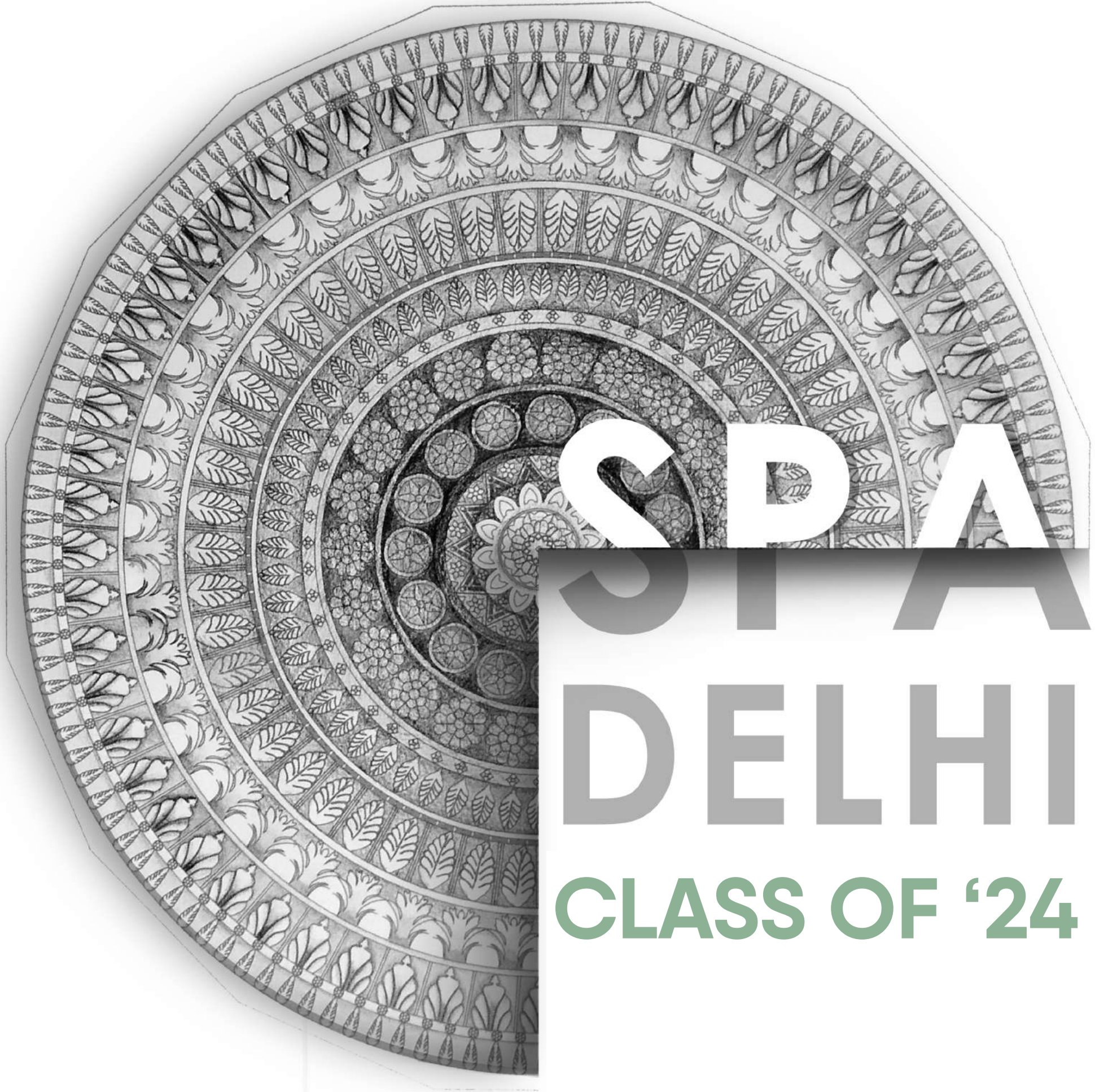




PLACEMENT BROCHURE



SPA
DELHI
CLASS OF '24

ARCHITECTURAL DEPARTMENT

From the HOD's Desk

Department of Architecture



Prof. Dr. Anil Dewan

Head of Department
Department of Architecture
B.Arch, M.BEM, PhD Architecture

Welcome to the Placement Session at the Department of Architecture, SPA, New Delhi. It is with a sense of pride that I present to you these young architects-to-be. They are our senior most students, the ones with the most knowledge and best skills having successfully been through five years of extreme hard work, and training. Having been through the course, giving their best while meeting harrowing deadlines, having mentored their juniors while being mentored themselves, they are now ready to take on the world, albeit a little at a time!

“The course, designed as it is to make each student think for themselves and bring out hidden talents and develop skills, serves to create responsible citizens too.”

Identifying problems and solving them is the one thing that they learn to do very early in their course- each following first a given process and then gradually developing their own methods of working. It is this aspect that gives them the adaptability that allows them to diversify into any other field of research or study quite easily. They are all-rounders in a very positive sense. They are all good at design thinking and its implementation.

Every studio project requires them to look at each site and programme in its entirety- the site, the design programme, the users and so on. Orientation, site conditions, choice of structure and materials and methods of building have a direct effect on the environmental implication, so energy efficiency, structural stability and construction techniques are some of the technical aspects that need to be learned and understood. On the other hand, studying the possible users, their ways of life and social leanings to be able to give them as useful a space as possible while keeping in mind sustainability, affordability requires the students to delve into sociology and behavioural studies too. Thus, we have students trained both in the technical or scientific characteristics of architectural design as well as its humanitarian facets.

While design, particularly architectural design makes for the core of the syllabus, the students learn 'on the job' as it were to handle and reach a standard in computer graphics too. Indeed, their training in art and graphics ensures this standard more than matches a professional one. And who would discount the peer-learning, in studio as well as out of it- the many societies for music, dance, drama, fashion, sports etc. that they have and manage at the student level only reflects on the wide range of interests they have and importantly the curriculum encourages. Thus, by the time our students reach their final year, they are individuals in their own right, thinking young men and women trained to design spaces that are aesthetic, environmentally friendly, energy economic, socially and contextually responsive, and above all are citizens that could help make this world of ours a better place to be in with inclusivity, affordability and humaneness as part of their psyche. I wish them all the best!

- Prof. Dr. Anil Dewan

Vision

About SPA Delhi

The School of Planning and Architecture is a specialized University, only one of its kinds, which exclusively provides training at various levels, in different aspects of human habitat and environment.

The School has taken lead in introducing academic programmes in specialized fields both at Bachelor's and Master's level, some of which are even today not available elsewhere in India.

The vision of SPA, already internationally known, is to make it into a distinguished centre of research, innovation, learning, capacity building and scholarly inquiry to become a globally competitive institution by 2025.

With the above in mind, SPA's mission will be committed to the following:

1. To make SPA a multi – disciplinary academic knowledge house, a pioneer and an internationally known leader in planning and design of human habitat and built environment.
2. To provide innovative professionals who are rooted in our cultural ethos contributing wholesomely to nation building.
3. To position SPA as an internationally reputed institution with a competitive edge in the field of human settlement planning, design, research, training and consultancy.



About

The Department



The Bachelor of Architecture programme aims at attaining a high level of contextual excellence in architectural design.

Both theory and studio exercises are viewed as the core of the programme with crucial inputs being provided by experts specializing in the fields of arts, humanities, engineering and technology, and professional practice of architecture.




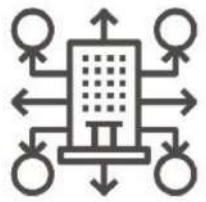




A strong foundation of multi-disciplinary enabling skills related to space, construction environments and aesthetics are offered to the students. Among others, these skills include drawing, architectural presentation, research and writing, computer applications, technical and

managerial aptitudes in problem definition and solution seeking.

The curriculum is structured such that the students gradually learn that architecture has always evolved under the influence of at least four, occasionally conflicting, forces that is history and culture, social aspirations, climate and evolving technologies.

National and international level workshops, exhibitions and seminars are continually held in the Department, several of which are organized in partnership with international universities and research organizations. It is hoped that participating students get exposure to new ways of thinking and imagining.

Facts and Figures

 <p>NIRF Ranking 4</p>	 <p>Male : Female Ratio</p>	 <p><0.1% Intake</p>	 <p>12 Departments</p>
 <p>121 Architecture Students</p>	 <p>1197 Students</p>	 <p>188 Faculty members</p>	 <p>>4 months work experience</p>

The School is a specialized University, only one of its kind, which exclusively provides training at various levels, in different aspects of human habitat and environment.

The School has taken lead in introducing academic programs in specialized fields both at Bachelor's and Master's level, some of which are even today not available elsewhere in India.

The School, in striving for excellence, has always been in the lead in extending education and research to new frontiers of knowledge. Human habitat and environment being the basic concern of the School, the spectrum of academic programs is being continuously extended by providing programs in new fields and emerging areas

for which facilities are not available as yet, anywhere else in the country.

The course at SPA encourages independent thinking and creativity, developing skills while being responsible citizens.

The design projects allow them to identify problems and solve them through various methods with the guidance of seniors and faculty.

The pedagogy allows them to adapt and diversify in research or study easily. The students are all rounders with creative design thinking and knowledge of implementation.

Academics

Curriculum & skills

ARCHITECTURAL DESIGN

- 01 Concept Design
- Space Planning
- Design Development
- Computational Design
- Climate Analysis
- Large-Span
- High Rise
- Commercial
- Hospitality
- Housing
- Hospital
- Urban Design

BUILDING SCIENCES

- 02 Building Construction
- Working Drawings
- Theory Of Structures
- Building Services

PROFESSIONAL EXPERIENCE

- 03 4-6 Months
- Mandatory Internship
- Experience
- Project Management
- Costing & Estimation
- Contracts
- Professional Communication
- Presentation
- Report-Writing
- Architecture & Jurisprudence

RESEARCH

- 04 Dissertation
- Design Thesis
- Seminar Presentation
- Settlement Study
- Documentation

ELECTIVES

- 05 Medical Architecture
- Developmental Finance
- Exhibition & Interior
- Sustainable Urbanism
- Representational Theory
- Industrial Design
- Architectural Conservation
- BEM
- Urban Planning
- Physical Planning
- Regional Planning
- Landscape Architecture
- Real Estate

VISUAL COMMUNICATION

- 06 Graphic Design
- 3D Visualization
- Photography
- Film Editing
- Model Making



Academics

Software Skills

CAD + BIM

01

AutoCAD
Rhinoceros 3D
Sketchup
Autodesk Revit
ArchiCAD

GRAPHICS

02

Adobe Photoshop
Adobe Illustrator
Adobe Indesign
Adobe Premiere Pro
Adobe After Effects
Procreate

OFFICE

03

MS Powerpoint
MS Excel
MS Project
MS Word
SPSS/ Zotero
Tableau

COMPUTATION

04

Grasshopper
Ladybug
Honeybee
Design Builder
Ecotect
PMV Tool

3D VISUALIZATION

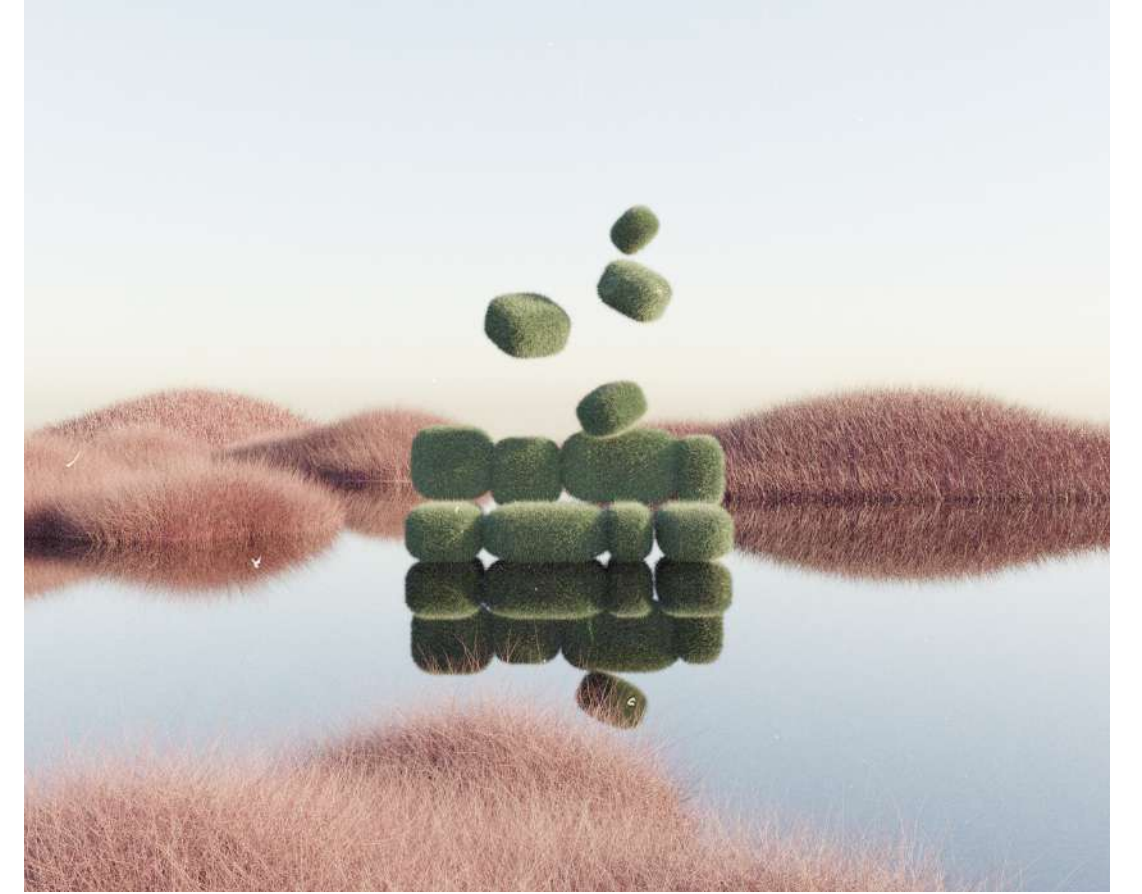
05

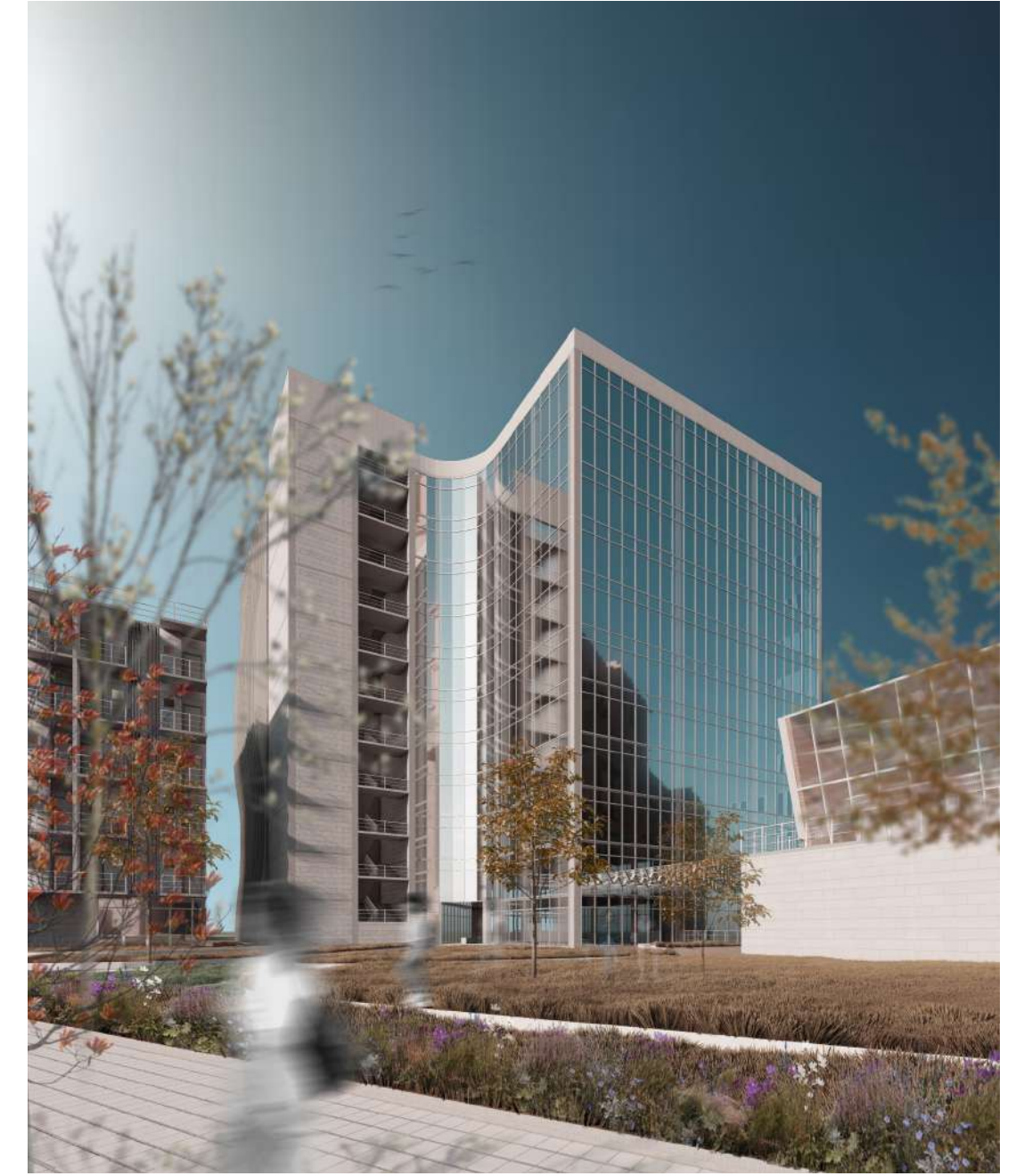
Lumion
Vray
Enscape
Twinmotion
Keyshot

Blender
3DS Max
Maya
ZBrush



Areas of Expertise - Student Work Across the Years





RECLAIMING THE IN BETWEEN

GRAFFITI OR GROWTH WHERE LIES STREET ART?

IS GENTRIFICATION OF CITIES IMPACTING YOUR LIFE?

GREEN CIRCLE THE NEXT BEST THING?

IS WELL-BEING ACHIEVED OR GRANTED?

ARE YOU INVITING NATURE TO YOUR OFFICE?

'HAVELIS' - EXPLORED OR EXPLOITED?

CAN BARREN BE GREEN AGAIN?

HOW MANY TREES CAN YOU SEE FROM YOUR HOUSE?

WHAT FIGHTS CLIMATE CHANGE AND GIVES YOU TOMATOES?

SEMINAR 2022

GREEN MOZAIK INTEGRATING THE ISOLATED

'DOES ADAPTIVE REUSE LEAD TO CARBON NEUTRALITY?'

ARE WE BUILDING IT RIGHT?

BIO-MATERIALS THE FUTURE OF BUILDING BLOCKS?

A SILVER LINING TOWARDS HEALING

YOU CALL IT WASTE OR WASTE?

BACK TO THE ROOTS?

NOT TOO LATE, TO SAVE WATER'S FATE

'WILL THE PLANET REMAIN BLUE?'

ROOF PANELS
Roofing panels and glass panels used in the roofing system. Glass panels are used for the opaque roofing, and glass grating for the atrium. This is mounted on top of the secondary grid and a purlin system.

ACOUSTIC CEILING
Cable netted carbon steel sheets fabricated with acoustic insulation like beneath the fabric panels to account for suitable acoustics in the public enriched spaces.

SECONDARY STRUCTURE
250mm steel members compose the secondary grid of the roof to support the cladding above. The structure is designed to keep with the concept, with a weaving steel truss system instead over the atrium.

PRIMARY STRUCTURE
1000mm dia steel members form the primary beam grid of the large span structure. Reinforcing rods of the steel to the ground level along the cantilever. The beam are supported by 2000mm dia edge beams around the perimeter and the atrium.

COLUMNS
Y-shaped columns arranged along the entire perimeter. The main building has a transfer beam at the level through a storey. A 2400mm grid was followed throughout, defined strategically from the building setbacks. A set of radial columns along both concrete support the sloping steps of the departure level.

CABLE TIE GLAZING
A system of cables for grid structural wall glazing has been proposed with the cables tie supporting the glazing. This ensures a clear view of the atrium all around, and enhance the spaces within with natural lighting.

FLOOR SLABS
300mm thick Precast Concrete slab Slabs proposed for the 4 interweaving floor slabs. The system of flat slabs and ramps together are designed leaving in mind lower floor circulation of passengers. Service floor on the uppermost level caters to the variety of office offices, baggage, loading docks, waste generation etc. The structure and efficient vertical circulation methods have also been included.

Key

- Learning UniPOD
- Living UniPOD
- Workshop UniPOD
- Cafe UniPOD
- Exhibition Space

Visual connection of the entry Pavilion with the Beach

CAVELOSSIM BEACH

SITE BOUNDARY

Cross ventilation

OFFICE
Total area = 20,000 sq.m
No. of floors = 19

WESTERN FACADE
Egg crate shading device blocking south sun

RESIDENTIAL
Total area = 11,100 sq.m
No. of floors = 15

NORTHERN FACADE
Breakout terraces, balcony projects

SKYBRIDGE
Connection between the towers, seating with lush planters

ATRIUM
Allows for maximum natural lighting in retail

SERVICE FLOOR
Transfer Slab Allows for changing grid in tower

RECREATIONAL FLOOR
Cafe with terrace seating

RETAIL
Total area = 8,500 sq.m
No. of floors = 4

CEPT CARBSE, Ahmedabad
Centre for Advanced research in Building science and energy
Case study - Net Zero Energy Building

OBJECTIVES
Demonstration of low energy building design to achieve **Net Zero Energy Building**.
Research and practice of appropriate strategies to achieve thermal comfort.
Harness and maximize the usage of daylight. Integrate **renewable energy sources** as part of architectural design.

GOALS
Generate robust knowledge database for strengthening of **energy efficiency**.
Create **enhanced knowledge** of construction materials and practices for energy efficient architecture.

DESIGN STRATEGIES
- Building massing and **orientation**
- Optimized **building envelope**
- Optimized **thermal and luminous environment**.

STACK EFFECT
It is the difference in pressure caused by the difference in elevation between two locations, conveying heated gases at zero gas flow.
Principles used in the process: **Cross ventilation**, **Venturi effect**, **Buoyancy of warm air**.

BUILDING ENVELOPE OPTIMIZATION
Windows design: fenestration shading, day lighting analysis.

PASSIVE SYSTEM
Light shelves, Courtyards, Building orientation, Earth berming, Stack effect.

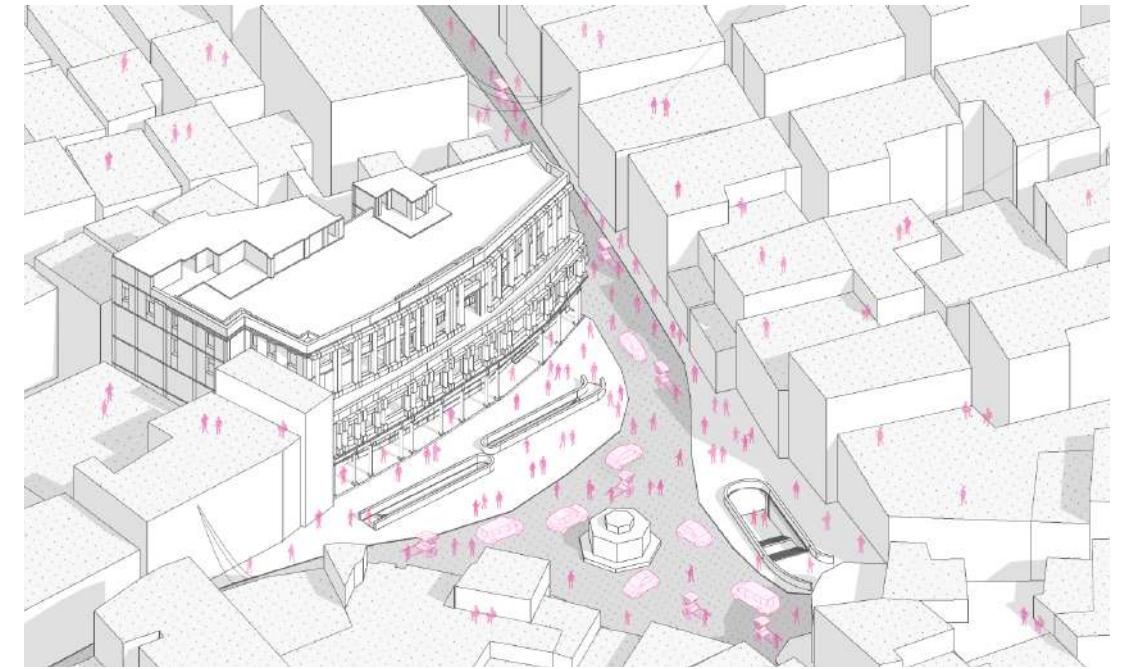
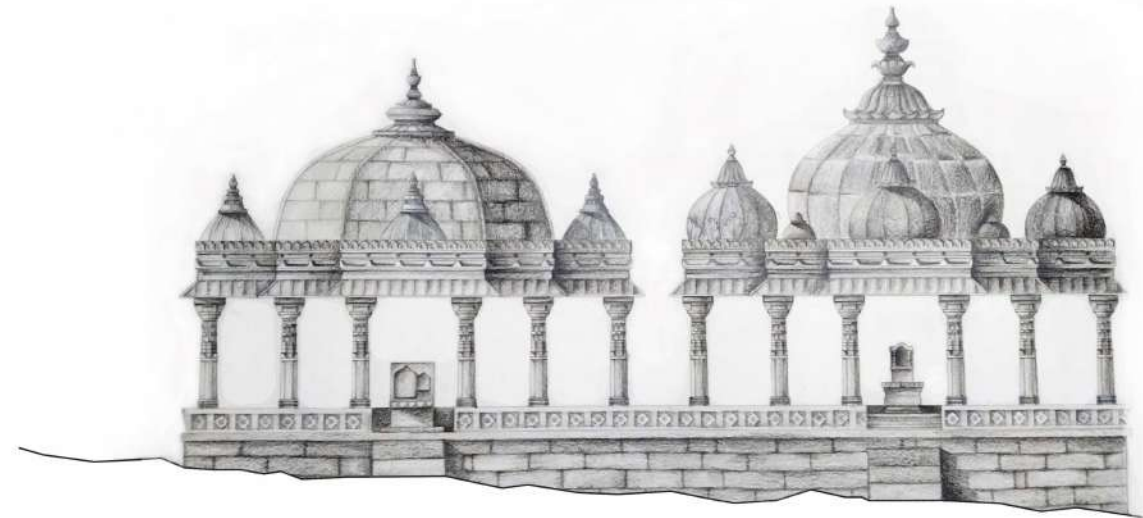
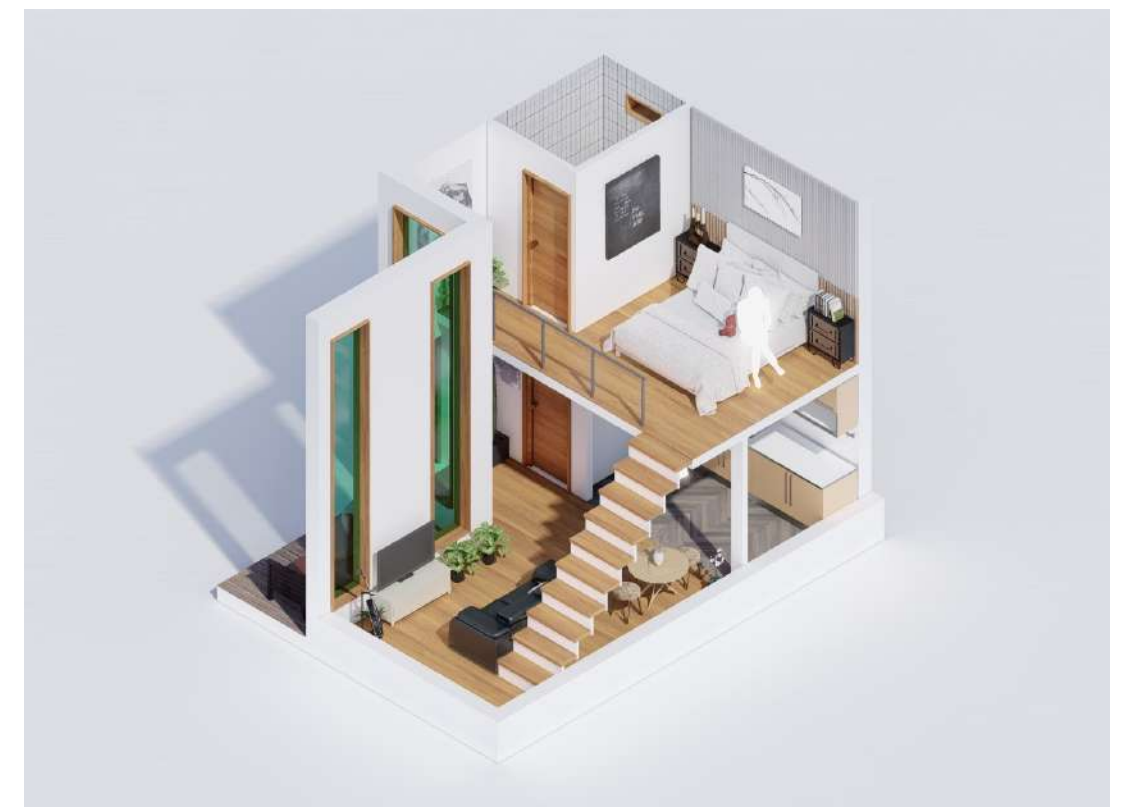
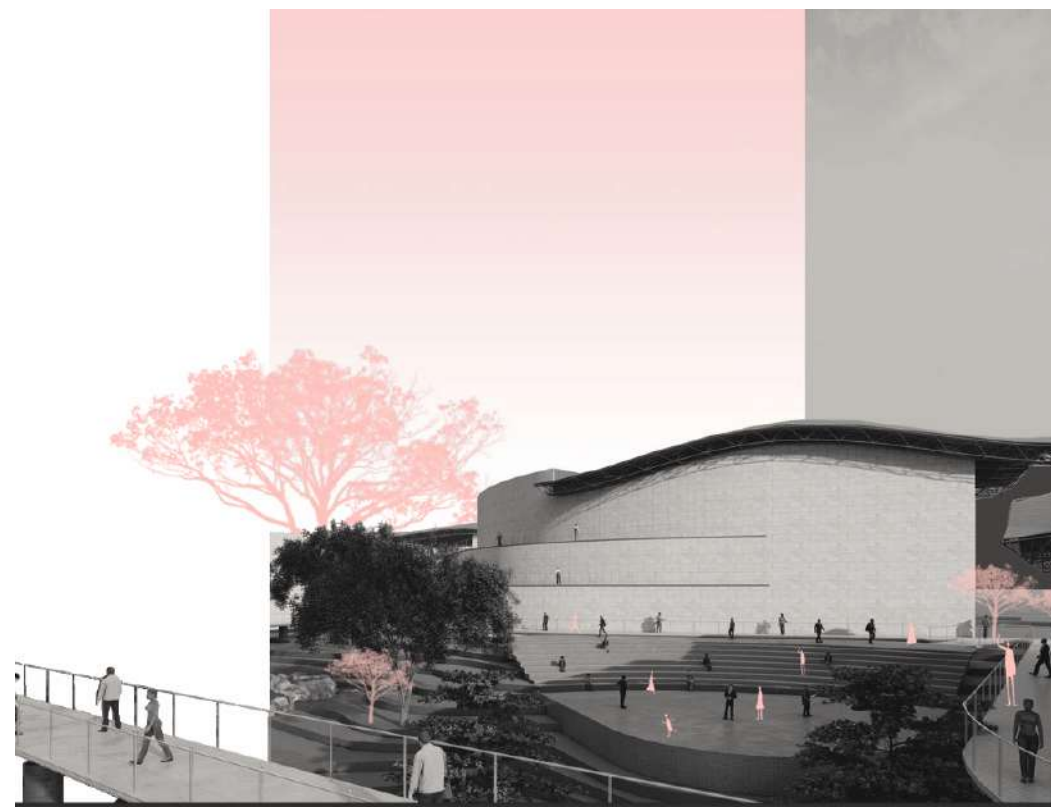
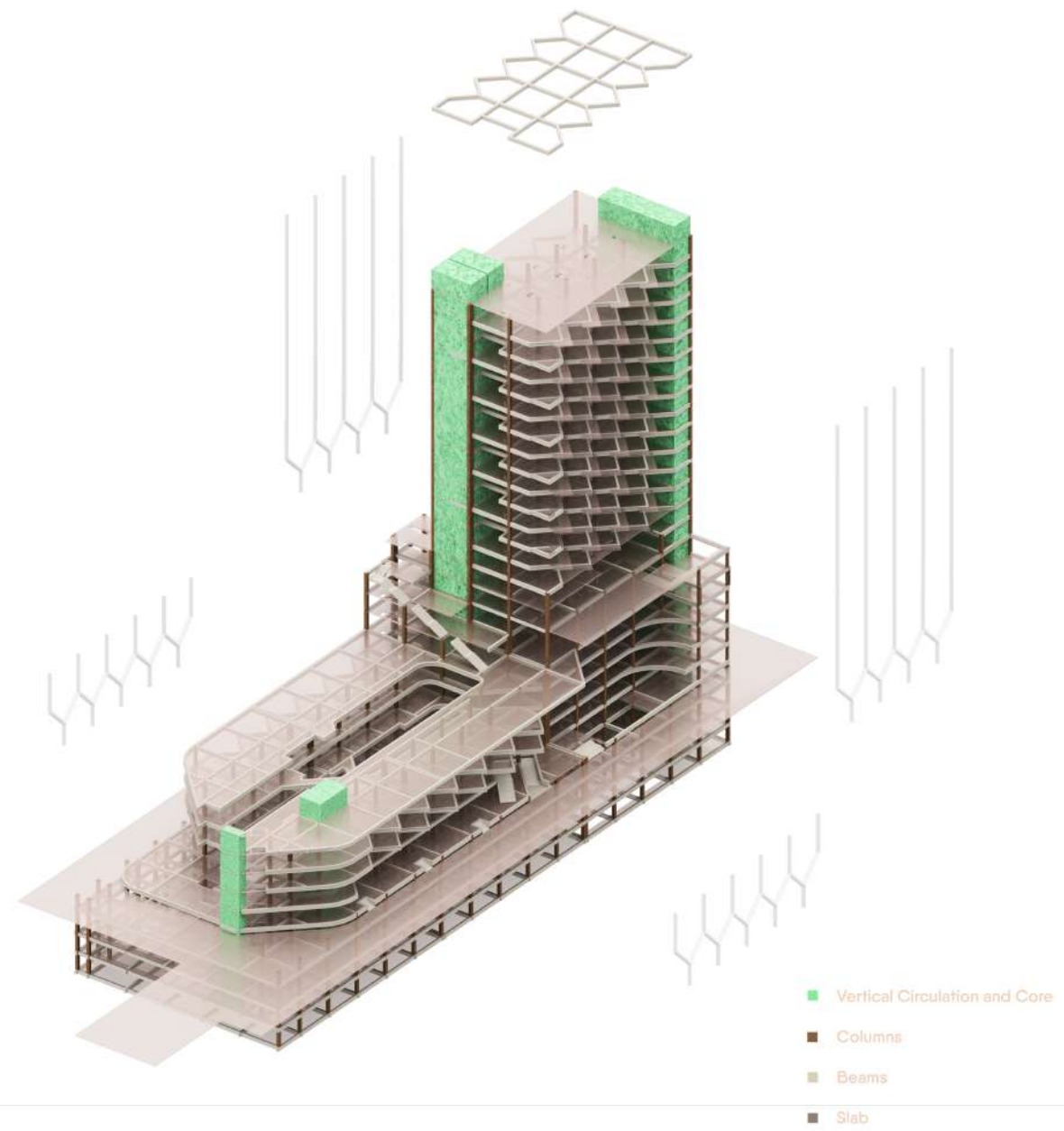
ACTIVE SYSTEM
Radiant cooling, Dedicated Outdoor Air System, Variable Refrigerant Flow.

The hypothesis of Net Zero Energy Building (NZEB) - a building which generates as much energy as it uses over the duration of one whole year.

Southern side has clerestory to allow minimum south light.

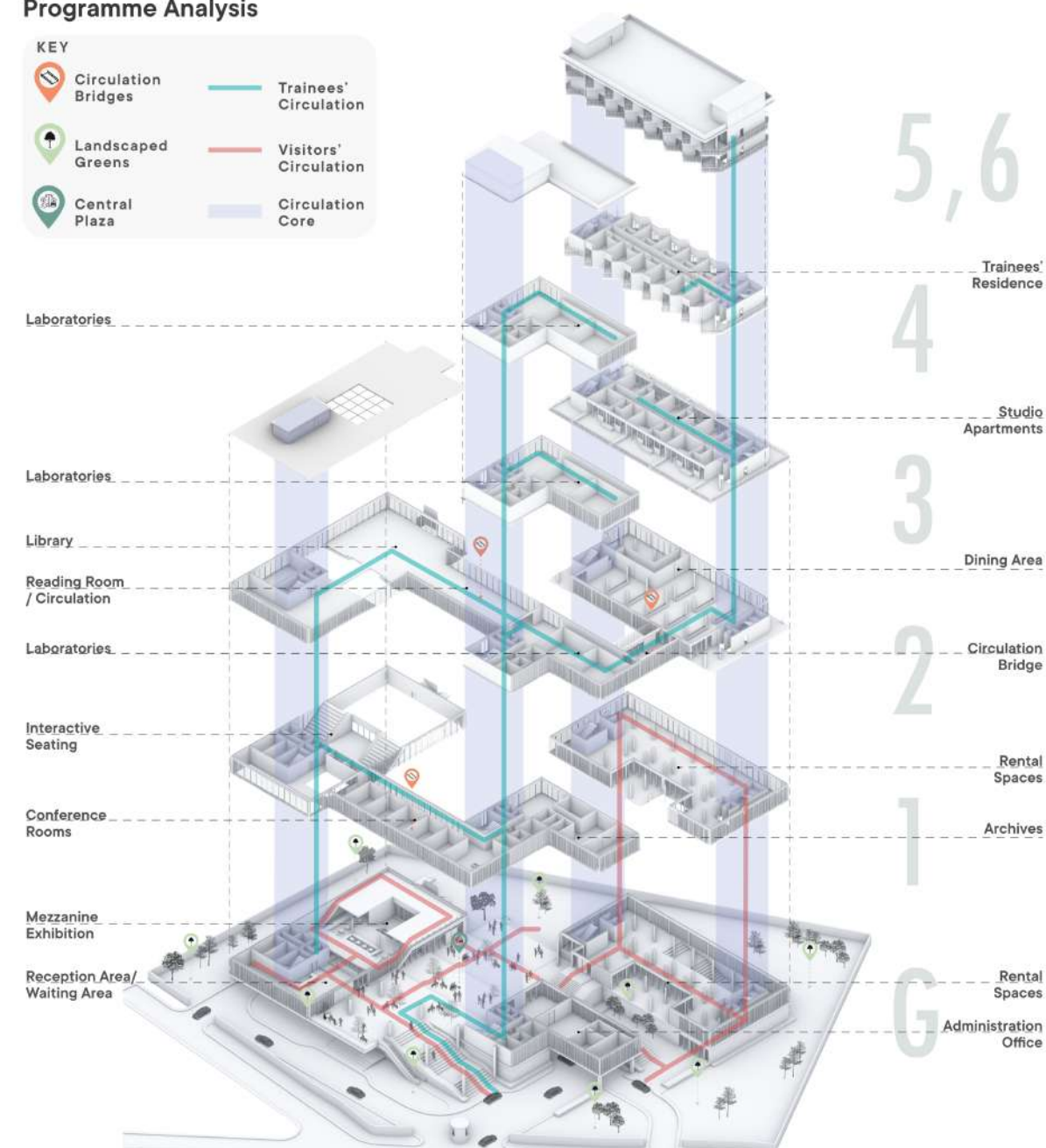
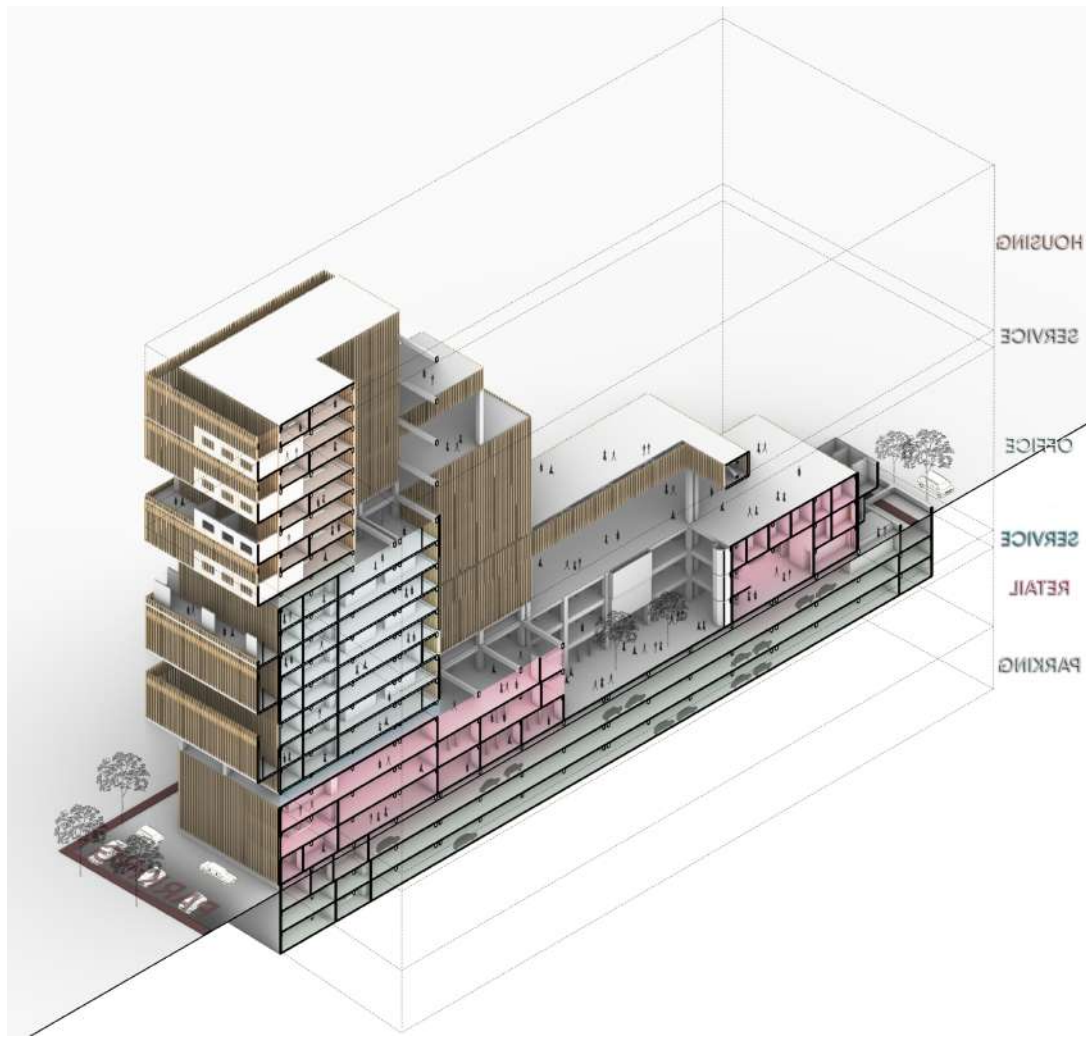
Warm air in the building exits from the mezzanine floor above.

Cool air from southern windows enters in the building.

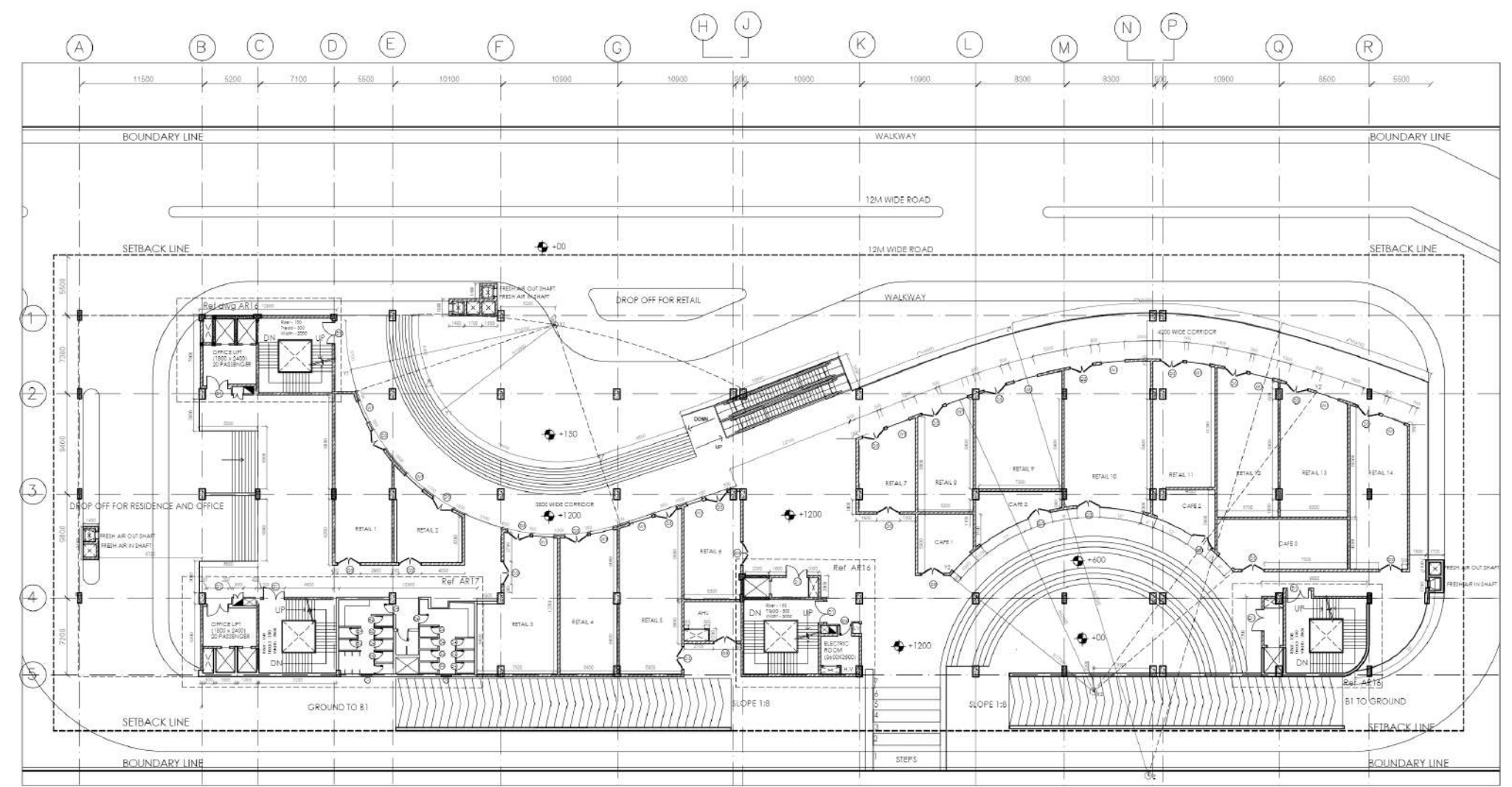


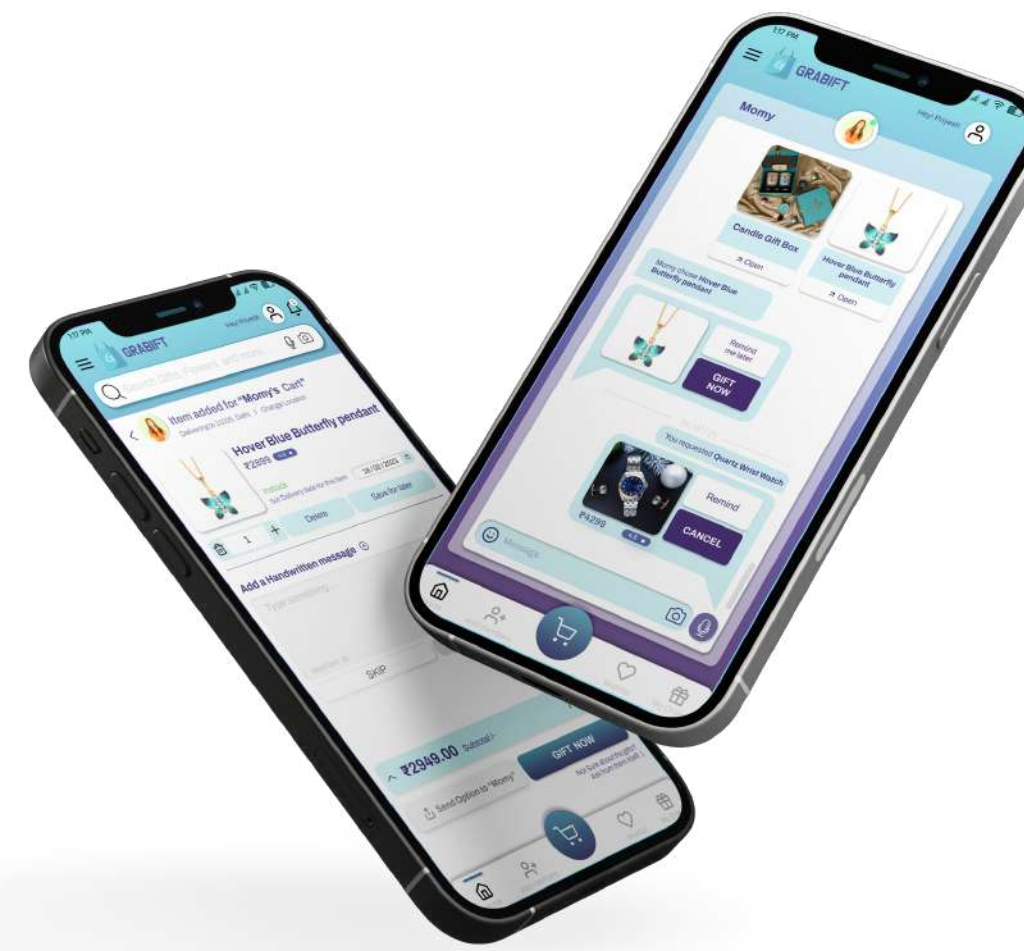
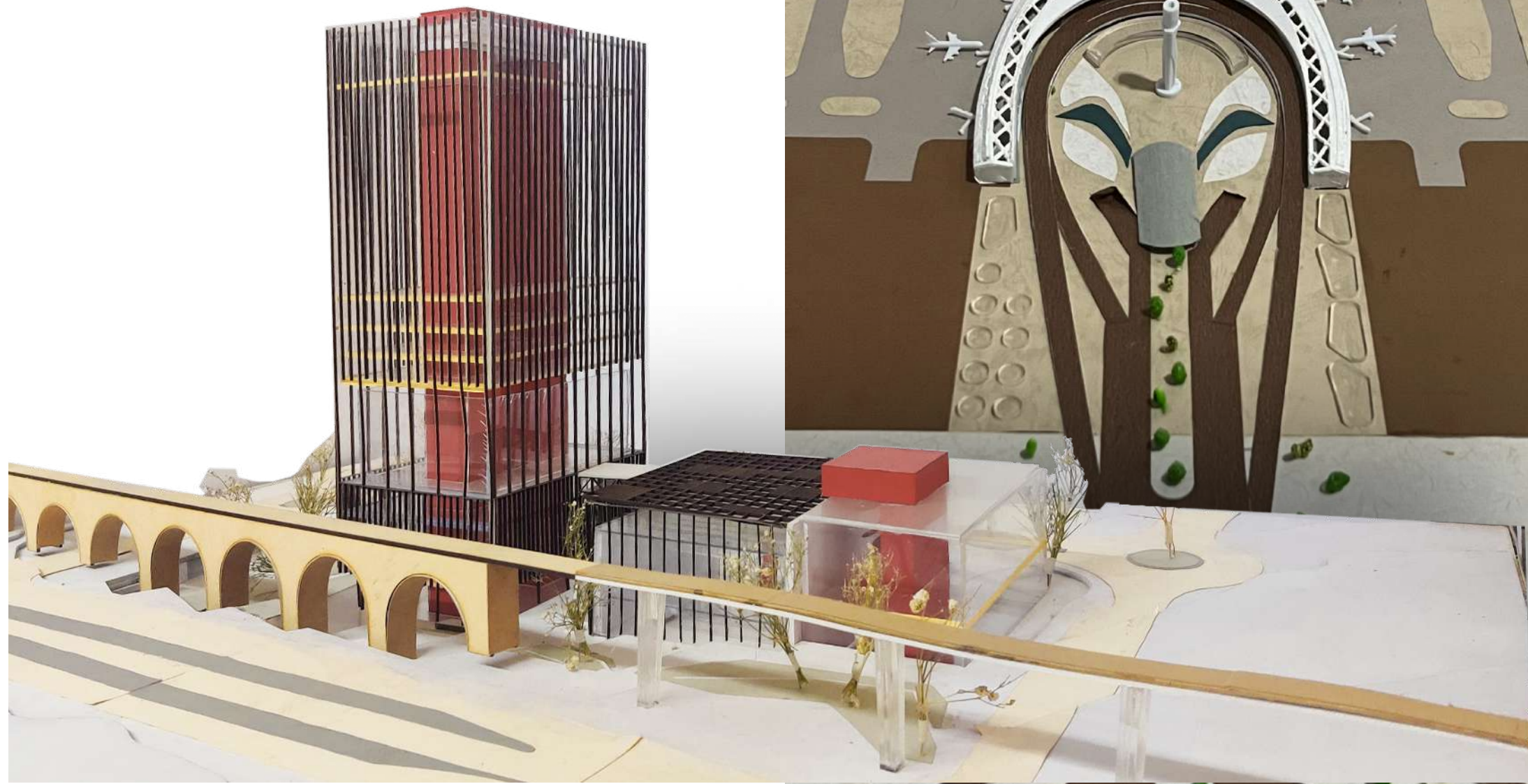
Programme Analysis

- KEY
- Circulation Bridges
 - Landscaped Greens
 - Central Plaza
 - Trainees' Circulation
 - Visitors' Circulation
 - Circulation Core



LONGITUDINAL ELEVATION





Awards and Achievements



1. Bauhaus International Campus Design
 - Three Entries in Top 30 Finalists
2. Notions of India by TATA Steel
 - Runner Up
3. Solar Decathlon India 2021-22 (Educational Division)
 - Winner and Runner-Up
4. Switch International Architecture competitions : Reviving Silk Route
 - 4th honorable mention
5. COA Award for Architectural heritage
 - Award for excellence in documentation
6. Archidots award for excellence in Architectural design
 - Winner
7. DFI Dstories competition - Creating Cultural destinations
 - Winner
8. Node Pavilion Design Competition - Top 4

Notable Past Employers

AECOM

ATKINS

Cognizant

Gensler

incUBIS
BUILTENVIRONMENTS INDUSTRIALDESIGN

RSP
SP ARCHITECTS PLANNERS & ENGINEER

SYSTRA

vir.mueller

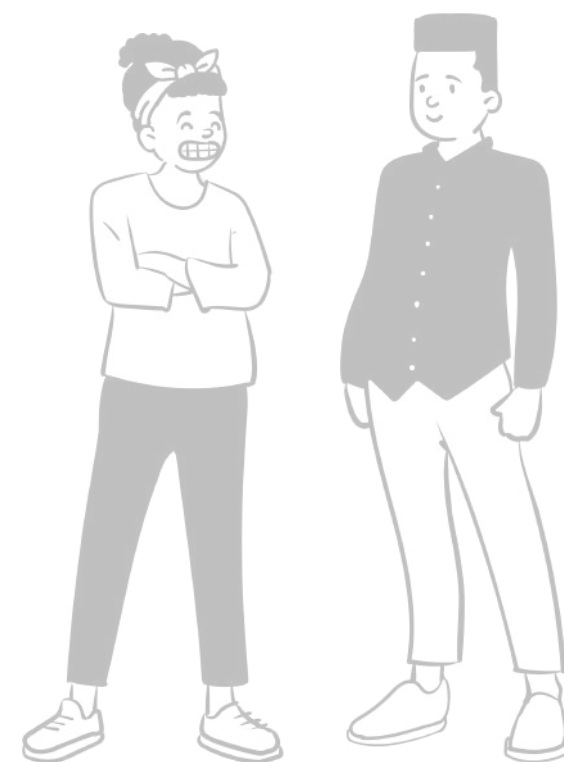
TotalEnvironment
Homes



Uniworks
Designs Studio

SAA
sikka associates architects

DLFA
BUILDING INDIA



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For campus recruitments,
mail us at placements@spa.ac.in

Faculty-In-charge

Mr. Amit Kumar

amit.kumar@spa.ac.in
+91-9878022335

Dr. Jatinder Kaur

jatinderkaur@spa.ac.in
+91-9878022335

Student Placement Coordinators

Manan Sethi /+91-8287616641

Sanginee Gupta /+91-9650086389

Priyesh Kumar

Arushi Chopra

Ayush Pathrabe

Soumya Jain

Ayush Rawat

Sejal Wadhawan

Mohak Walecha

Bhukya Rajashekhar

Brochure Design Credits

Arushi Chopra

Priyesh Kumar

Soumya Jain

Ayush Pathrabe

