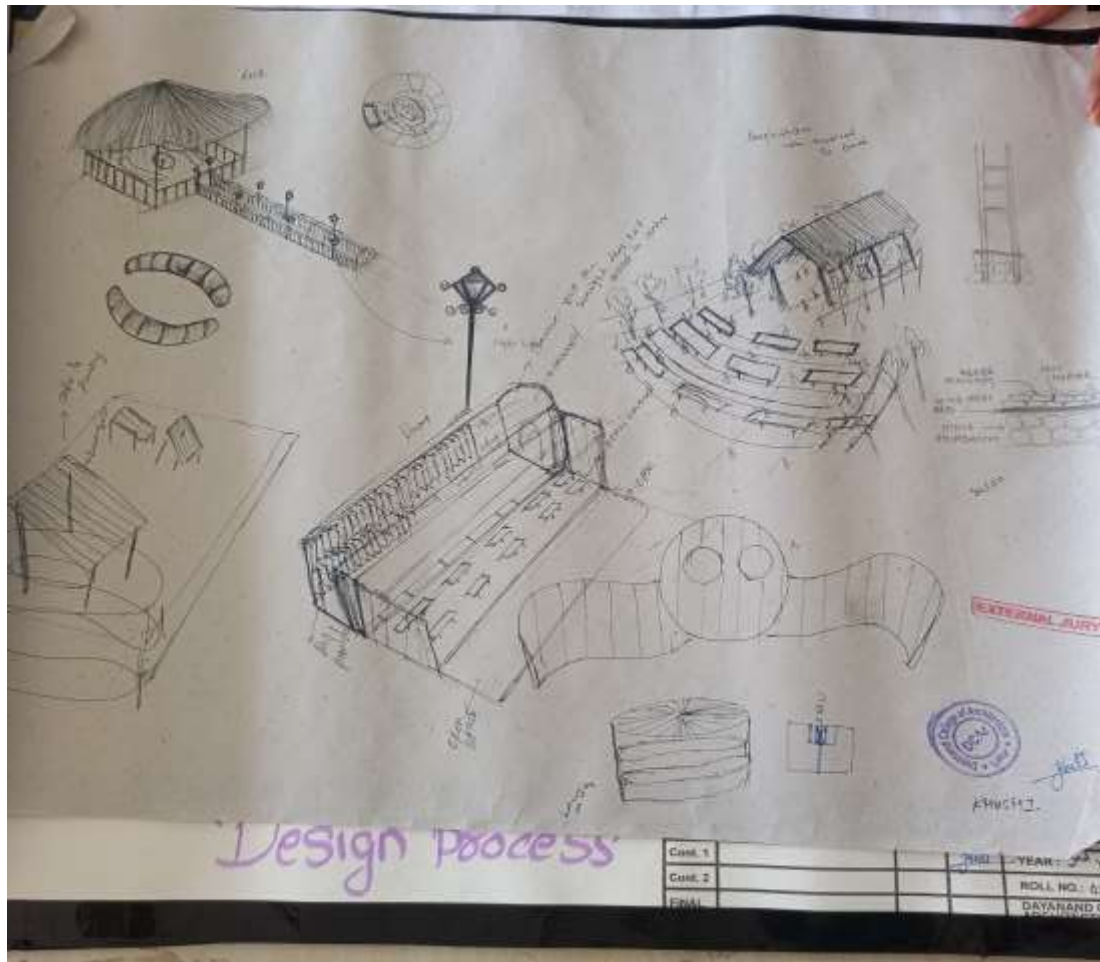
**ZONING**

**SOIL**  
 The soils from the district are used to obtain in soil reaction. Soils in Kerala are generally low to high in organic carbon content and non-calcareous. In part of the the moisture soil is found

**EXTERNAL SUPPLY**

**NAME: ANIRAJA KRISHNA SESHU**  
**ROLL NO. 01**  
**STD: 274 11-4TH STD**

**Design process**



# SPIRITUAL COLOUR THEORY

**7 TATVAS**

Touch, Hear, Smell, Vision

**Spiritual Senses of Space for elderly and disable person**

WATER BODIES

TEMPLE

**CONCLUSION**

- LIVINGNESS
- FEELING
- HEARING
- THOUGHT
- SELFLESS

**INTERIOR**

LIBRARY, MUSIC, YOGA

SELFLESS + LIBRARY + FEEL, SIGHT, MUSIC, HEARING, TOUCH

YOGA - THOUGHT, TOUCH, SENSE, SIGHT, "SILENTNESS" and "I AM" STATE

TEMPLE

WATER BODIES

**1. ENTRANCE**

Zone of settlement

For wisdom, discipline, discipline, light and sound experience

**2. PLANTATION**

Entrance, Screening, Climbing, Shade, Fresh, Translucent, Greenery in the area that produce seeds, fruits, vibrant feeling

**3. ENTRANCE GATE**

Add shade of soil and things

Zone of gate, entrance, through, screened, energy

Schematic made is there to enlighten light shade, enlighten the entrance

For, The gate - Translucent, connectivity

**4. WAITING GATE / ROOM**

Waiting room in my level from because in this room we will feel the calmness

For that's why most of the time we get bored in the waiting place, to make it delightful & give the landscape, colour and shade, screen in 20 inch for a low

**5. Windowsill**

In the windowsill, there is a window and using way present windows for glass persons

**EXTERNAL JURY**

WATER - THIS SHEET OF BAMBINO WILL HAVE HOLE OF STEEL AND KATHERIC

EMAS - FAD, WA, HINDI, PUNYAD

BY: 10/21

BY: 10/21

BY: 10/21

BY: 10/21

*Design Process*

NO.	REVISIONS	INSTRUCTIONS	DATE	BY
Corr. 1				
Corr. 2				
FINAL				

YEAR: 2<sup>nd</sup> Yr  
ROLL NO: 61  
DAYANAND CE

# CONCEPT, MATERIAL, CLIMATIC CONCEPT

**DOCUMENTARY**

The first step of my design is documentary. I did it by documenting all the existing buildings around the location. Then when documenting I learn about the importance of climate.

I choose bamboo "Eco" from the site. It is good for a location. It is good for the nature. It is good for the people. It is good for the environment. It is good for the future.

**Material used for Eco bamboo**

It is a good material for the design of the building. It is good for the nature. It is good for the people. It is good for the environment. It is good for the future.

**SPACE DESIGN**

The second step of my design is space design. We have to choose the best material based on space.

1. Water
2. Air
3. Humidity
4. Light
5. Sound

I choose for "Eco" because it is good for the nature. It is good for the people. It is good for the environment. It is good for the future.

**MINUS TO PLUS**

**SPACE**

**SOUL**

**ENVIRONMENT**

**CLIMATE**

**PROCESS OF SEASONING**

SEA BAMBOO → TREATMENT AND ANIMAL SYSTEM → BAMBOO STEEP → CLIPPING → FINISH

EMAS - ANANDU, MANJUNATHA

BY: 10/21

BY: 10/21

BY: 10/21

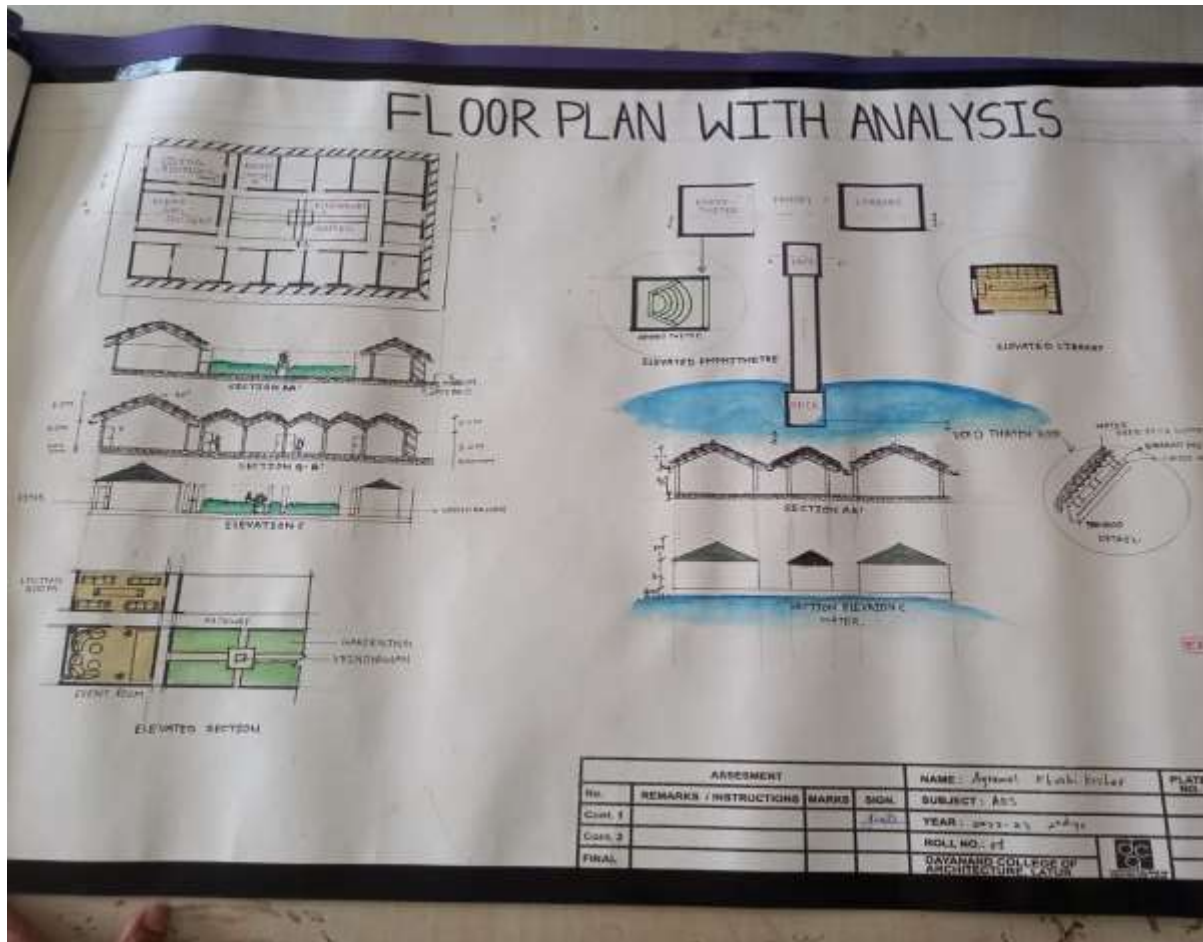
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FINAL				

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## ACHIEVEMENT OF STUDENT THROUGH PROJECT/ SHEET WORK

- STUDY ABOUT OLD AGE HOME
- LAWS FACILITY OLD AGE HOME
- STUDIED LE CORBUSIER STRUCTURE
- SPIRITUAL COLOR THEORY