

Saljyoth krishna

**AD**  
Portfolio  
and beyond...



## Personal Info

Name: Saljyoth Krishna  
Languages: Malayalam,english

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Kurikkilad.P.O  
Vatakara

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9526434689

Email:  
saljyothkrishna@gmail.com

Sem6 student:  
Masap,kottayam,kerala

## Interests

Design, story writing, classical music, symbolism, iconography, philosophy, parametricism, psychology, electronics, travelling, Mural art, organic architecture, Eclectism

## Skills

Critical thinking  
spatial organisation  
and integration  
Design drafting  
Digital modelling  
developed imagination

## Design ideals

Simplicity  
flexibility  
Tranquility  
transparency  
openness  
connectedness

## Commendations

School leader in u.p school,  
second prize in sub district electronics model making  
Chombala, vatakara, calicut  
sem 4 design topper,  
sem 5 interior design topper  
attended parametric design workshop of  
zonal convention(Z6)

## Software skills,

Adobe illustrator  
adobe after Effects  
adobe indesign  
adobe premiere pro  
adobe photoshop  
adobe lightroom  
adobe audition  
vray  
Rhinoceros  
kangaroo  
lumion  
autocad  
3dsmax  
revit  
sketchup  
nik collection  
realflow  
ms office  
keyshot  
weaverbird  
Autodesk ecotect analysis

## Inspirations

Nature  
soul  
Evolution  
Bonding  
Light  
Energy and history



*Saljyoth*

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Portraits,architectural sketches

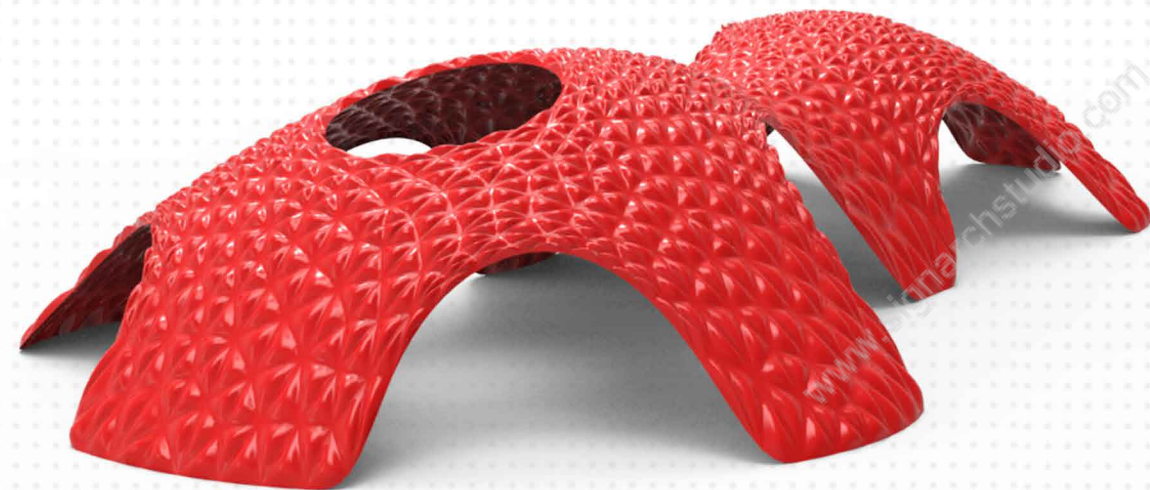
### 23 Graphic design

logos,posters,illustrations

## 24 Parametric design

### 24 Serpentine pavilion

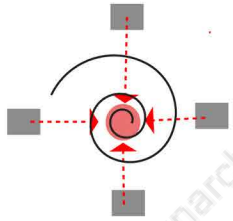
pavilion using sine waves



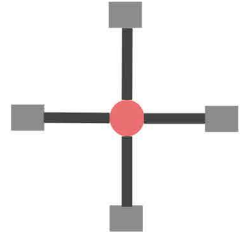
# Praanah- Residence design

The main focus of this proposal is to design a residence for an artist who required an artclass for primary students at his home.  
Site location: Rajakumari,Idukki,Kerala

## Concept Whirlpool



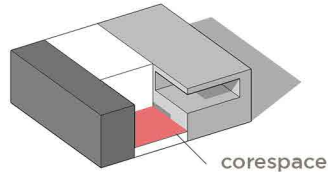
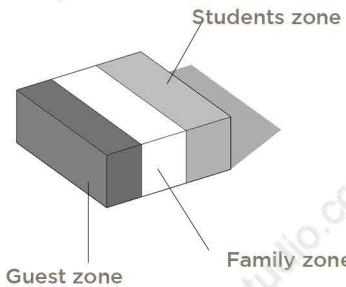
attraction of masses to the central core



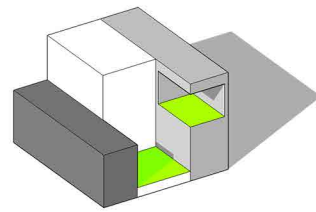
Spaces integrated to core space circulation happens around it -integration and movement



Forcefully make client use the core space to charge up himself



introduction of porosity planning core space as it keeps visual connection from 3 zones



playing in levels, bringing greenery to levels to create a feel of living outside and keep landscape continuity.



# Site analysis

## SLOPE

- SLOPE OF THE SITE IS 1:4
- TALL TREES WITH BIG CANOPY CREATES NATURAL SHADE
- THE SHADED AREAS CAN BE USED AS OUTDOOR ACTIVITY SPACES SUCH AS OUTDOOR LIVING, OUTDOOR DINING ETC.

## SOIL

- THE SITE HAVE A LAYER OF BLACK COTTON SOIL ON THE TOP LEVEL AND ALLUVIAL SOIL ON THE BOTTOM SIDE
- BLACK COTTON SOIL IS BEST FOR CULTIVATION. ATTRACTIVE LANDSCAPES CAN BE CREATED WITH VARIETY OF PLANTS.
- THE ALLUVIAL SOIL HAVE A GREAT BEARING CAPACITY. SO FOUNDATION LYING IN THAT LAYER WOULD BE STRONGER.

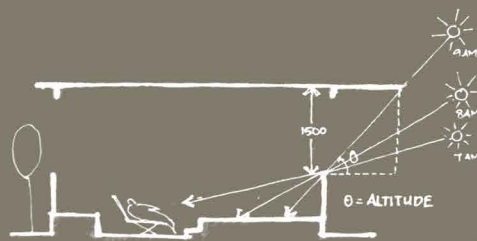
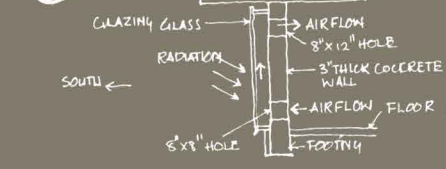
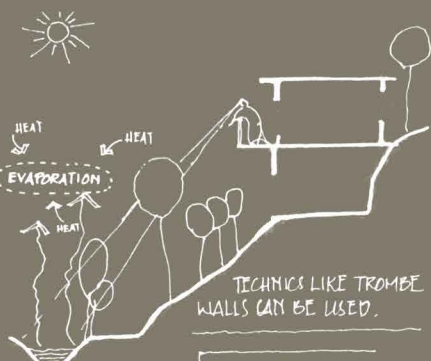
## ROADS

- IT IS IMPOSSIBLE TO BUILD A STRAIGHT ROAD (AUTOMOBILE) ON A 1:4 SLOPING SITE.

- ROAD ALONG THE CONTOURS DECREASE RETAINING WALLS AND COST
- THE ROAD IN FRONT OF THE SITE CONNECTS TWO MAJOR TOWNS IT MAKES THE TRANSPORTATION EASIER

## OTHER FEATURES

- THE THICK VEGETATION AROUND THE SITE GIVES OXYGEN RICH AIR, AND AN ENERGETIC DAWN.
- THE ELECTRICAL LINES IN FRONT OF THE SITE IS A MERIT. IT GIVES EASY CONNECTION TO THE RESIDENCE.



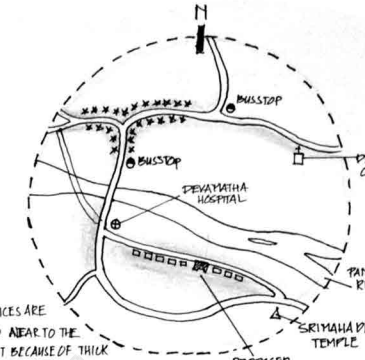
## CLIMATE

- EVAPORATION HAPPENS AT THE RIVER SIDE TAKES HEAT FROM THE SURROUNDINGS, IT MAKES THE SITE COOLER.
- FACADE FACING NORTH-EAST SIDE PROVIDES AN INTERESTING VISION TO THE RIVER.
- THE ROCK BED OF 3m HEIGHT IN THIS SITE (S-W SIDE) CAN BE REPLACED AS THE BACK WALL OF THE RESIDENCE. IT REDUCE COST, AND MAKES THE INTERIOR ATTRACTIVE

- THE SITE IS LOCATED AT A HIGH HUMID AREA (> 90% RH) SO THE CHANCE TO SWEAT IS HIGH. SO NATURAL AIR CHANGES MUST BE REQUIRED FOR THE COMFORT.

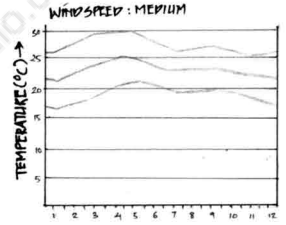
- LOUVRES CAN BE USED TO CREATE A BALCON EFFECT AND PUSH THE AIR OUTSIDE PASSING THROUGH THE LIVING ZONE
- SUN SHADING DEVICE CAN BE DESIGNED TO ALLOW THE PATH OF THE MORNING LIGHTS, AND EVENING LIGHTS. TO HEAT UP THE COOL INTERIOR IN THE MORNING. THE SUN LIGHT KILLS THE BACTERIAS PRESENT IN THE AIR INSIDE.

- SHADING DEVICE CAN BE DESIGNED TO PREVENT THE EXTREME HOT RAYS BETWEEN 9:00 AM TO 5:00 PM.



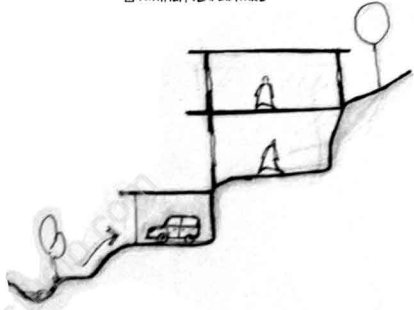
RESIDENCES ARE LOCATED NEAR TO THE SITE BUT BECAUSE OF THICK VEGETATION THEY DIDNOT GET A STRAIGHT VIEW TO THE SITE, THAT INCREASE PRIVACY.

- RAJAKUMARI IS A PLACE WITH MORE SETTLEMENTS. MOST OF THE PLACE IS FOREST. SO THE PEOPLE COLLECT FOREST ELEMENTS, CUTS BAMBOO, AND CULTIVATE SPICES. MOST OF THE PEOPLE HAVE FIELDS, AND PISCI CULTURE.
- THERE ARE SOME BUSSTOPS NEAR TO THE SITE, IT MAKES THE TRANSPORT EASIER.
- THERE IS DEVA MATHA HOSPITAL FOR MEDICAL NEEDS AND EMERGENCIES
- THERE ARE TEMPLE AND CHURCH FOR HINDUIS AND CHRISTIANS
- MOST OF THE LANDS ARE AGRICULTURAL.



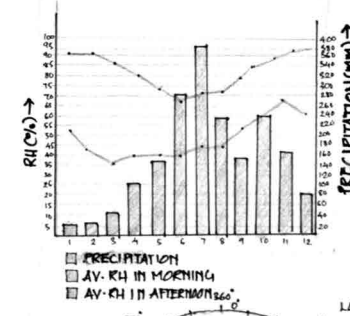
MAX TEMP: 30°C  
MIN TEMP: 17°C  
MAX TEMP IN MARCH AND APRIL  
MIN TEMP IN JAN AND DEC

- THE TEMPERATURE NEVER GO ABOVE 30°C. SO IT'S A COOLER AREA. WE HAVE TO HEAT UP THE INTERIOR. GLASSES AND THICK WALLS CAN BE USED TO HEAT UP. MORNING LIGHT CAN BE USED TO INCREASE INTERNAL HEAT GAIN

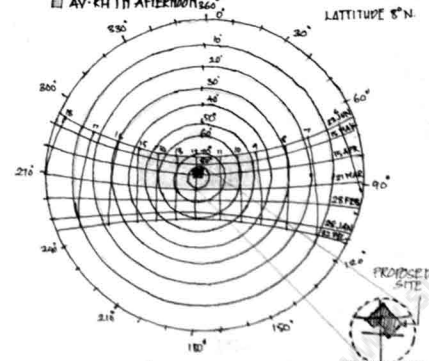


- PLANNING CARPORCH IN THE LOWER LEVEL IS A BETTER IDEA TO DECREASE COST, BECAUSE SHORT ROAD IS ENOUGH TO PARK A CAR IN THE PORCH WHICH IS IN THE LOWER LEVEL OF THE SITE

- PLANNING CARPORCH IN THE LOWER LEVEL AND RESIDENCE IN THE TOP LEVEL IS IDEAL. IT REDUCE NOISE AND INCREASE PRIVACY.



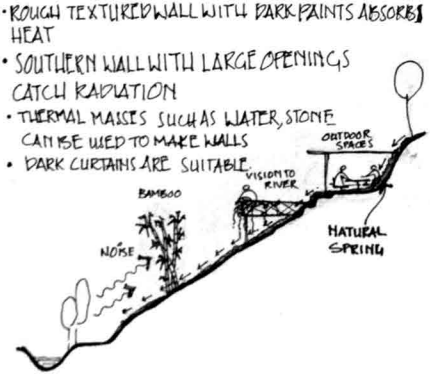
MAX PRECIPITATION: 380mm  
MAX HUMIDITY: 92%



- SHADE IS DESIGNED TO PREVENT DIRECT RAYS BETWEEN 9:00 AM TO 3:00 PM
- EQUATION OF SHAPE LENGTH: WINDOW HEIGHT (H)  $\tan(\text{ALTITUDE})$  TAKE H: 150 CM
- N-FACING WINDOW: 65°
- W-FACING WINDOW: 69.6 cm
- E = 45° = 150 /  $\tan(45)$  = 150 CM
- S = 80° = 26.44 CM
- N = 72.5° = 47.29 CM
- N-E = 45° = 150 CM
- N-W = 62.15
- S-W = 2:00 PM, 75° = 40.42
- S-E = 9:00, 98°, NO SHAPE IS NEEDED.

## OTHER FEATURES

- THE NATURAL SPRING FROM THE ROCK BED IS AN ATTRACTIVE FEATURE THAT CREATES A PLEASANT MOOD. THE GUEST'S LIVING CAN BE PLANNED NEAR TO IT.
- NOISE
- THE ROAD IS AT THE NORTH-EAST SIDE OF THE SITE. NOISE IS COMING FROM THAT SIDE. THE TREES LIKE BAMBOO ACTS AS A NOISE BUFFER.



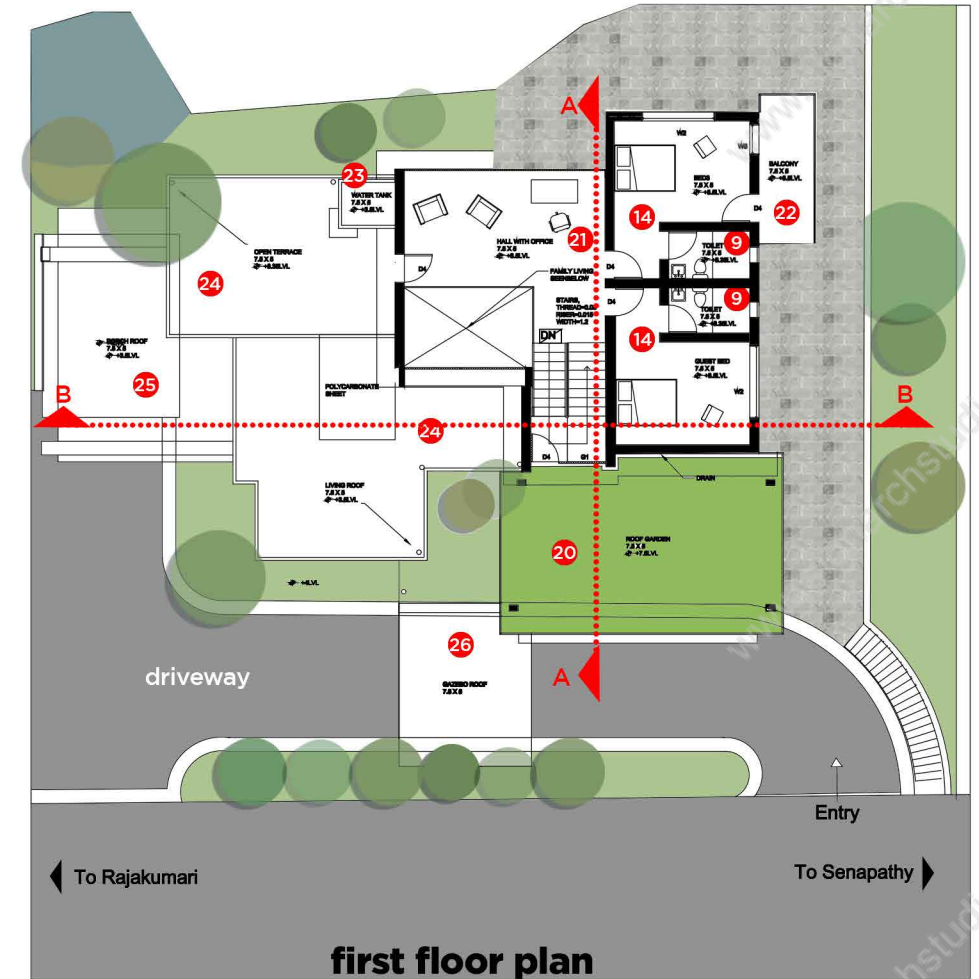
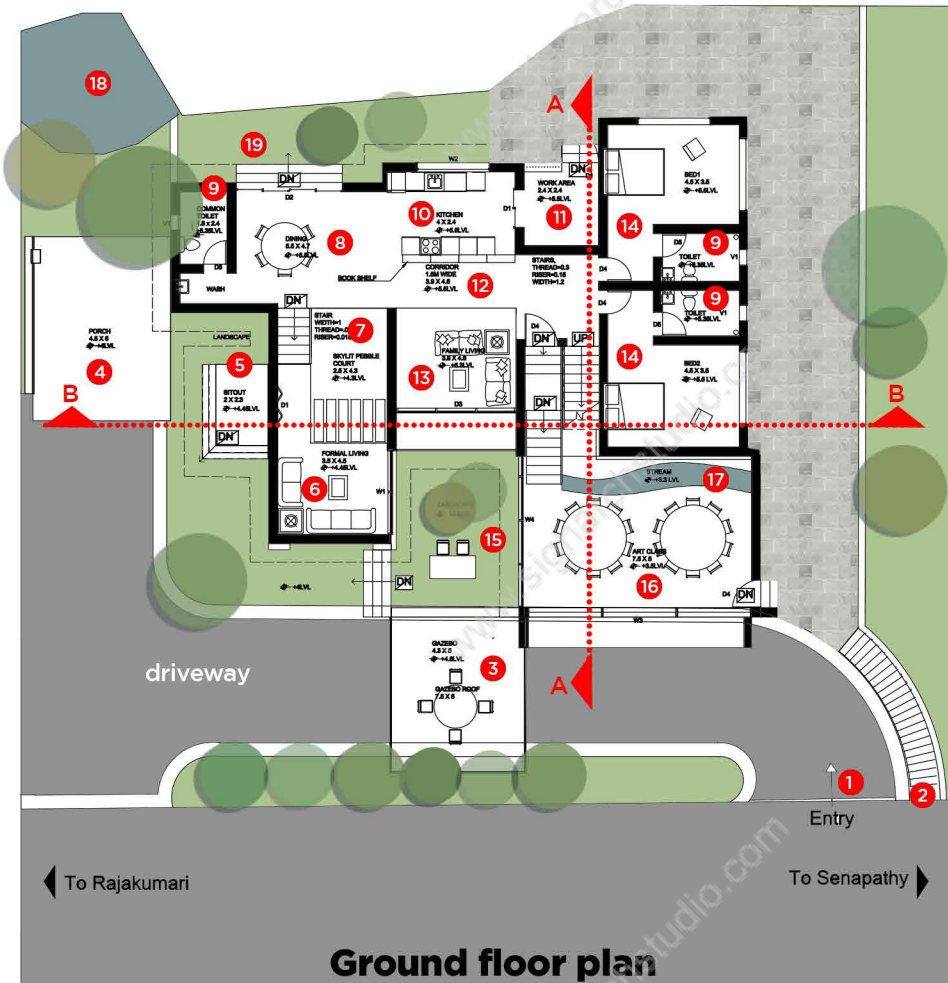
- THE PEOPLE FROM TAMILNADU MIGRATED TO THIS AREA. SO A MIXED CULTURE IS EXISTED HERE. THEY ARE EDUCATIONALLY A BACKWARD, BUT THEY HAVE GREAT SKILLS IN AGRICULTURE AND

# Praanah- Residence design I plans

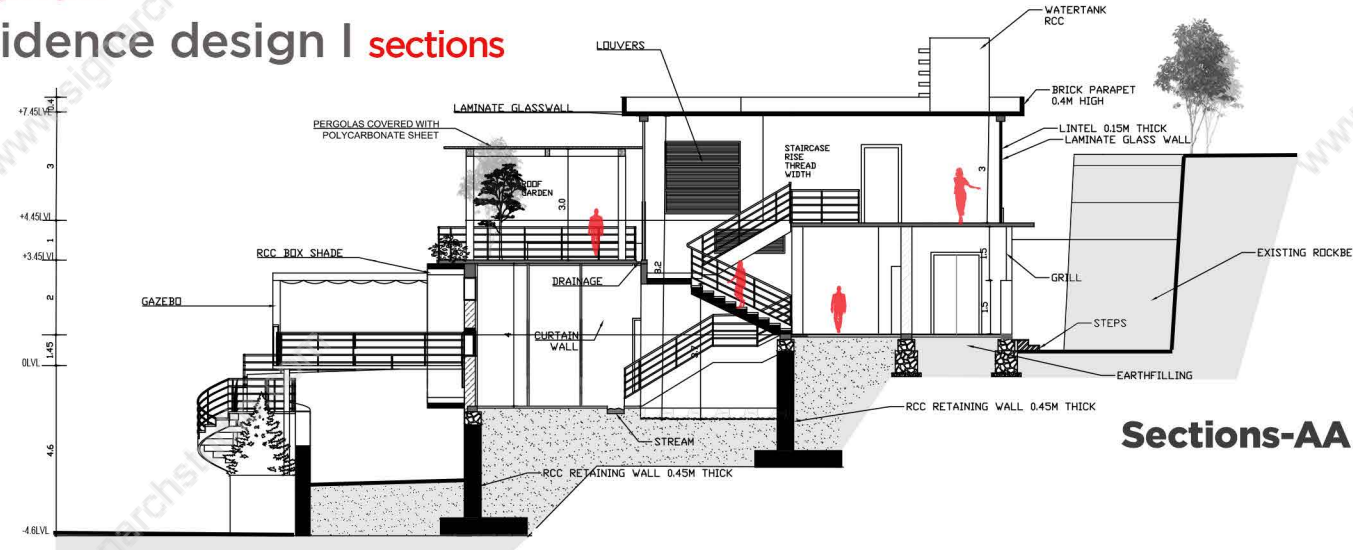
- 1. automobile entry
- 2. students entry
- 3. gazebo
- 4. car porch
- 5. verandah
- 6. formal living
- 7. skylit pebble court
- 8. semi open dining
- 9. toilets
- 10. kitchen
- 11. work area
- 12. library
- 13. family living
- 14. bedrooms
- 15. open air court (core space)
- 16. art class
- 17. stream
- 18. existing rock pond
- 19. landscape garden
- 20. green roof
- 21. office space
- 22. balcony
- 23. water tank
- 24. terrace
- 25. porch roof
- 26. gazebo roof

Existing water fall on the site is directed through art class using underground pipes

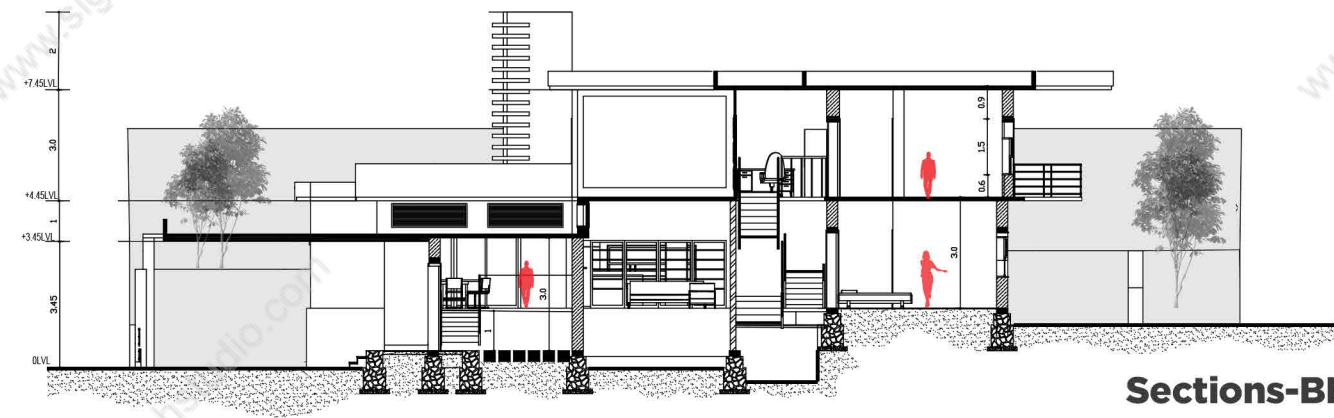
gazebo is used for outdoor discussions



# Praanah- Residence design | sections



Sections-AA



Sections-BB



Library



Family living



Art class

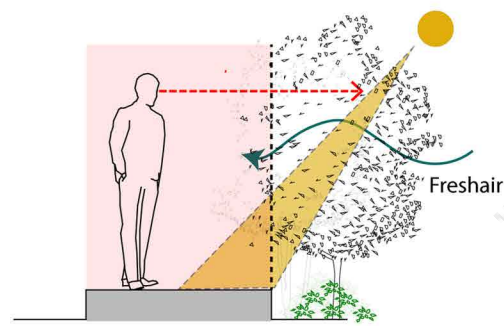


Office space

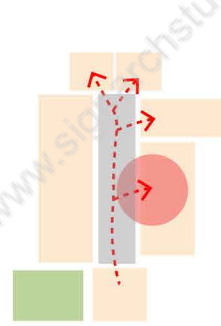
# Praanah- Residence design

on the ground, the corridor connecting bedrooms and dining runs through the core space, this forcefully direct the strong movements through the core that serves the client interactive nature.

**Major interaction spaces aesthetically adding simplicity and integrity to design**



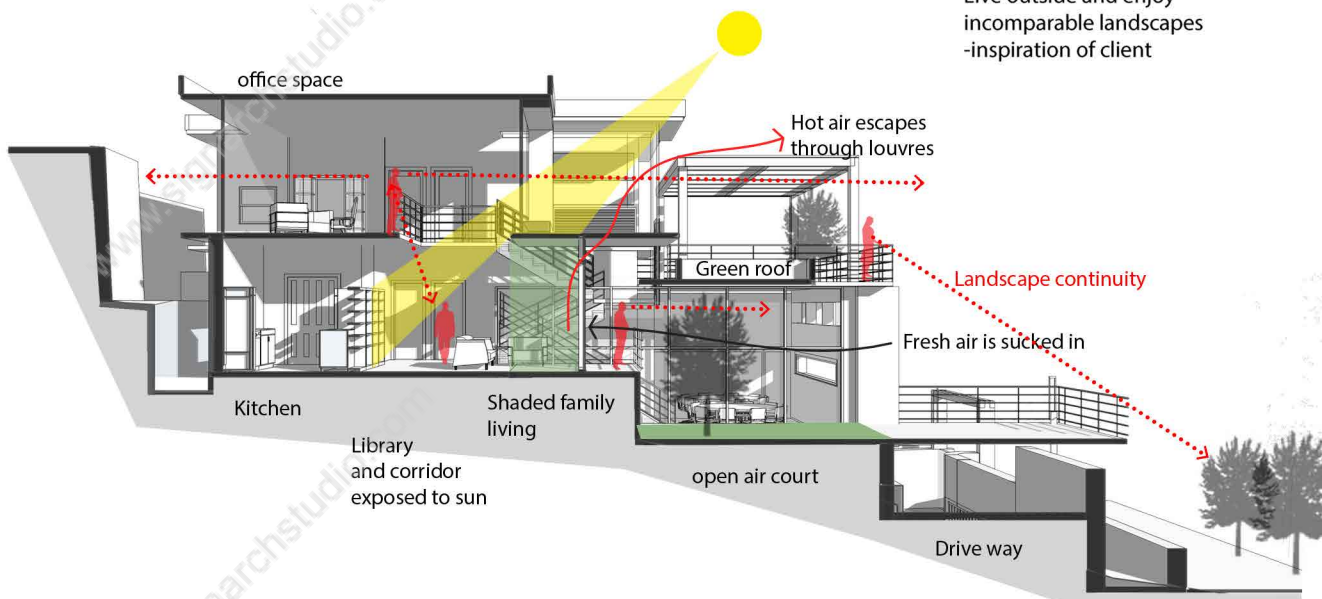
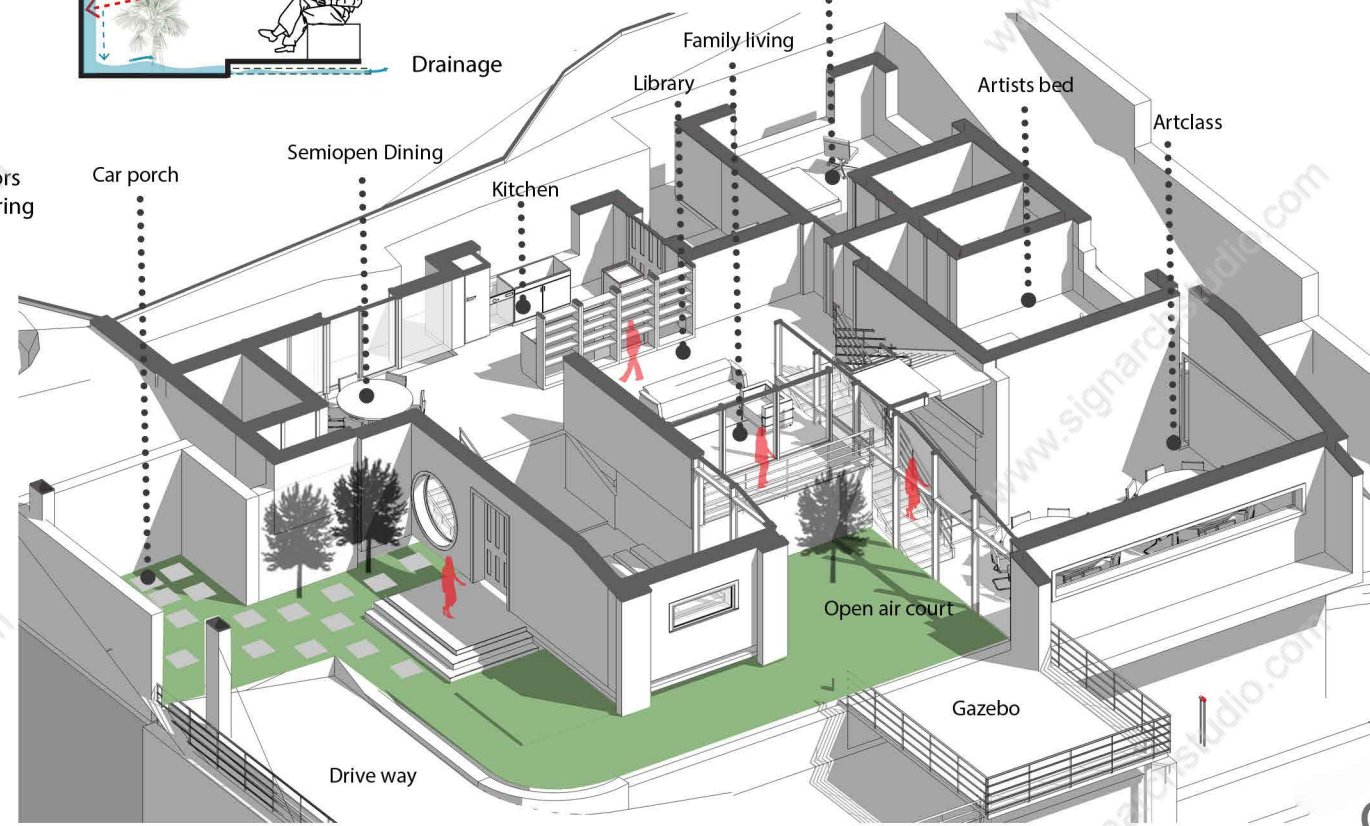
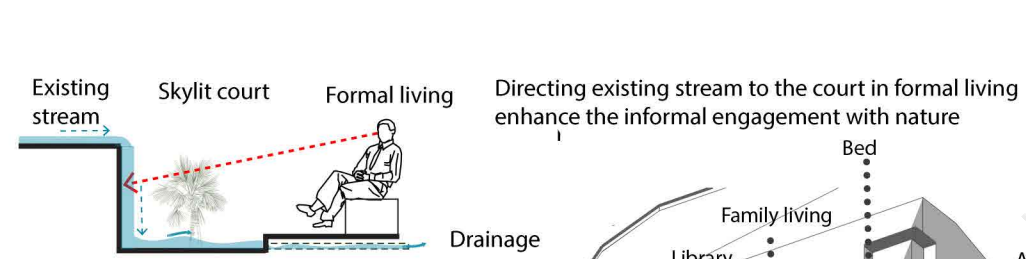
Blurring the boundaries between built and unbuilt spaces  
Live outside and enjoy incomparable landscapes  
-inspiration of client



Interconnecting of spaces by corridors enhance communication and gathering

- Communications
- Views
- Water movement
- Circulations
- Landscapes
- Corespace

- natural light creates interests
- Planning in levels alter the line of sight and directions of views to get views in different perspectives





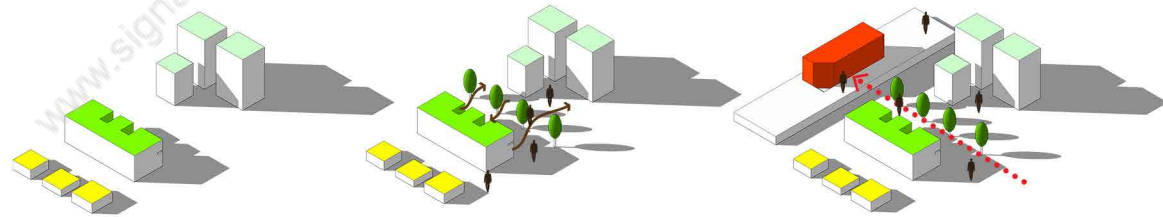
# **institute of management pala-** campus design

Aim of this proposal is to design a business school at pala,  
for 360 students .

## **Concept** **Amalgamation of mind shift**

Planning and integrating spaces as it create a mind shift  
when user moves from one to another

■ Academics   ■ Amenities   ■ Faculty residences   ■ Library and labs



Academics is easily  
accessible from  
amenities and  
residences

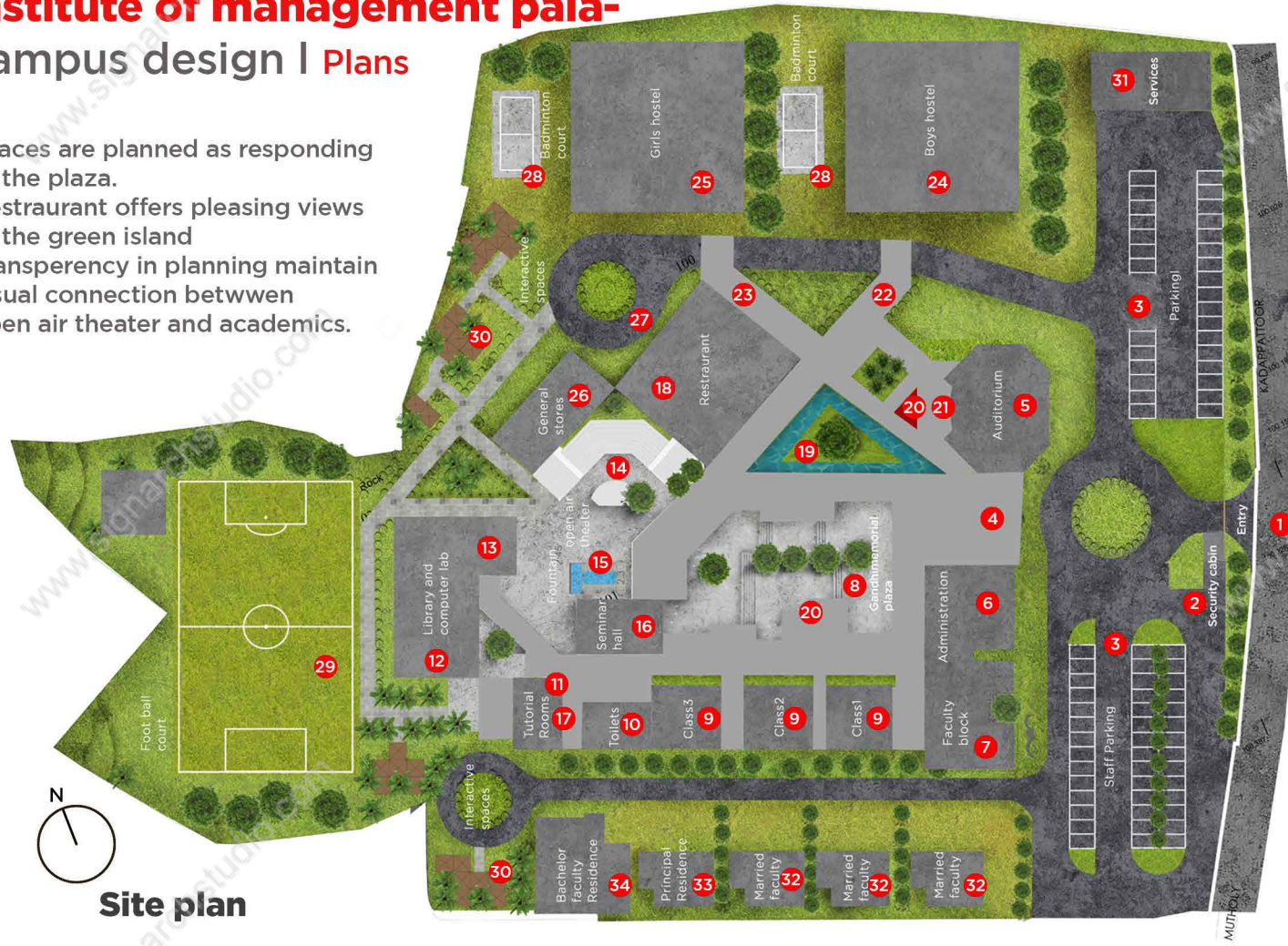
Avenue of trees act as  
the edge of amenities  
and academics, allowing  
permeable connections

Planning library in the main  
axis on an elevated platform  
to make it predominant  
and to create a vista from  
the entrance



# institute of management pala- campus design | Plans

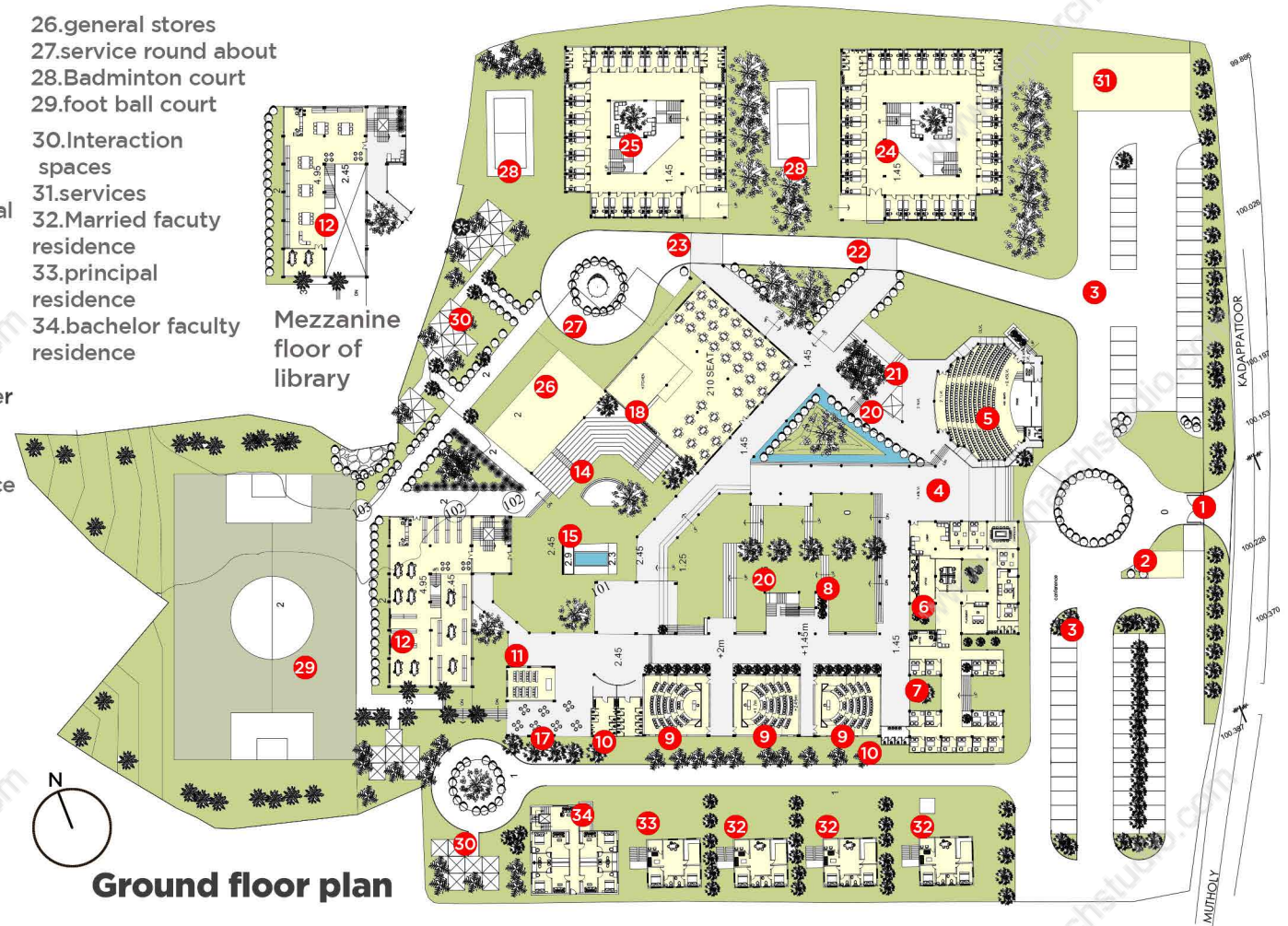
spaces are planned as responding to the plaza.  
 Restaurant offers pleasing views to the green island  
 Transparency in planning maintain visual connection between open air theater and academics.



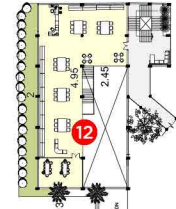
Site plan

- 1.main entry
- 2.security cabin
- 3.parking
- 4.entrance
- 5.auditorium
- 6.administration
- 8.gandhi memorial plaza
- 9.PG classes
- 10.toilets
- 11.tutorial room
- 12.library
- 13.Computer lab
- 14.open air theater
- 15.fountain
- 16.seminar room.
- 17.discussion space
- 18.restraurant
- 19.green island
- 20.cafe
- 21.lobby
- 22.pathway
- 23.pathway
- 24.boys hostel
- 25.girls hostel
- 26.general stores
- 27.service round about
- 28.Badminton court
- 29.foot ball court
- 30.Interaction spaces
- 31.services
- 32.Married faculty residence
- 33.principal residence
- 34.bachelor faculty residence

- Built
- Semiopen
- open



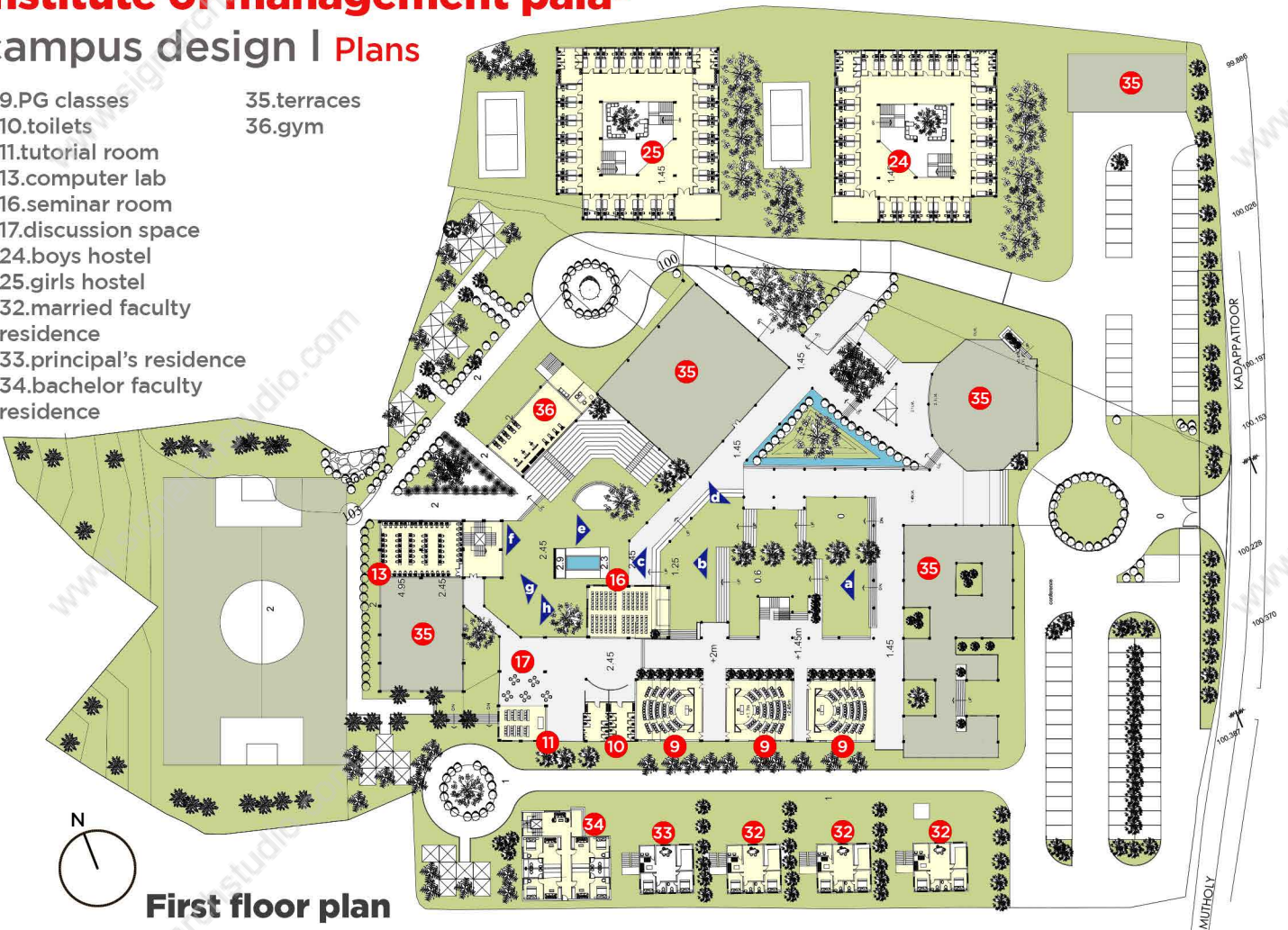
Ground floor plan



Mezzanine floor of library

# Institute of management pala- campus design | Plans

- 9.PG classes
- 10.toilets
- 11.tutorial room
- 13.computer lab
- 16.seminar room
- 17.discussion space
- 24.boys hostel
- 25.girls hostel
- 32.married faculty residence
- 33.principal's residence
- 34.bachelor faculty residence
- 35.terraces
- 36.gym



**First floor plan**



view-a **Gandhi memorial plaza**



view-b **Library entry**

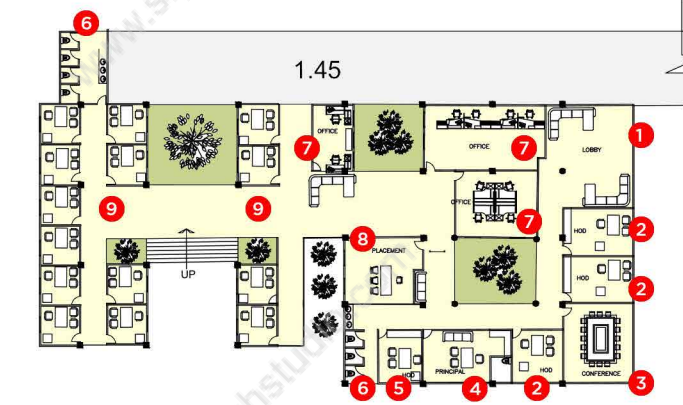


view-c **Saraswathi shrine**

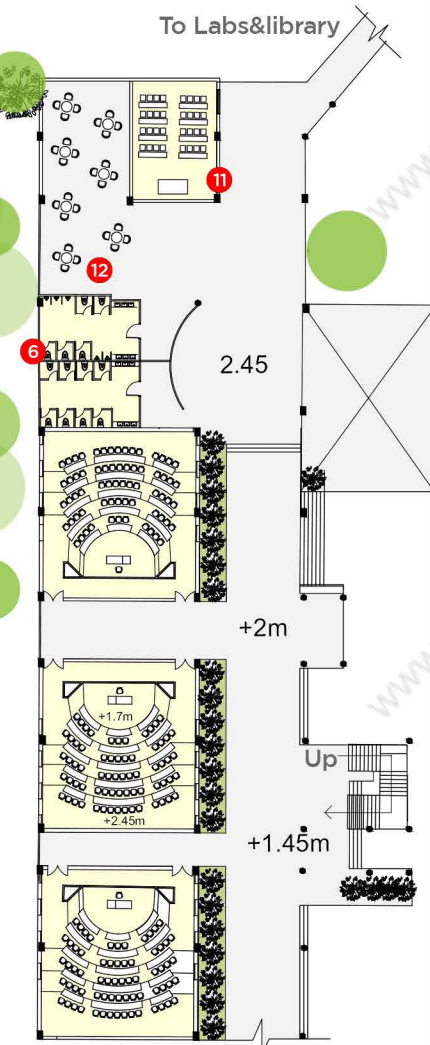
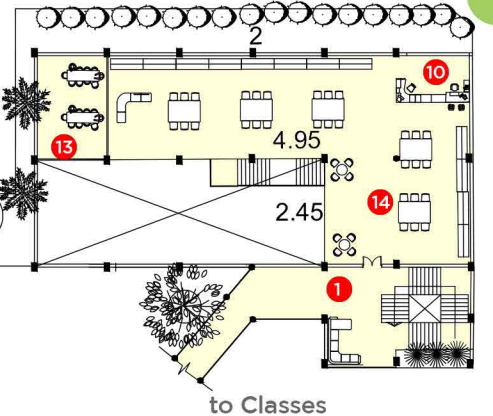
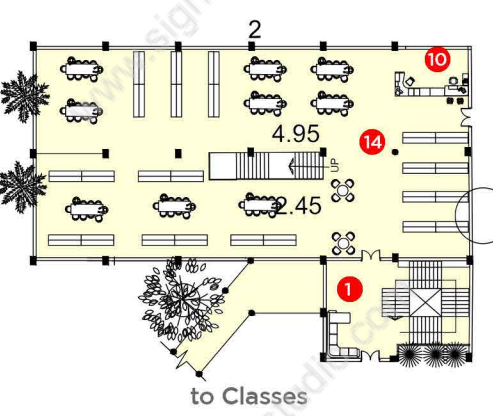


view-d **Walkway**

# institute of management pala- campus design | Plans



- 1.lobby
- 2.HOD
- 3.conference
- 4.Principal
- 5.administrator
- 6.toilets
- 7.offices
- 8.placement room
- 9.faculty rooms
- 10.reception
- 11.tutorial room
- 12.discussion space
- 13.faculty reading
- 14.common reading



Administration and faculty block

Library ground floor

Library mezzanine floor

Academics



view-e Pradakshina path



view-f Library Arch

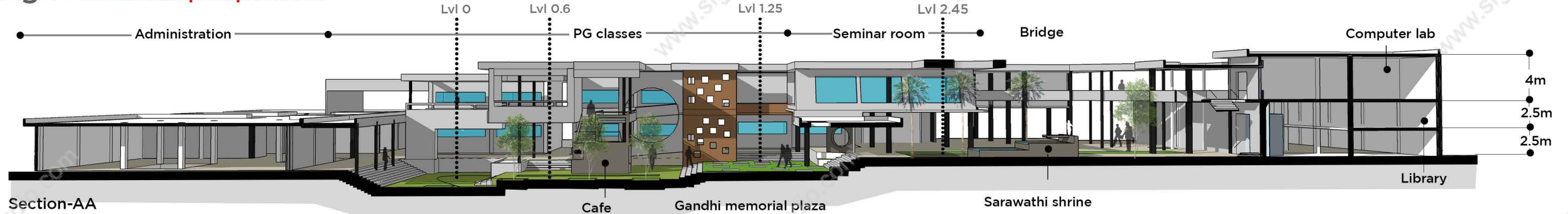


view-g Under seminar room

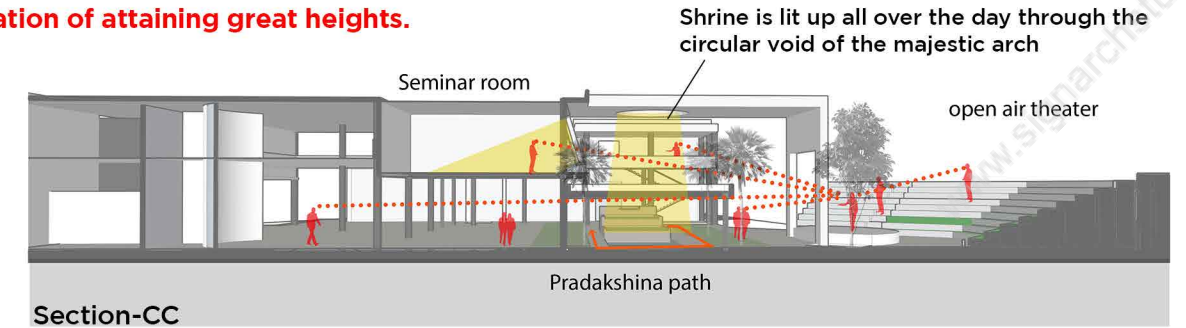
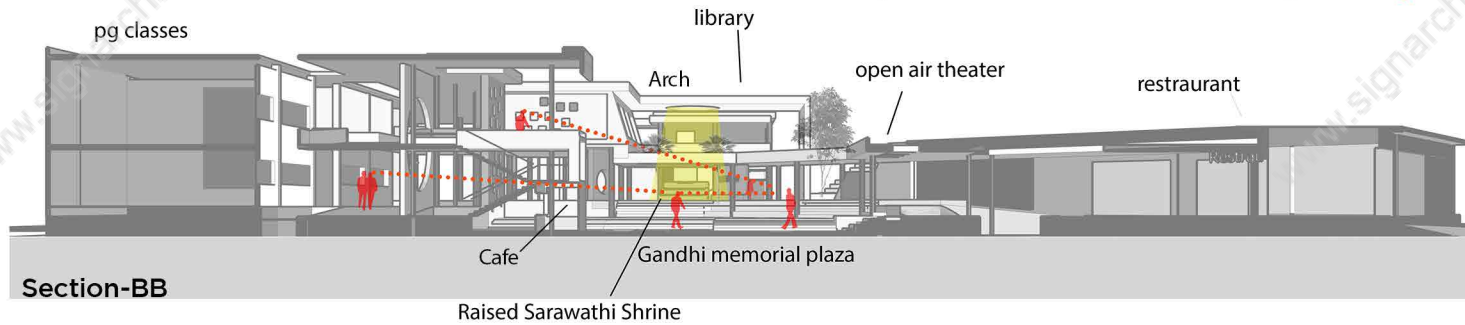


view-h under seminar room

# institute of management pala- campus design | Sectional perspectives



The steps between entrance and library is the **symbolic representation of attaining great heights.**



Gandhi memorial plaza is the source of energy of the campus. Frequent movement between academics and amenities through the plaza charge up the students, this is also the **meeting point for exchange of ideas**. The environment is designed **to mould passionate students and create some memories of the campus life.**

**Library, the space to be respected** is planned on a raised platform to **make it predominant like a temple**. The sarawathi shrine fixed on the fountain in front of it is the **symbolic representation of transfer of knowledge from the source**. Circulation happens around the shrine is like through a **pradakshina path**, students get **attached to the library mentally and visually** when they move in the campus.

# Loopgarten- kindergarten design

Aim of this proposal is to design a kindergarten, respecting the specific site conditions, with daycare facility.

site location: kottayam, kerala

## concept I Loop

loop is a form without having edges, it shows continuity, the form respects the curvilinear movement of kids

roof form is developed as an curved morphology that is child friendly resembles like a cave, it create a feel of the enclosure of comfort and protection, spatial organisation which brings greenery inside keep them attached to the mother nature

contrasting colour schemes matching to earthy colours are also child friendly.



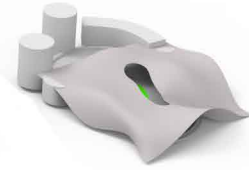
basic loop structure respecting curvilinear movement of children



Spatial organisation respecting the loop



bringing greenery inside

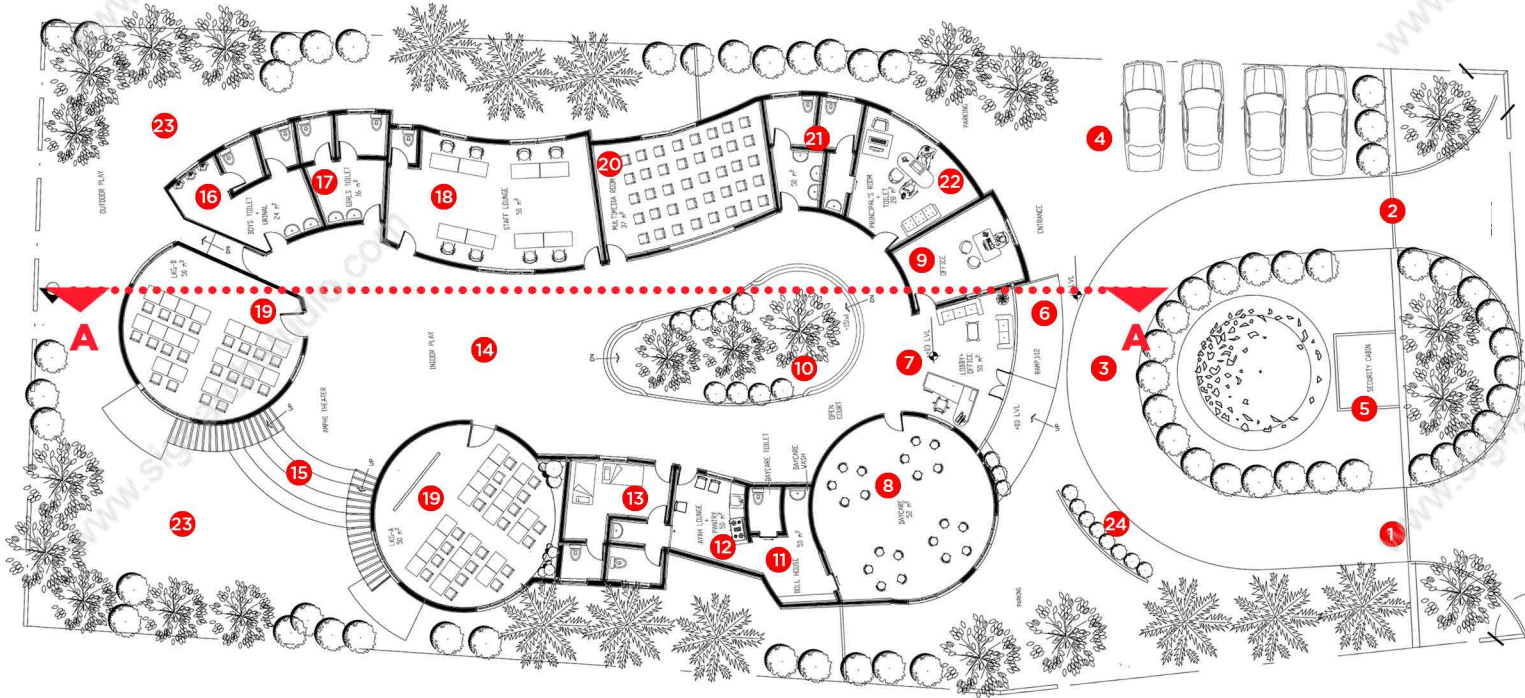


Developing roof form to curved morphology



# Loopgarten- kindergarten design

planning class rooms as to get **faculty survialance for better care..**



- 1.entry
- 2.exit
- 3.drop off
- 4.parking
- 5.security cabin
- 6.ramp
- 7.reception+lobby
- 8.daycare
- 9.office
- 10.open court
- 11.doll house
- 12.pantry
- 13.sick room
- 14.indoor play
- 15.amphitheater
- 16.boys toilets
- 17.girls toilet
- 18.faculty room
- 19.classes
- 20.multimedia room
- 21.toilets
- 22.principal room
- 23.outdoor play
- 24.name board



**Section-AA**

concrete roof

wooden louvres

Ferro cement  
roof

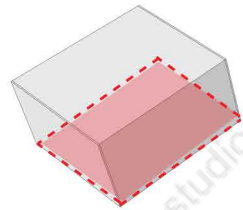


**Front elevation**

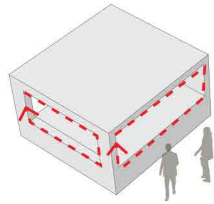
# Quest, -Kiosk design

The main focus of this proposal is to design a book kiosk for a railway station which is feasible even in a busy situation.

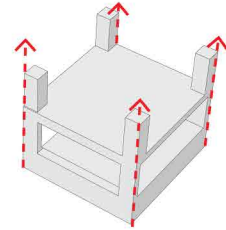
## Design process



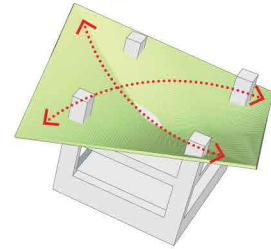
Maximizing the use of the area provided by railway authority.



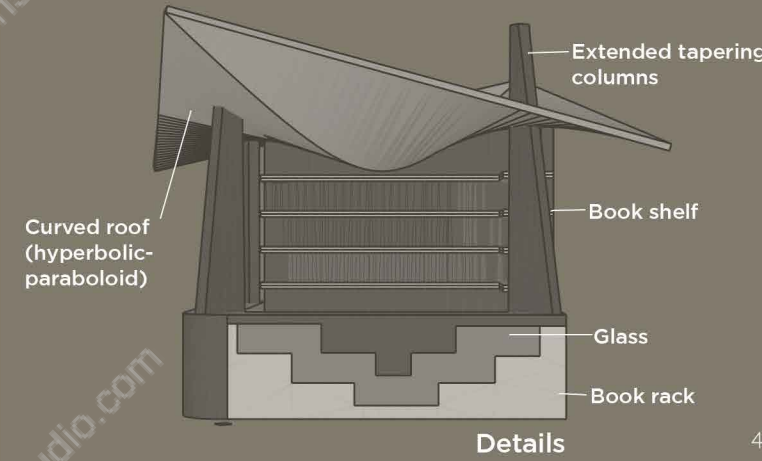
Designing the kiosk as 3 sides opened keeps transparency and eases sales in busy situations



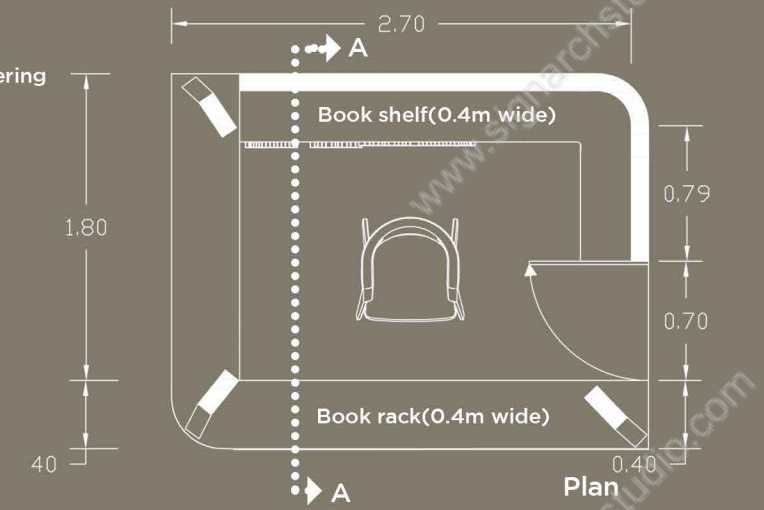
Extending and tapering columns to get attention from distances



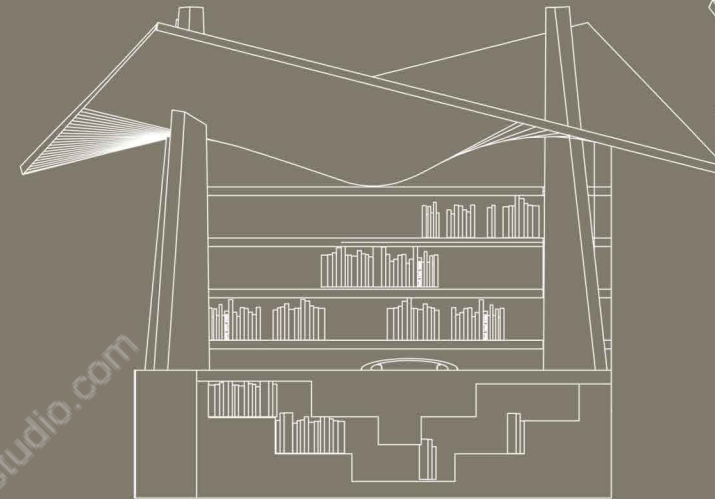
Developing roof form to some curved morphology to make it unique and attract clients.



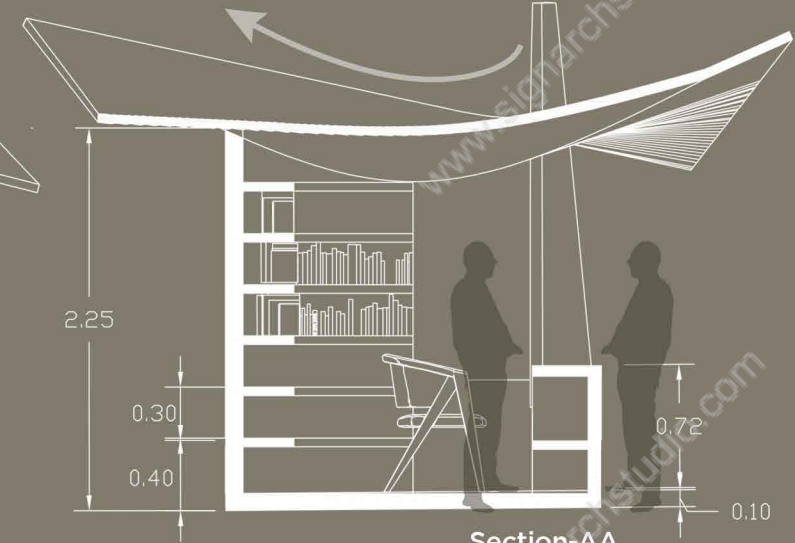
Details



Plan



Front Elevation



Section-AA



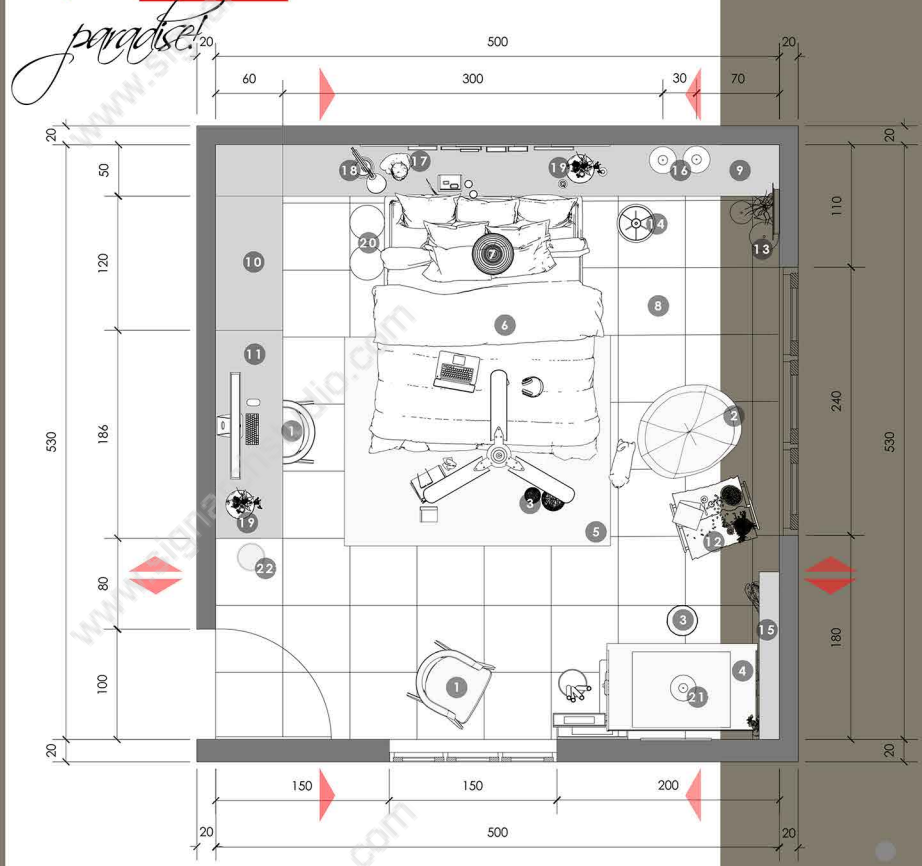


01

**Category:**interior design  
**Style:**minimalism

The main focus of this proposal is to design the indoor of an Artist's bedroom. A minimalist approach to the space is another way to achieve as much as possible with minimal apparent effort.

*paradise*  
Artist's Bedroom



Plan

All dimensions are in cm

**B**edroom is the perfect place at home for relaxation and rejuvenation. Minimalist approach to an artist bedroom is another way to achieve as much as possible with minimal apparent effort.

Natural tones of grey mostly transmit a sense of tranquility and peace. Monochromatic accent work well with grey to create a depth and contrast, table lamps with pendent lights break the symmetry and encourage bedtime reading.

White oak keeps harmony with grey while plush carpet offer comfort and luxury. Keeping the bed as the focal point is another way to make the space attractive nothing worths other than the pen sketches and sculptures to decorate an artist bedroom. It also create a visual interest, grey tones help to keep the place cool in the tropical climate and create a stress reducing atmosphere. backrest of bed and cuboard provides more storage.

**Basic Hue colour**

**Material palette**

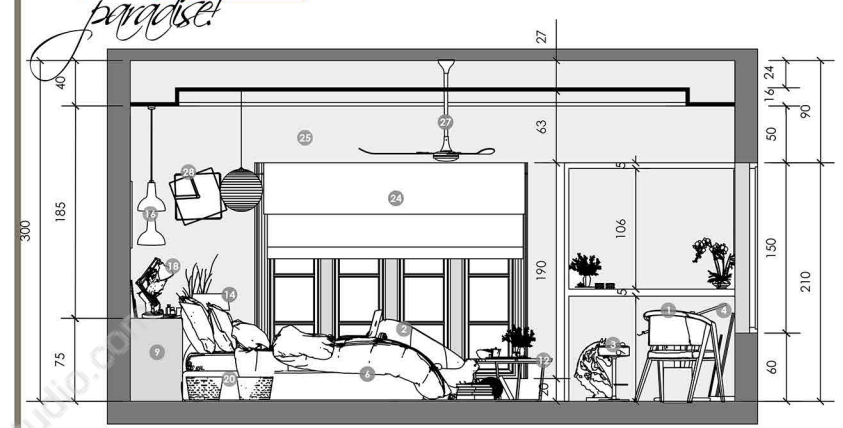
- White oak
- Stone crust
- Grey brick
- ontario gris

**Paints(Asian paints)**

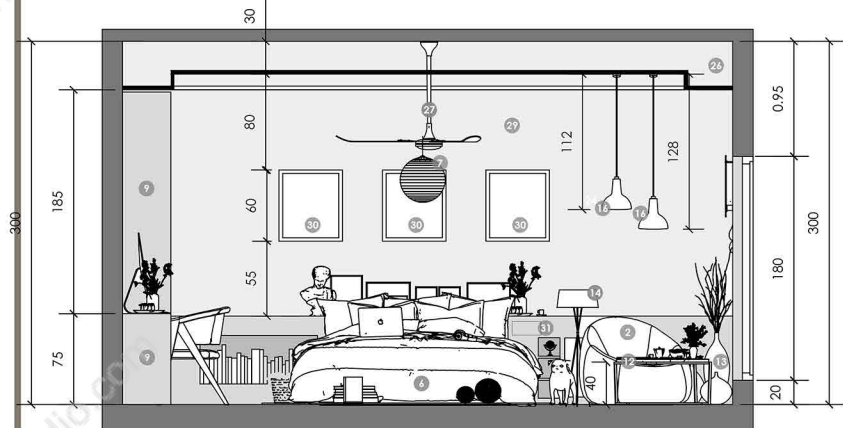
- 8261 Thunder Cloud
- L153 Pristine Linen

**Pendent lights**

- |  |   |  |
|--|---|--|
| 1 Armchairs(Grey)                          | 2 XL structured bean bag chair(Grey)  | 3 Drawing stool  |
| 4 Drawing table                            | 5 Rug(Grey)   | 6 King size bed (183 x 203) with Quilt comforter(Grey) |
| 7 Spherical pendent light(white)           | 8 Nitco Glazed vitrified tiles(60 x 60,Stone crust,matte Grey)-ontario gris | 9 Bed back rest (white oak)                            |
| 10 Cuboard (white oak)                     | 11 Computer table (white oak)   | 12 Teapo(wooden Bark)                                  |
| 13 Birch branches on ceramic vases (white) | 14 Modern tripod floor lamp(white)  | 15 Storage shelf(white oak)                            |
| 16 Pendent lights (black)                  | 17 Ancient Roman sculpture (white marble)                                   | 18 Bridge lamp(Black)                                  |
| 19 Orchid in glass vase                    | 20 Gaddis basket  | 21 Pendent lights(black)                               |
| 22 Steel basket(black)                     | 23 String balls   |  |



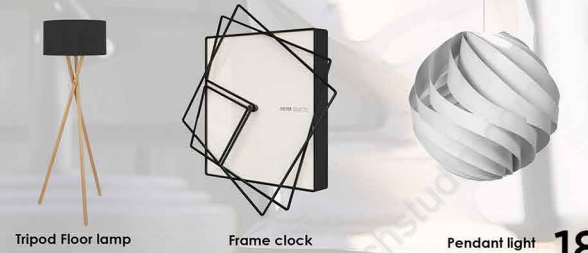
Elevation-A



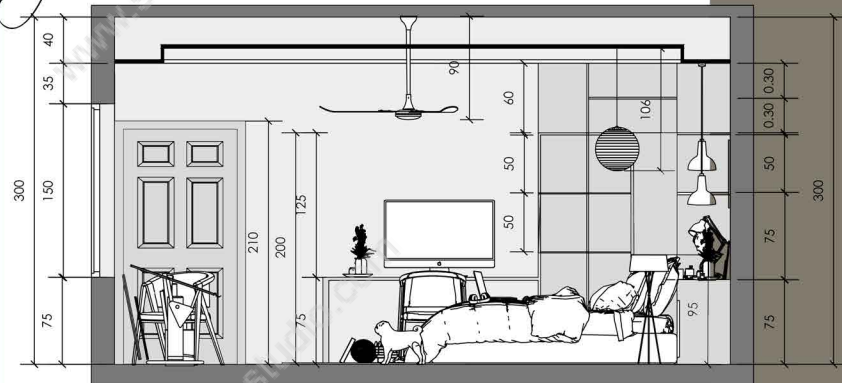
Elevation-B

All dimensions are in cm

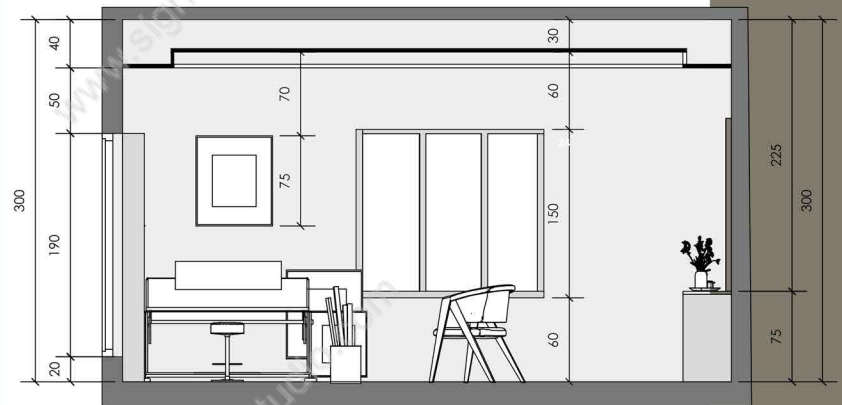
- |  |   |  |
|--|---|--|
| 1 Armchairs(Grey)                          | 2 XL structured bean bag chair(Grey)  | 3 Drawing stool  |
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| 13 Birch branches on ceramic vases (white) | 14 Modern tripod floor lamp(white)  | 15 Storage shelf(white oak)                            |
| 16 Pendent lights (black)                  | 17 Ancient Roman sculpture (white marble)                                   | 18 Bridge lamp(Black)                                  |
| 19 Orchid in glass vase                    | 20 Gaddis basket  | 21 Pendent lights(black)                               |
| 22 Steel basket(black)                     | 23 String balls   | 24 Rolling Curtain(grey linen)                         |
| 25 Pristine linen paint (white)            | 26 Fausse ceiling (white Gyps.Board)  | 27 Ceiling fan (white)                                 |
| 28 Frame clock by Meyer                    | 29 Thunder cloud paint above Brick wall (dark grey)                         | 30 Picture frames (pen sketches)                       |
| 31 Switch board(legrand-White)             |   |  |



Tripod Floor lamp      Frame clock      Pendant light

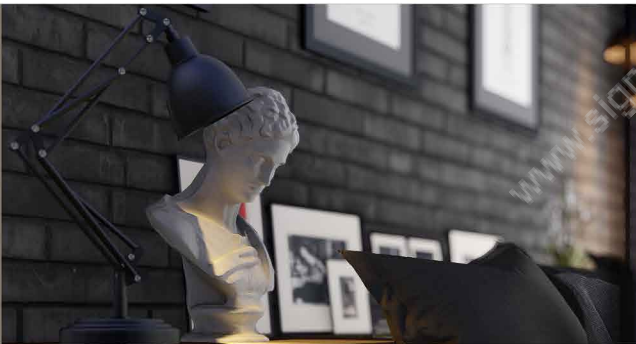


Elevation-C



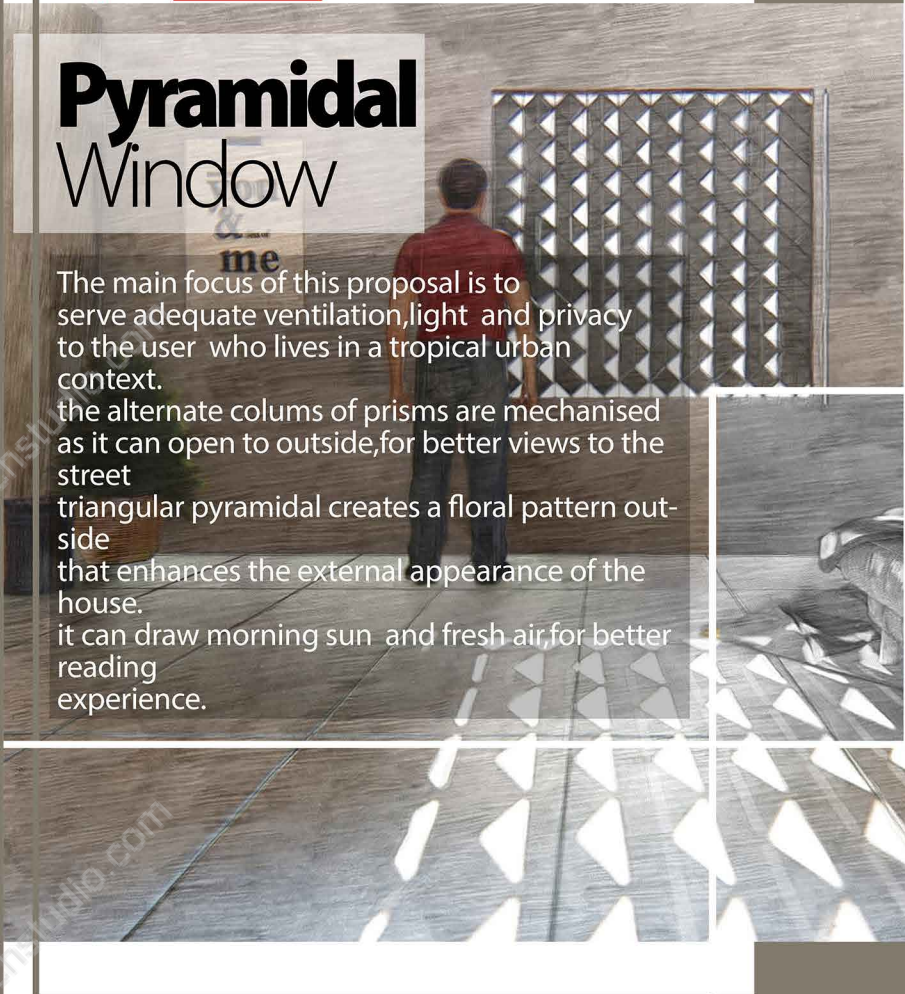
Elevation-D

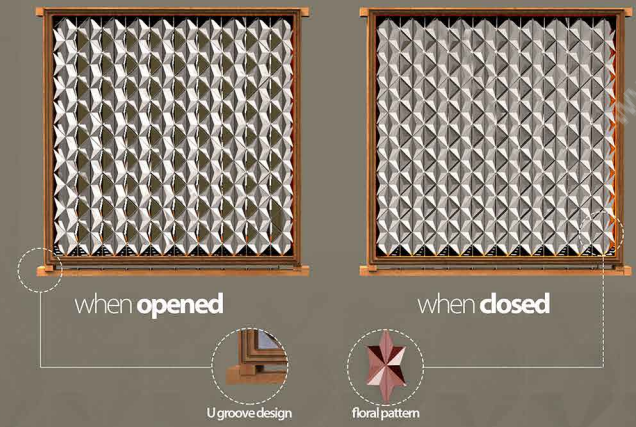
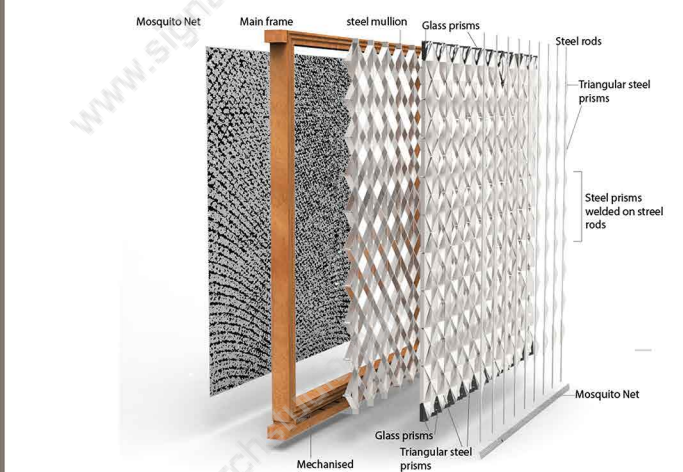
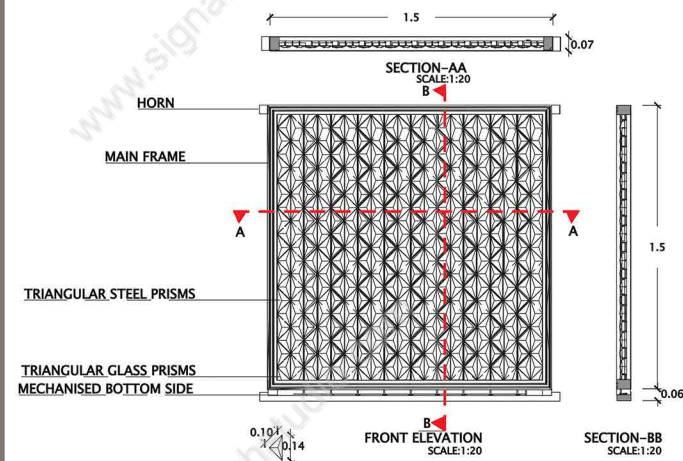
All dimensions are in cm  
0cm. 50cm. 100cm. 200cm.



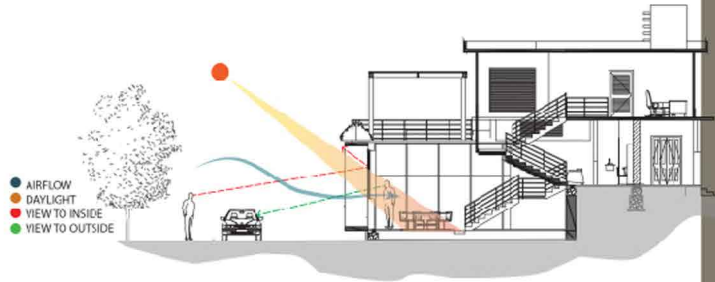
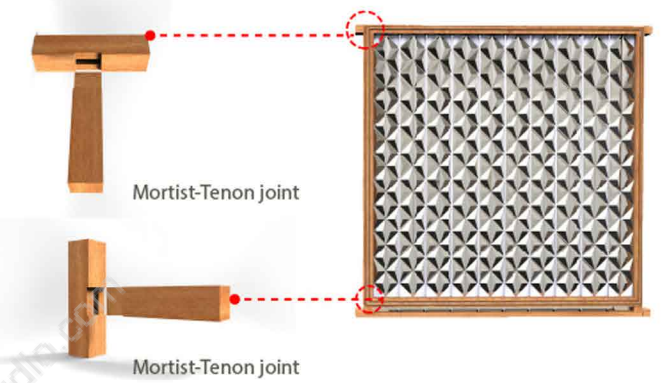
# Pyramidal Window

The main focus of this proposal is to serve adequate ventilation, light and privacy to the user who lives in a tropical urban context. the alternate columns of prisms are mechanised as it can open to outside, for better views to the street triangular pyramidal creates a floral pattern outside that enhances the external appearance of the house. it can draw morning sun and fresh air for better reading experience.





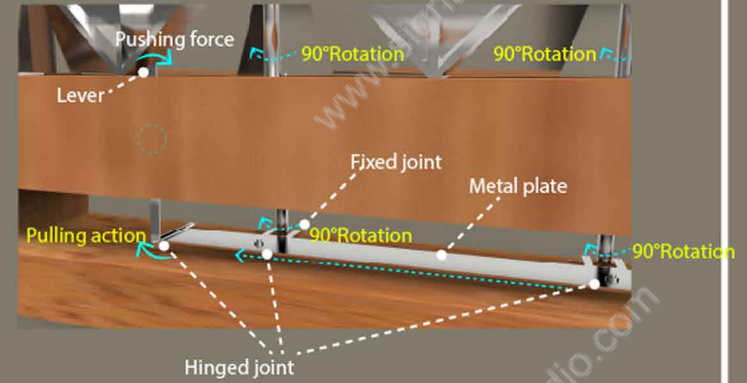
Pyramidal window is a part of our life which brings a refreshing experience in our spaces. steel mullions attached to main frame holds the steel pyramids glass pyramids at top and bottom side catches diffuse light which enhances the informal engagement vertically hinged glass rods which hold pyramids rotate 90 degrees outwards the mosquito net provided inside and outside prevent mosquitoes main frame is made up of teak wood, and the 'U' groove design make it aesthetically appealing



Schematic Section Showing Functions of the window

Prismatic window allows views only to outside but catches fresh air and daylight. its would be more significant in futuristic urban situations. it ensures privacy without the use of curtains.

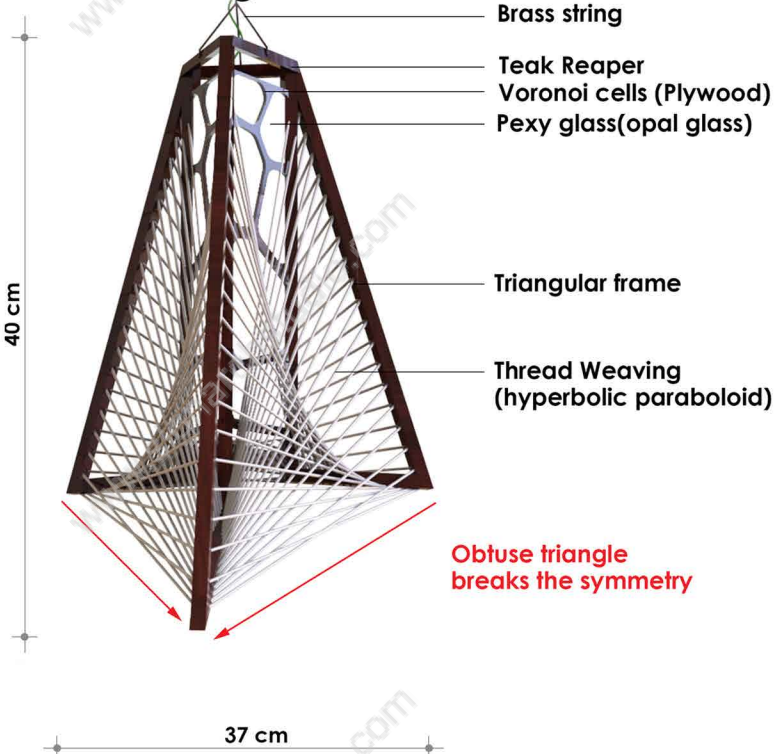
Working mechanism



When a pushing force is applied to the lever it creates a pulling action at the bottom that pull the metal plate. the steel rods holding prisms are hinged to the plate as the pulling action develop a torsion to rotate the prisms outwards.



# Corona Lamp Design



Warm LED filament Bulb

## CONCEPT

### Diffusion

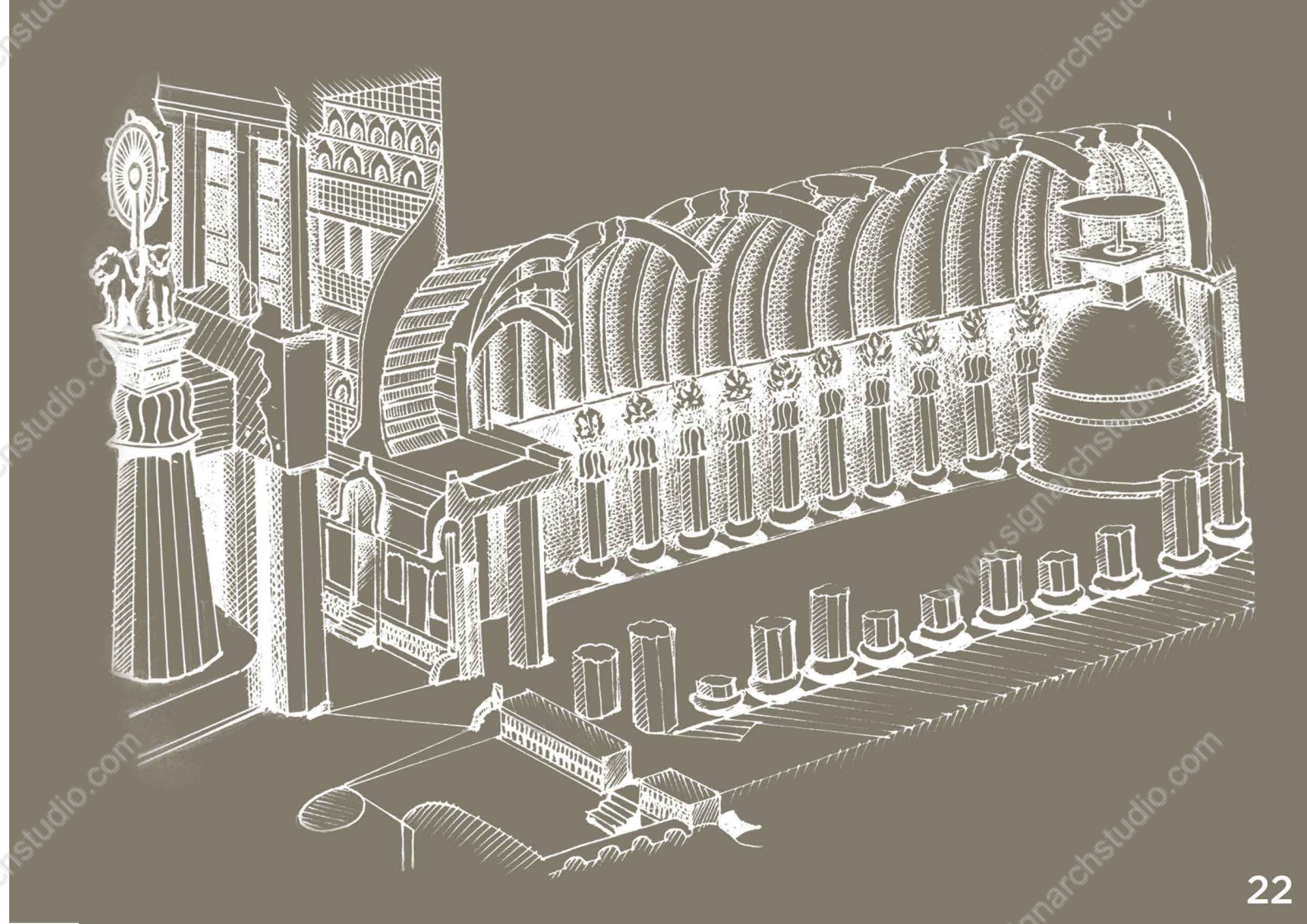
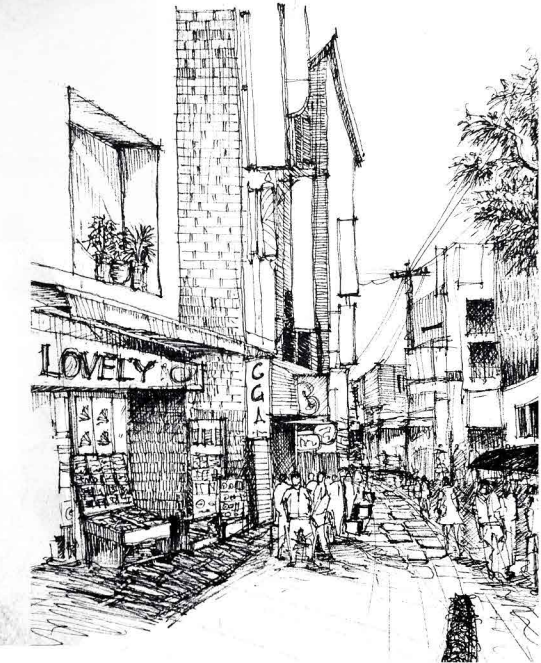
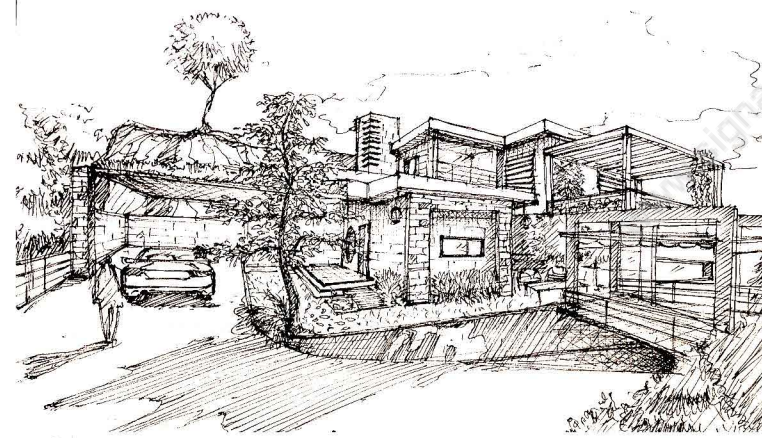
Maximize the light output by diffusing it to all directions of the space, creating ambience for functions by avoiding glare

## DESIGN

Corona is a specially designed luminaire containing triangular infrastructure. The prototype is developed by joining three triangular frames on the corner edges of a translucent triangular prism, voronoi cells overlap the prism, the thread pattern connecting base edge of frames and long edge of adjacent frames create hyperbolic paraboloids thread connects the 15 divisions of base edges and long edges of adjacent frames



Hand sketches....



# Graphics design...

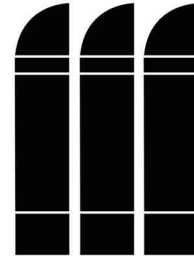
## Logos



MIT-college club



24 X 7  
Energy solutions  
-pvt company

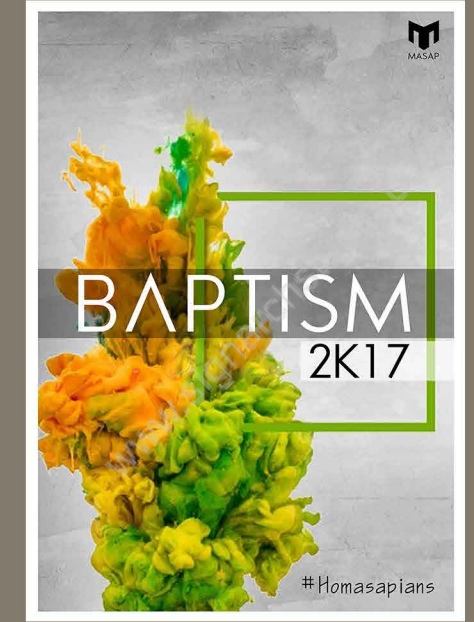
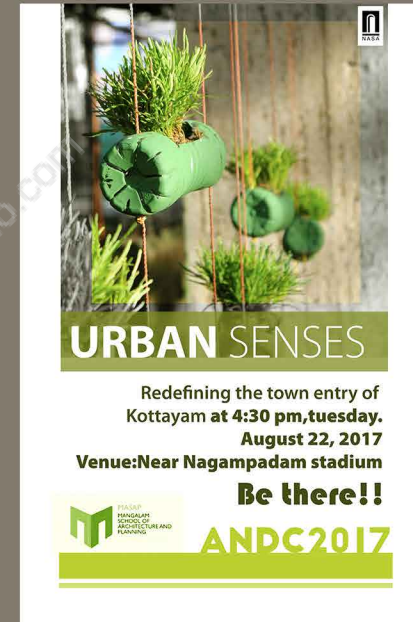


Walters-college club

## Other works



## Posters



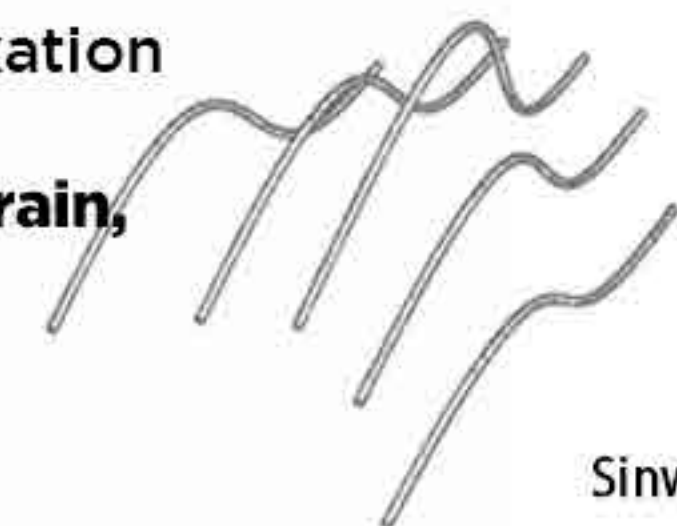
# Serpentine Pavilion- Parametricism



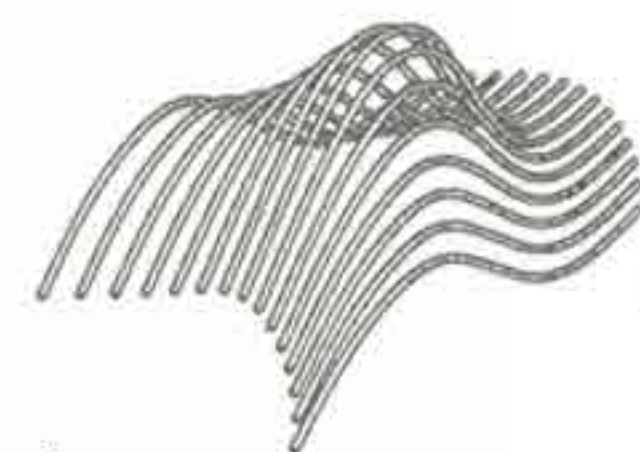
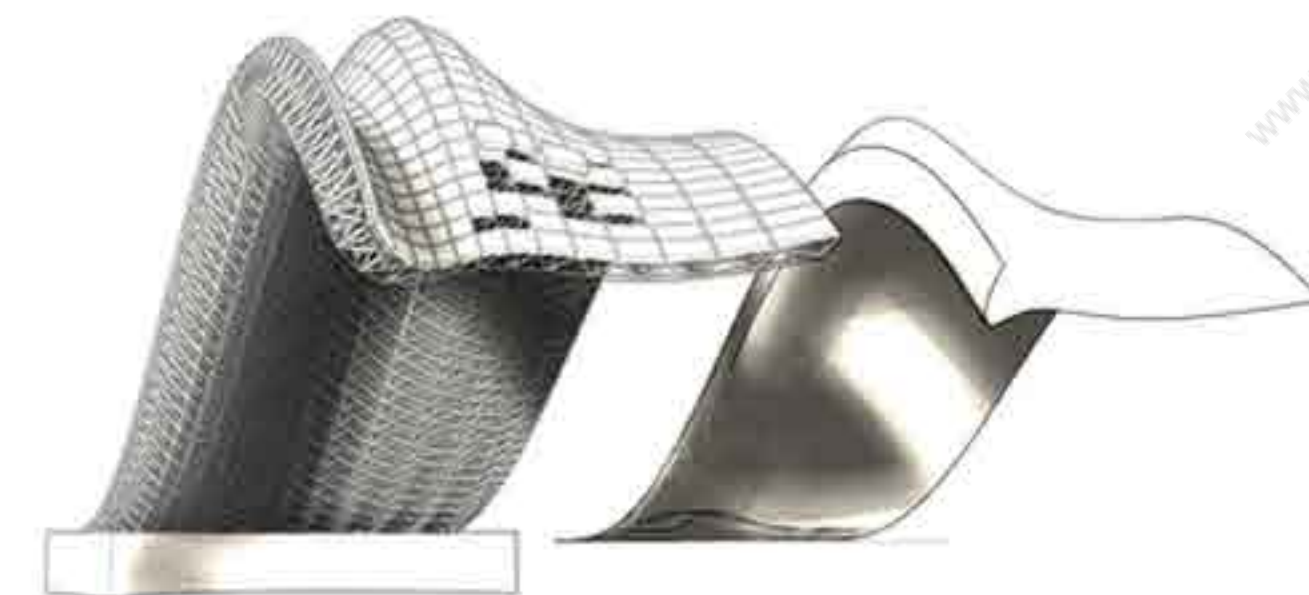
**Serpentine pavilion** is designed for relaxation in the public spaces of an urban area it **protects pedestrians from hot sun and rain**, the cantilever structure of concrete tiles **supports on space truss having a heavy base**

The form is developed as propagating sine waves having different character in both u and v axis, each individual waves are the resultant of three sine waves having different phases

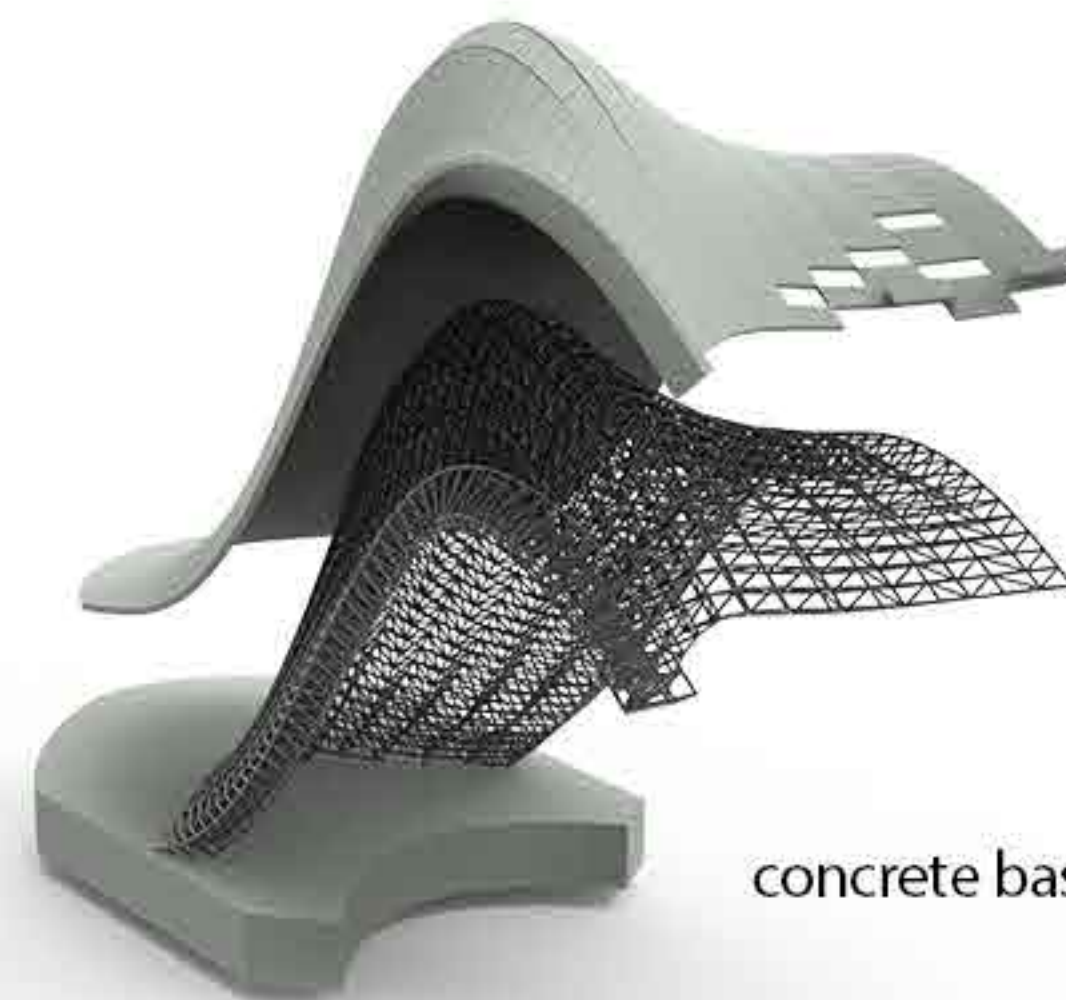
The shape of the waves in u direction fixed as it forms sine waves in v direction and gradually it changes a parabolic form when reaching the base



Sinwave Prototype

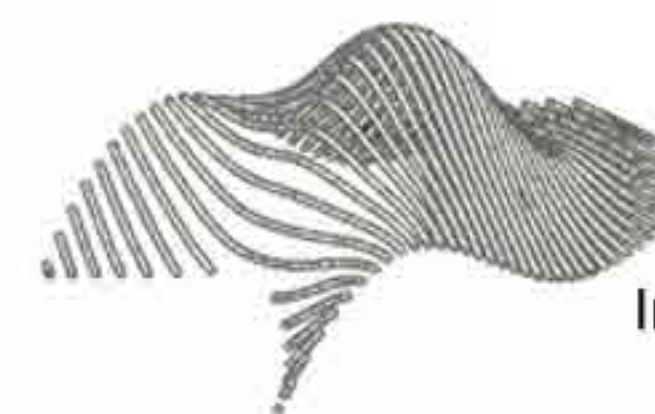


In U direction



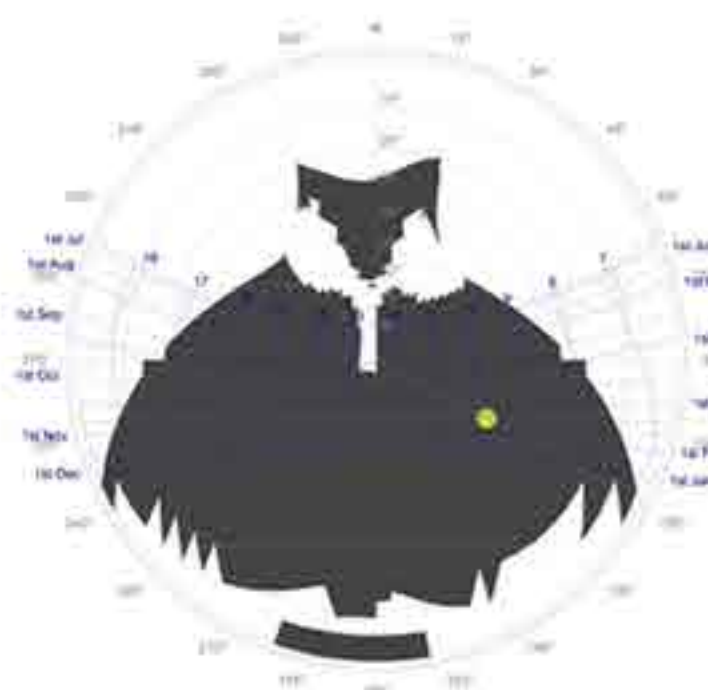
Concrete tiles

Space Truss



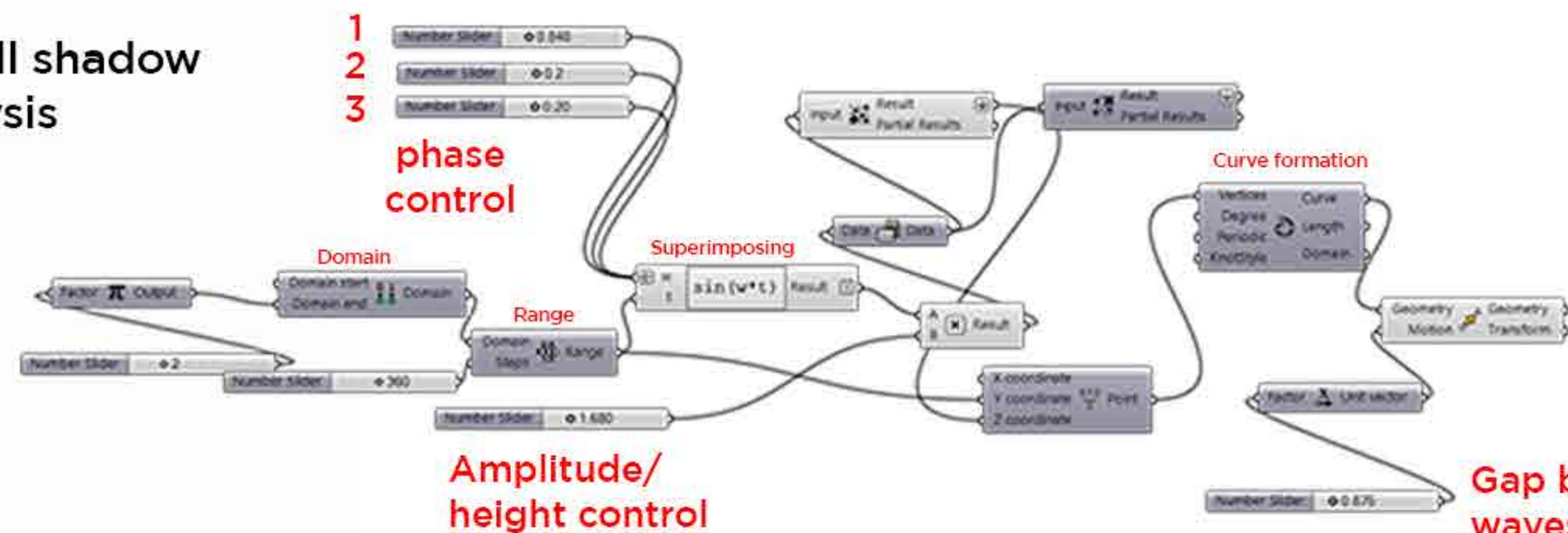
In V direction

concrete base/Seating



overall shadow analysis

Grasshopper script







**Thank you..**