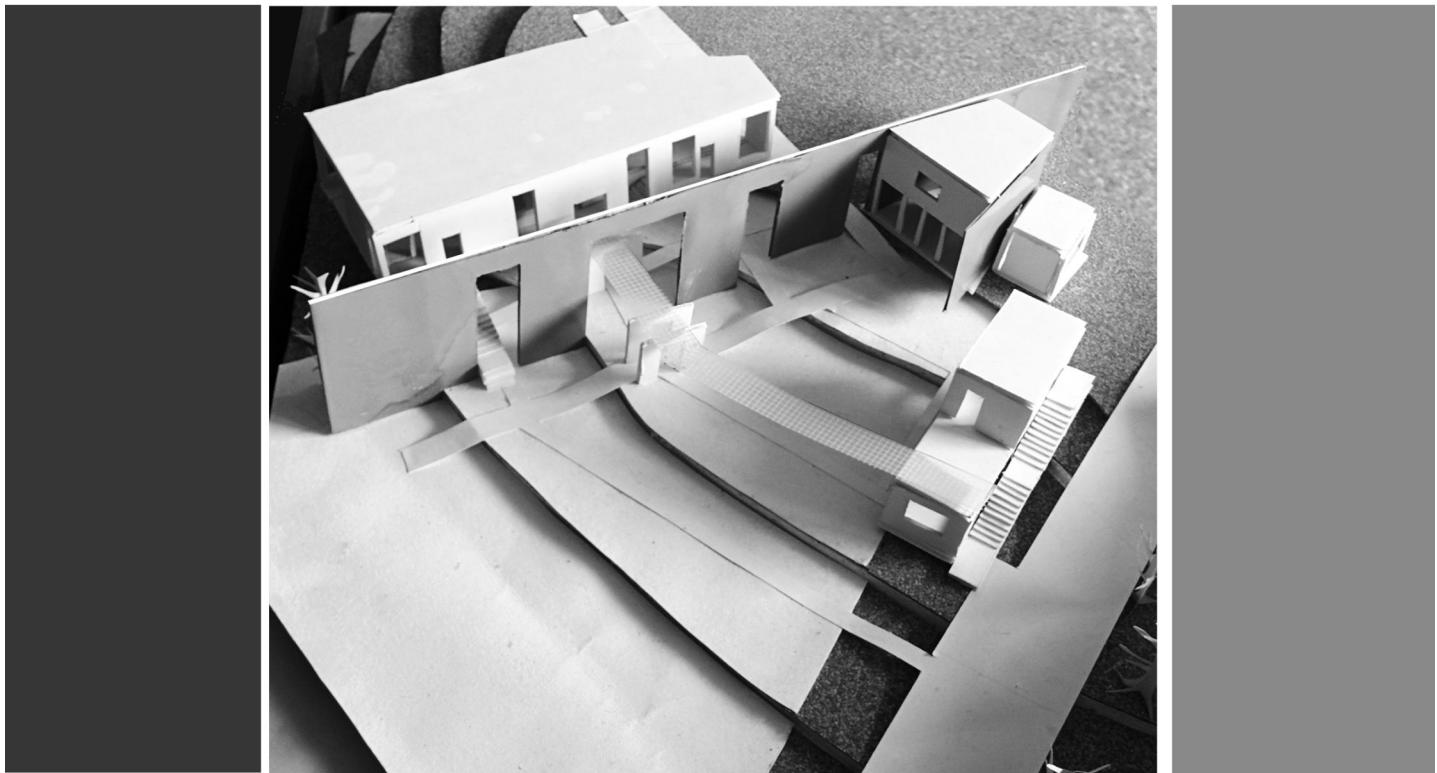


# PORTFOLIO



TANYA MAKKER

STUDENT OF ARCHITECTURE  
SCHOOL OF PLANNING AND ARCHITECTURE, NEW DELHI

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## EDUCATION

### TECHNICAL SKILLS

### EMPLOYMENT HISTORY

### COMPETITIONS

**TANYA  
MAKKER**  
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**2012**

DELHI PUBLIC SCHOOL, R.K. PURAM

**2015**

SCHOOL OF PLANNING AND  
ARCHITECTURE, NEW DELHI  
CURRENTLY IN 4TH YEAR

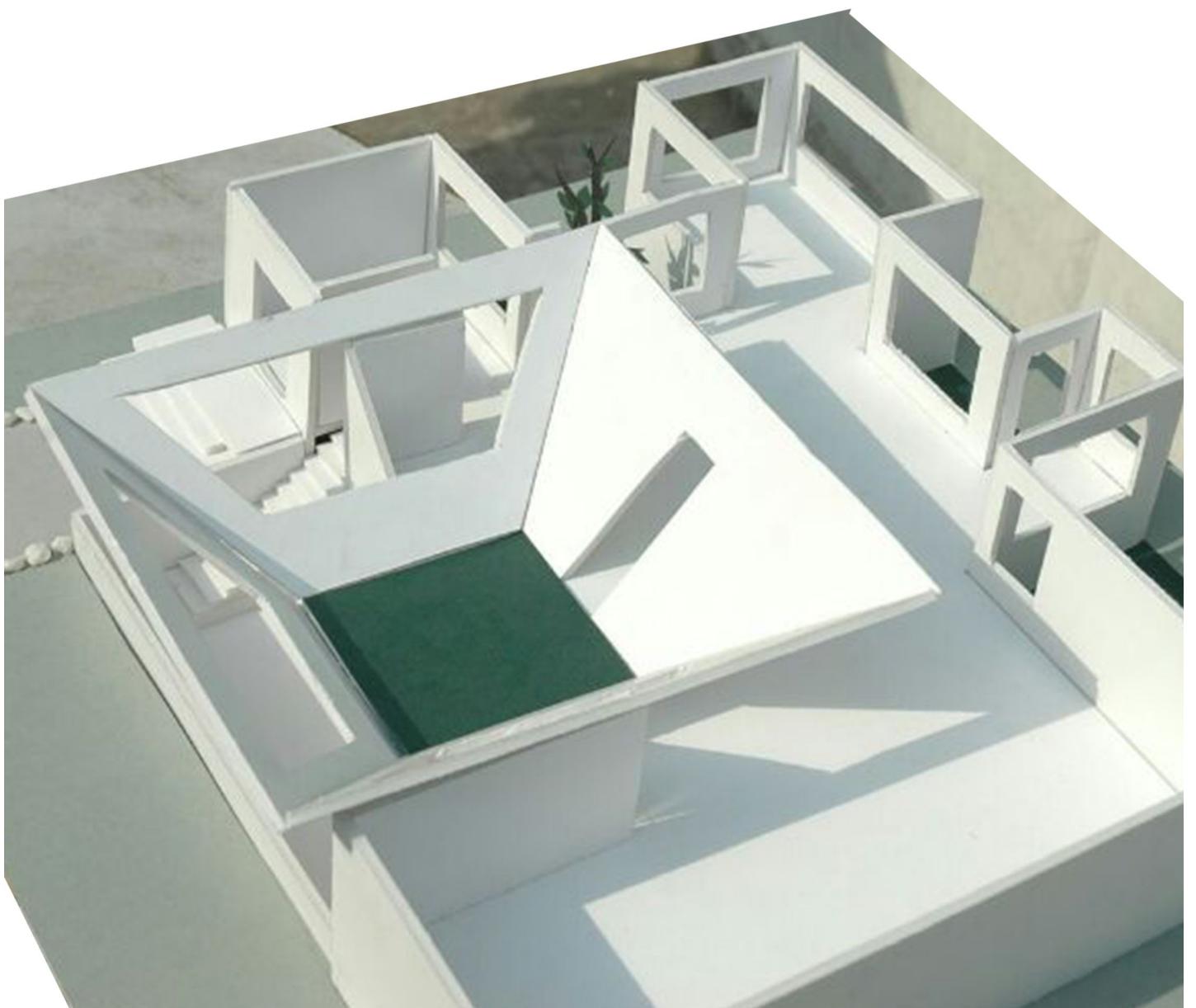
AUTOCAD  
AUTODESK REVIT  
RHINO  
GRASSHOPPER  
ADOBE PHOTOSHOP  
MICROSOFT OFFICE  
DRAFTING  
SKETCHING  
MODEL MAKING

**INTERN**, SUMMER 2015  
RLDA STUDIO  
NEW DELHI

**2015 HERITAGE AWARDS FOR  
EXCELLENCE IN DOCUMENTATION**  
1ST IN NORTH ZONE  
NATIONAL STUDENT COMPETITION

**2015 NACS BY INSDAG**  
RESULT AWAITED  
NATIONAL STUDENT COMPETITION IN  
ARCHITECTURE DESIGN

**2014 HYP CUP**  
PARTICIPATED  
UNEXPECTED CITY  
INTERNATIONAL STUDENT DESIGN  
COMPETITION

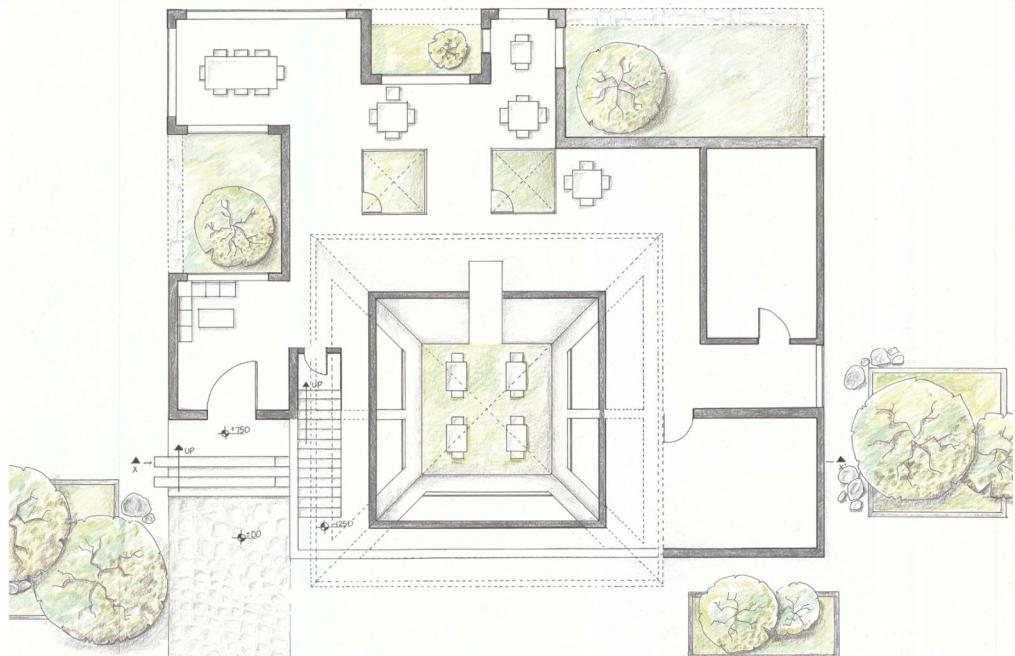
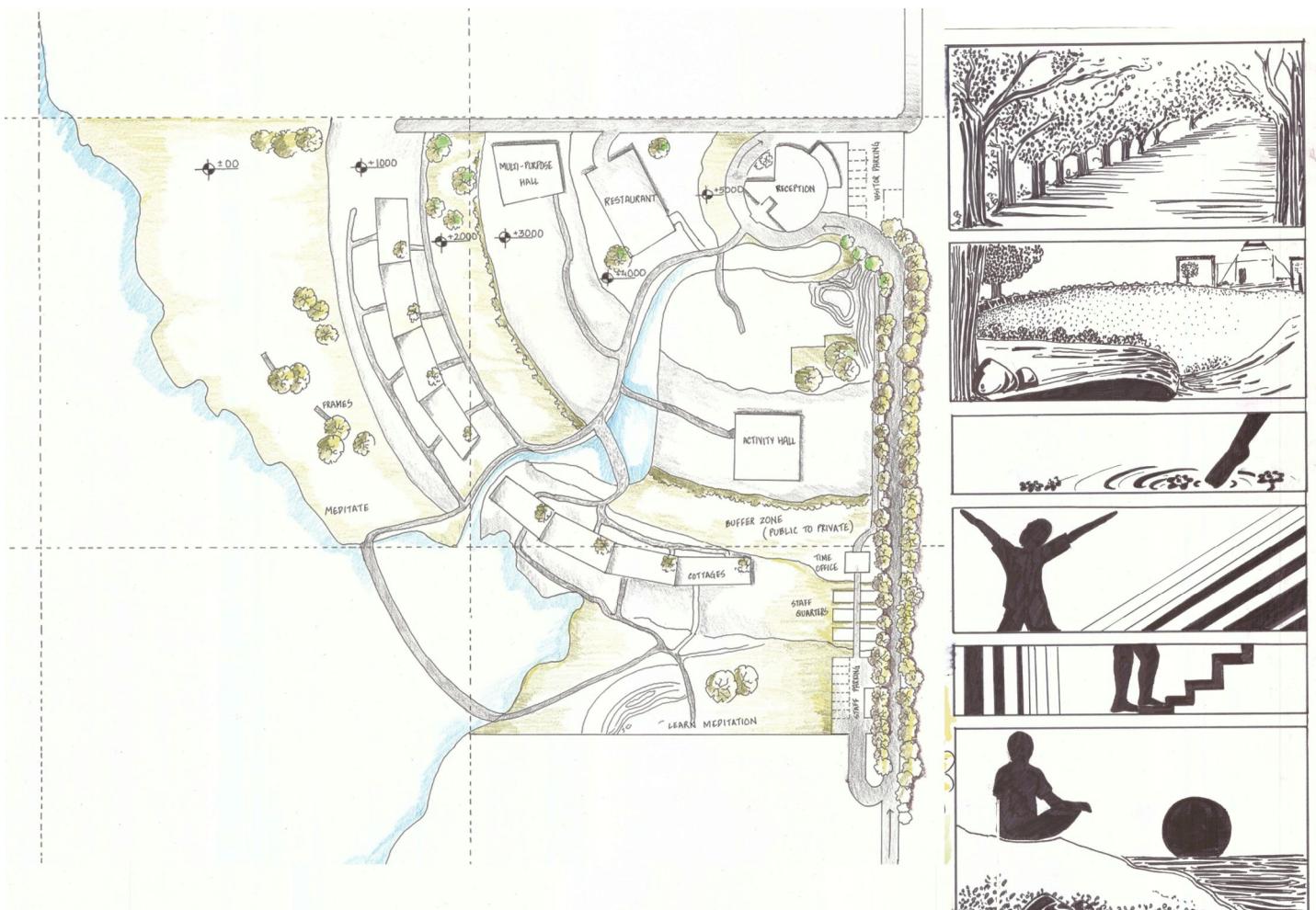


Restaurant Model

**RESORT DESIGN  
DAMDAMA LAKE**

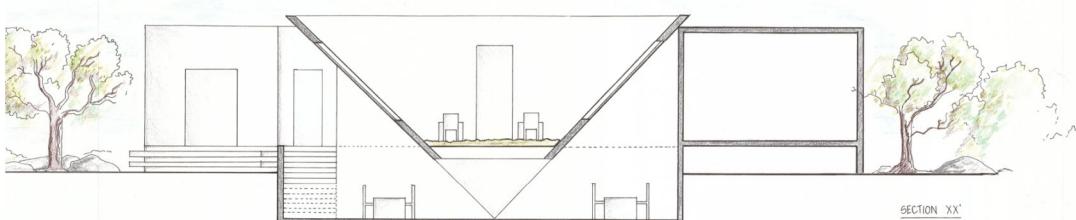
The resort is situated on the outskirts of a bustling city- Delhi. It is imagined as an escape from one's struggles in everyday life; as a place to connect with one's inner self. The pyramid by virtue of its volume creates a space with focused, balanced energies. Hence it is selected as the starting volume to design bold structures with interesting play of volumes.

**FIRST YEAR  
SEMESTER 2**



The design process started with storyboarding the desired experiences of the resort. They were then mapped onto the site to create a series of zones (public to private) as one moved from entry point to the water edge in the site.

The restaurant has an overall defining volume. At the same time, it has niches of privacy.





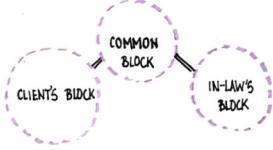
## HOME DESIGN

SANJAY VAN

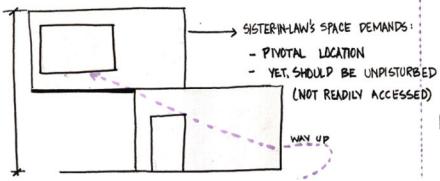
This project dealt with tangibles and intangibles of space. We interacted with real clients, tried to understand their needs and aspirations and create spaces and experiences best suited to their idea of 'home'.

SECOND YEAR  
SEMESTER 3

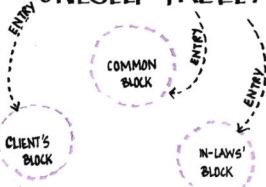
## HOME IS NOT ALWAYS ABOUT TOGETHERNESS



EACH MEMBER'S PERSONALITY AND ASPIRATIONS DEMAND DIFFERENT KIND OF SPATIAL EXPERIENCES

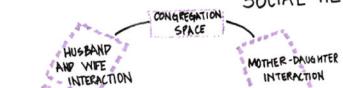


## HOME IS WHERE ONE EXPRESSES ONESELF FREELY

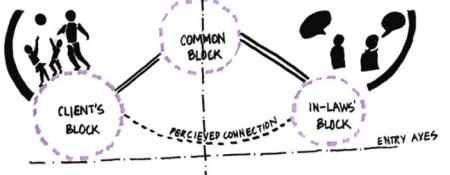


FLEXIBLE ACCESS ROUTES EACH MEMBER CAPABLE OF INDIVIDUAL TAKE ON SOCIAL TIES

INTERACTION SPACES ARE MORE IMPORTANT TO THE FAMILY THAN CONGREGATION SPACES

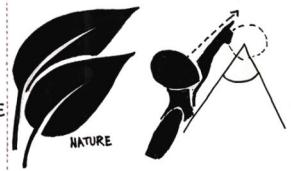


## HOME IS HOW ONE PROJECTS ONESELF TO SOCIETY

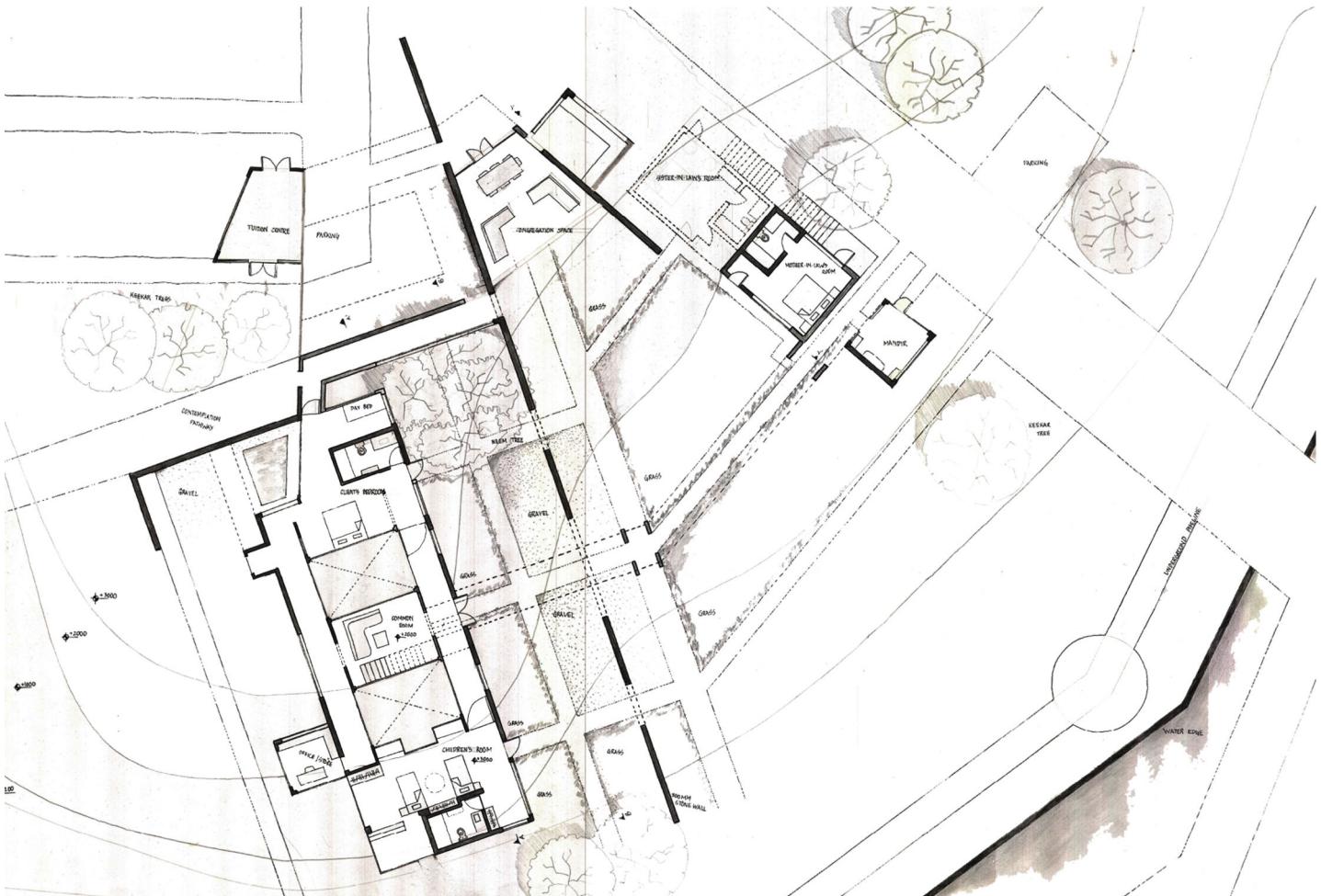


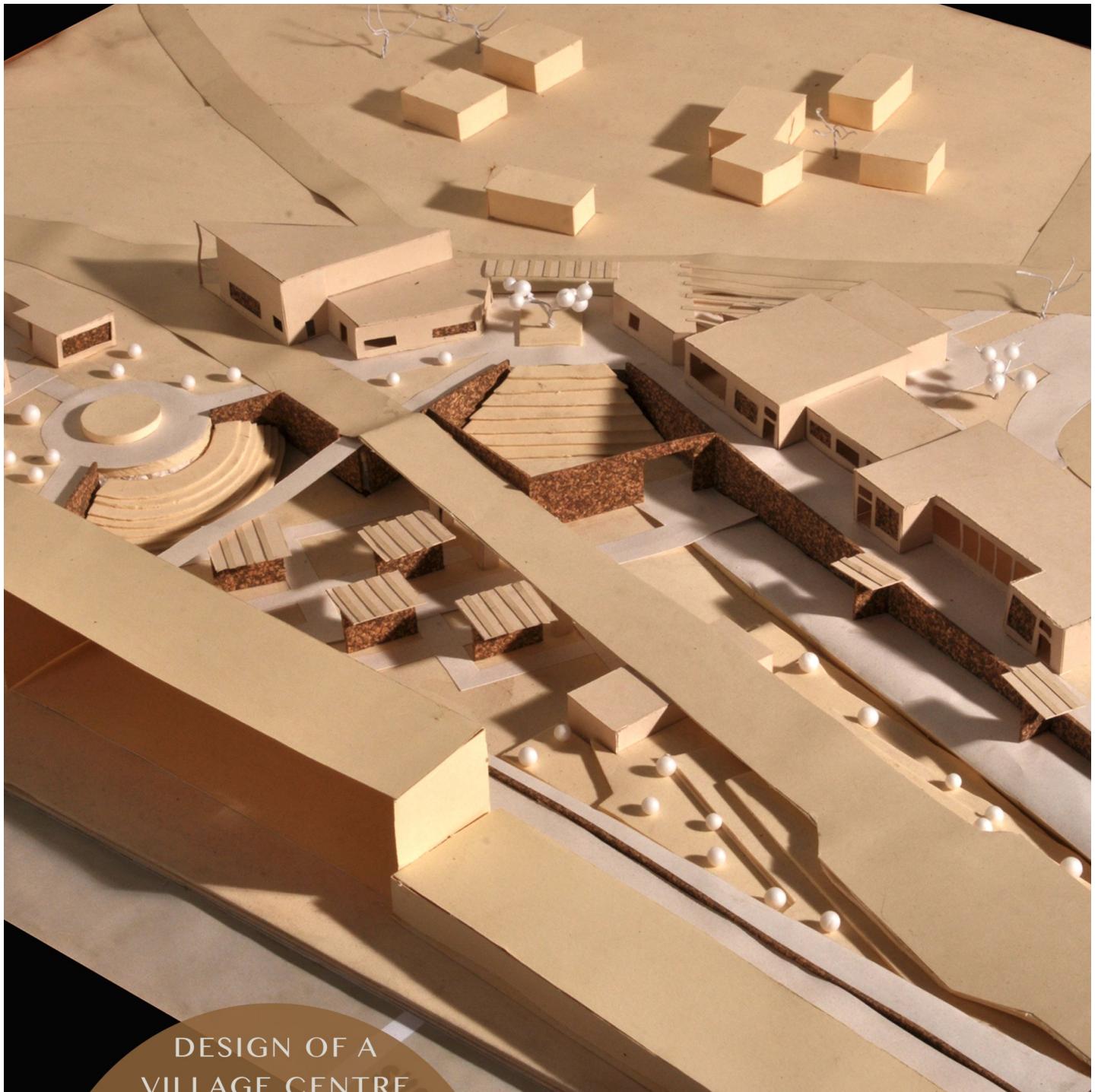
THE FAMILY WISHES TO PROJECT A SENSE OF TOGETHERNESS TO SOCIETY, NOT LIVE IT

GRANDEUR OF THE HOUSE IS A POSITIVE REFLECTION OF ONE'S SOCIAL CLASS



FOCUSED ENTRY TO LARGE CONGREGATION SPACE

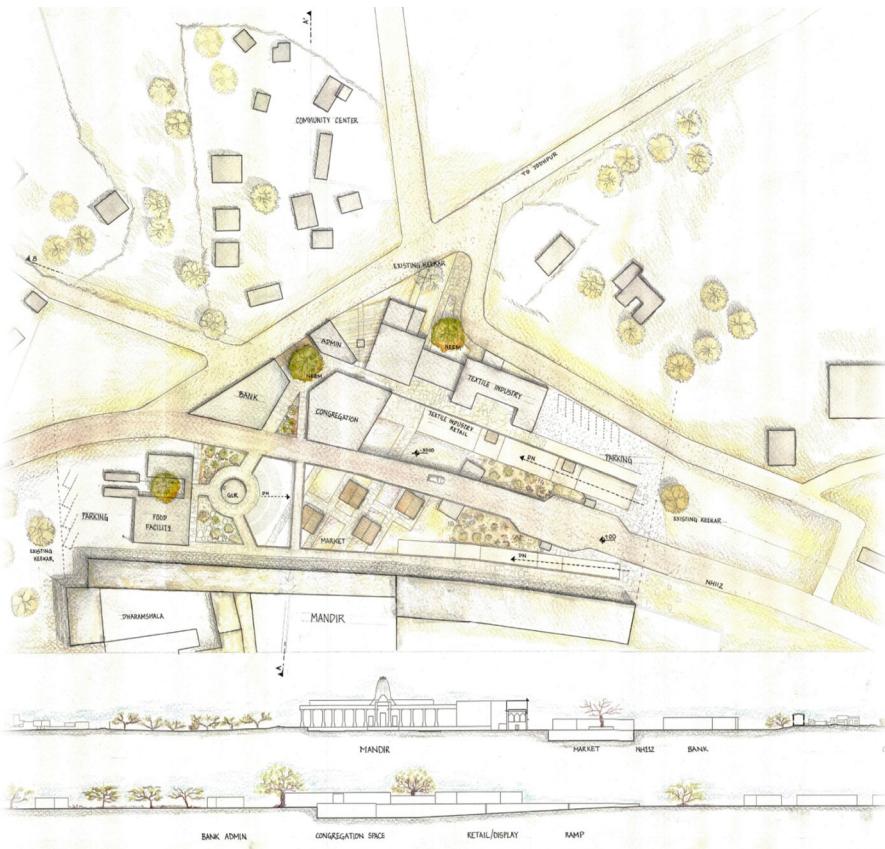




DESIGN OF A  
VILLAGE CENTRE  
KHED, BARMER, RAJASTHAN

Khed is a village situated in Barmer, Rajasthan. The design of this village centre was generated by mapping activity patterns, lifestyle, movement lines onto the site plan to arrive at axes and nodes. Khed, with a national highway cutting across and an ancient temple along this highway, is a complex village exhibiting shifts towards urbanisation.

SECOND YEAR  
SEMESTER 4



The village is seen as a catalyst of change for the many villages around it since it is well connected through the national highway. The village centre includes a bank, a textile industry, a covered congregation space, a food facility and some small shops. The zoning was done keeping in mind public private site edges, existing gender based zones, important activity nodes such as the well .

The two parts of the site, separated by the highway, were connected underground.



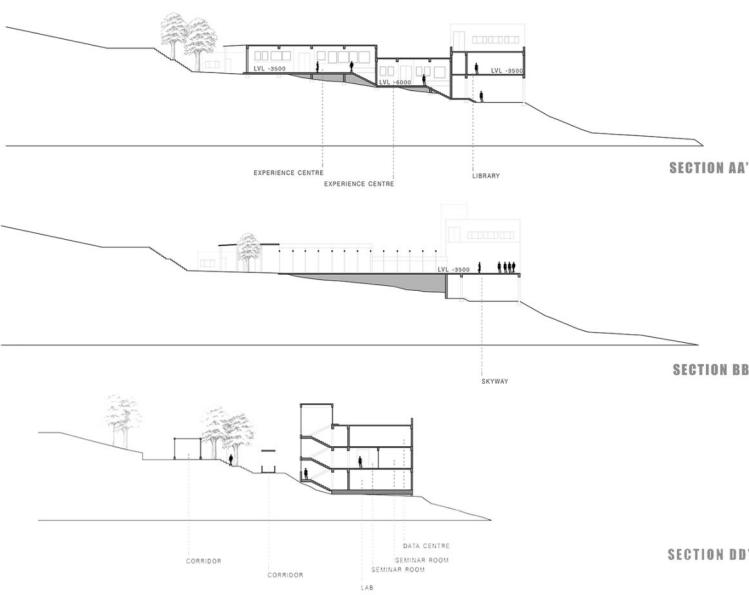
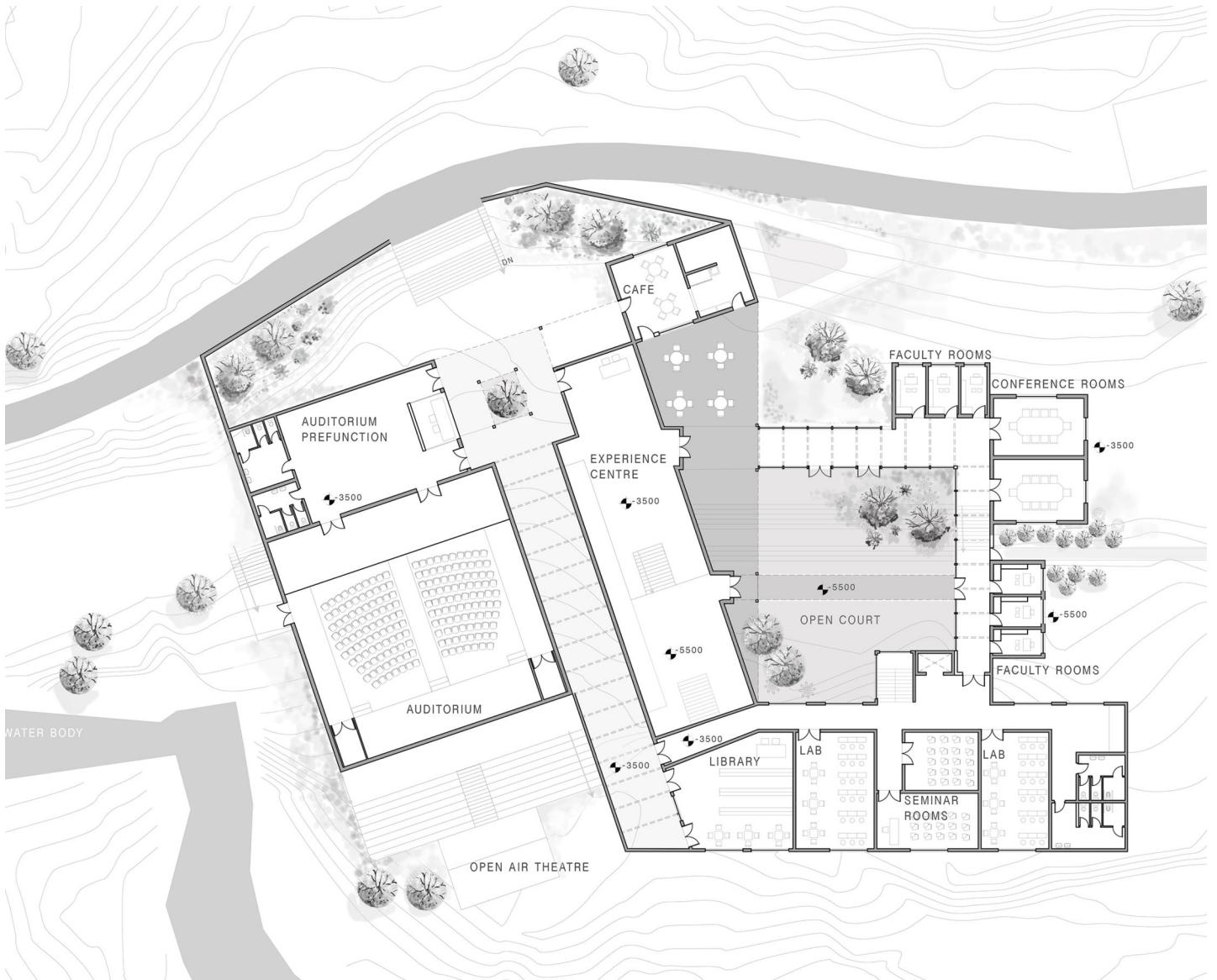
Sketches and Study Models



## INCUBATION CENTRE IIT MANDI

The natural topography of the site was exploited to design a stepped circulation system with strong stepped spine, branching out to various parts of the building, connecting the site access point to the water body.

THIRD YEAR  
SEMESTER 5



**Study Model. The play of levels creates interesting design opportunities.**

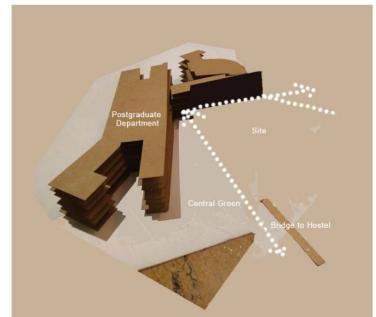
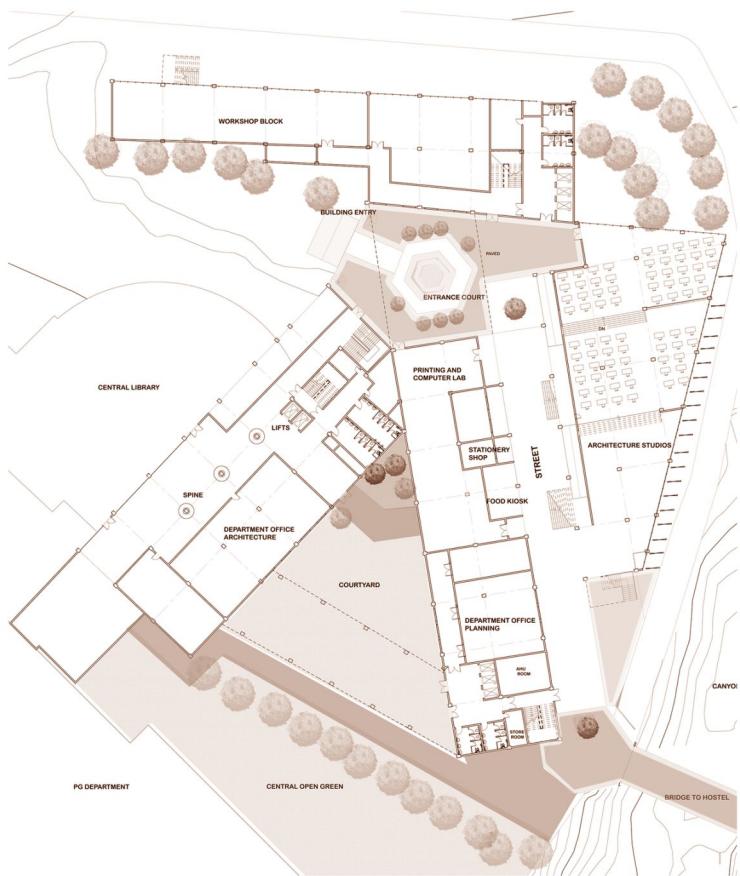


## SPA UNDERGRADUATE BLOCK

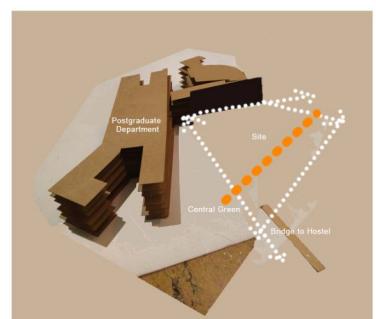
VVASANT KUNJ

This block plugs into an architecture college campus. Pedestrian movement lines and spatial experiences along them is what defines the built form. The volumetric configuration of the spaces ties this block to the rest of the campus while creating inclusivity within.

THIRD YEAR  
SEMESTER 6



EXISTING SITE CONNECTORS



PROPOSED CONNECTION



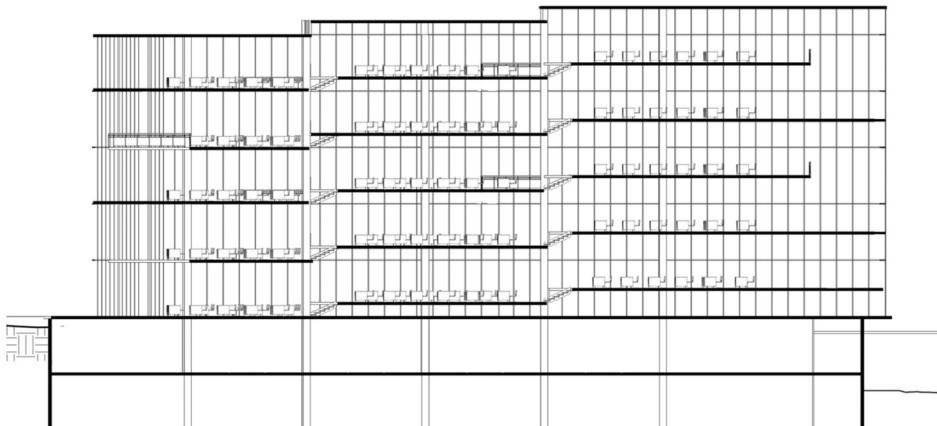
## THE STREET

The massing takes cues from existing major movement lines and ties it into a loop of inclusivity while connecting it to the rest of the campus. The Street is a stretch between the workshop block and the studios block. Much like an urban street, it is charged programmatically at the ground level with shops and cafes. There is a continuous movement ramp along the street—a place for chance encounters and mutual shading in summer months and receives much welcome sun in winter months. exhibits. The street resembles a traditional street in Shahjahanabad. It has been designed to be beautifully shaded by the the buildings on either side in the summer months and receives good sun in winters.



The studio block has the street on one side of it and a canyon on the other. It is linked with the workshop block through a continuous system of ramps that make the user travel the street at all levels.

CREATING INTERESTING LINES OF MOVEMENT



The ramp is designed to have landings that take you to individual studios. The three studios of one year are being conducted in a free flowing space, separated only by levels. These level differences create interesting spaces to interact and congregate. They separate studio spaces while at the same time providing uninterrupted visual access to all that's happening around you.

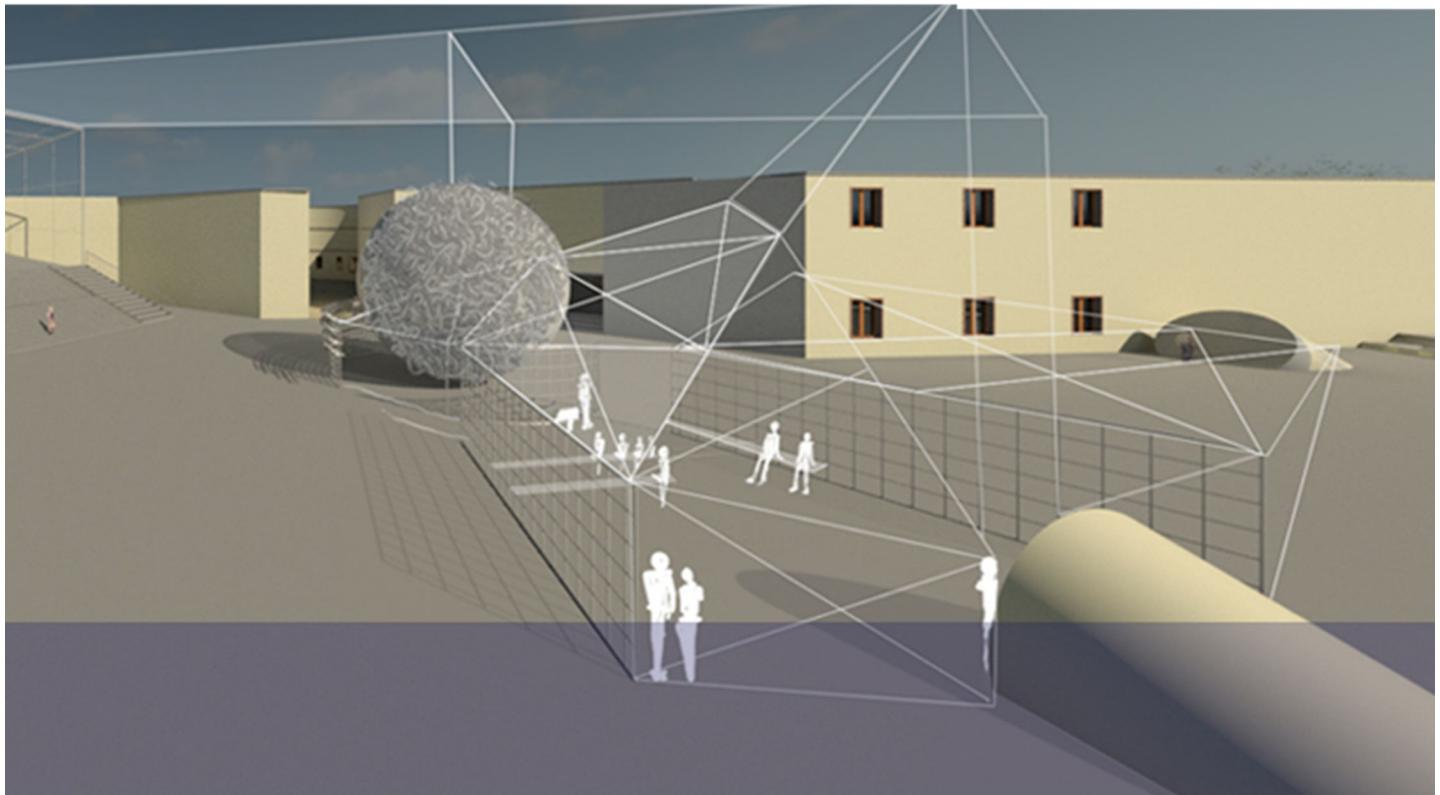
UNINTERRUPTED VISUAL ACCESS

STEPPED SECTION STUDIOS



THE STUDIO AS A SPACE TO INTERACT, SHARE AND LEARN AND CREATE

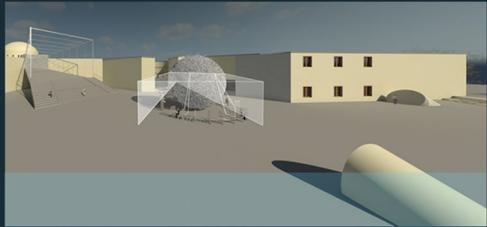
INSIDE A STEPPED STUDIO



## UNEXPECTED CITY NATIONAL MUSEUM

We propose an extension to the National Museum in New Delhi, India as it is currently saturated and is in need of growth and transformation. The idea is to create two kinds of spaces, one that grows with time and the other which keeps transforming itself according to user needs. These adaptations will create customisable spaces and hence customisable experiences.

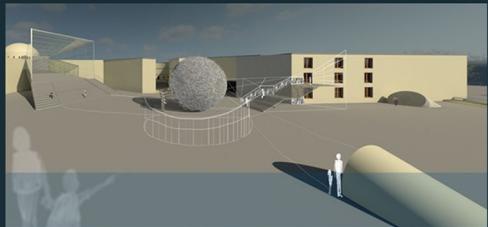
SECOND YEAR  
SEMESTER 3



### EVENT 1

#### *Book Reading Space*

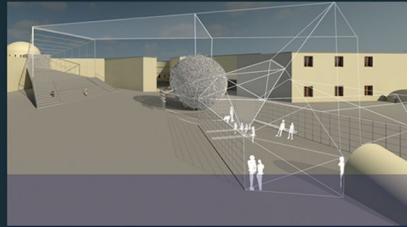
The scale of the space makes it a space for contemplation. It is divided into smaller units to make it a personal space, but within a large public space. It is a covered, semi-enclosed space. The experiential intangible qualities of the space include warmth, sense of privacy,



### EVENT 2

#### *Book Exhibition and Sale related to Thanjavur Paintings exhibit (existing, First Floor)*

Event Spaces created by the Fractal Globule are experiential entities on their own. They also provide relevant transition by plugging into a relevant part of the museum. These temporary exhibits gain more meaning when they become connected to an existing part of the museum.

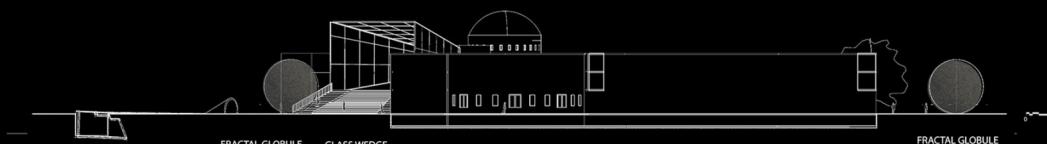


### EVENT 3

#### *Book reading and Discussion related to underground exhibit*

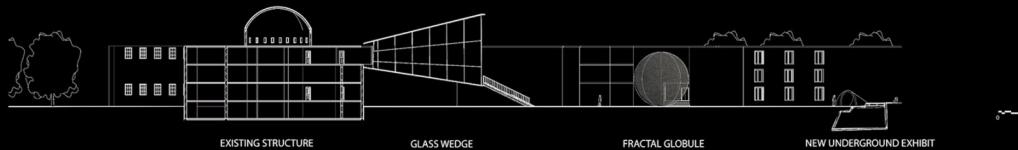
Large enough space to gather people. Profile of walls focus attention of listener to speaker. Space is positioned in way such that access to underground exhibits becomes smooth and effortless. The verticality of the structure attracts attention from afar. This would increase public participation in a relatively large scale event such as this.

Different events demand different experiences. Hence the aim was to create spaces with variable volumetric configurations. The spaces are defined spatially by material pulled out (by electro-magnetic fields) of a large central sculpture with FRACTAL GLOBULE configuration. This configuration allows loops of material to be pulled out without ease.



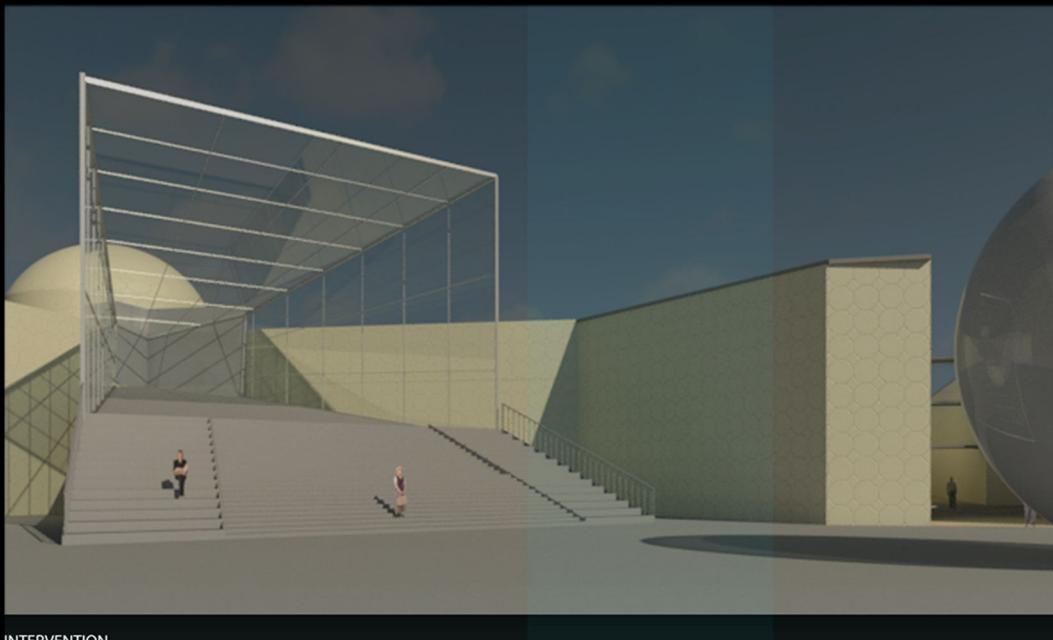
#### SECTION AA'

Section along the proposed axis of dynamism.



#### SECTION BB'

Section along glass wedge, fractal globule and new underground exhibit.



INTERVENTION



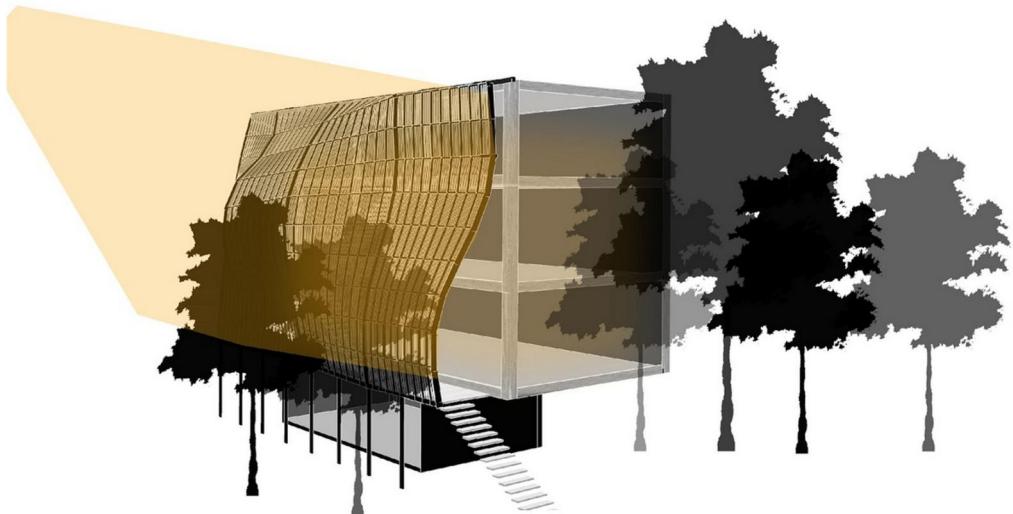
### Parametric Screen Design

Screen design for proposed residences in Rishikesh. The south facade has a series of decks, connected by staircases. A screen of wooden slats is fitted onto this facade



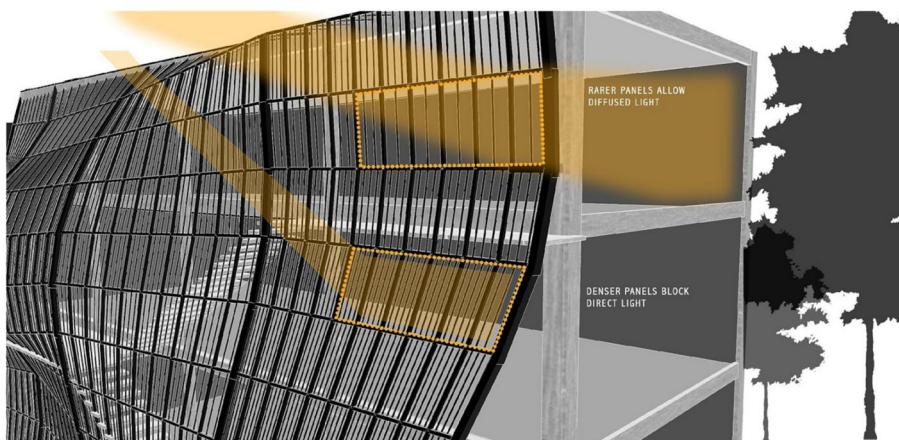
Without Screen

South facade, with its large openings allows unwanted heat gain and glare.

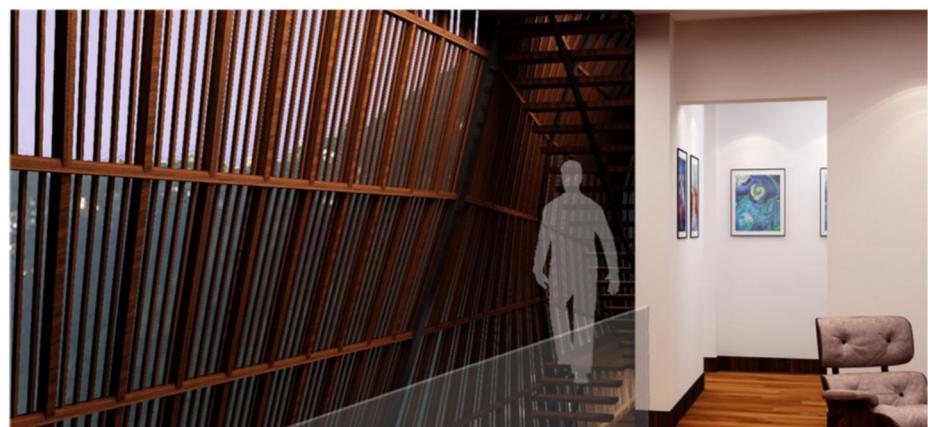


With Screen

The screen creates an interesting semi-open space with its decks at various heights. It blocks direct view into the building making it more private.



The screen is divided into a number of panels. Each panel has a variable number of slats. The density of the slats depends on its orientation with respect to direct sun. Denser panels block direct light while rarer panels allow diffused light.



Space between the screen and building has the main staircase of the building that opens into the lobbies at various floor levels



Physical Model made using laser cut MDF board. All parts were calculated using Grasshopper plug-in for Rhino.