

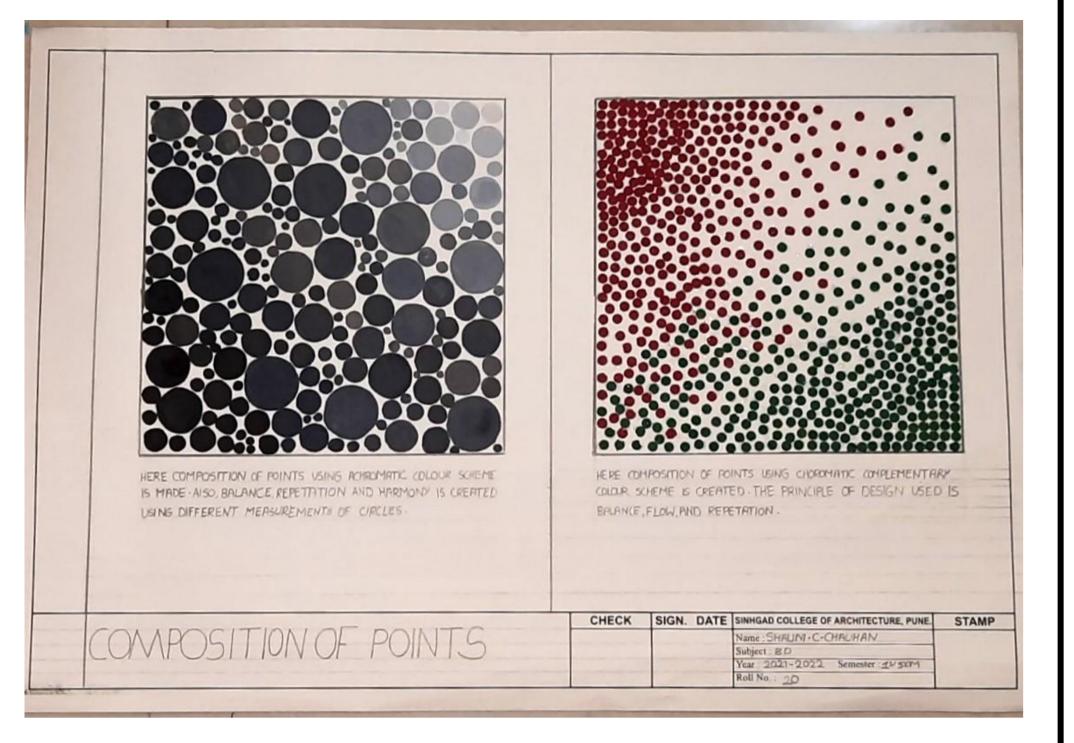
STUDENT 'S WORK

ACADEMIC YEAR 2021-2022

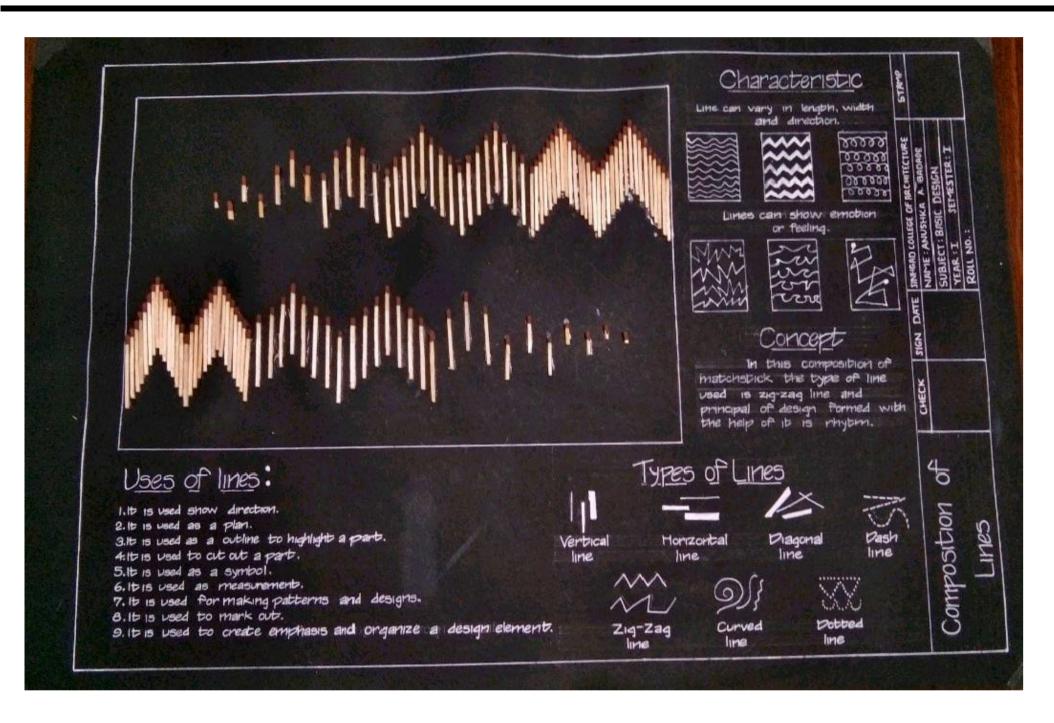
First Year B.Arch.

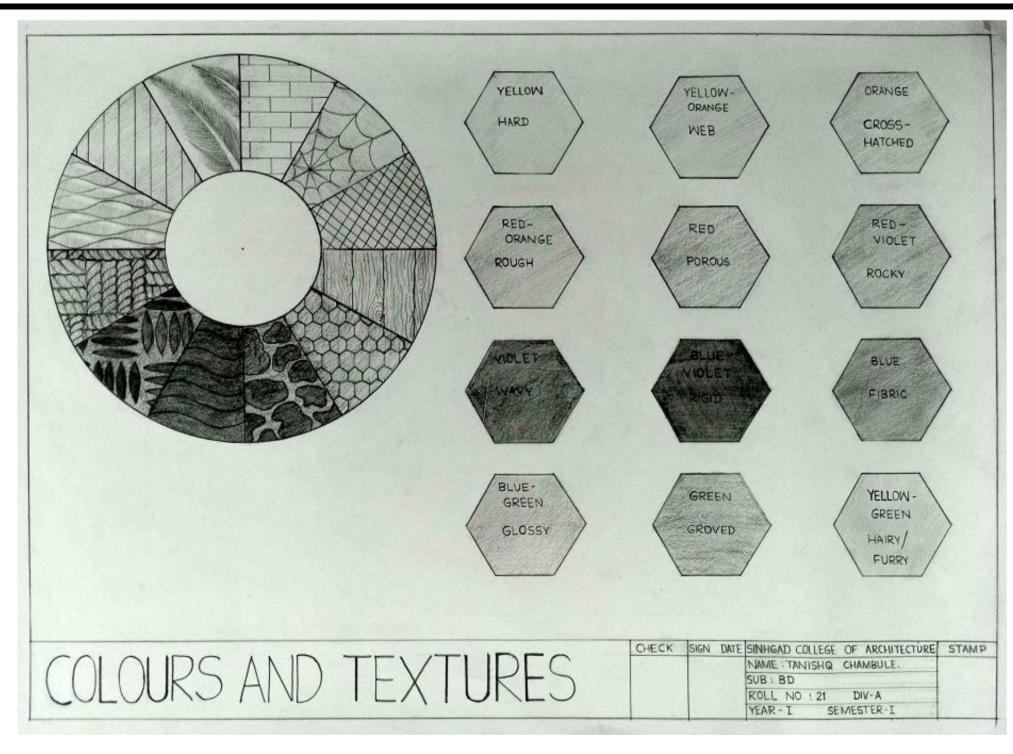
TO

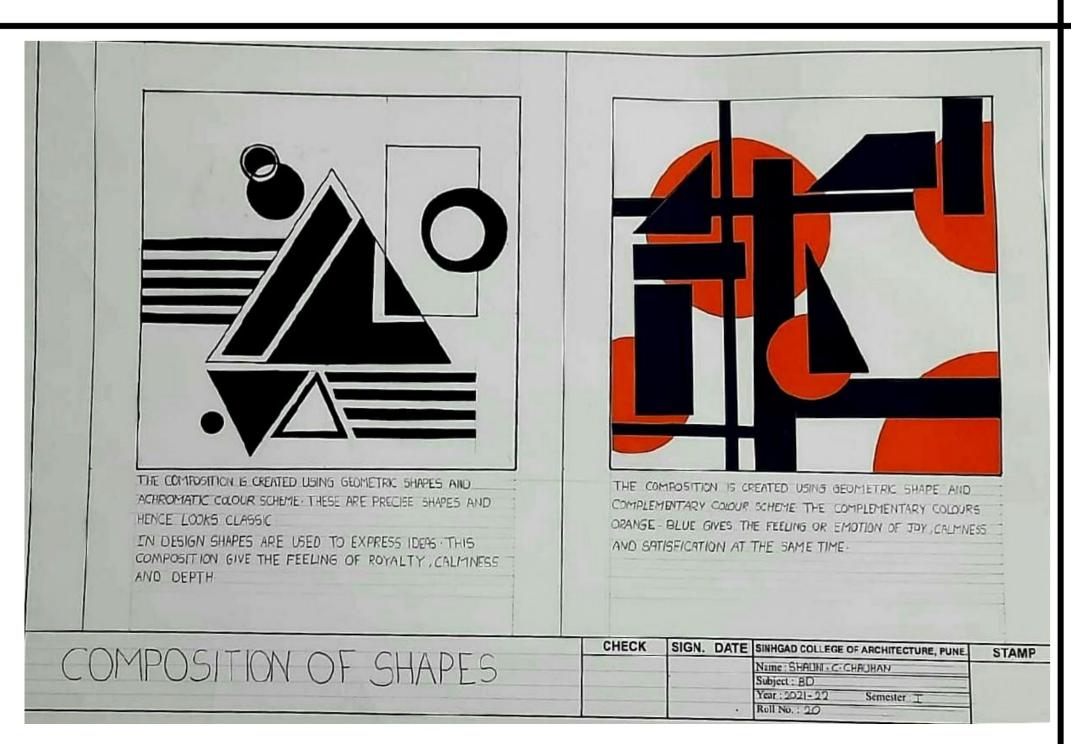
Fifth Year B.Arch.

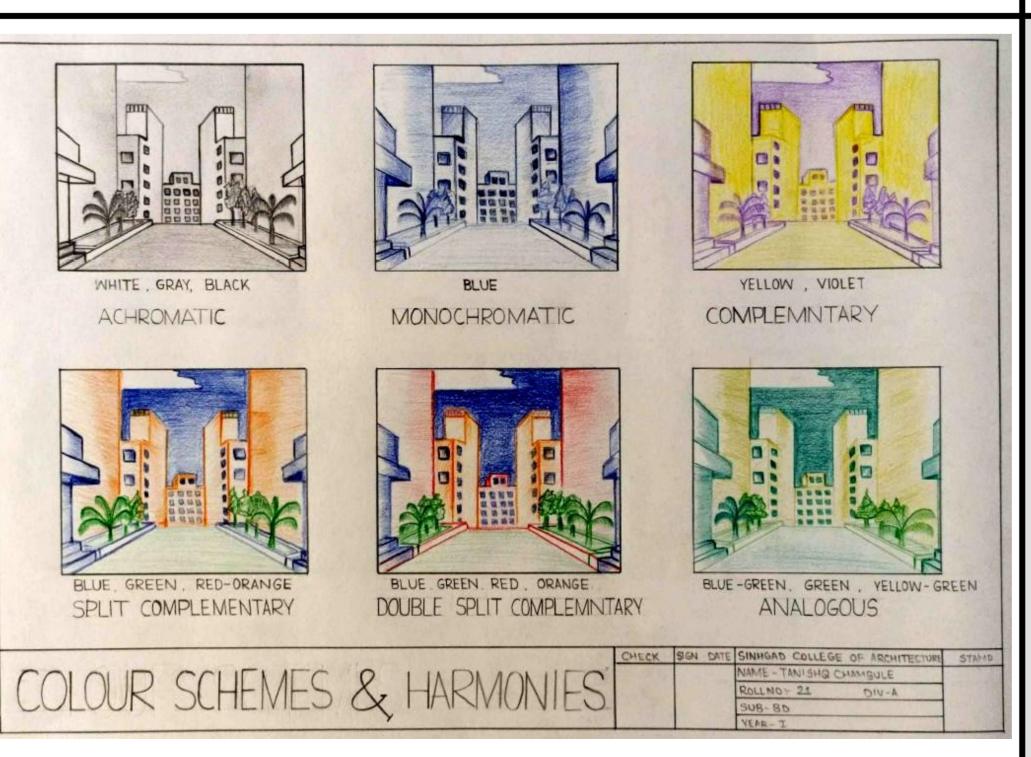












The purpose of the assignments was to examine the design elements and its implication expending the design principles.

The purpose of the assignments was to examine the fundamental design concepts. To create a work out of things you have around the house that demonstrates impression. To make it possible for students to learn colours using different colour schemes. To create all the assignments work out of things you have around the house that demonstrates the purpose

Student: Shalini Chauhan, Anushka Badade, Tanishq Chambule Faculty: Ar. Kalpana Hadap, Ar. Vrushali Dhamne, Ar. Avanti Kale

1st Year B.Arch 2021-2022 BASIC DESIGN

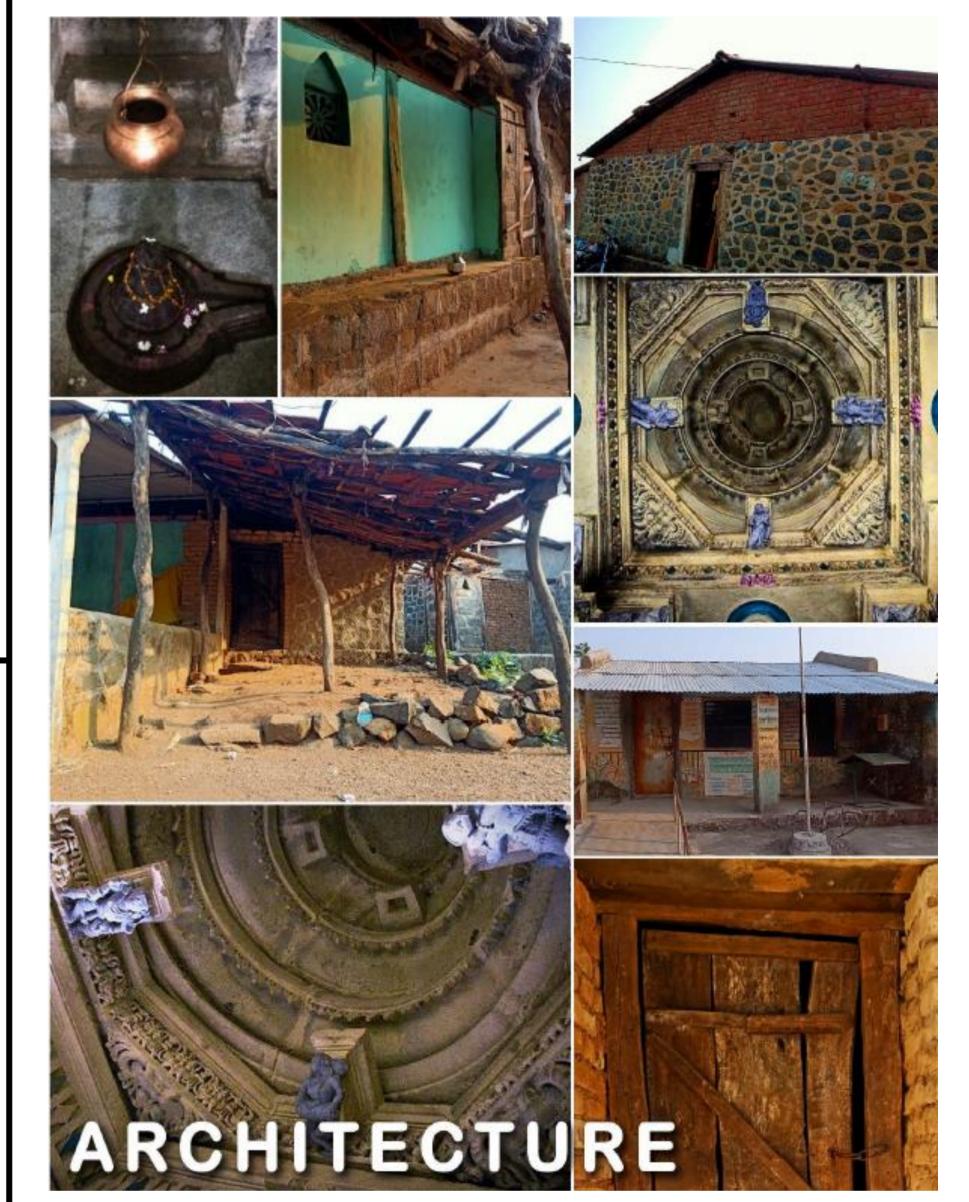
COMPOSITION OF POINTS
COMPOSITION OF LINES
COMPOSTION OF SHAPES
COLOUR WHEEL AND TEXTURES
COLOUR SCHEMES

STREET CROSS SECTION The following street cross section is across strucures no 50, 51,57,58. The Primary School has learnings up to class 4th. It has a small play area in the front for kids. The section also consist of school water tank which can be accessed by people. A common activity such as cooking is shown in the private space and semi private spaces are also depicted. THICKNESS : 100-150 MM FINISH : NATURAL PUBLIC SPACE STREET SECTION & ELEVATION Cattleshed, where cattles are kept and rested is also there as Milk and Dairy products being one of the occupations carried out. The details of the construction materials have also been specified. THICK - 10-20 MM FINISH- ROUGH COLOUR - BROWN FINISH-NATURAL PRIVATE SPACE SECTION AT F F' STREET SECTION AA' ACROSS HOUSE NO. 45,46,48 NAME - COWDUNG THICK- ISMM THK COLOUR- DARK BROWN LOCATION - FLOORING STREET This narrow street has an average width between 1-1.5 m. The long open space in front of each house is used as verandah. The street is narrow enough so that people sitting on either side can talk.

64)

STREET ELEVATION

PROJECT DETAILS



Student: 1st Year B.Arch

Faculty: Ar. Kalpana Hadap, Ar. Vrushali

Dhamne, Ar. Avanti Kale

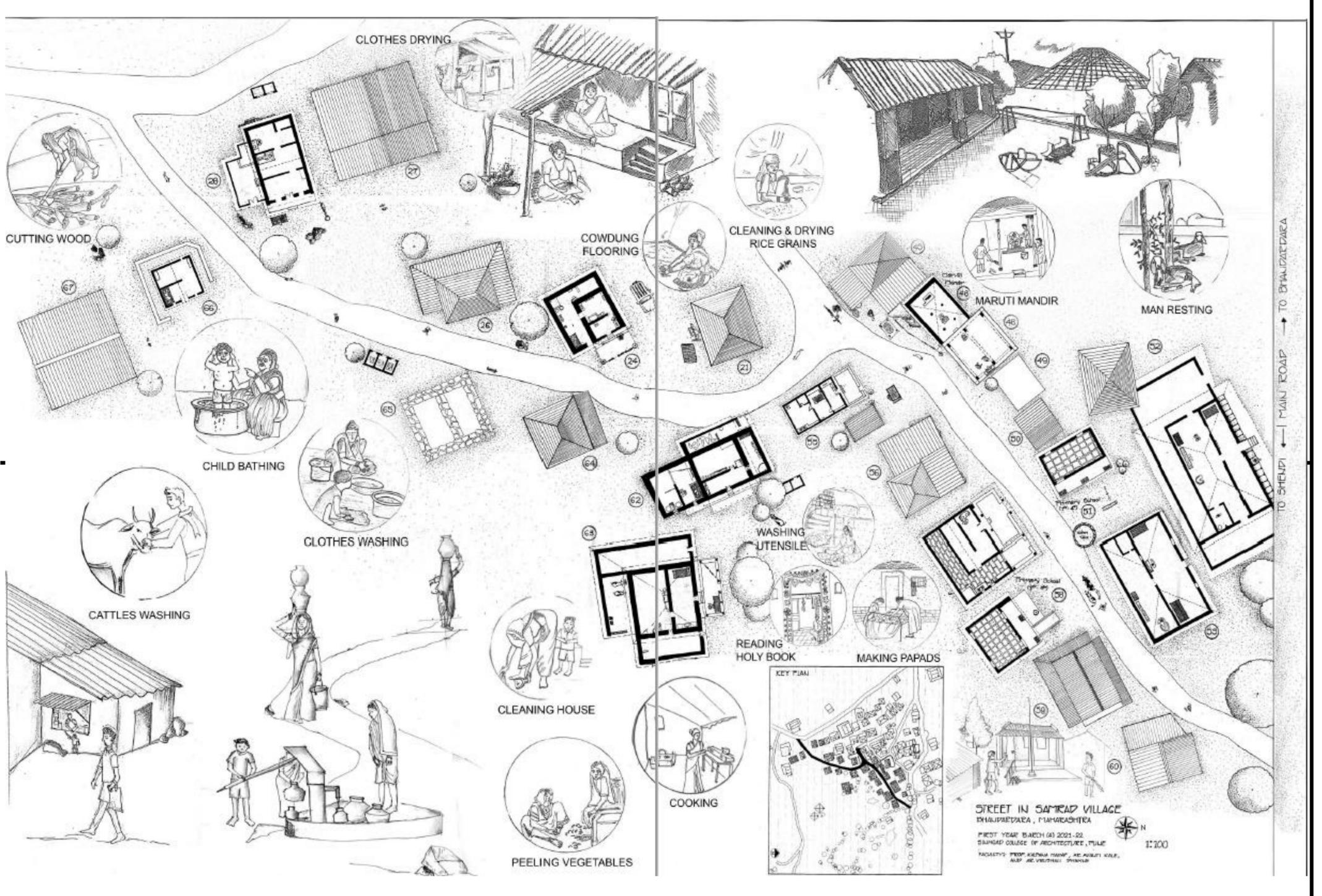
STREET CROSS SECTIONS

Daily chores carried out by the locals such as cleaning, washing clothes, washing utensils, cattle grazing, cooking etc.

(65) UNDERCONSTRUCTION SITE

1st Year B.Arch 2021-2022 ARCHITECTURAL DESIGN I

STUDY TOUR AT SAMRAD, BHANDARDHARA





ISSUES AND CONSIDERATIONS:

STUDENTS ANALYZED AND DREW INFERENCES FROM VARIOUS STUDIES AND INTERACTIONS ABOUT FOLLOWING ISSUES:

- Unemployment
- Agricultural development
- Shortage of water supply
- Lack of technology
- Limited health care facilities
- Lack of sanitation
- Lack of electricity
- Need of secondary & higher educational facilities
- Improvement in local transportation service
- Limited basic resources
- Less amenities
- Improvement in road connectivity
- · Requirement of public gathering places
- To build more green spaces

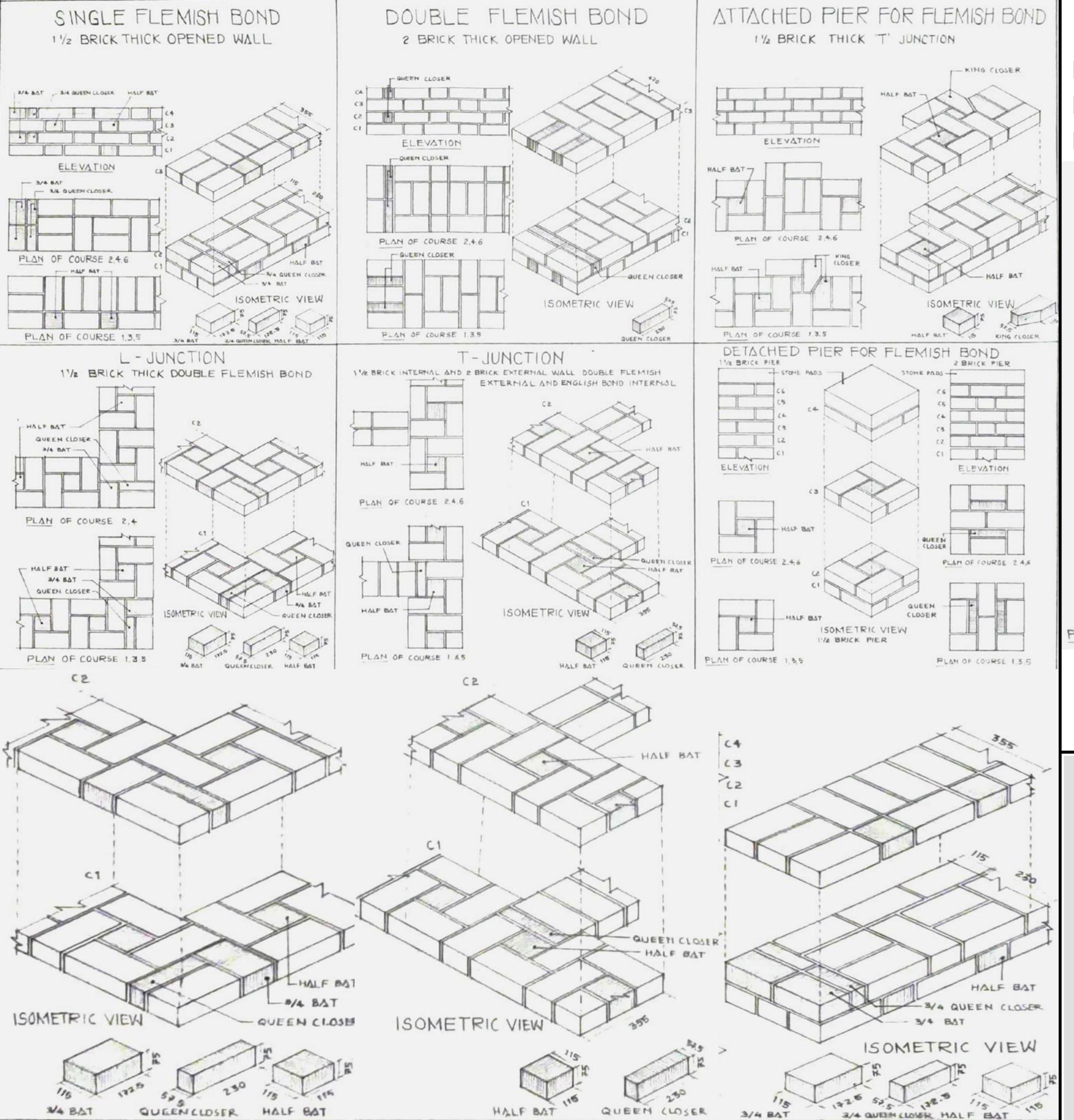
Student: 1st Year B.Arch

Faculty: Ar. Kalpana Hadap, Ar. Vrushali

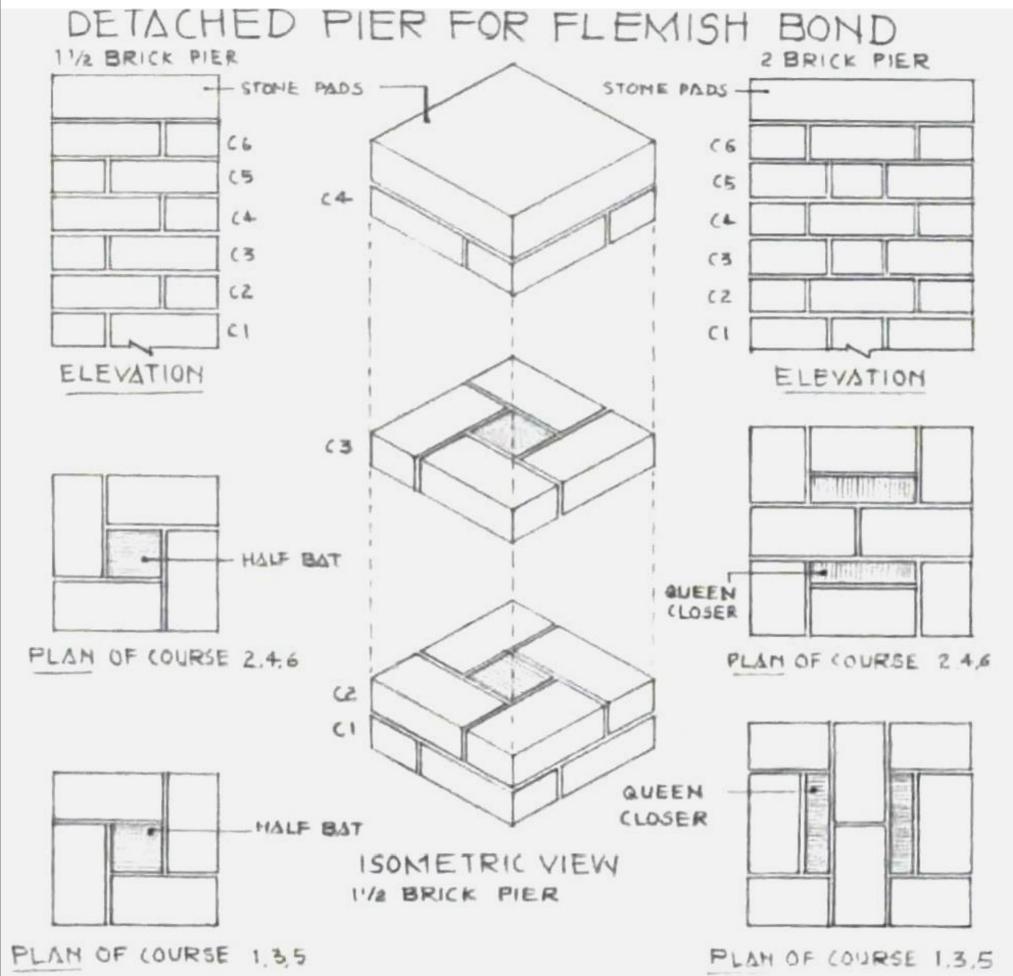
Dhamne, Ar. Avanti Kale

1st Year B.Arch 2021-2022 Architectural Design I

STUDY TOUR AT SAMRAD, BHANDARDHARA



Load bearing masonry construction using Brick as a material and its arrangement in Flemish Bond method.



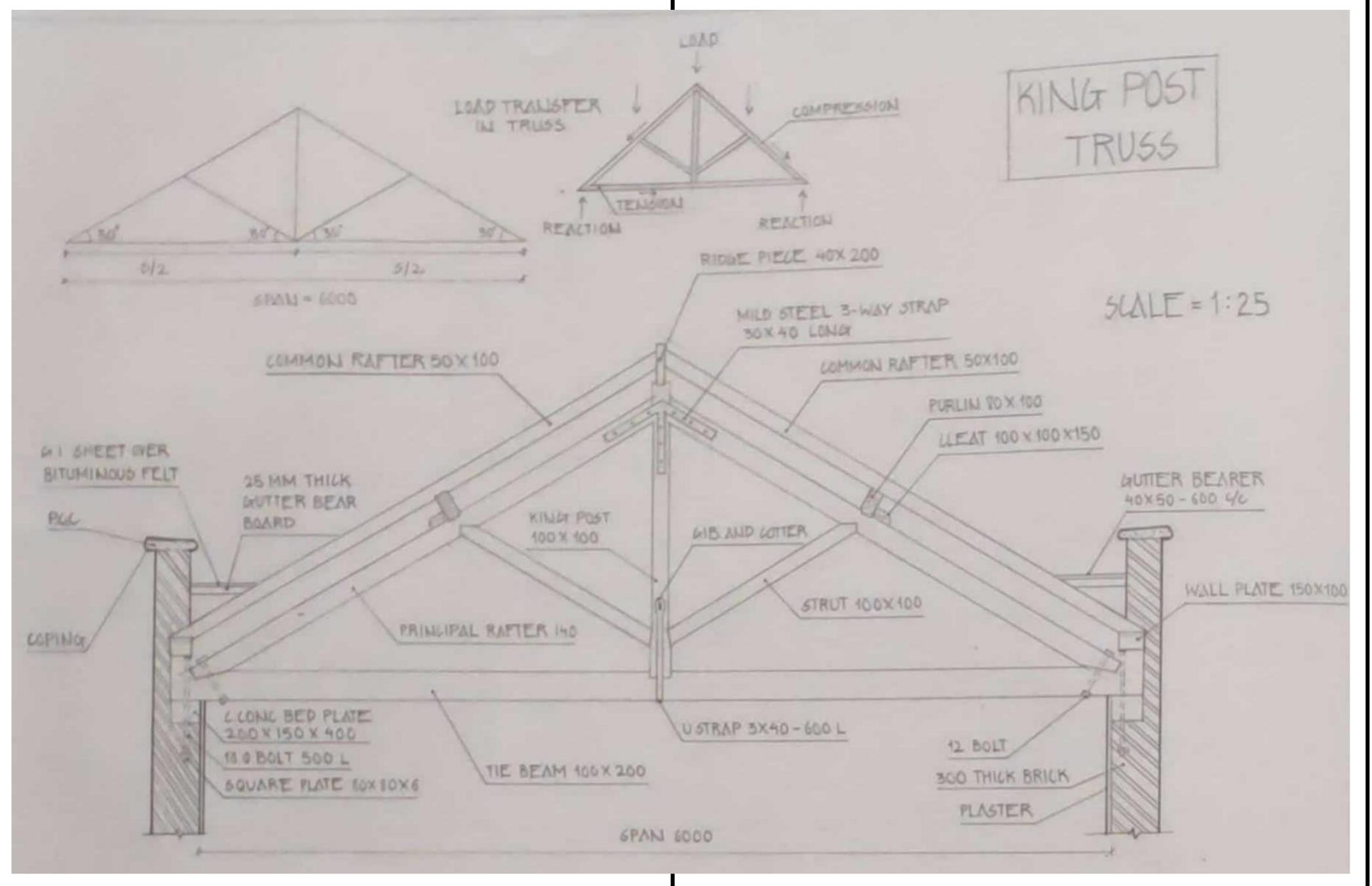
Student: Sahil Chougule

Faculty: Ar.Priyanka Purohit, Ar.Snehal

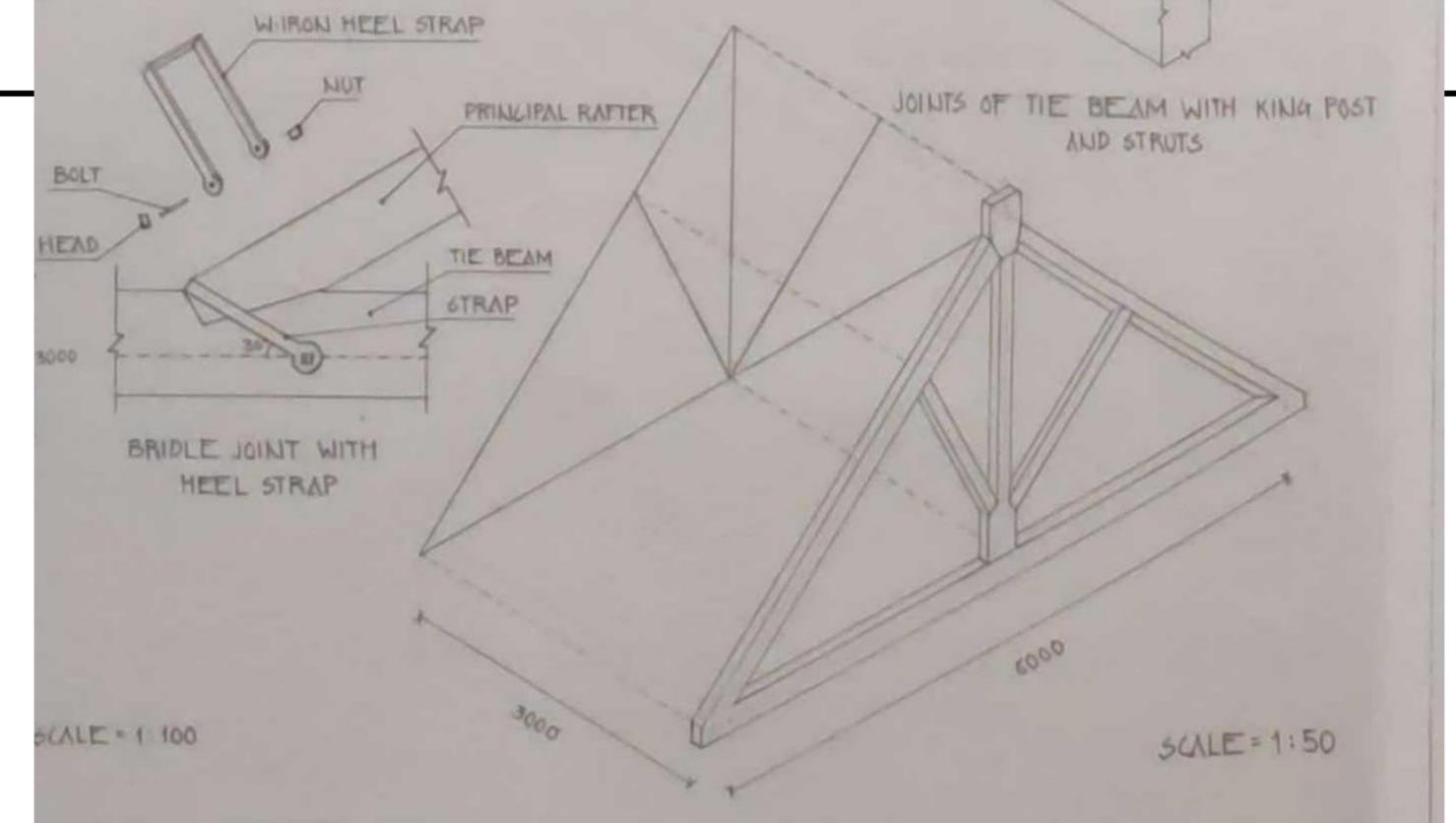
Kulkarni

1st Year B.Arch 2021-2022 BCM I

FLEMISH BOND

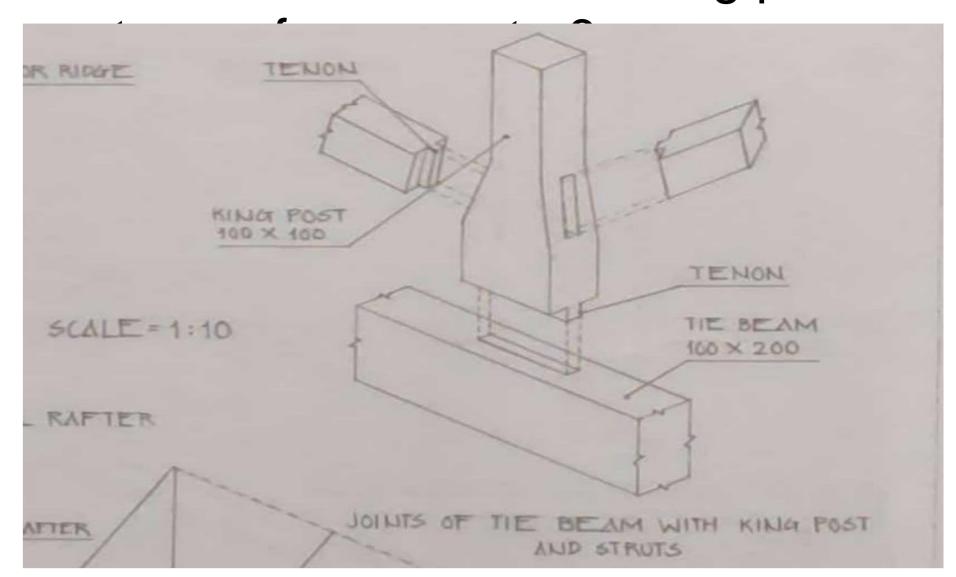


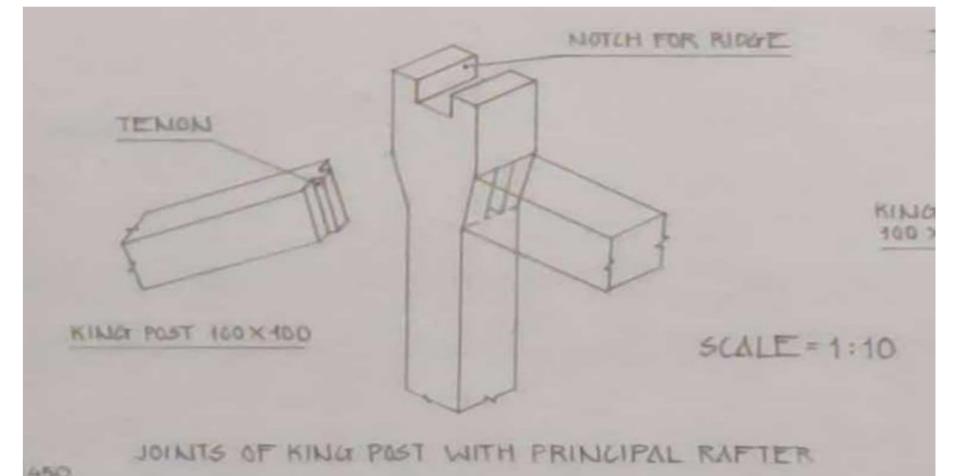
RIDGE PIECE BATTENS COMMON RAFTERS PURLINS KING POST TRUSS BOL HEA SOCO



KING POST

TRUSS construction details of king post

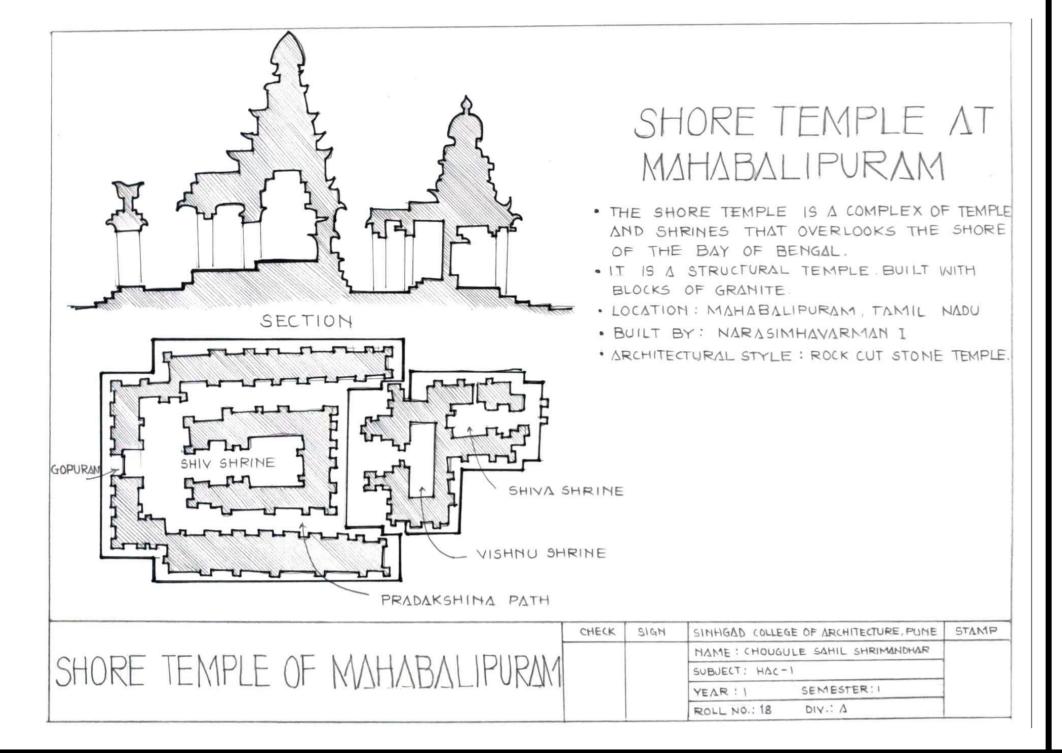


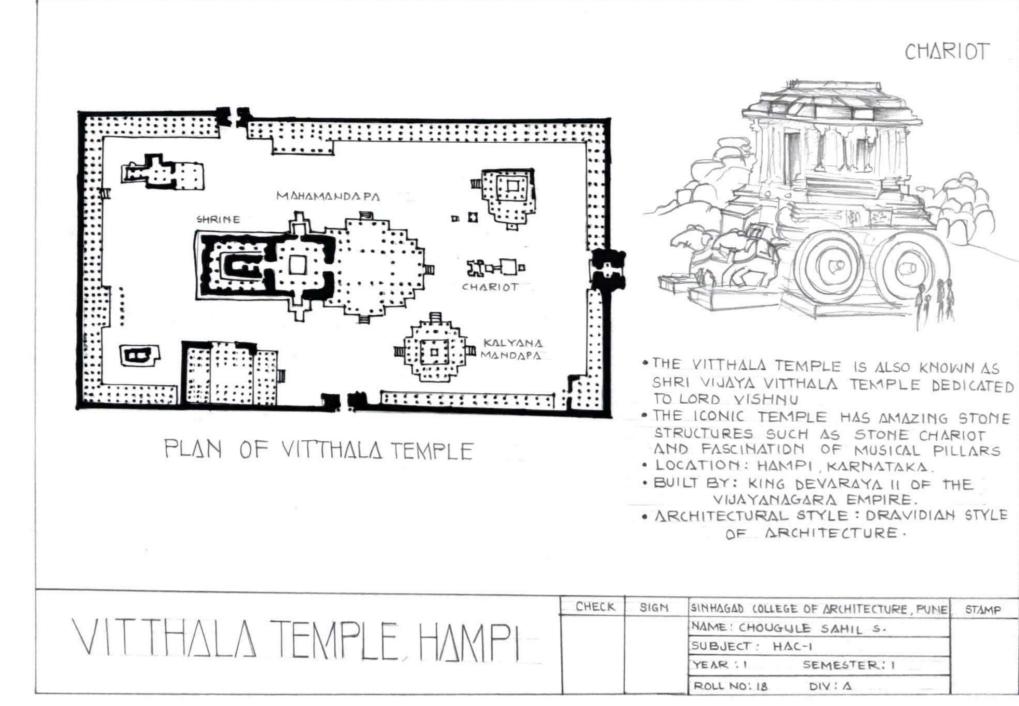


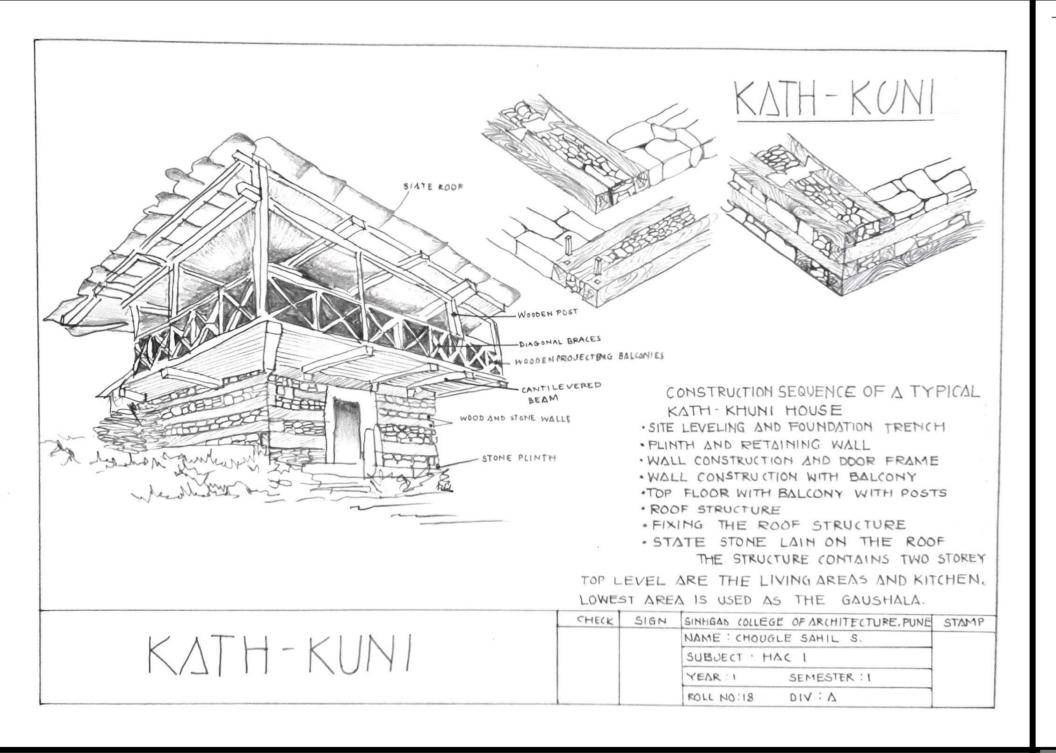
Student Name – Ajinkya Gend Faculty Name – Indrayani Dasare , Niketa Patil

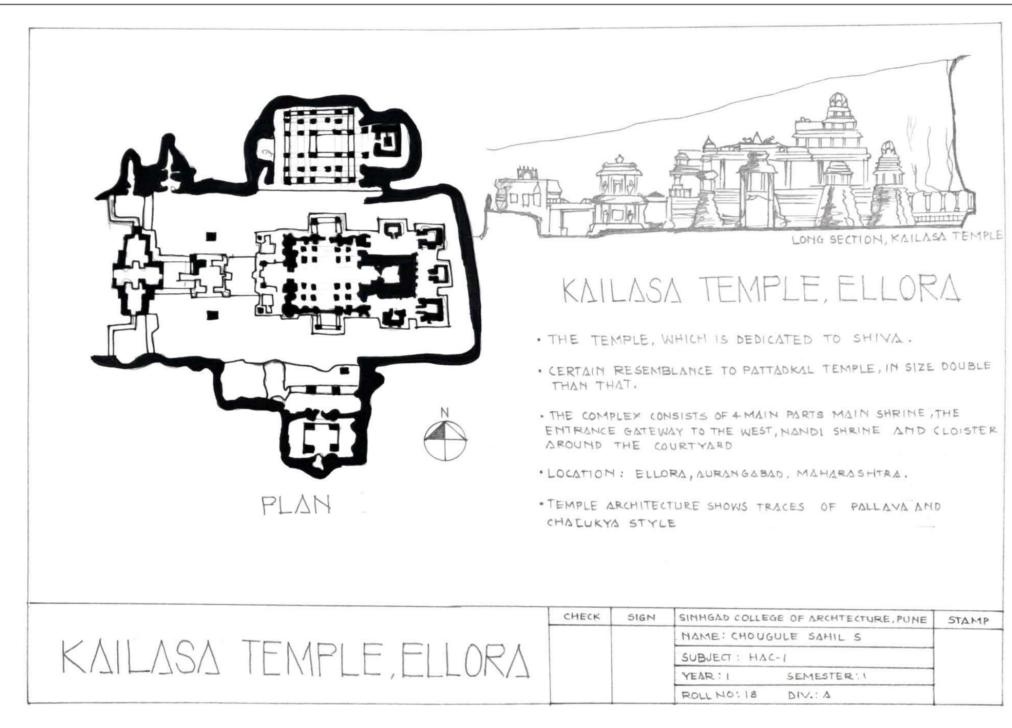
> 1st Year B.Arch 2021-2022 BCM II

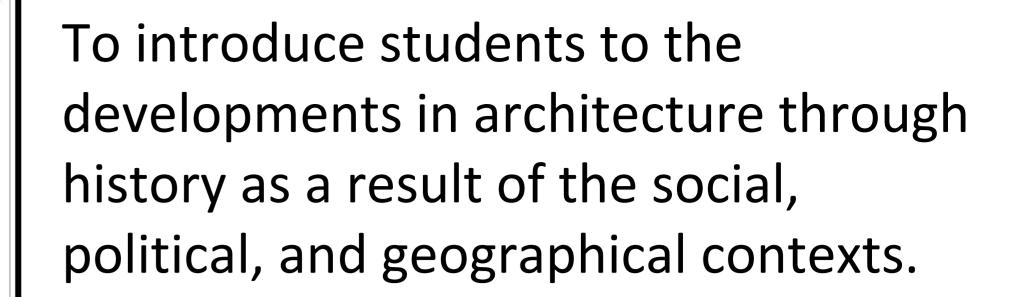
TIMBER TRUSS





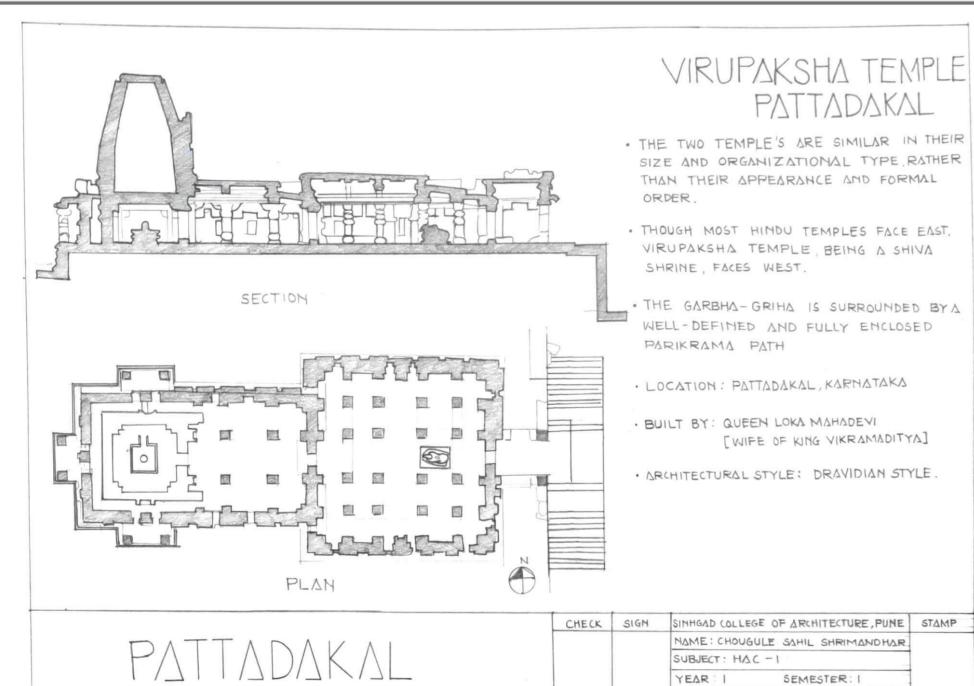




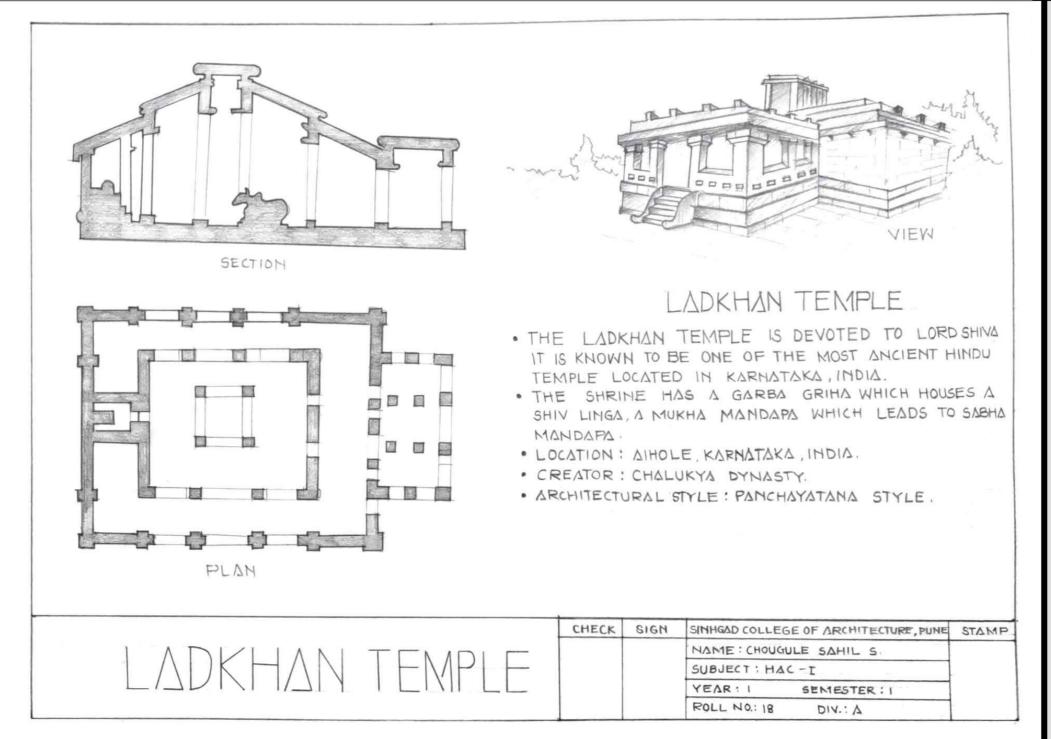


- 2. To introduce students to the developments in architecture and its meaning, in the Indian sub-continent until 12th century AD with reference to development of typologies, forms, building techniques and features.
- 3. To gain an integrated understanding of settlements, landscape, and architecture as a manifestation of culture and geography.

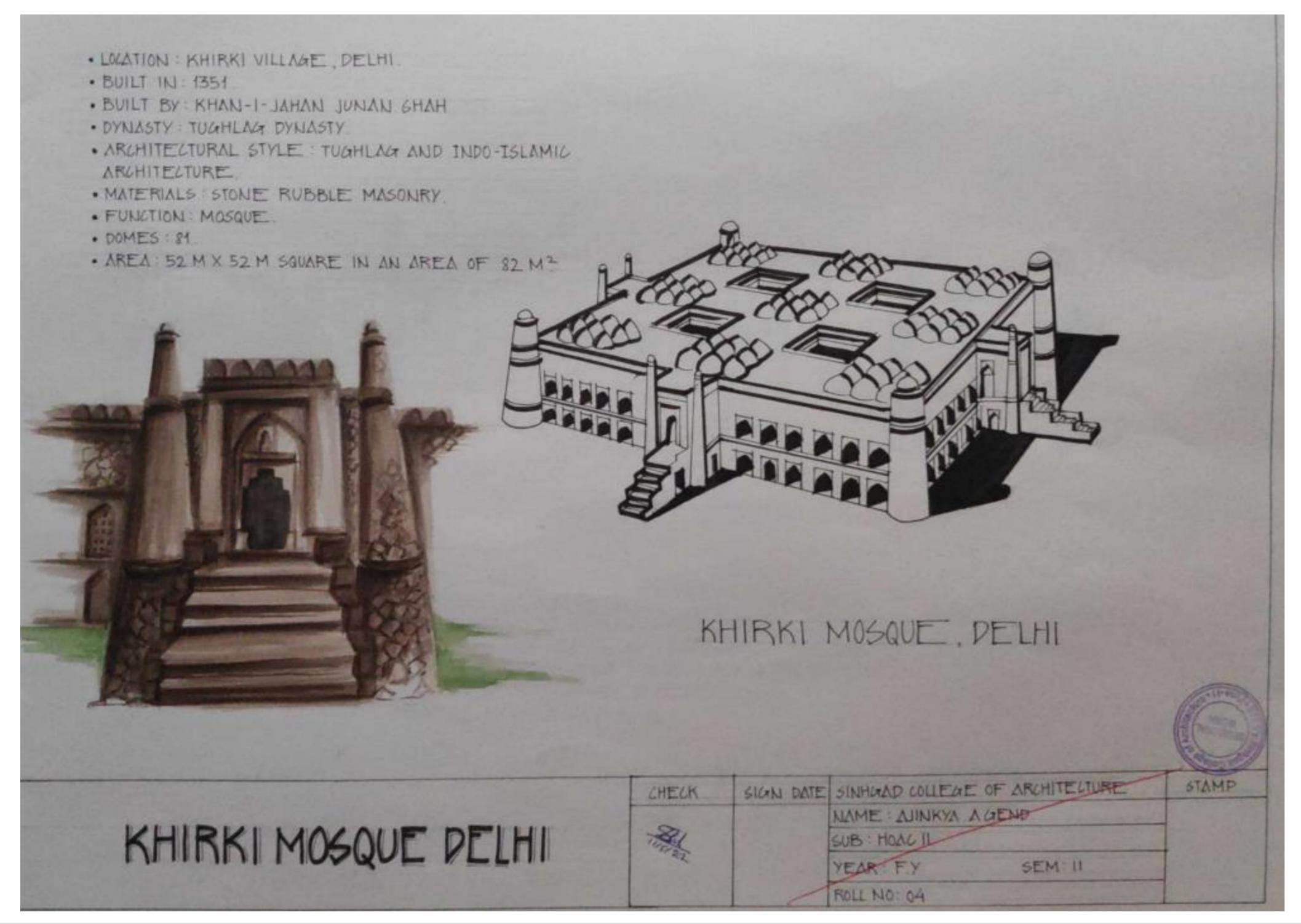
Student: Sahil Chougule Faculty: Ar. Avani Topkar



ROLL NO: 18



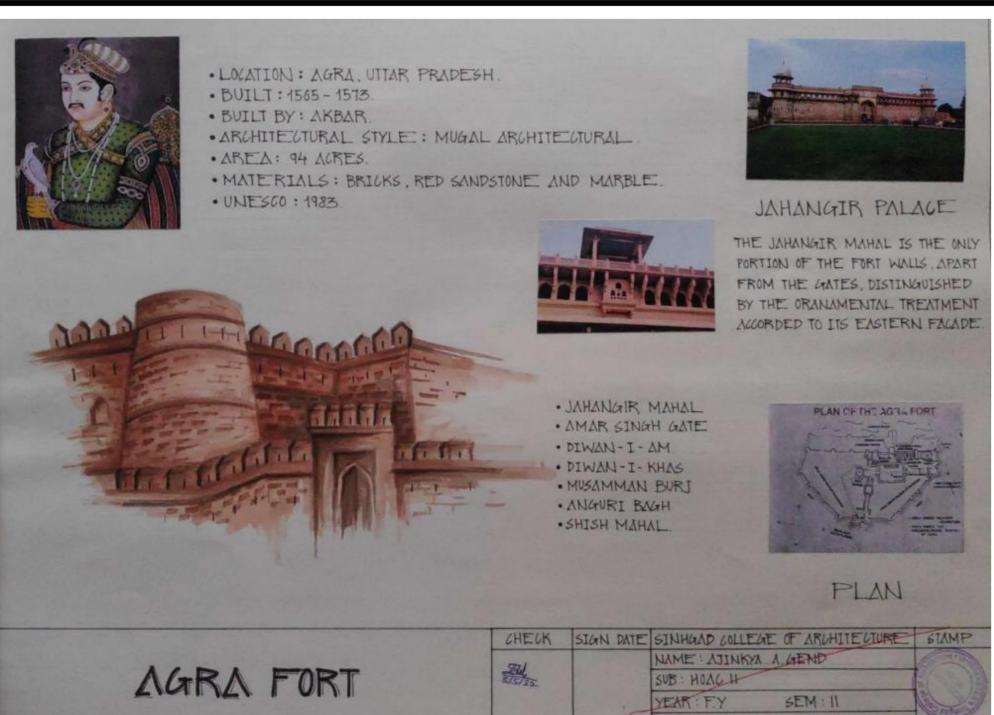
1st Year B.Arch 2021-2022 History of Architecture and Culture I

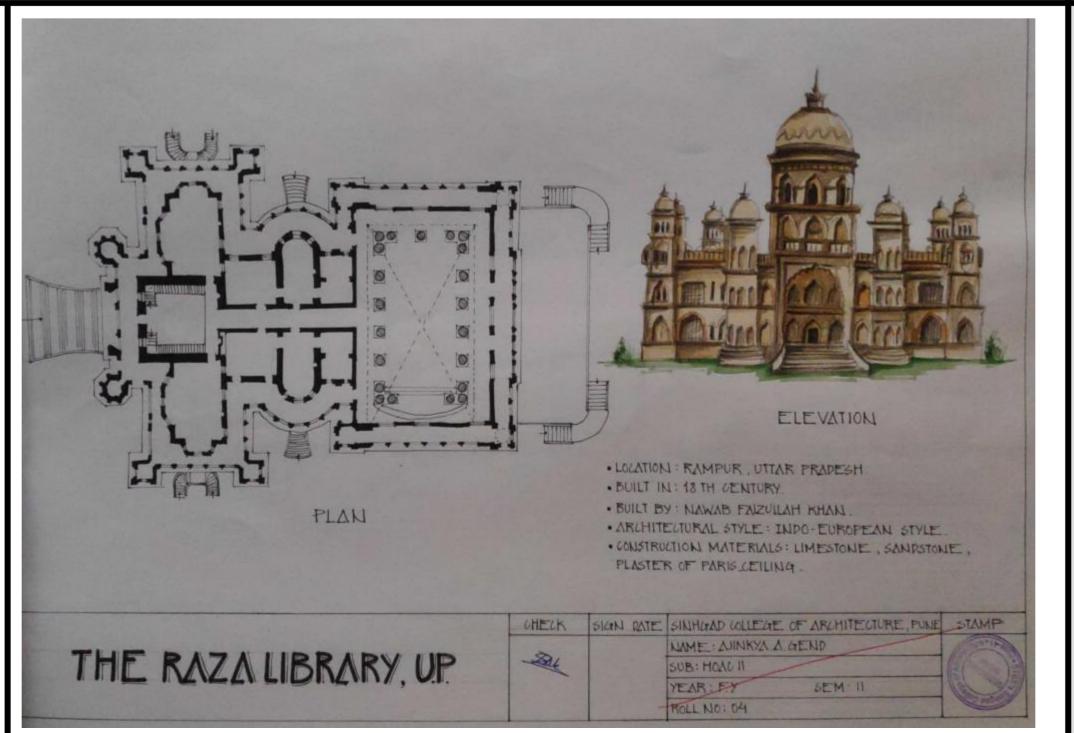


To introduce students to the developments in architecture of the Indian sub-continent after 12th century AD as a result of the social, political, and geographical contexts.

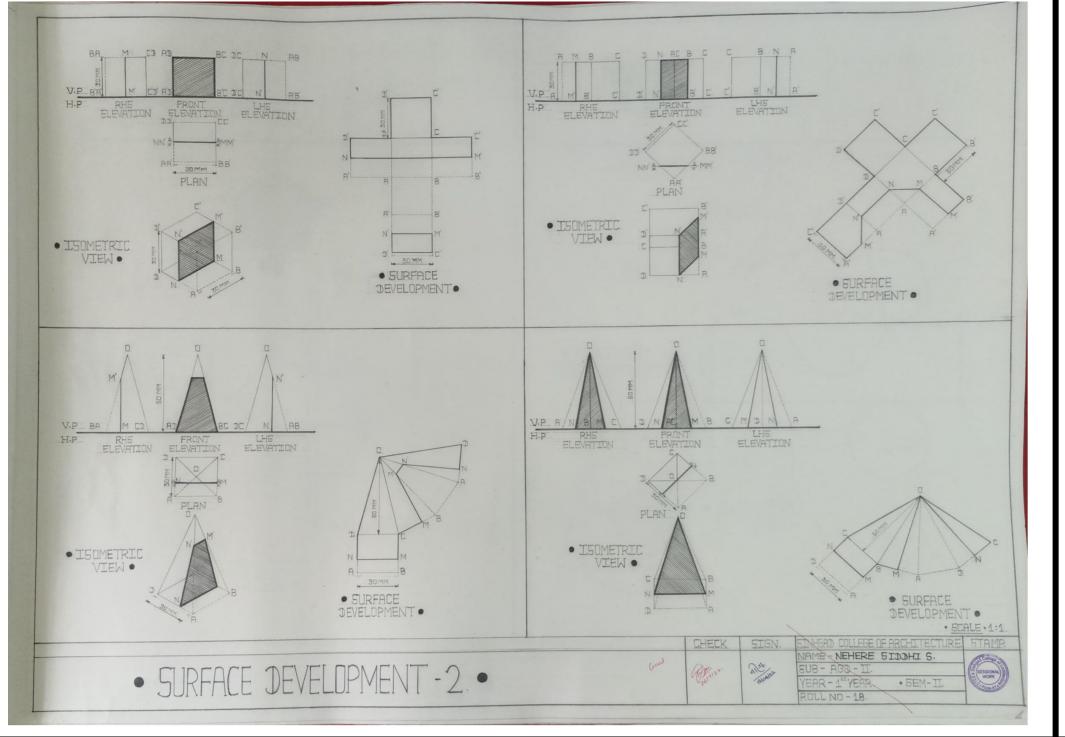
- 2. To study the development of architecture with specific reference to form, technology, and ornament.
- 3. To gain an integrated understanding of settlements, landscape, and architecture as a manifestation of culture.

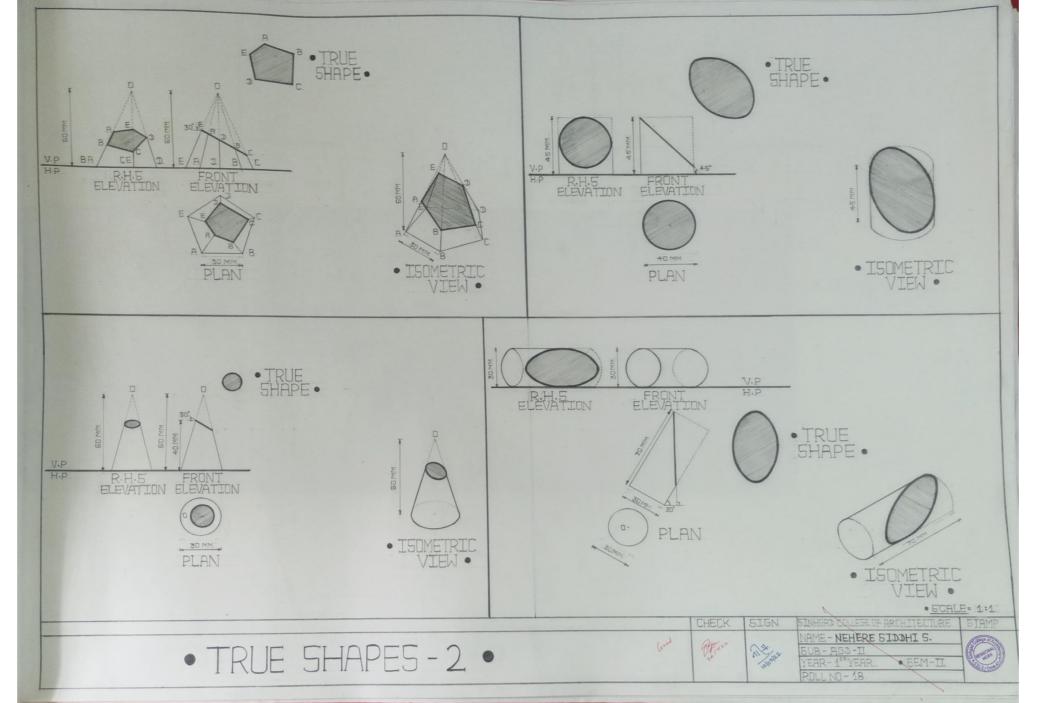
Student: Ajinkya Gend Faculty:. Ar.lla Shende



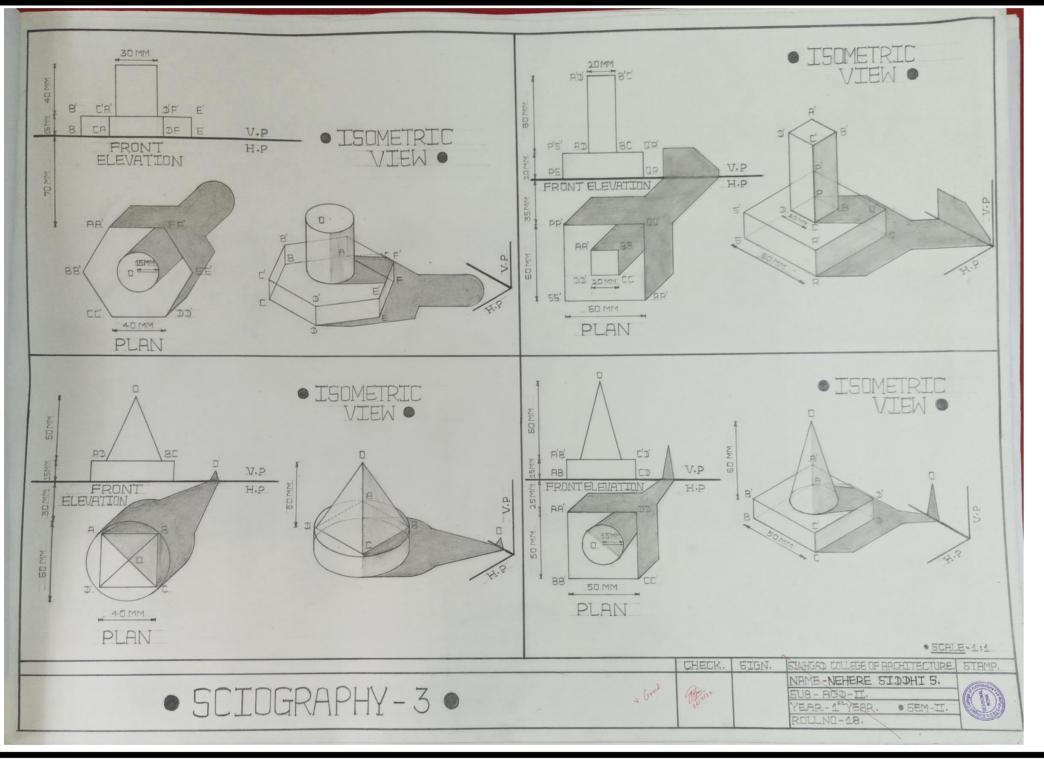


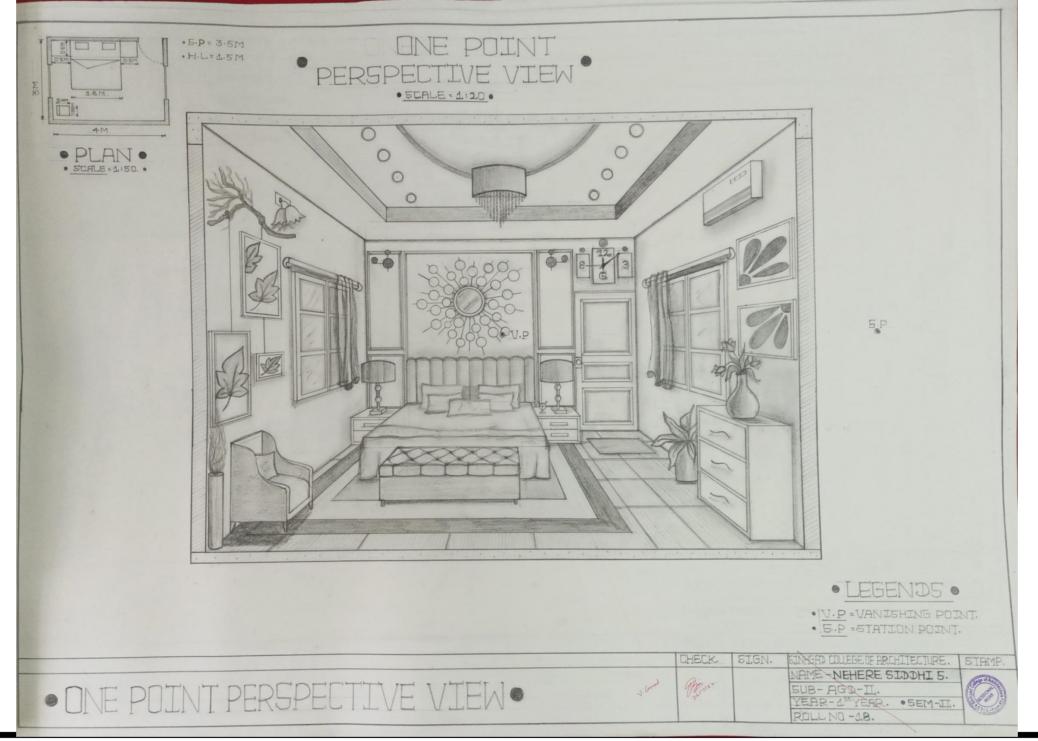
1st Year B.Arch 2021-2022 History of Architecture and Culture II



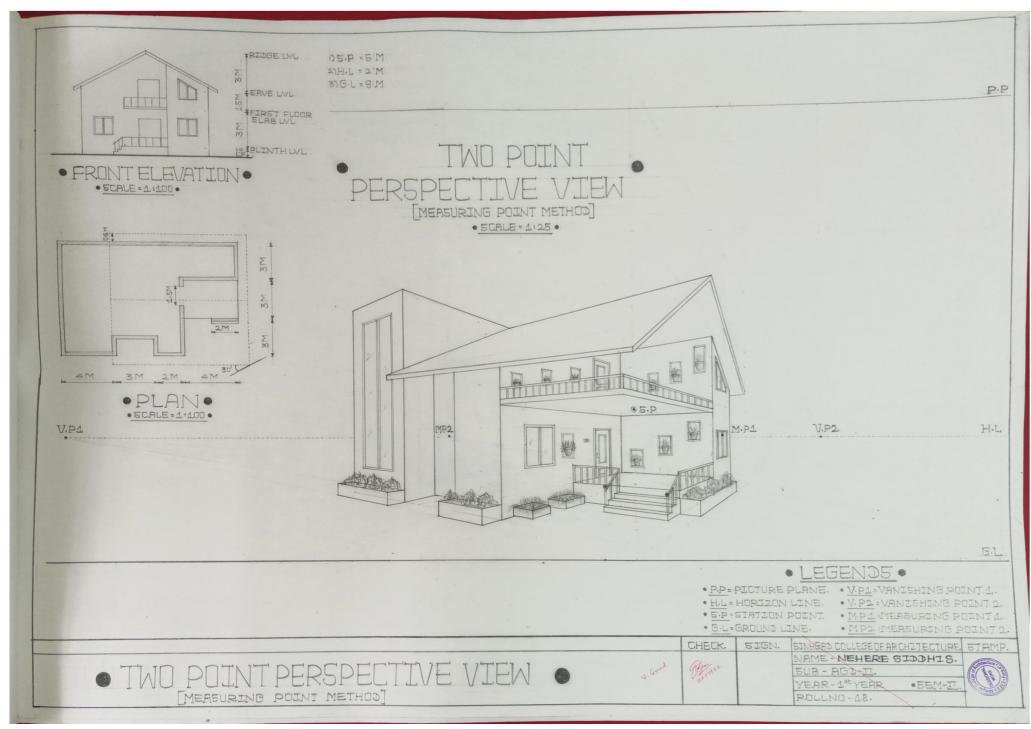


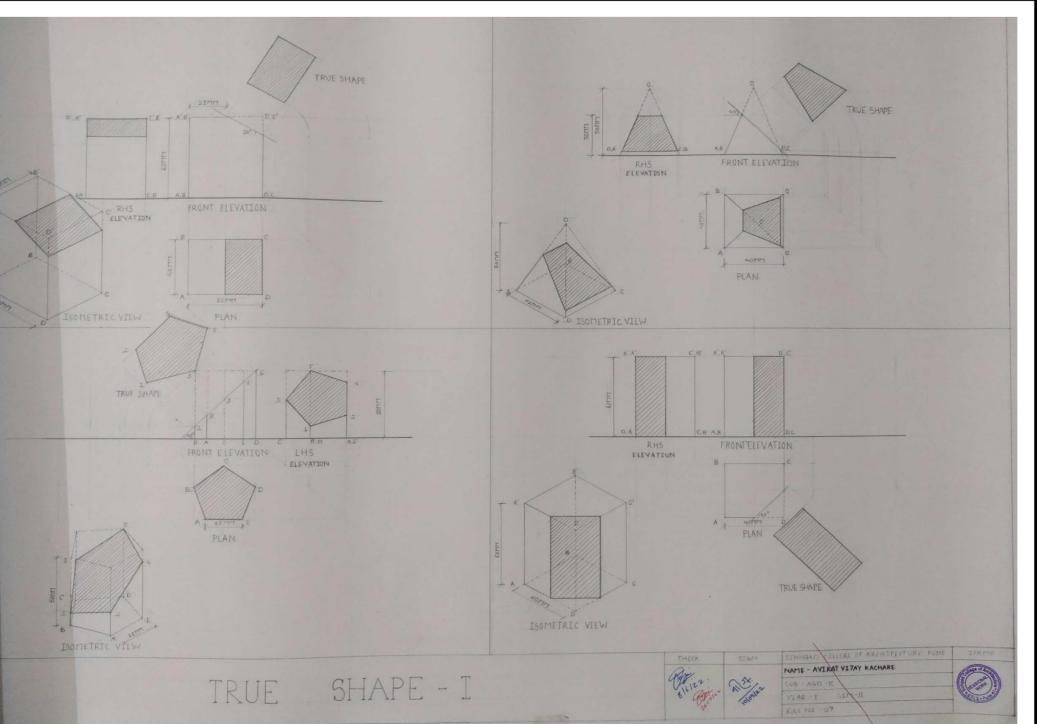
- -Surface Development of Cut Objects
- True Shapes of Circular Objects
- Sciography of Complex Objects
- Perspective View of Interior of a room
- Perspective View of Exterior of a Bungalow
- True shapes of Objects





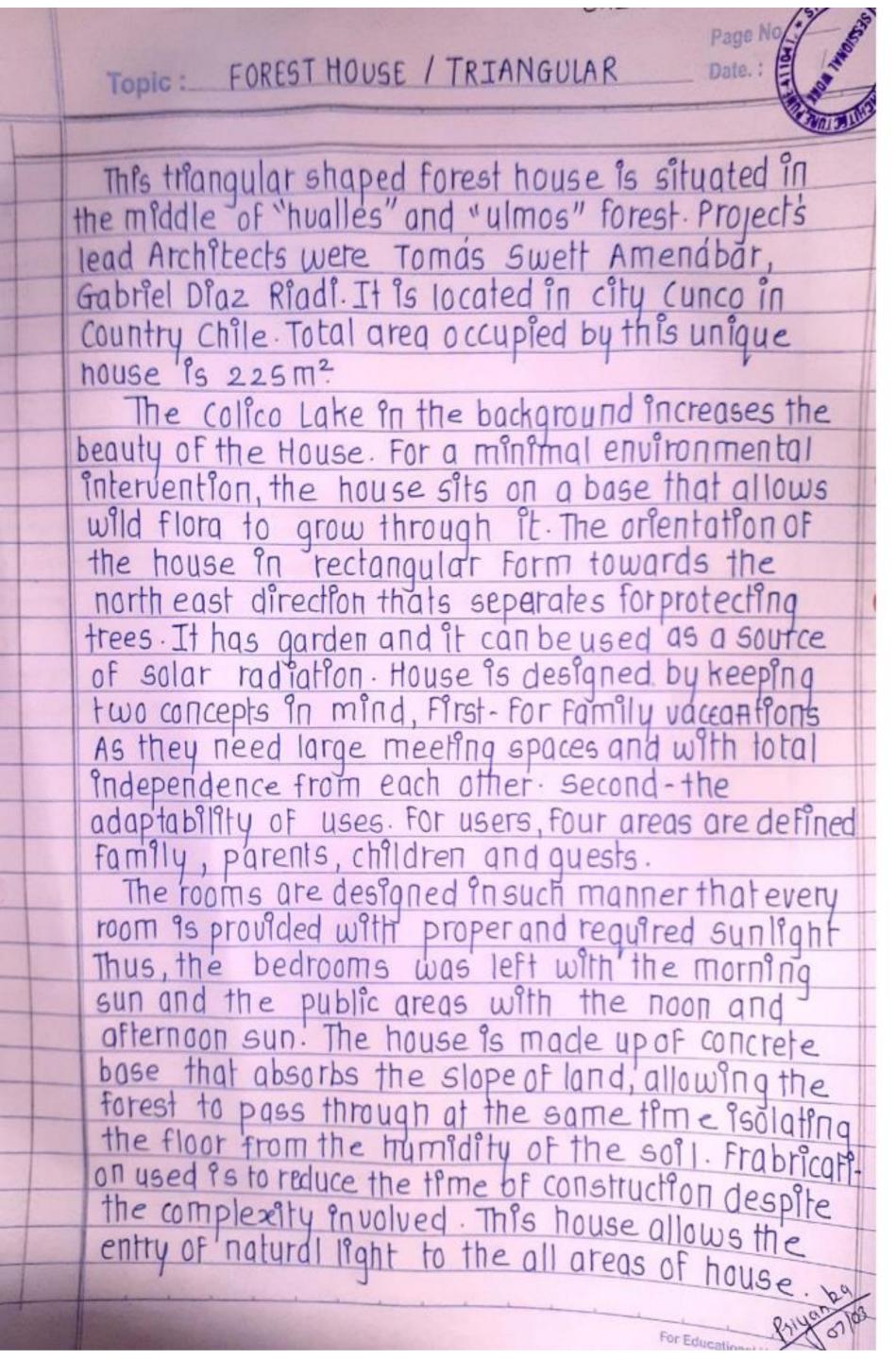
Student: Siddhi Nehere, Avirat Kachare Faculty: Ar. Tejas Joshi, Ar. Neeraj Nijampurkar, Ar. Karuna Ghorpade

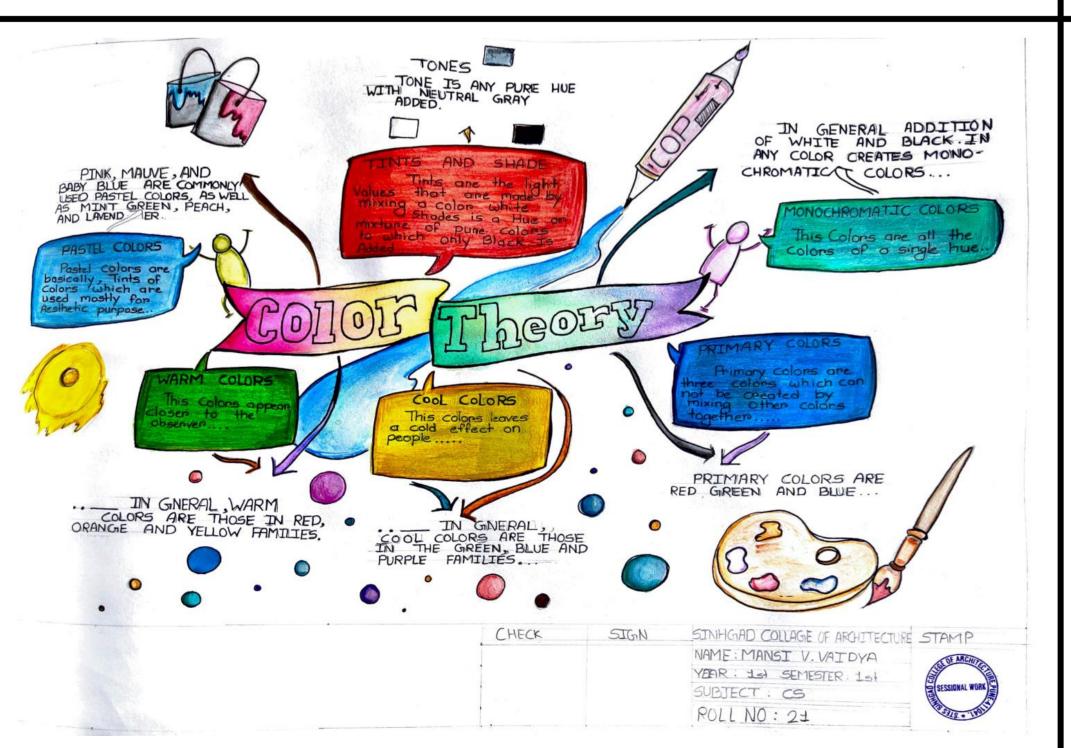


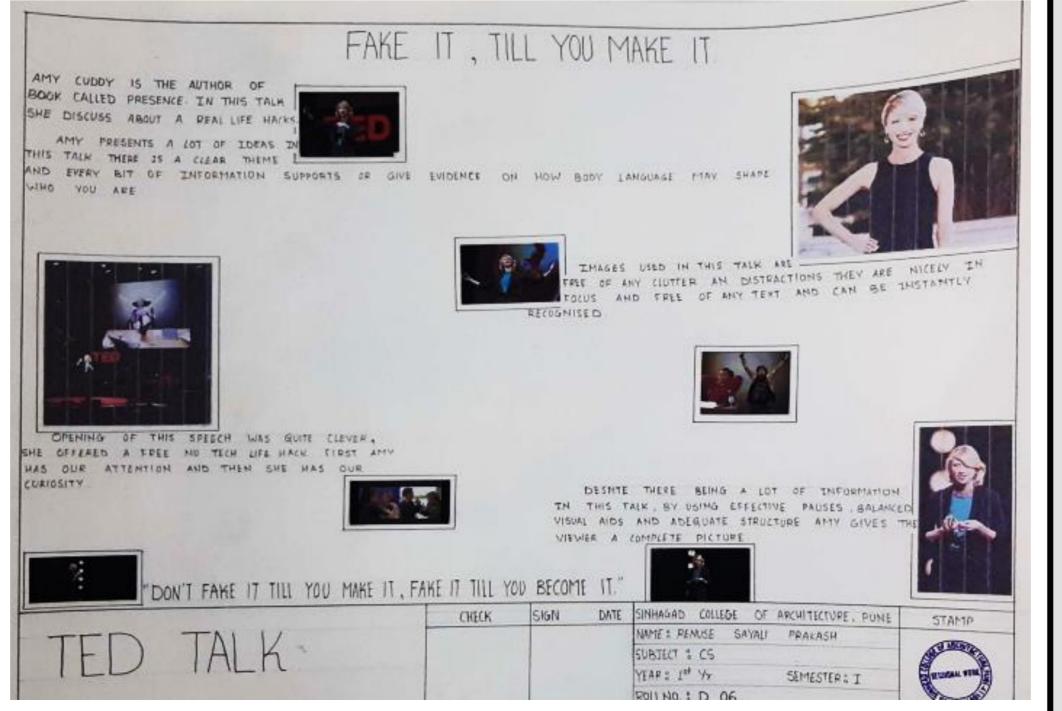


1st Year B.Arch 2021-2022 Architectural Graphics & Drawings-II









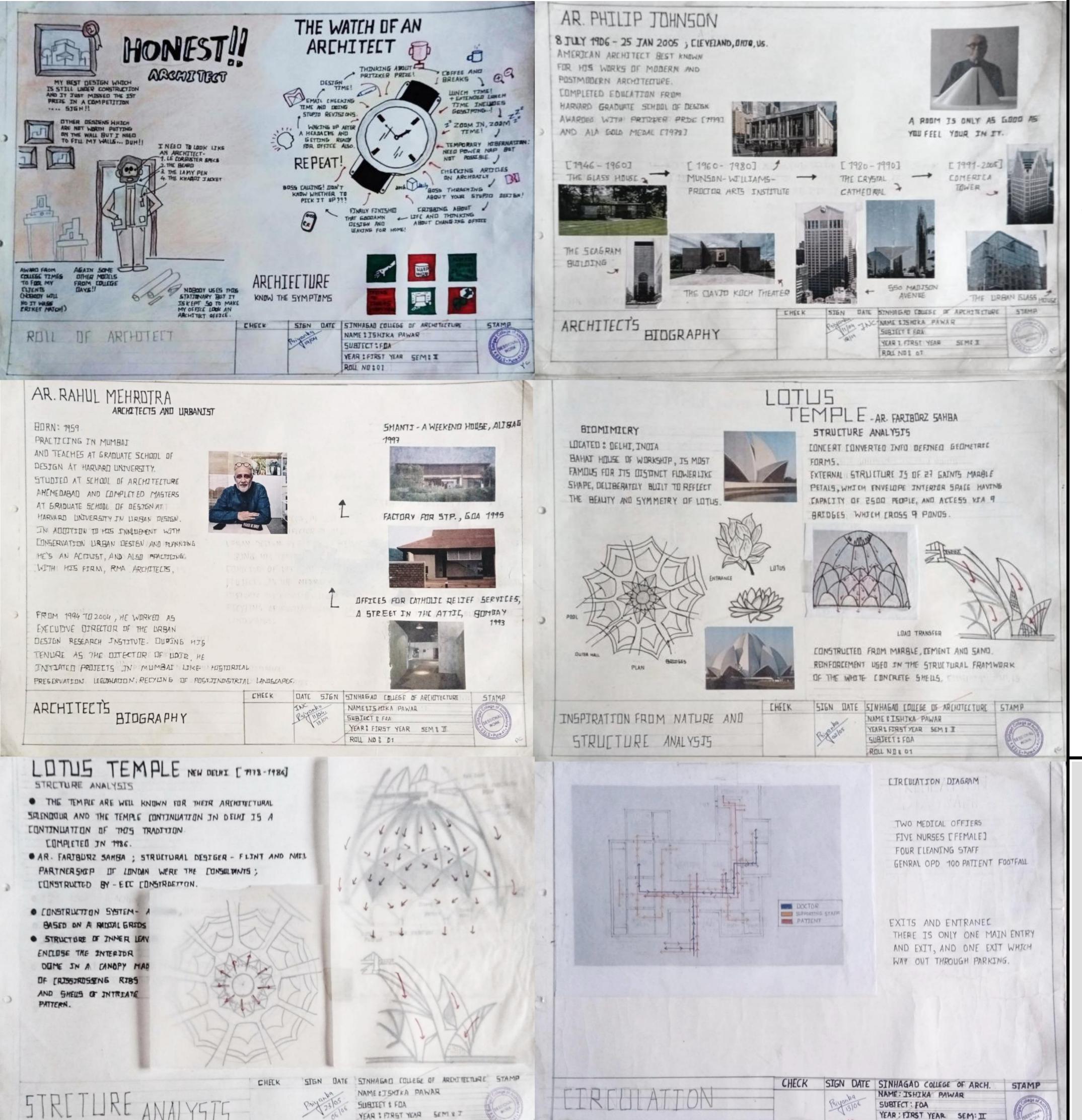


Student: Sayali Renuse, Aditya Wadkar,

Mansi Vaidya

Faculty: Ar. Priyanka Chavan

1st Year B.Arch 2021-2022 Communication Skills



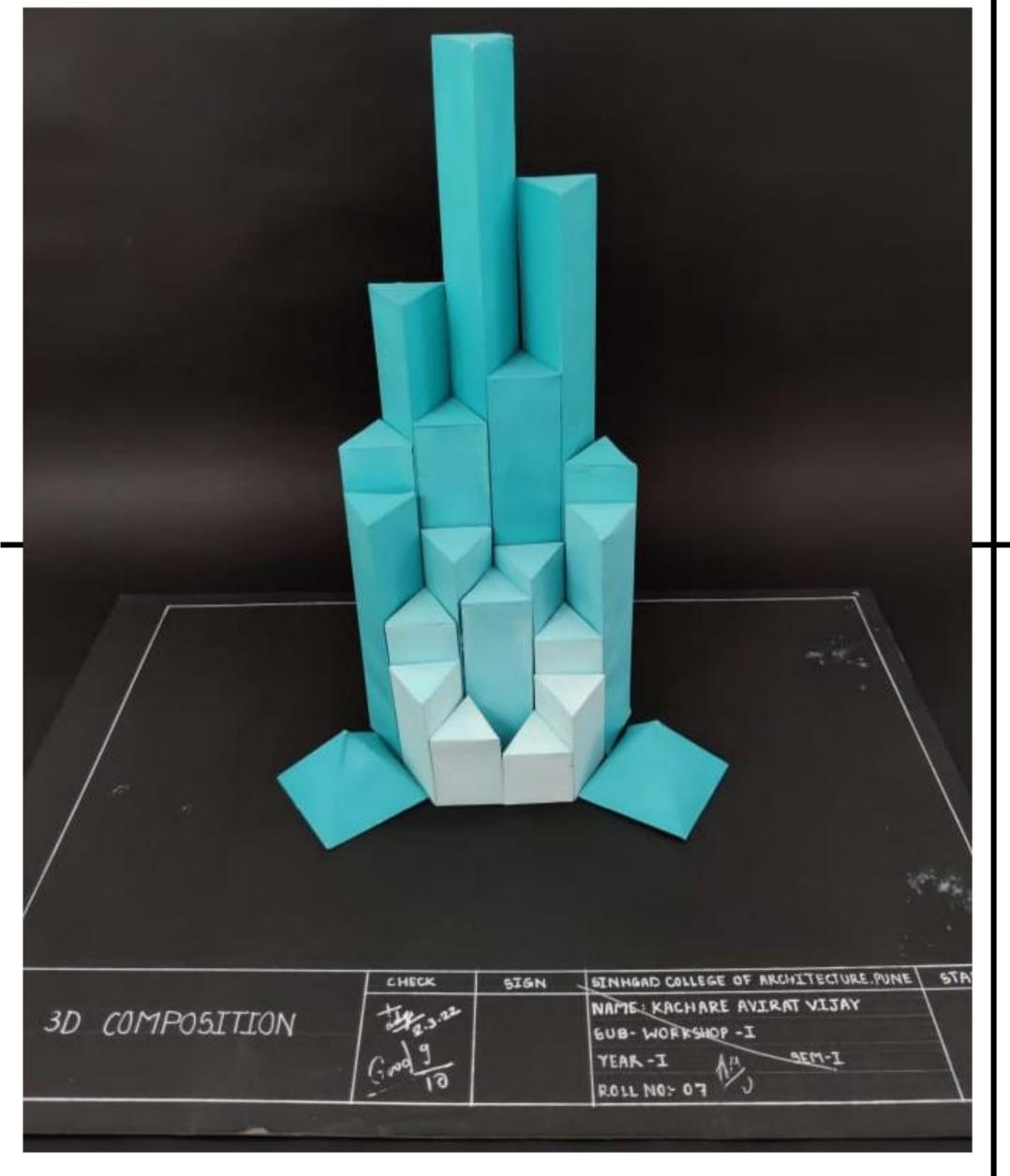
Objective of the course is to introduce students to the field of architecture, its scope and fundamentals.

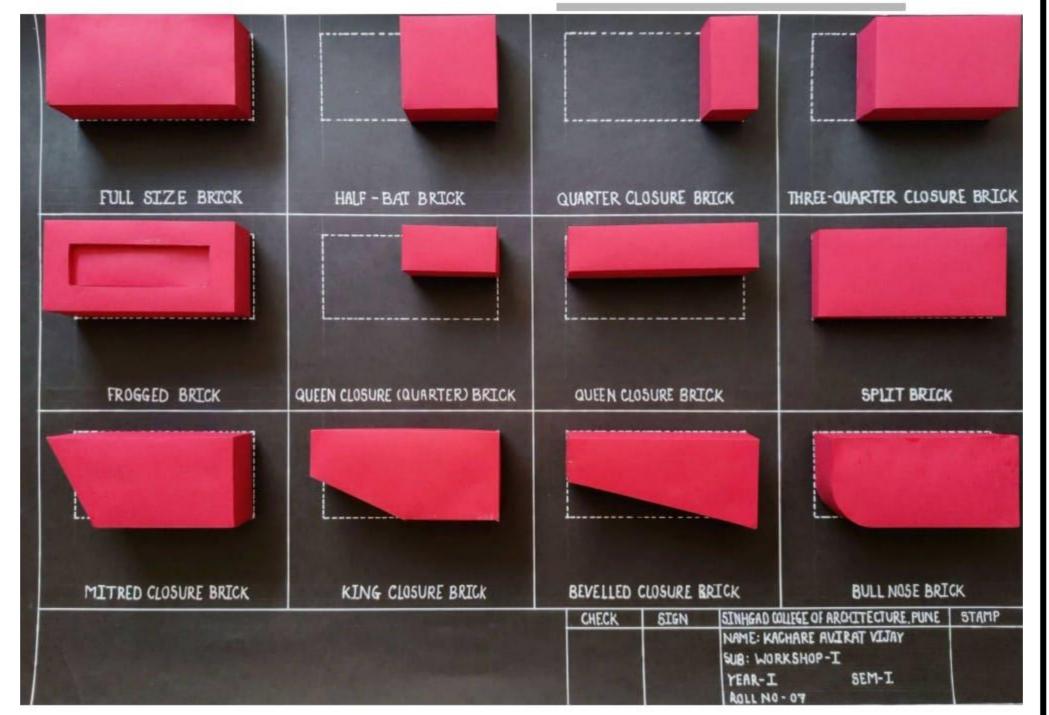
The assignments are designed to make students understand the distinguishing characteristics of architecture as a profession with respect to other professions. Scope and fundamentals of architecture along with factors affecting architectural design and significance of subjects in curriculum.

Student: Ishika Pawar

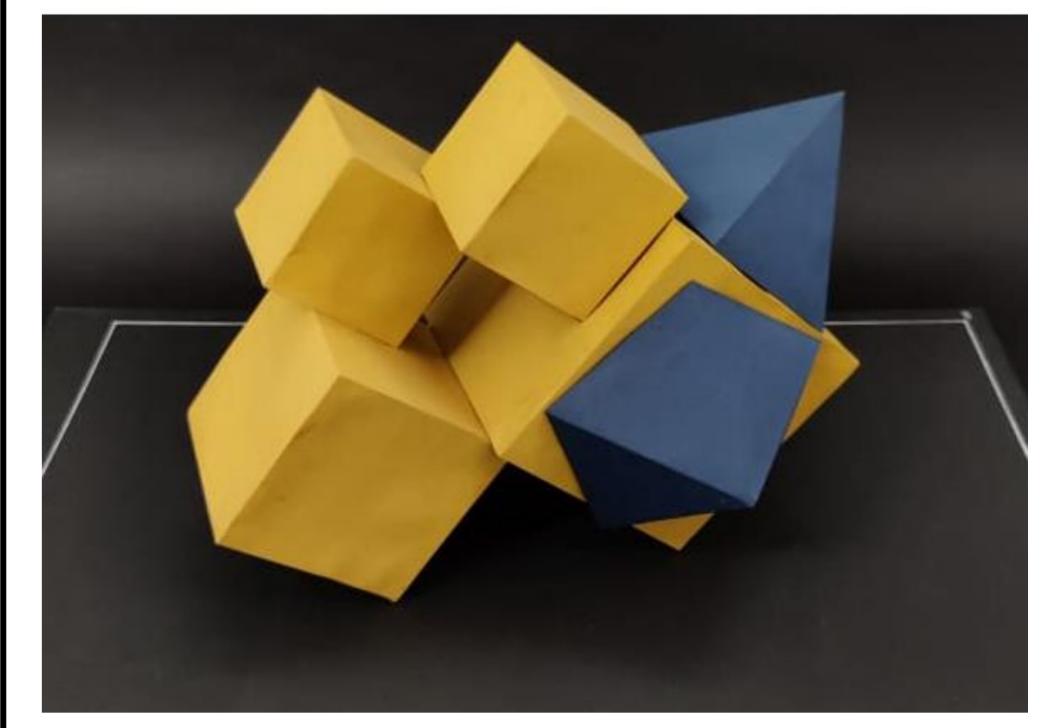
Faculty: Ar. Priyanka Chavan

1st Year B.Arch 2021-2022 Fundamentals of Architecture





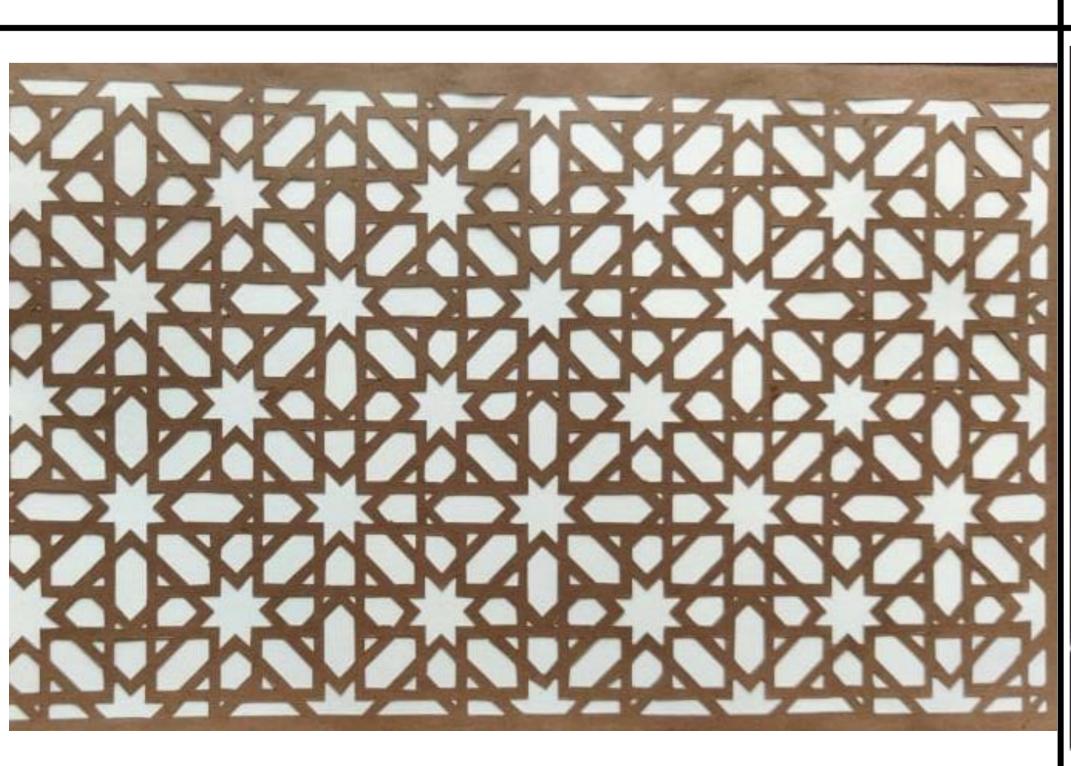


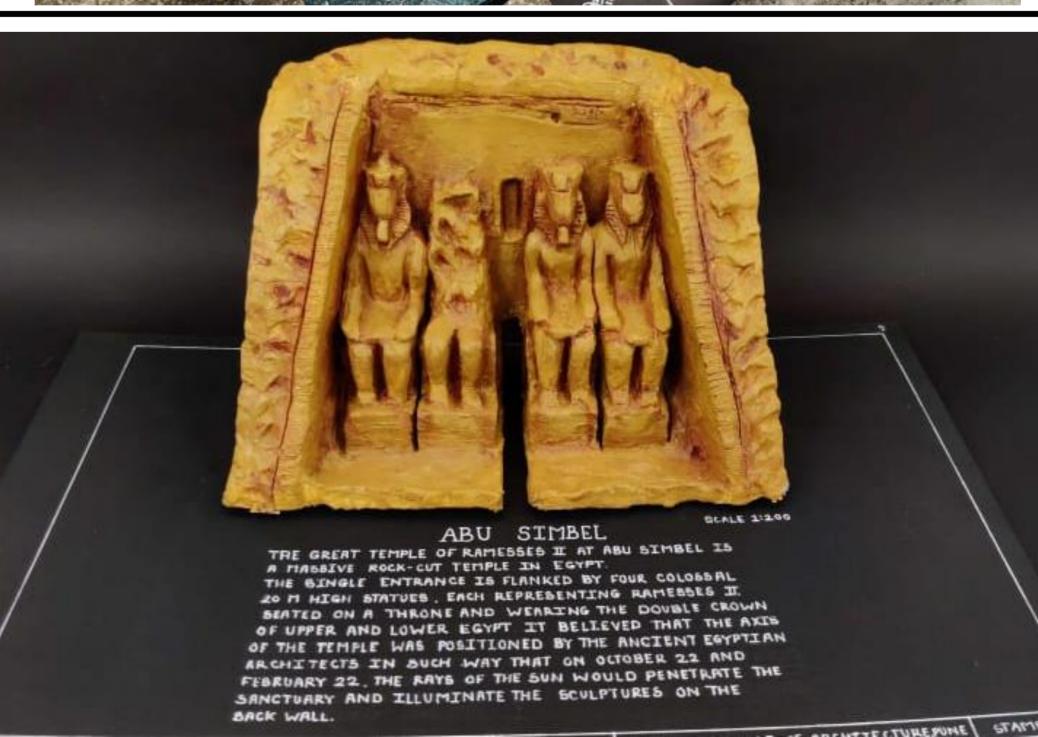


Student: Avirat Kachare

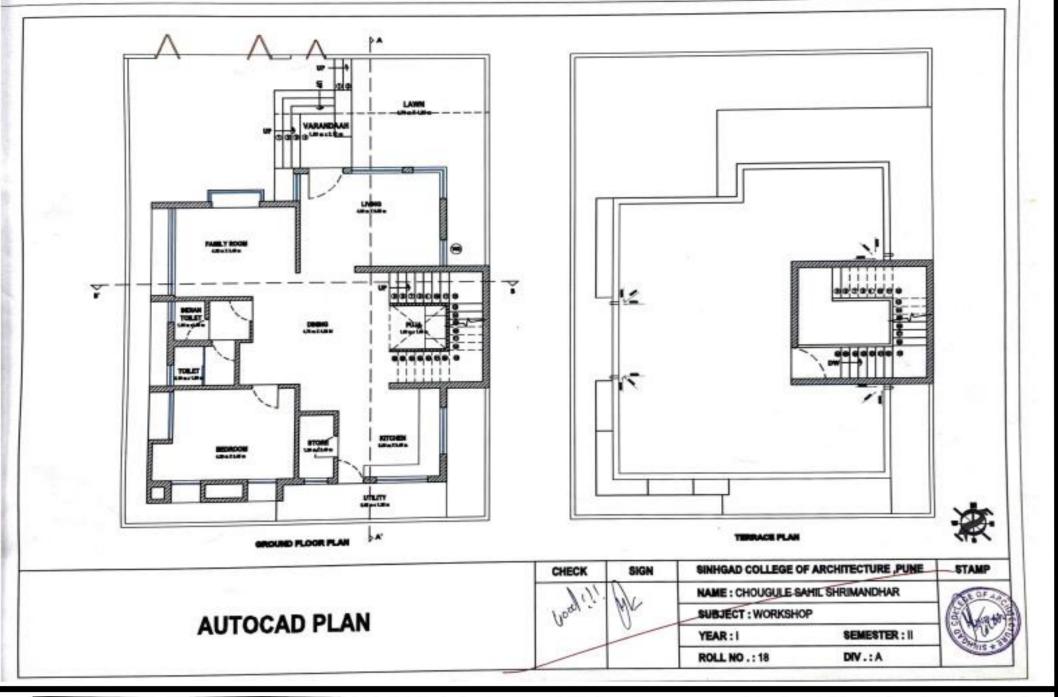
Faculty: Ar. Karuna Ghorpade, Ar. Janhnvi

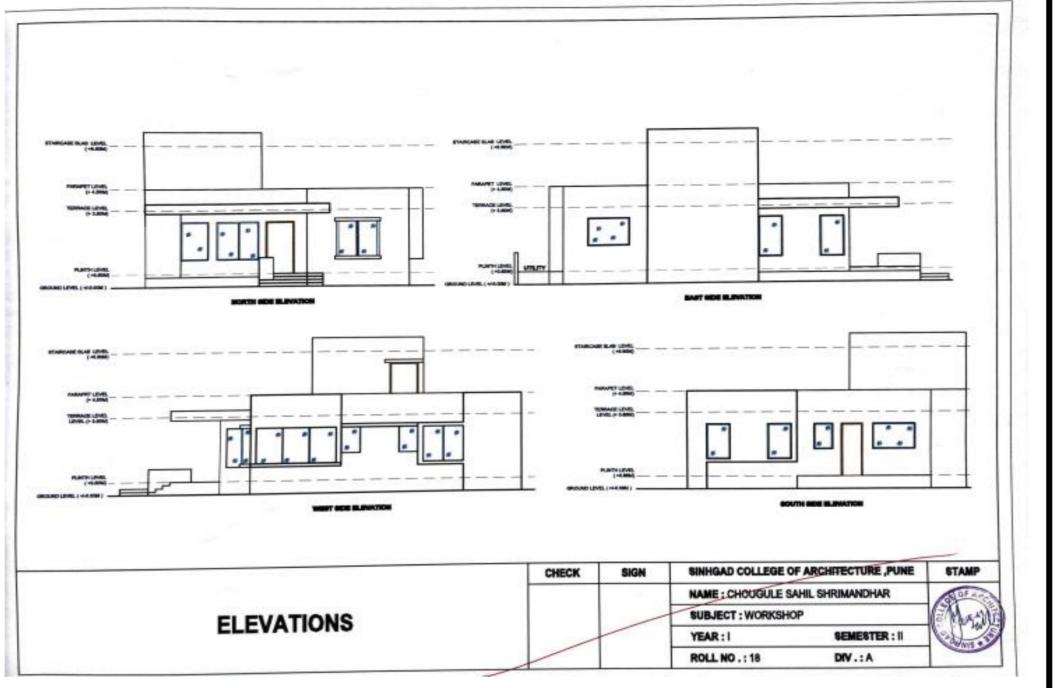
Dhage



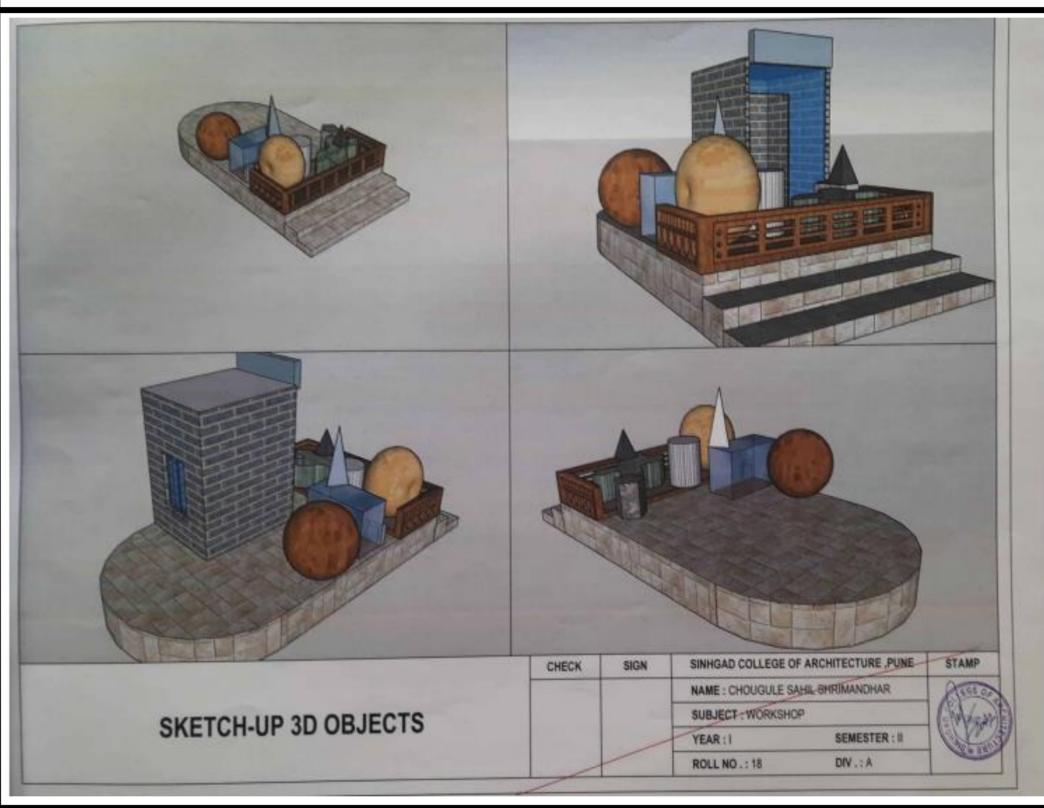


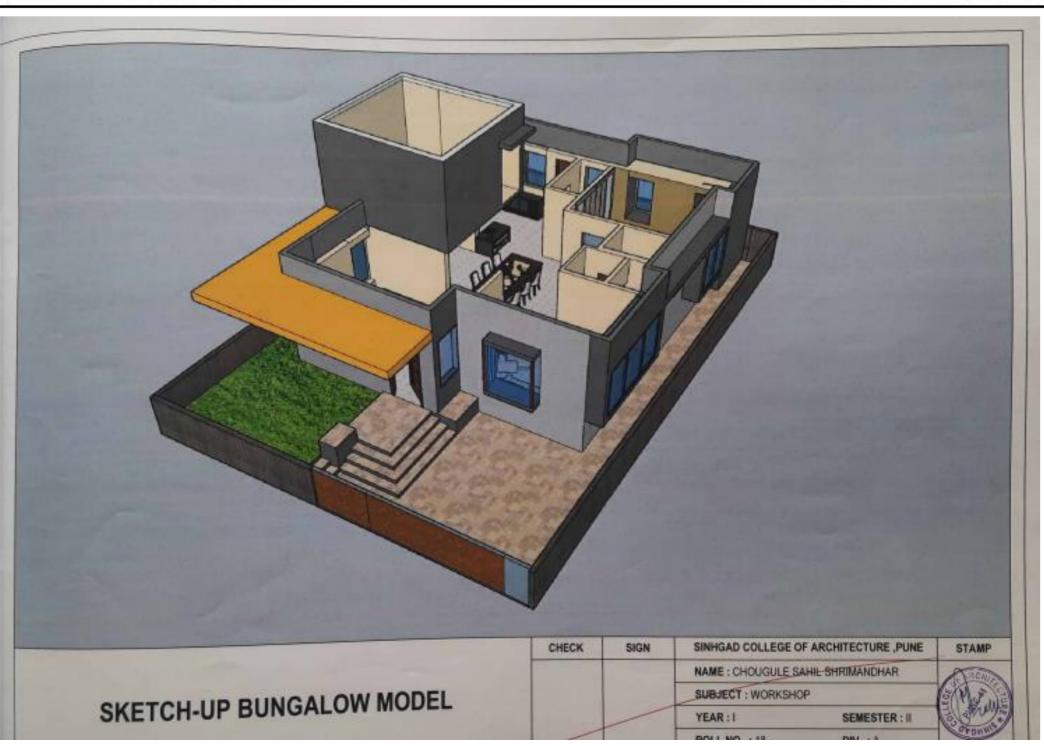
1st Year B.Arch 2021-2022 Workshop I

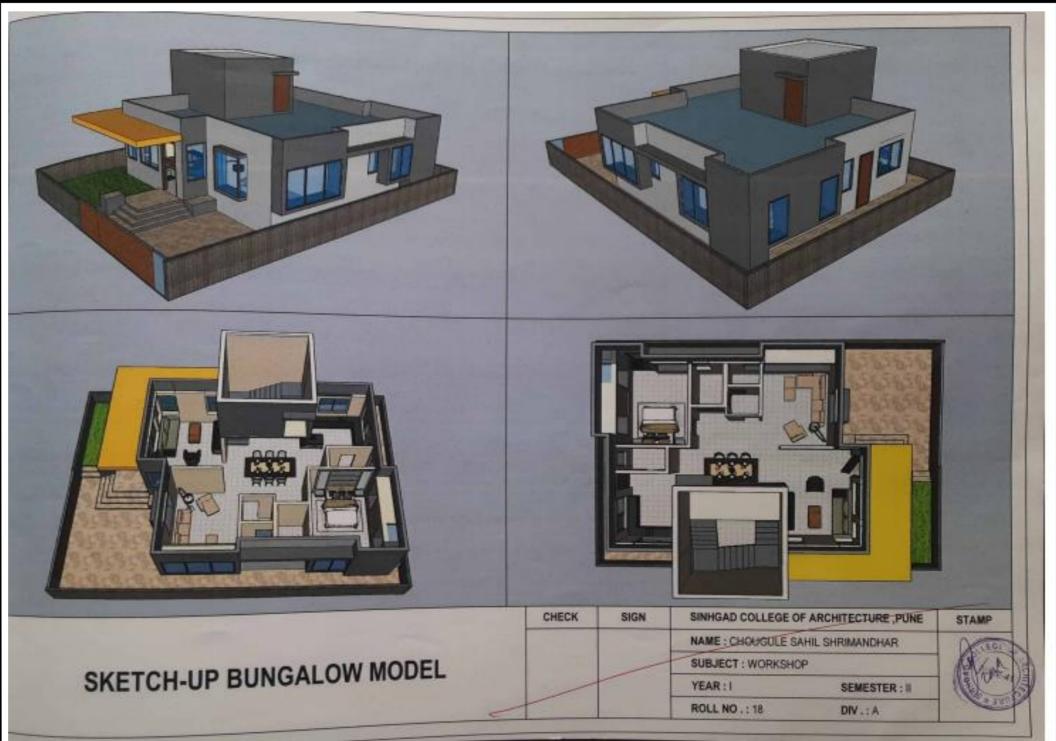




THRUCK EAS JOB. WHO I HAVE AND THRUCK THRU THRUCK THRUCK







Objectives:

To enable students to make
Architectural models with various
materials during process of Design and
Construction studios and as final
presentation to express ideas

Introduction to Digital modeling with basic software's.

Student: Sahil Chougule

Faculty: Ar. Manasi Khope, Ar. Akshay P.

1st Year B.Arch 2021-2022 Workshop - II

AUTOCAD/SKETCHUP

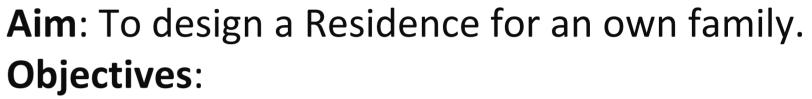
CONCEPT DESIGN WHATMAN POWER ON NOTIFIED ON NOT HE ACCESS TO PLACE ON

PROJECT DETAILS

Sr.no.	Space	Units	Area (sq.m)
2	Formal Living Room	1	20
3	Informal Living Room	1	30
4	Kitchen	1	20
5	Dinning	1	20
6	Utility	1	15
7	Store Room	1	10
8	Prayer Room	1	7
9	Master Bedroom	1	20
10	Master Toilet	1	10
11	Children Bedroom	1	15
12	Grand Parents' Bedroom	1	20
13	Grand Parents' Attached Toilet	1	7
14	Guest Bedroom	1	15
15	Common Toilet	1	7
16	Powder Room	1	4
17	Servants Room With Toilet	1	20
18	Individual Requirement	1	25
19	Garage (2 Two Wheelers & 2 Cars)	1	50
20	Security Cabin	1	3
	Total area		325
21	Built up area	15 %	48.75
22	Circulation Space	15%	48.75
	Total area		422
	Additional Outdoor Spaces:		
23	Swimming Pool, Party Area, Barbeque		
	Area, Watchman's Cabin, Visitors parking		1

Location: Mulshi lake area

Plot area: 1072.50sq.m
The location is best
suited to have a family
holiday residence for
people, as it has been
a tourist attraction
since years.



- 1. To be able to zone the activities in and out of a residence, create appropriate circulation in a residence by planning spaces accordingly to scales and levels, understand the macro and micro climate for the site and respond to it.
- 2. To comprehend relationship between design, visual arts, building construction, climatology, building materials, structure etc. and evolve a design solution.

Student: Yatish Chaudhari

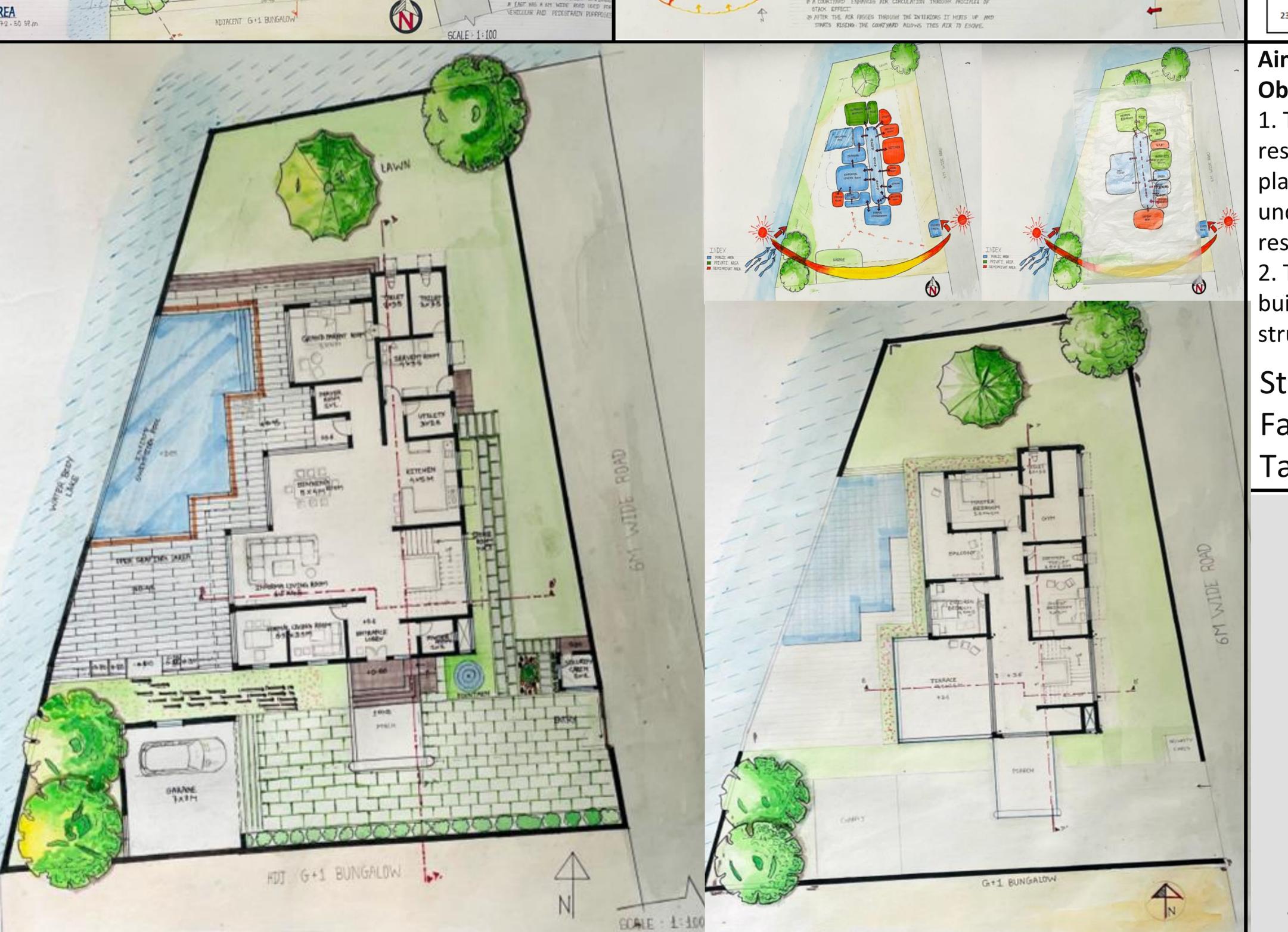
Faculty: Ar. Priyanka Purohit, Ar.

Tanmayee Panse

2nd Year B.Arch 2021-2022 Architectural Design-II

Bungalow Residence at Mulshi (Major Project)

Sinhgad College of Architecture, Pune



SITE ANALYSIS

+10-5 TOP BUTLD LEVEL +1 C TERRACE LEVEL CHECORENTHO +-6-1 LINTEL LEVEL -2 40 FIRST FLOOR, SLAB LEVEL +2.9 LINTL LEVEL T DIS PLINTH LEVEL HOO GROUND LEVEL SECTION B.B' + 10-5 TOP BUTICE LEVEL + 9-6 TERRACE LEVEL +61 LINTEL LEVEL-E-+ 4-0 FIRST FLOOR +2.7 LINTEL LEVEL +1-5 STILL LEVEL 106 PLINT LEVEL +- 00 GROUND LEVEL SECTION - A A' OCALE: 1:100 +7-2 TERRACE + 6.1 LINTEL LEVEL #4-9 STELL LEVEL +4-0 FIRST FLOOR __+2-7 IDITEL LEVEL + 00 PLINT LEVEL +- O-D GROUND LEVEL WEST SIDE ELEVATION + 10.5 TAP BUTTOLEVEL +7-2 TERRACE + 4-0 FIRST FLOOR +2.7 LINTEL LEVEL SECURITY + 1.5 STTLL LEVEL +.0-6 PLINTH LEVEL FRONT SIDE ELEVATION

PROJECT DETAILS



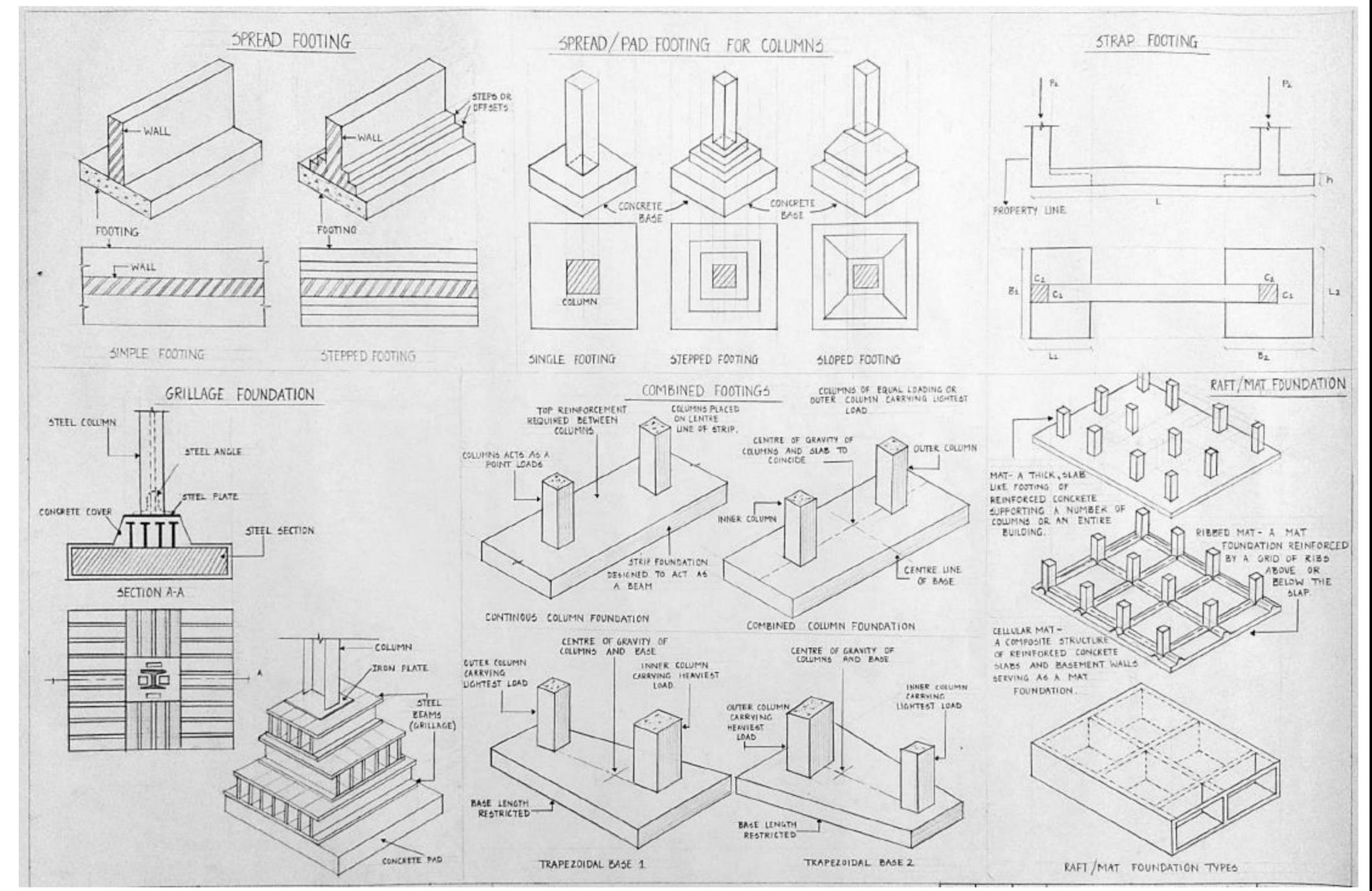
Student: Yatish Chaudhari

Faculty: Ar. Priyanka Purohit, Ar.

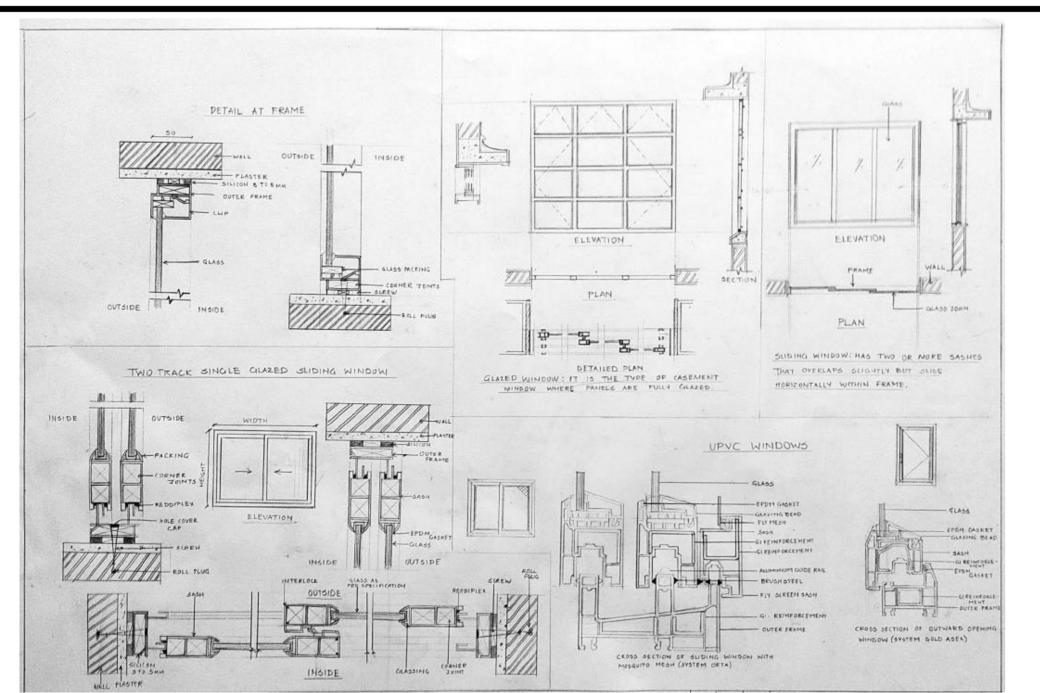
Tanmayee Panse

2nd Year B.Arch 2021-2022 Architectural Design-II

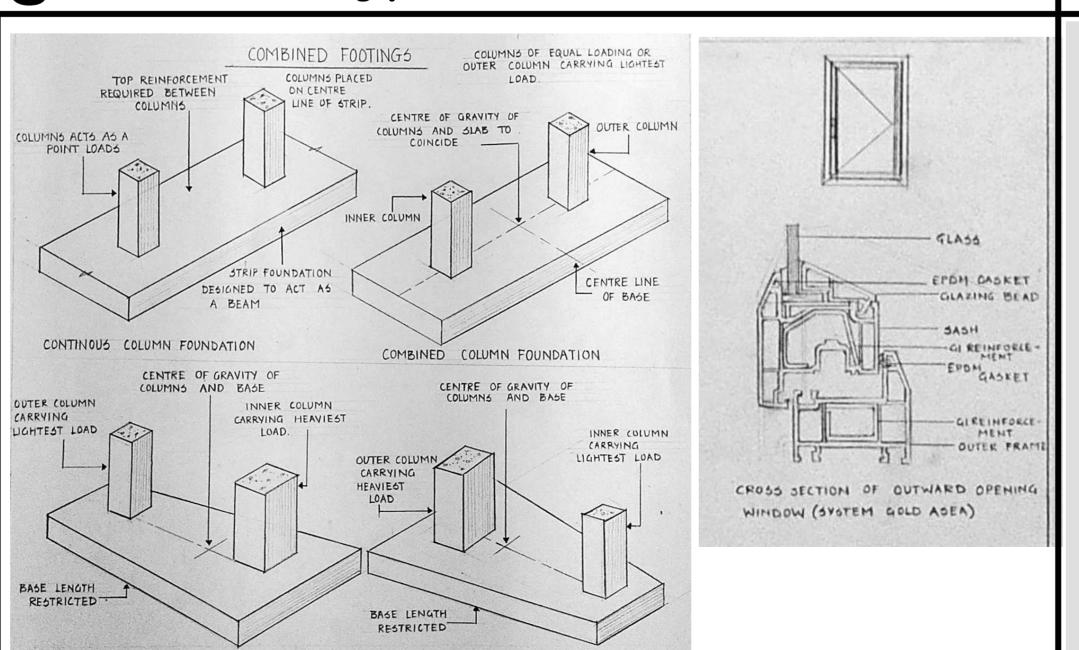
Bungalow Residence at Mulshi (Major Project)



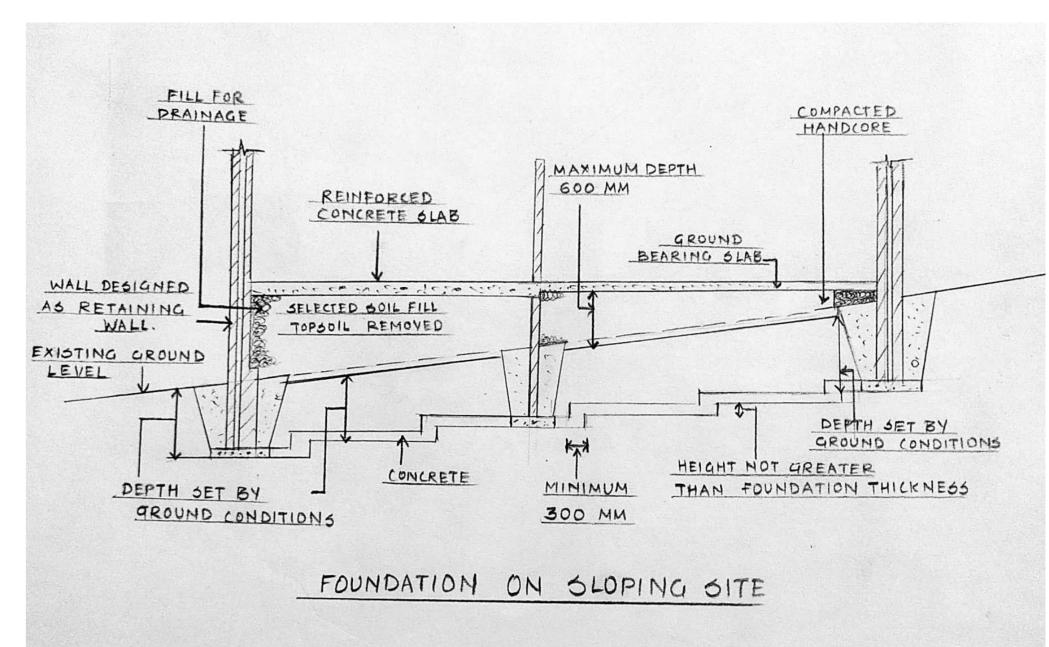
Shallow footing - Various types and uses of each



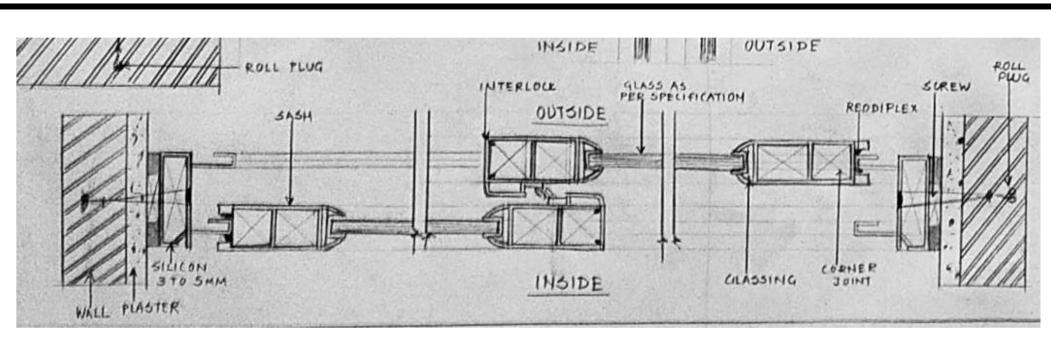
UPVC and Aluminium window



Understanding C.G.



Foundation for sloping site



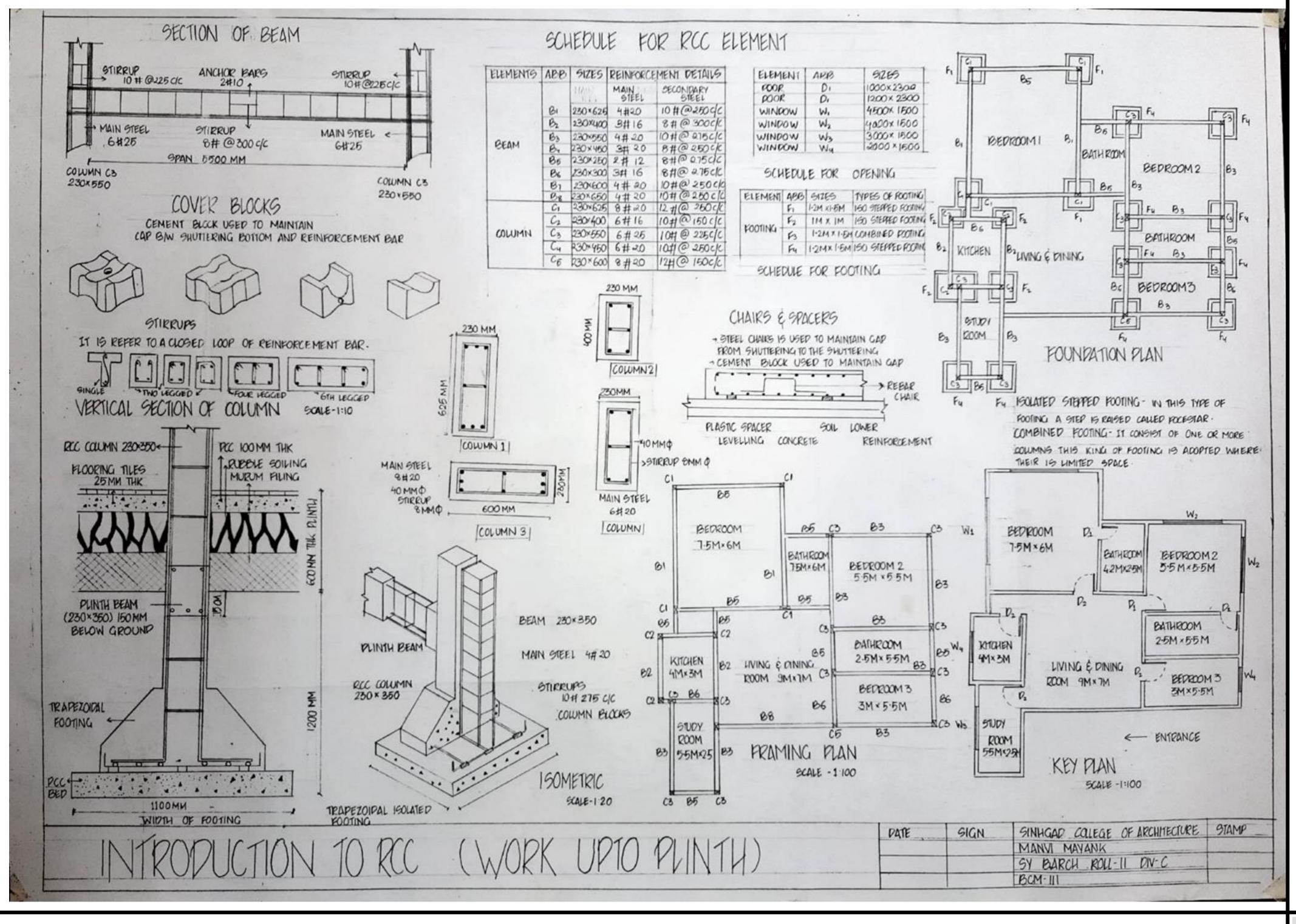
Details of frame for UPVC and Aluminium window

Student: Swarali Kurapatti

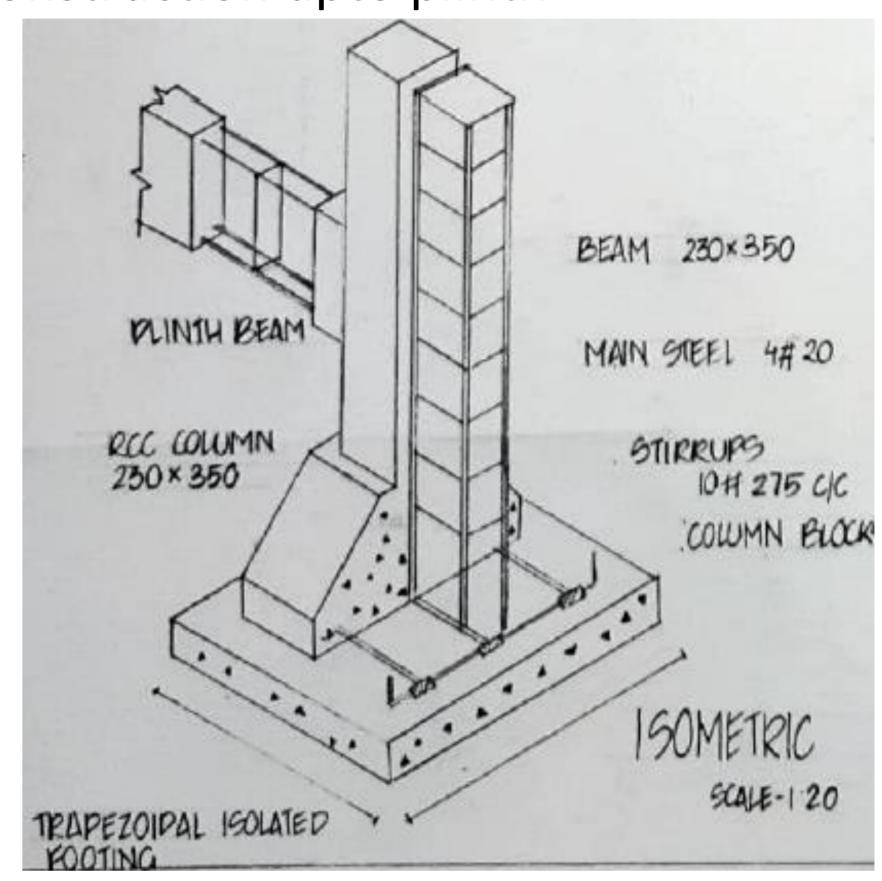
Faculty: Ar. Leena Jain, Ar. Ila Shende

2nd Year B.Arch 2021-2022 BUILDING CONSTRUCTION AND MATERIALS III

Shallow foundation and Non timber windows



Reinforced Cement Concrete Construction upto plinth

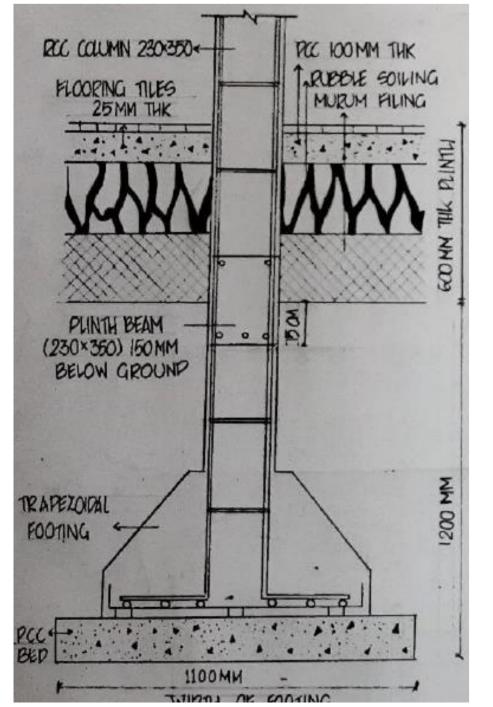


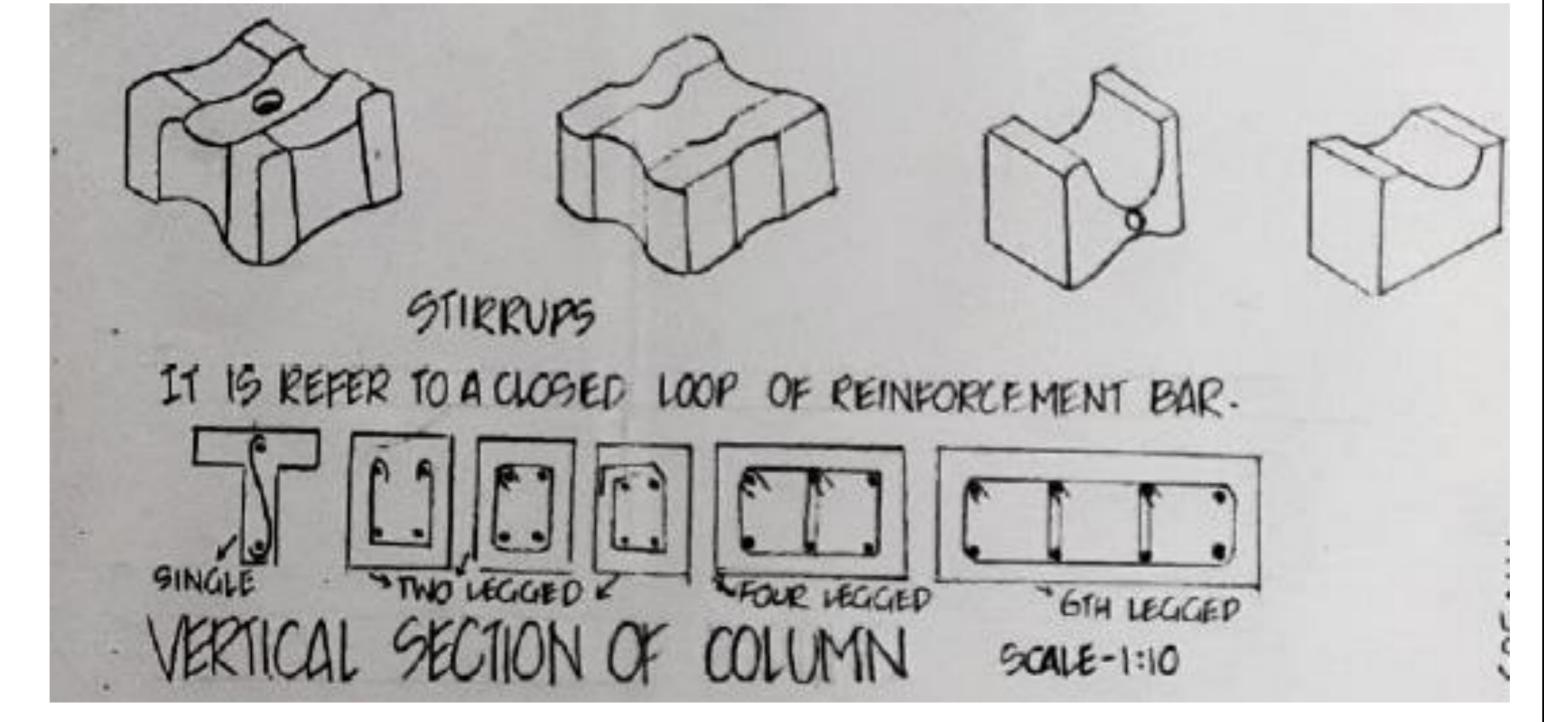
Student: Manvi Mayank

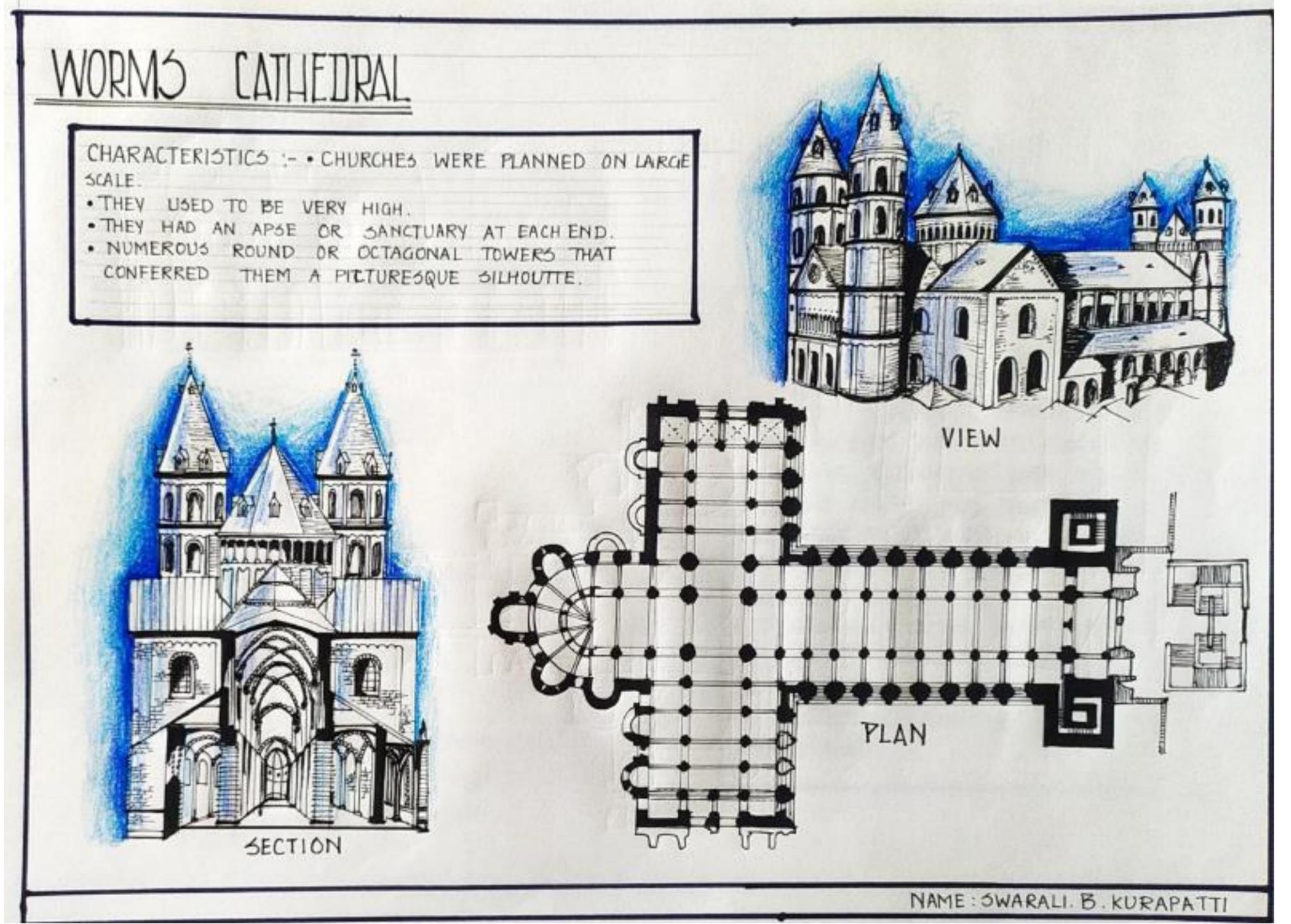
Faculty: Ar. Ketaki Badge, Ar. Natasha

Senpati, Ar. Vrushali Dhamane

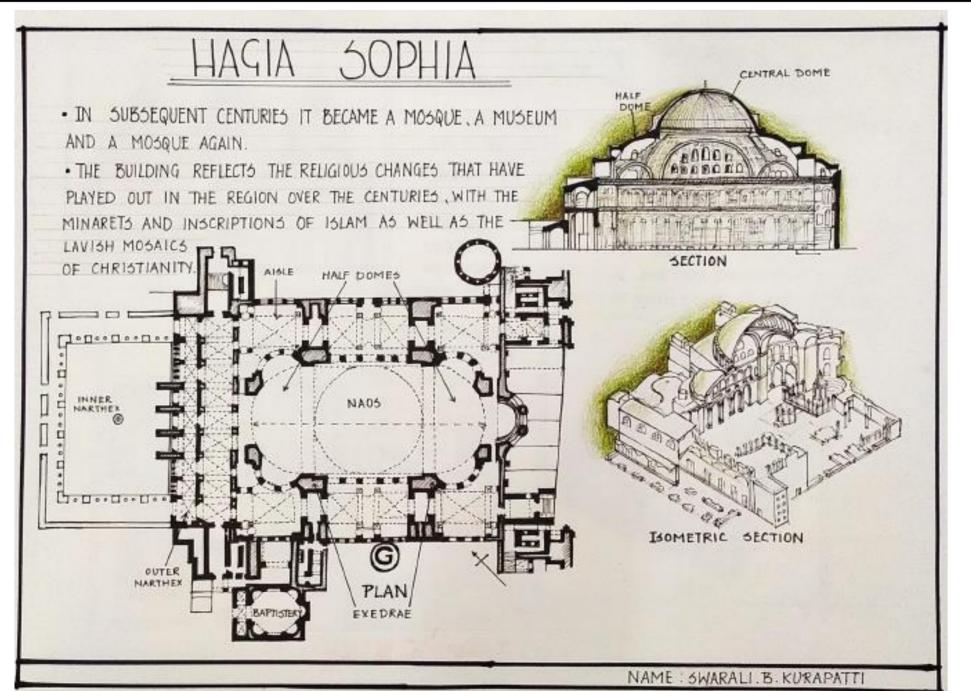
2nd Year B.Arch 2021-2022 Building Construction and Materials III



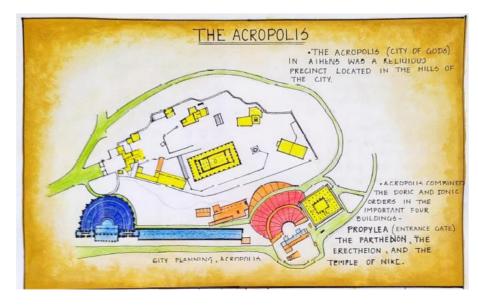


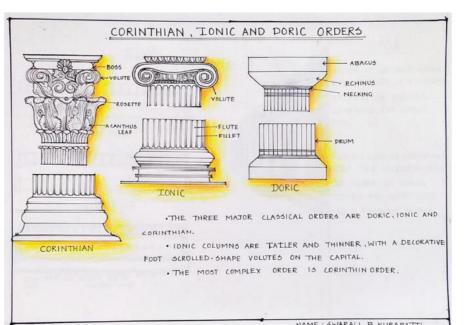


Romanesque Architecture

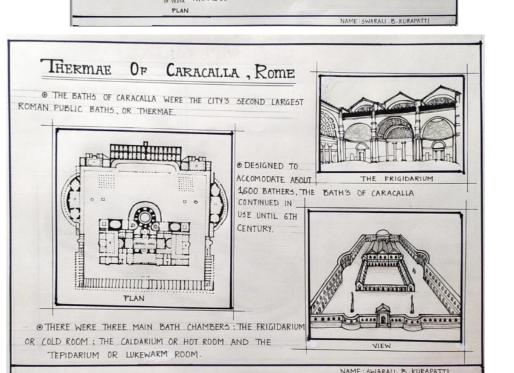


Byzantine Architecture









Roman Architecture

Objectives of syllabus:

- 1. To understand the development of European architecture through the historical period till 17th century AD.
- 2. To understand the relationship of religion and society with architecture
- 3. To understand the drivers of change, revival, and evolution of architecture

Following courses to be covered:

- 1. Greek Architecture
- 2. Roman Architecture
- 3. Early Christian Architecture
- 4. Early Medieval and Romanesque
- 5. Gothic Architecture
- 6. Renaissance Architecture

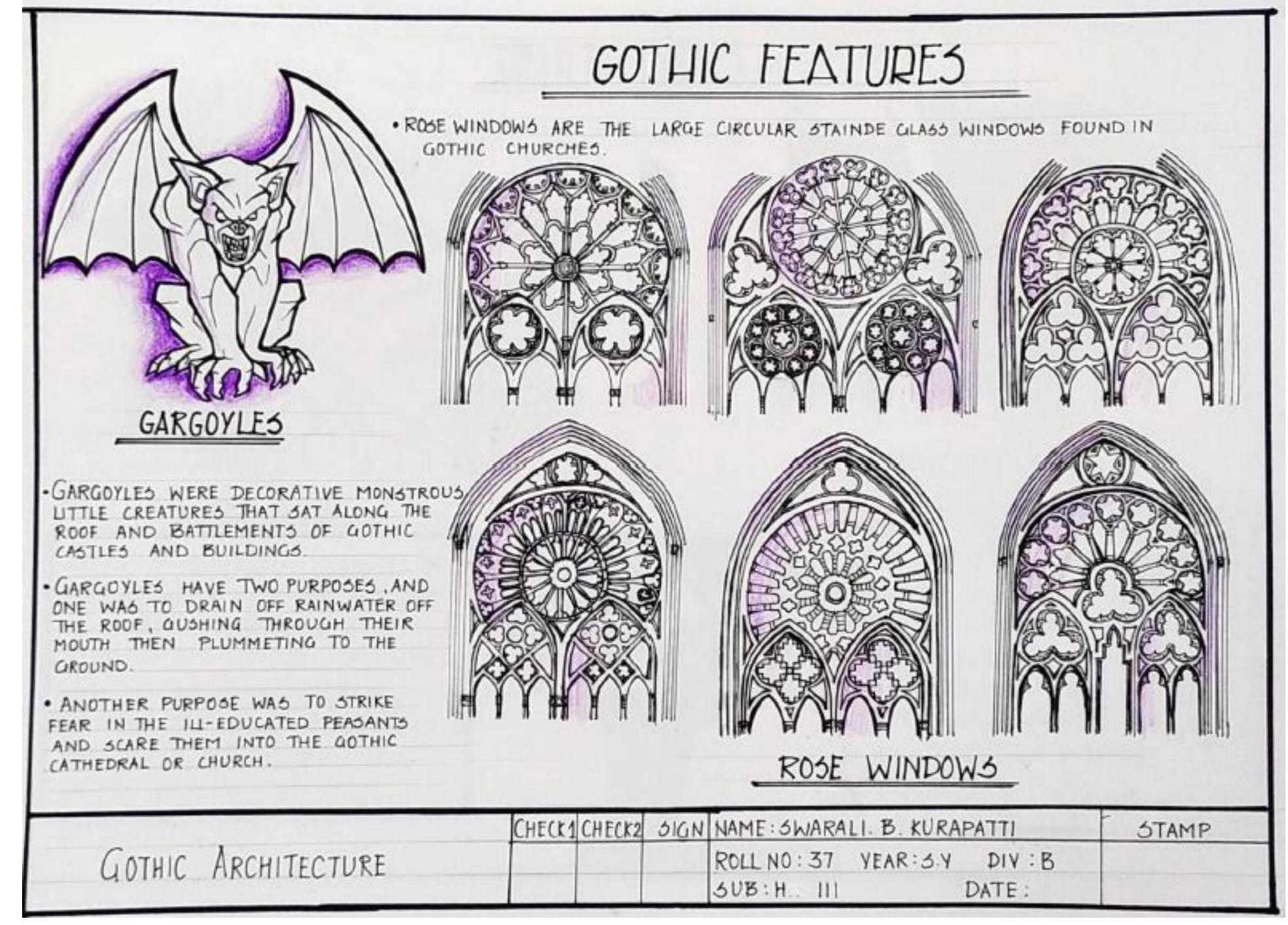
Coursework:

Sketches of 25 representative buildings minimum
Measured Drawing
Tutorial

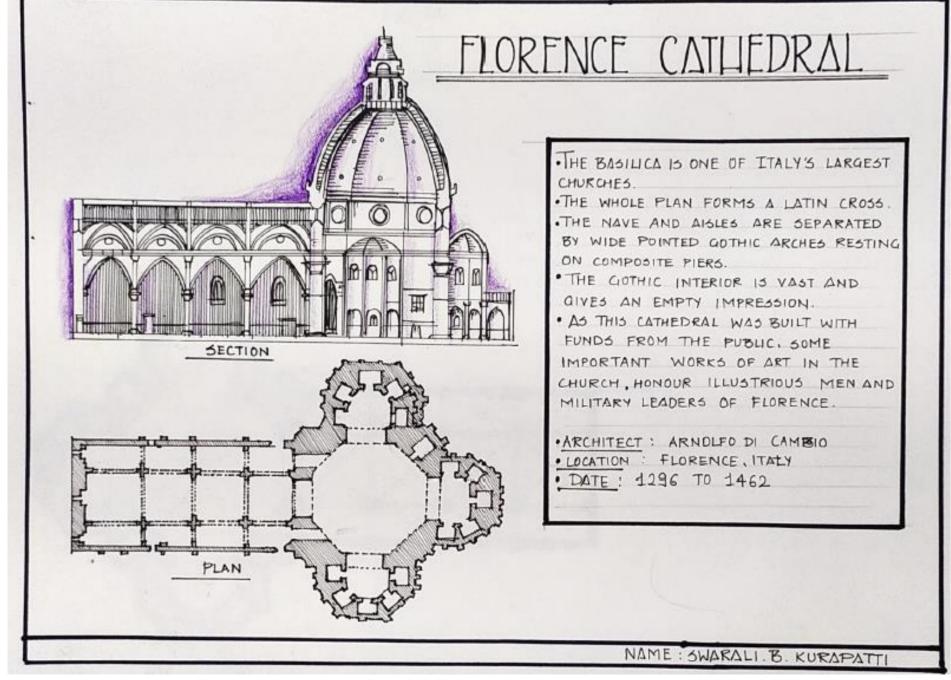
Student: Swarali Kurapatti Faculty: Ar. Leena Jain

2nd Year B.Arch 2021-2022 History of Architecture and Culture III

Sketches of Architecturally important structures



Gothic Architecture



Gothic Architecture



Baroque Architecture

Objectives of syllabus:

- 1. To understand the development of European architecture through the historical period till 17th century AD.
- 2. To understand the relationship of religion and society with architecture
- 3. To understand the drivers of change, revival, and evolution of architecture

Following courses to be covered:

- 1. Greek Architecture
- 2. Roman Architecture
- 3. Early Christian Architecture
- 4. Early Medieval and Romanesque
- 5. Gothic Architecture
- 6. Renaissance Architecture

Student: Swarali Kurapatti

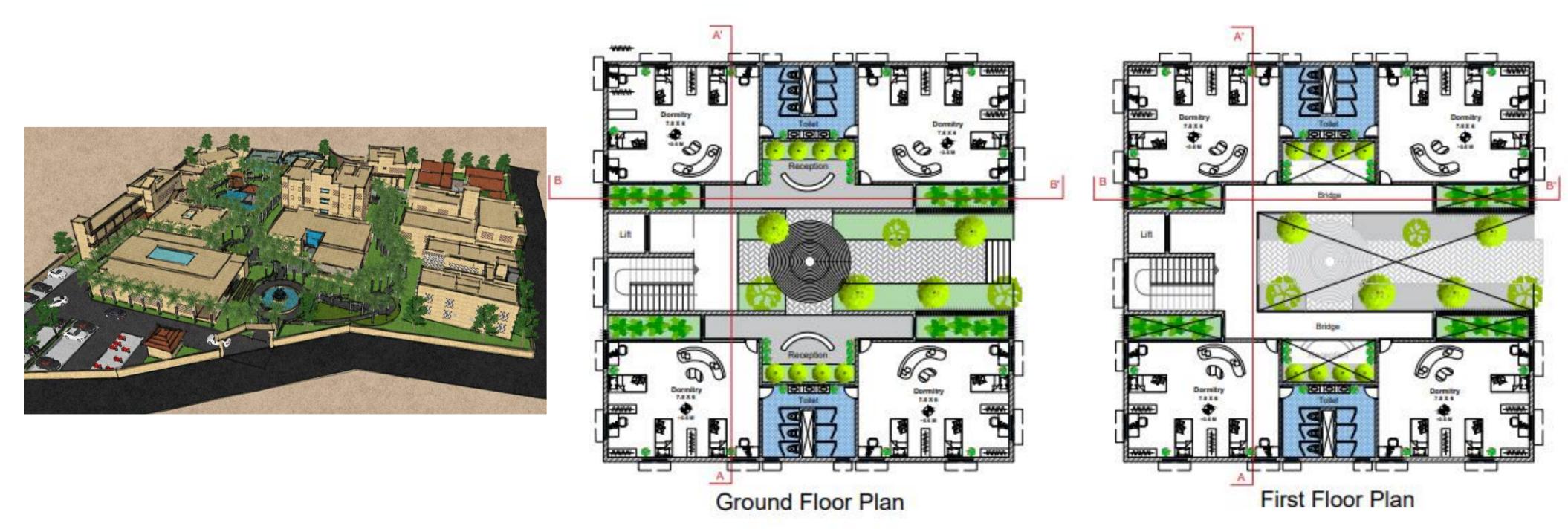
Faculty: Ar. Leena Jain

2nd Year B.Arch 2021-2022 History of Architecture and Culture III

Sketches of Architecturally important structures

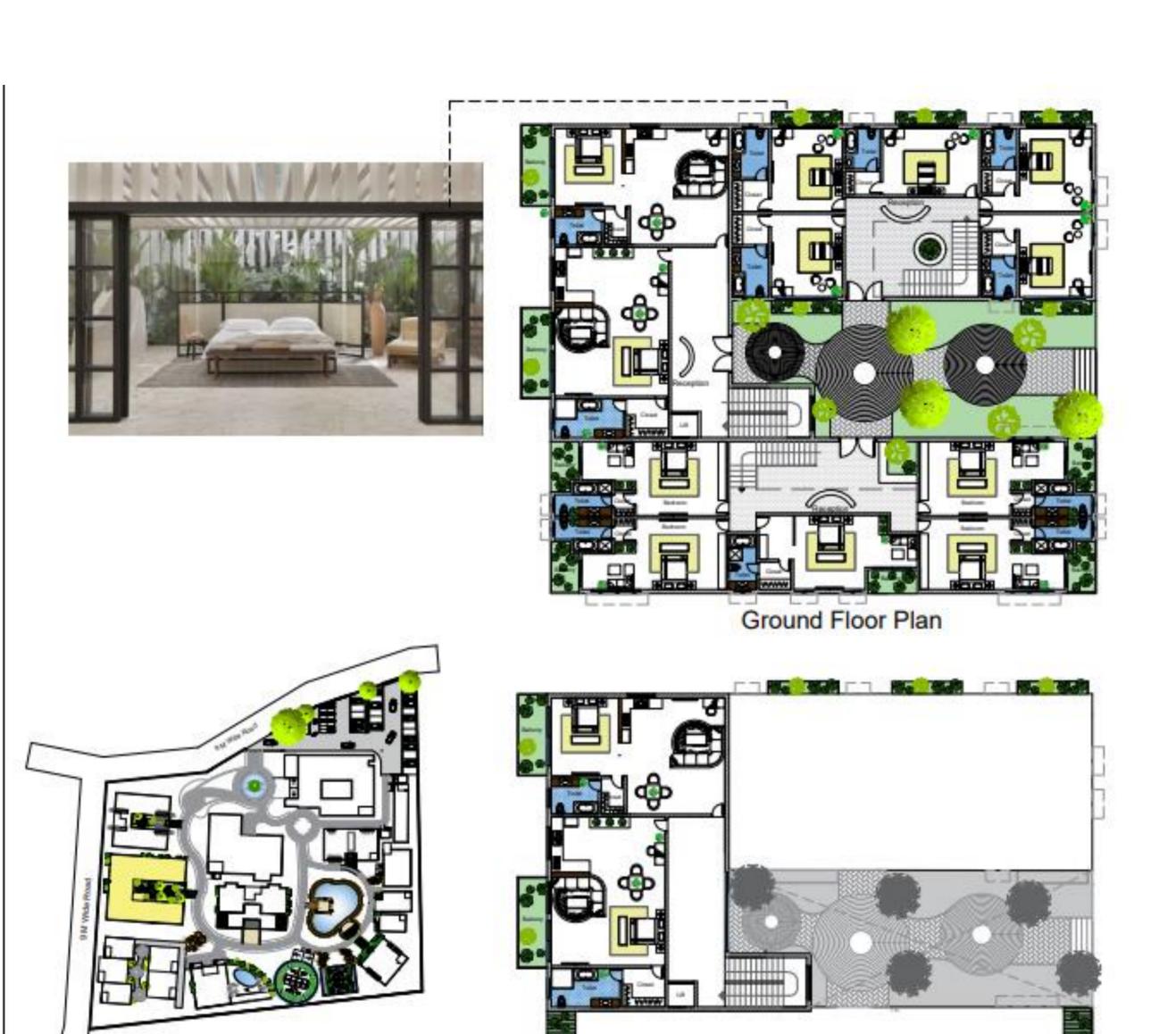




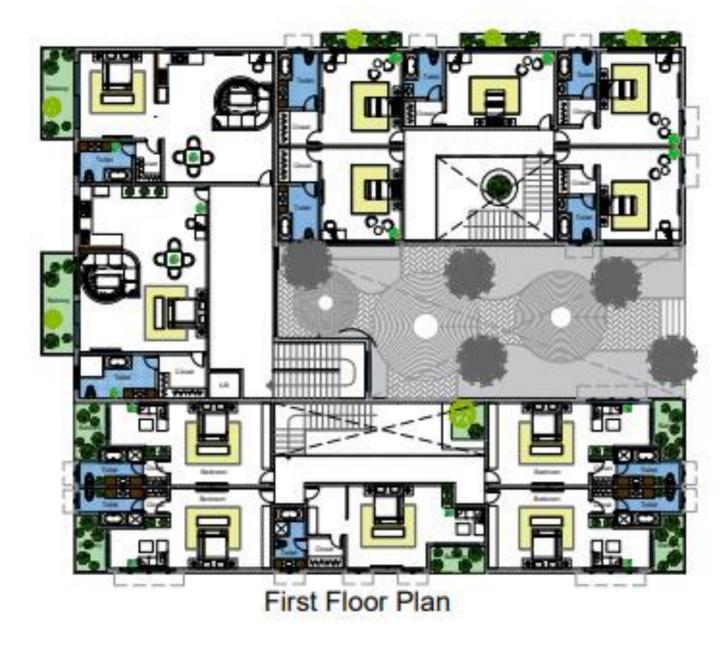


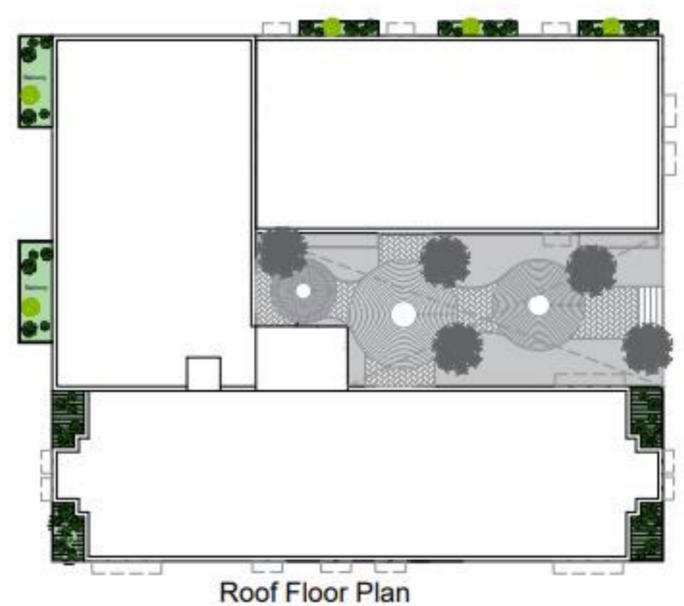
3rd Year B.Arch 2021-2022 Architectural Design IV

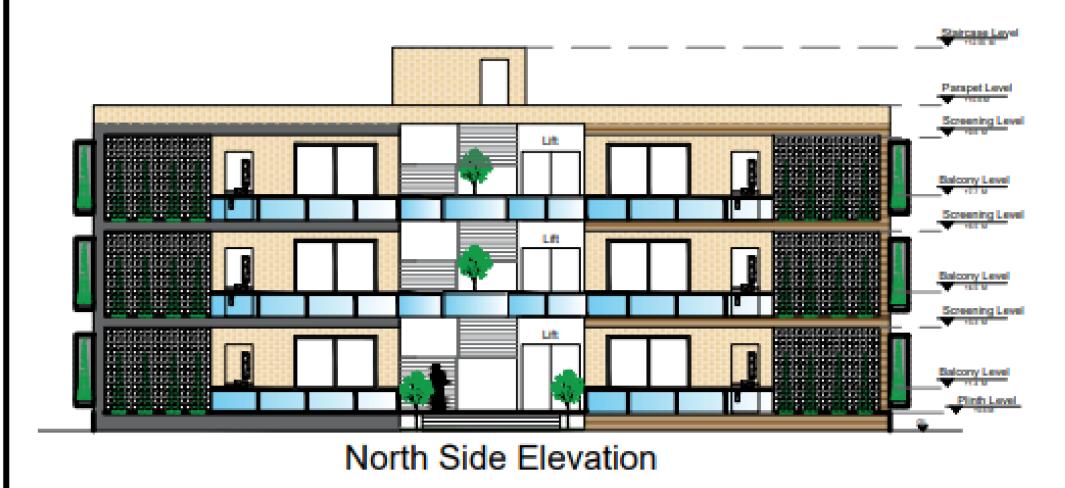
Naturopathy Centre, Near Hinjewadi Pune

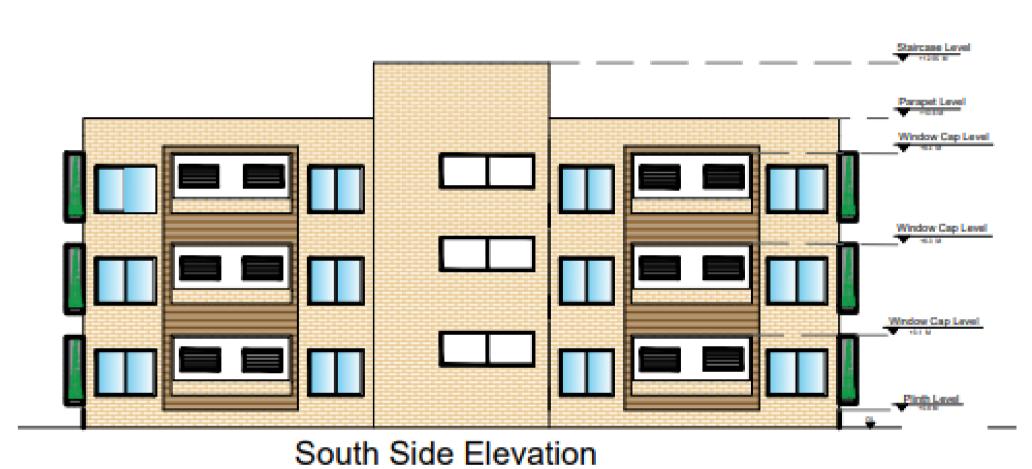


Second Floor Plan









Student- Kshitija Mahale

Faculty: Ar. Niketa Patil, Ar. Bijal Vakhariya

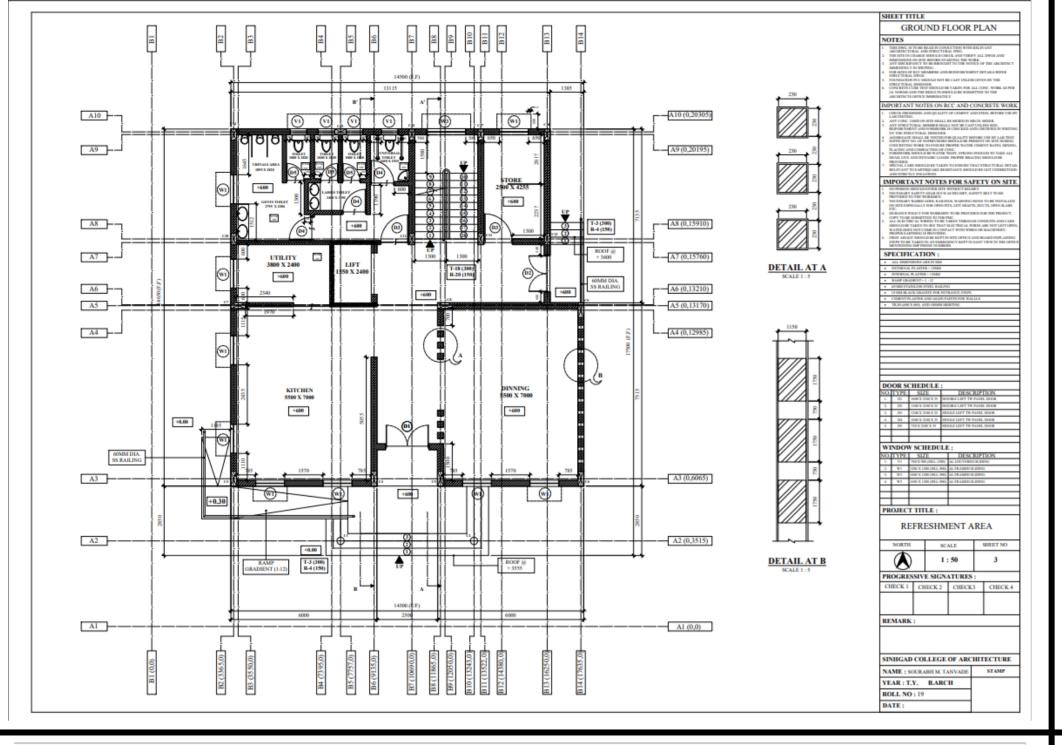


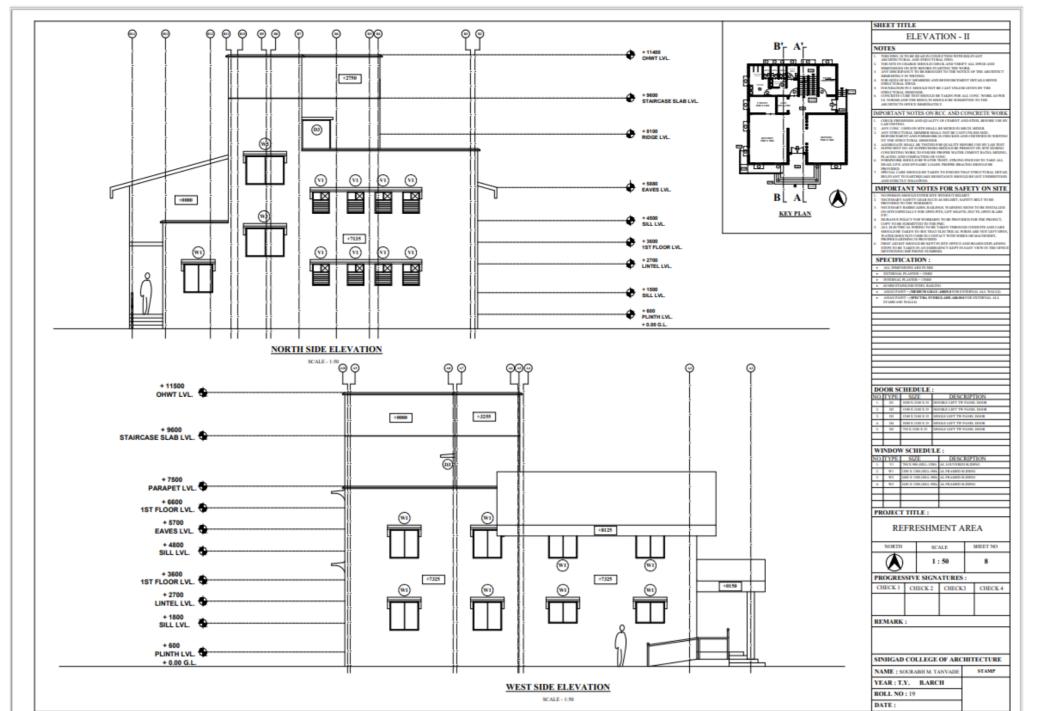
Key Plan

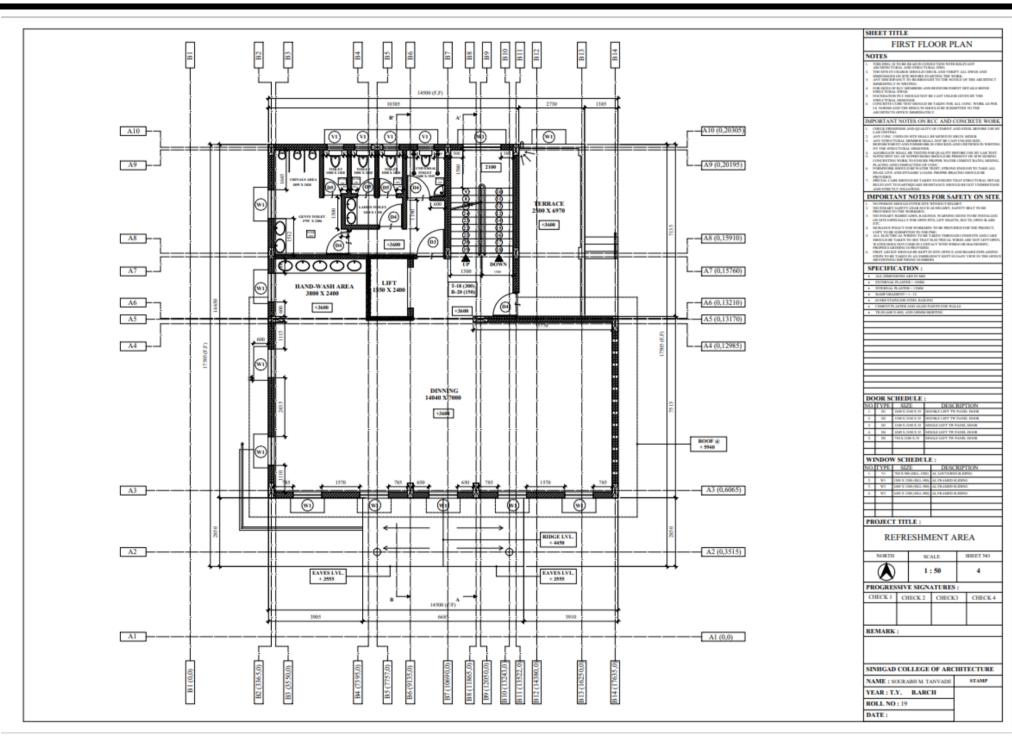
East Side Elevation

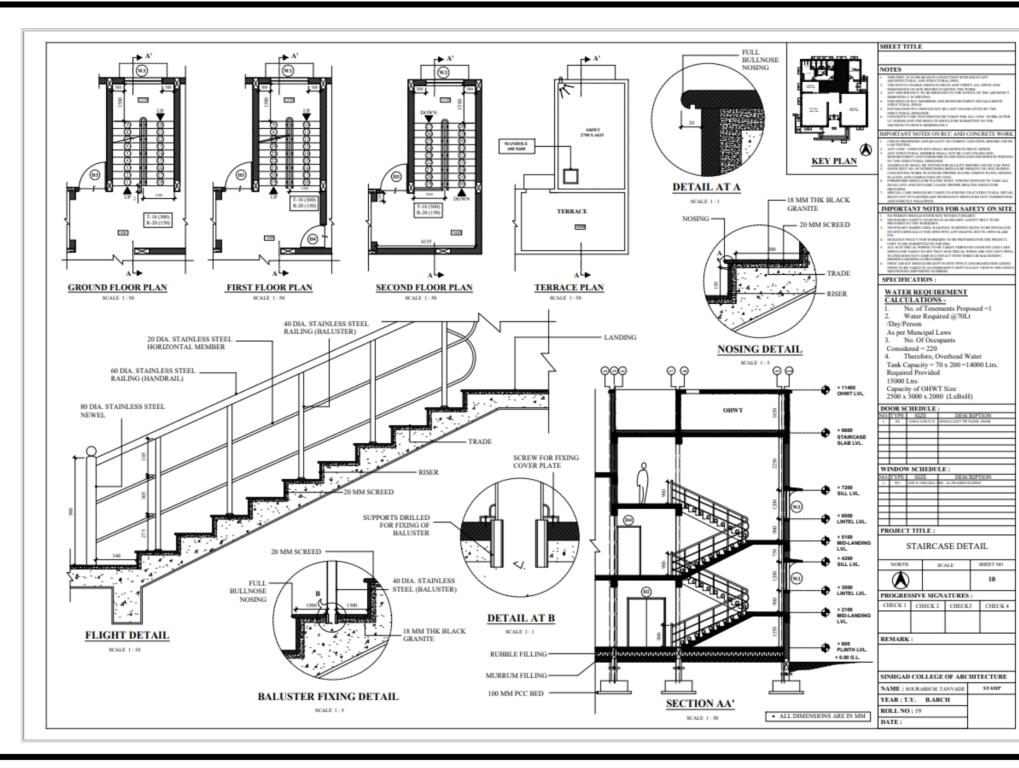
Year B.Arch 2021-2022 **Architectural Design IV**

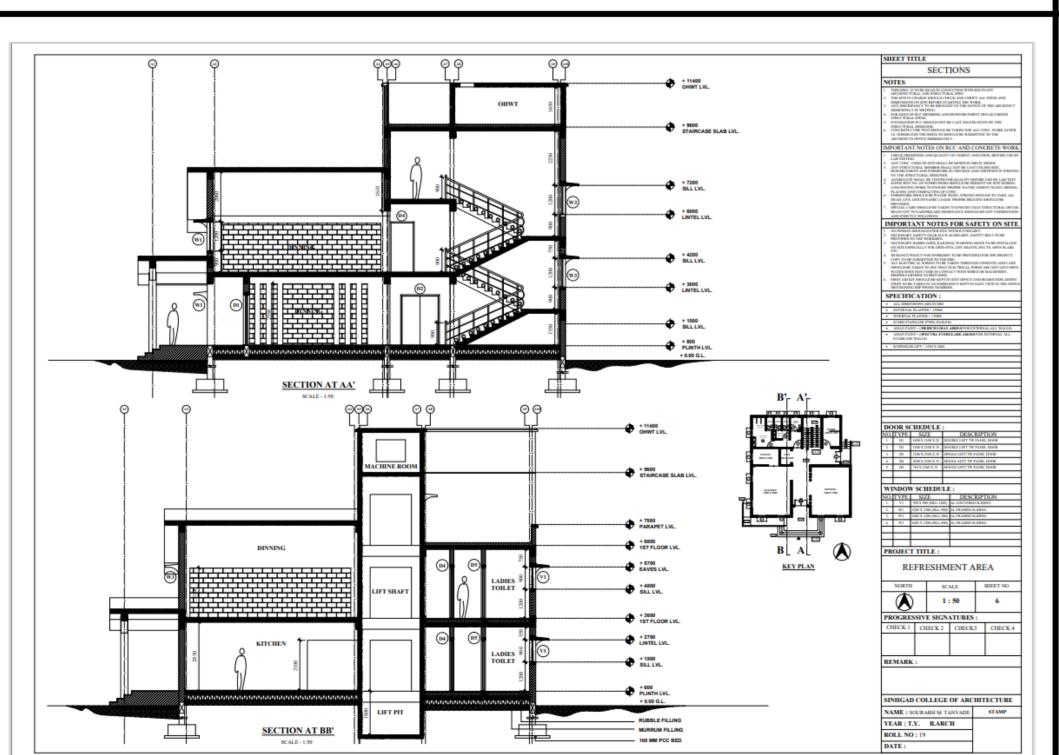
Naturopathy Centre, Near Hinjewadi Pune

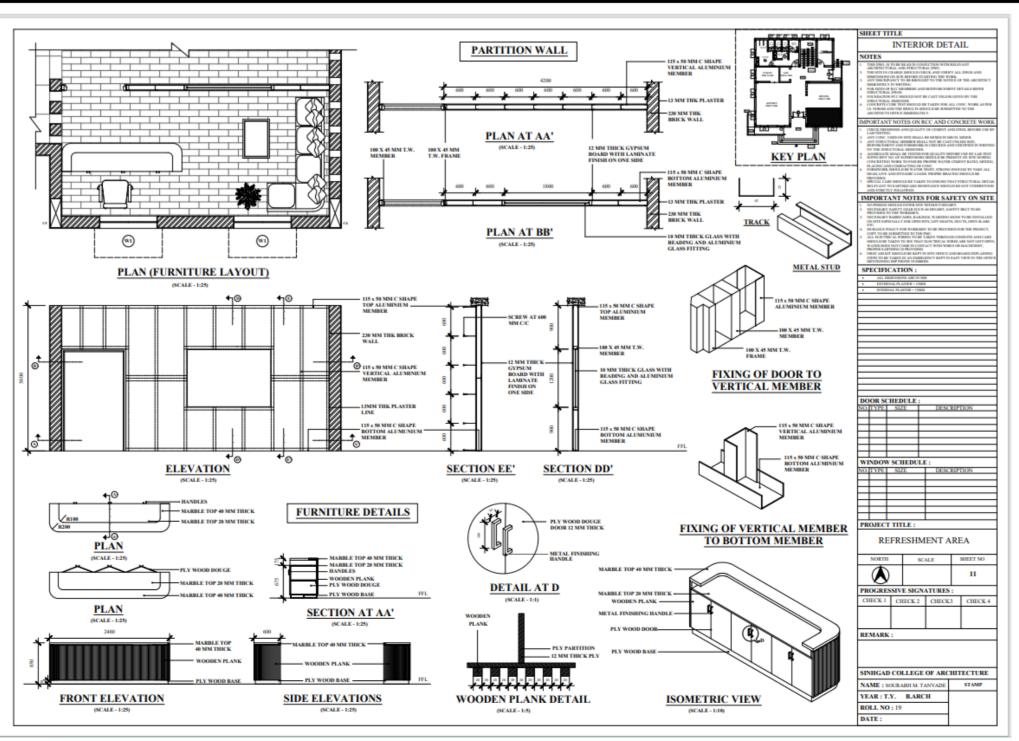












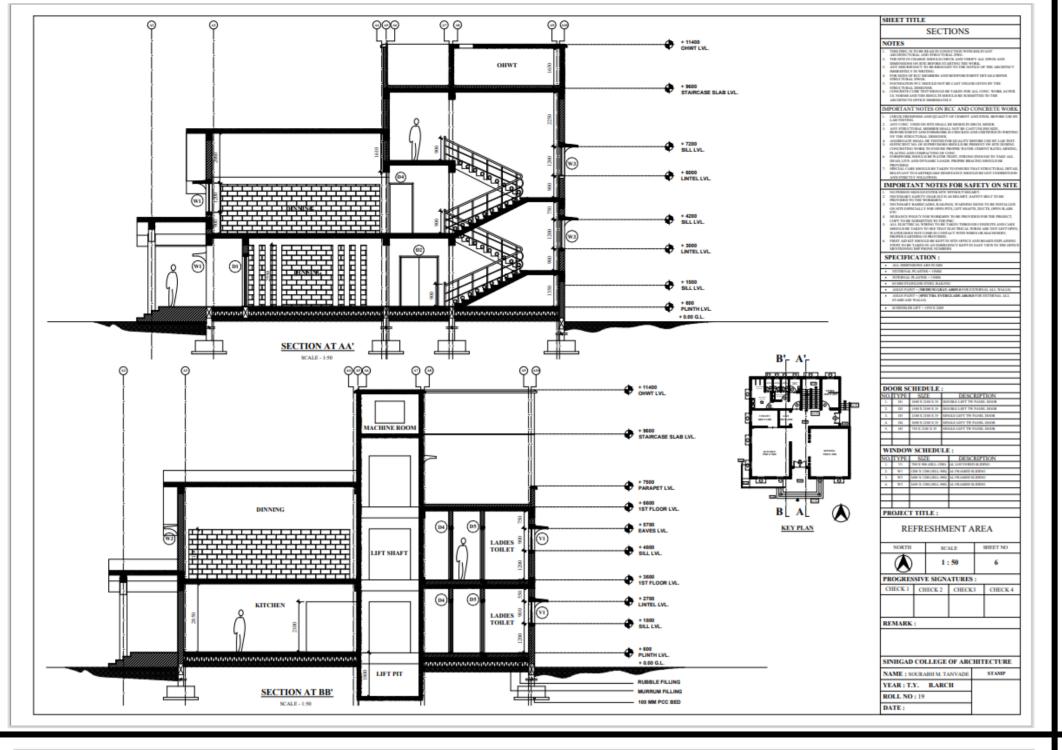
- -To Introduce idea of Design
 Development and detailing and its
 relevance in converting 'concept design'
 to working drawing and hence the
 realization of design on site.
- To imbibe further the importance of working drawings as an essential tool for effective site execution and execution of a building contract.
- To expose to the standard methods, conventions, drawing annotations including International standards, IS codes, its application in working drawing set with material and component and schedules.

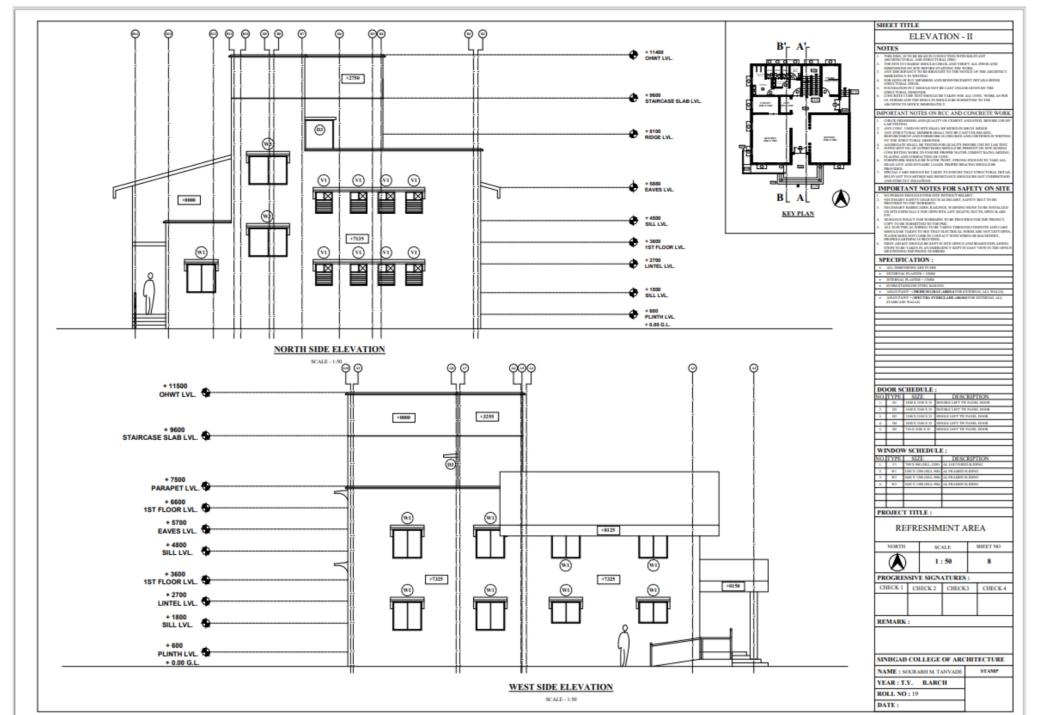
Student: Saurabh Tanvade

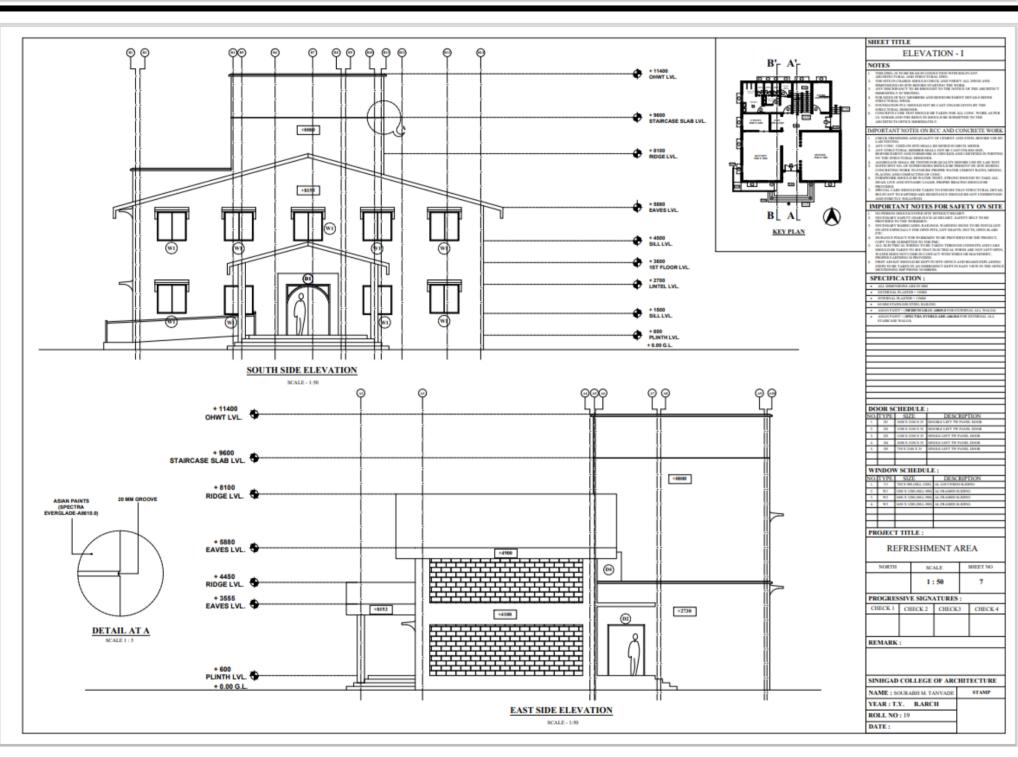
Faculty: Ar. Anita Kavathekar, Ar. Mukta

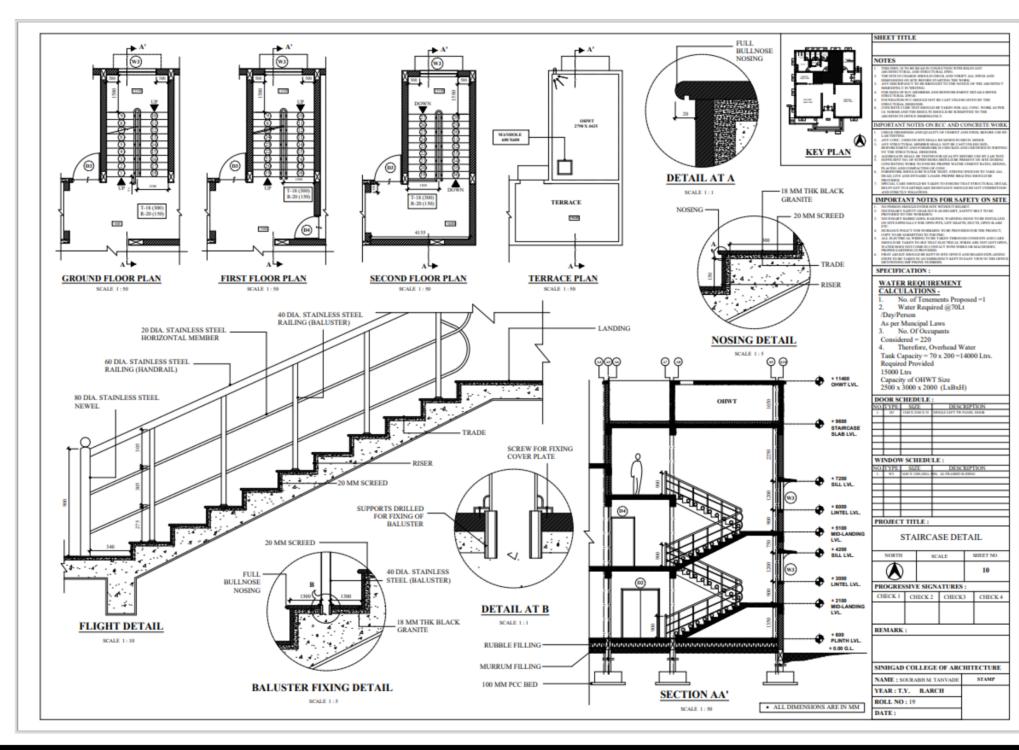
Pandit, Ar. Harshada Akolkar

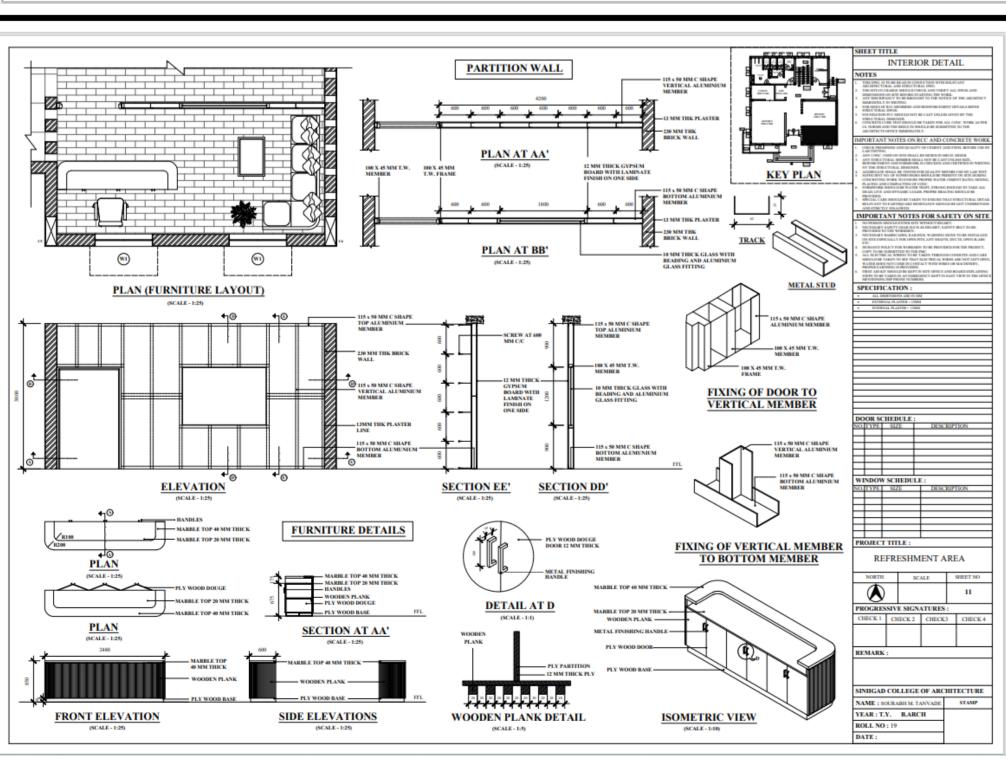
3rd Year B.Arch 2021-2022 Working Drawing II

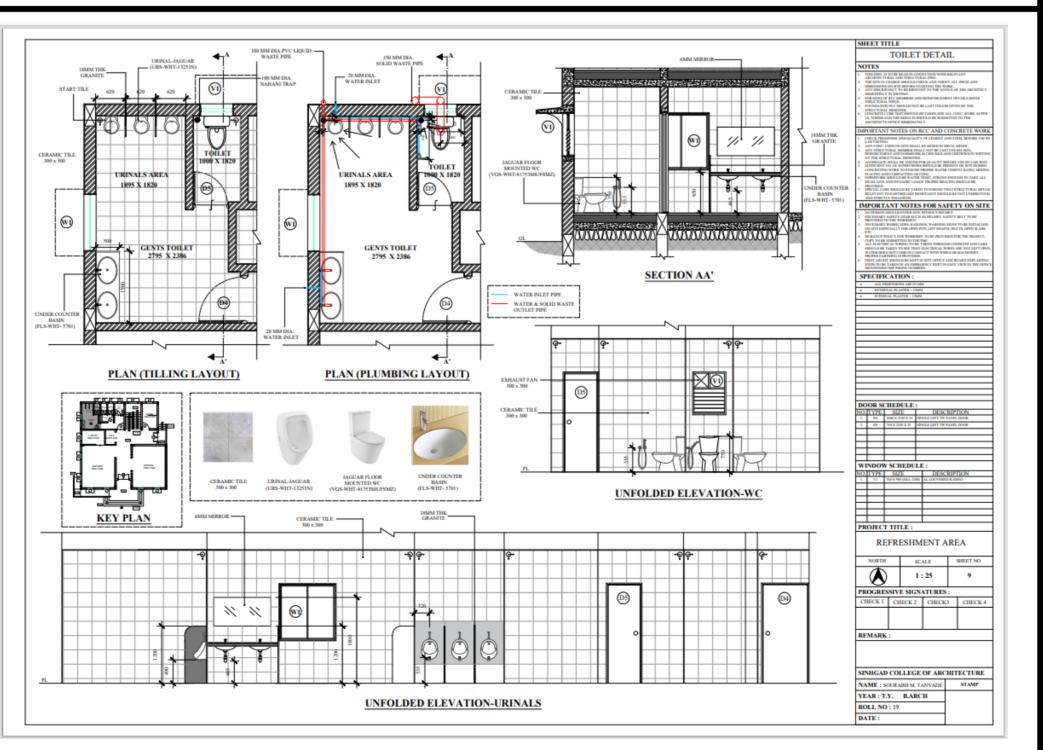












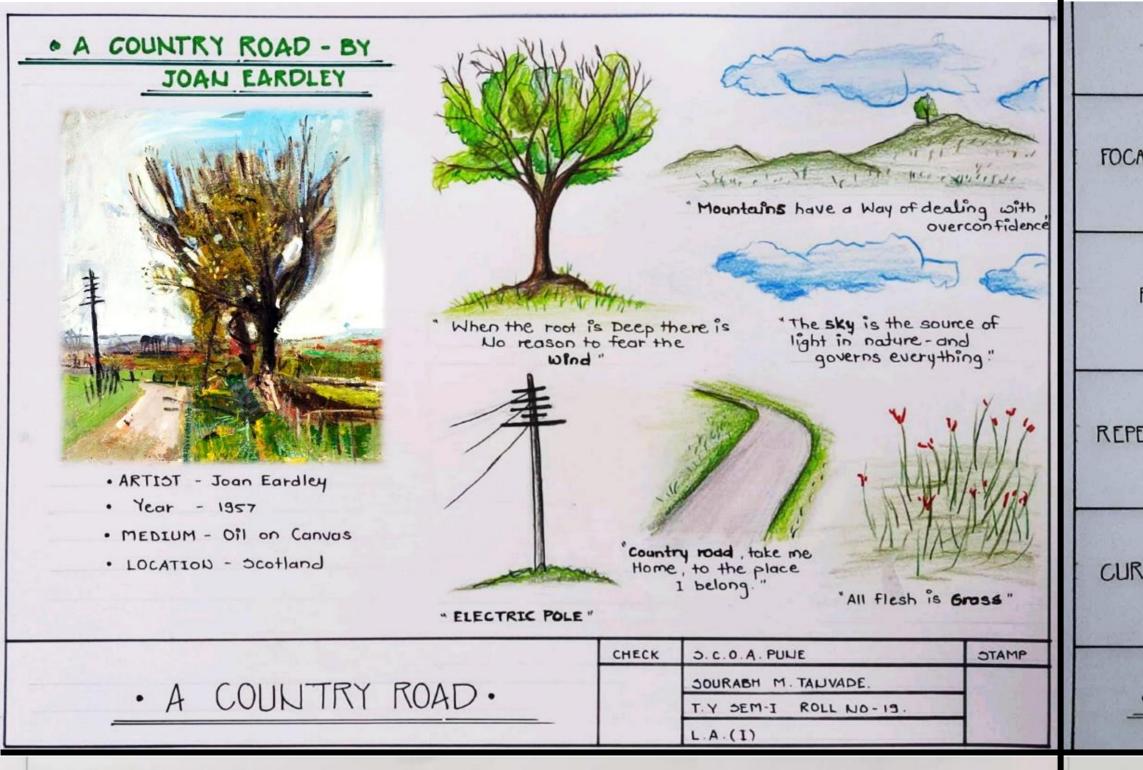
- -To Introduce idea of Design
 Development and detailing and its
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 realization of design on site.
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- To expose to the standard methods, conventions, drawing annotations including International standards, IS codes, its application in working drawing set with material and component and schedules

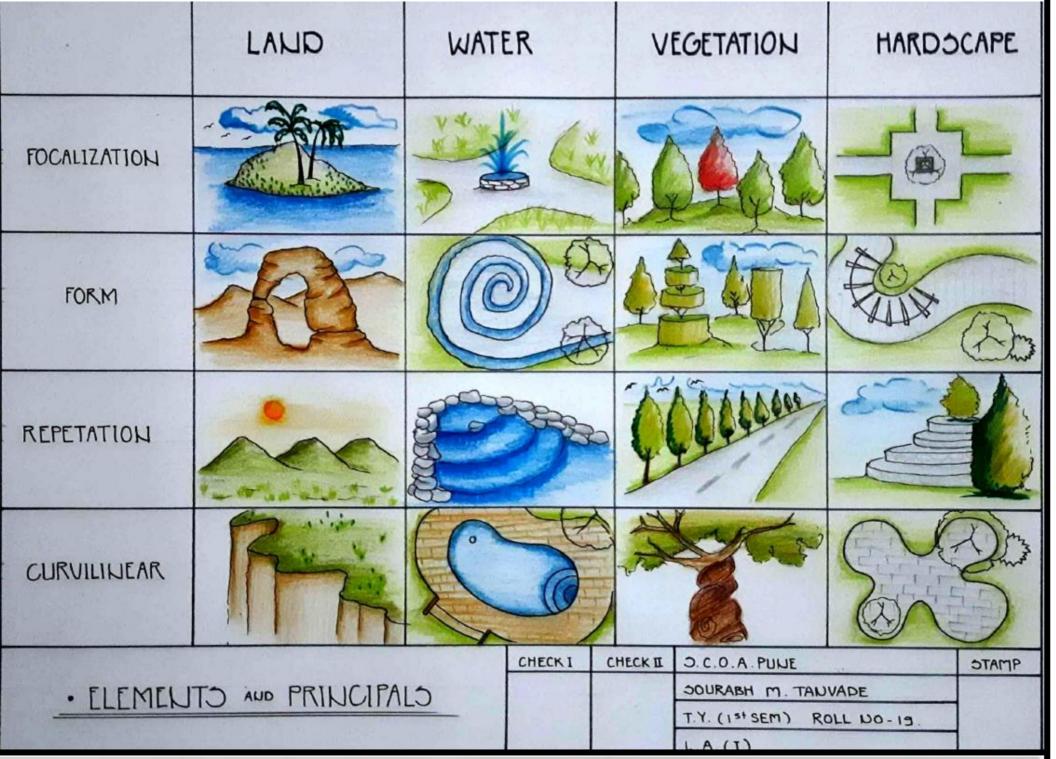
Student: Saurabh Tanvade

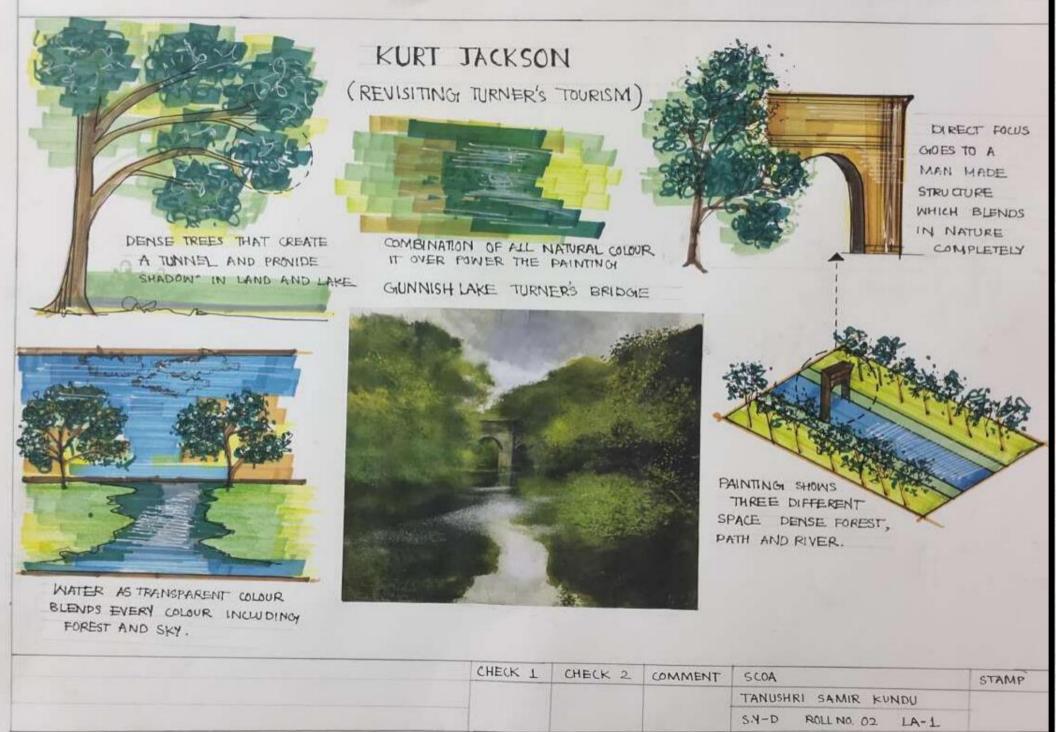
Faculty: Ar. Anita Kavathekar, Ar. Mukta

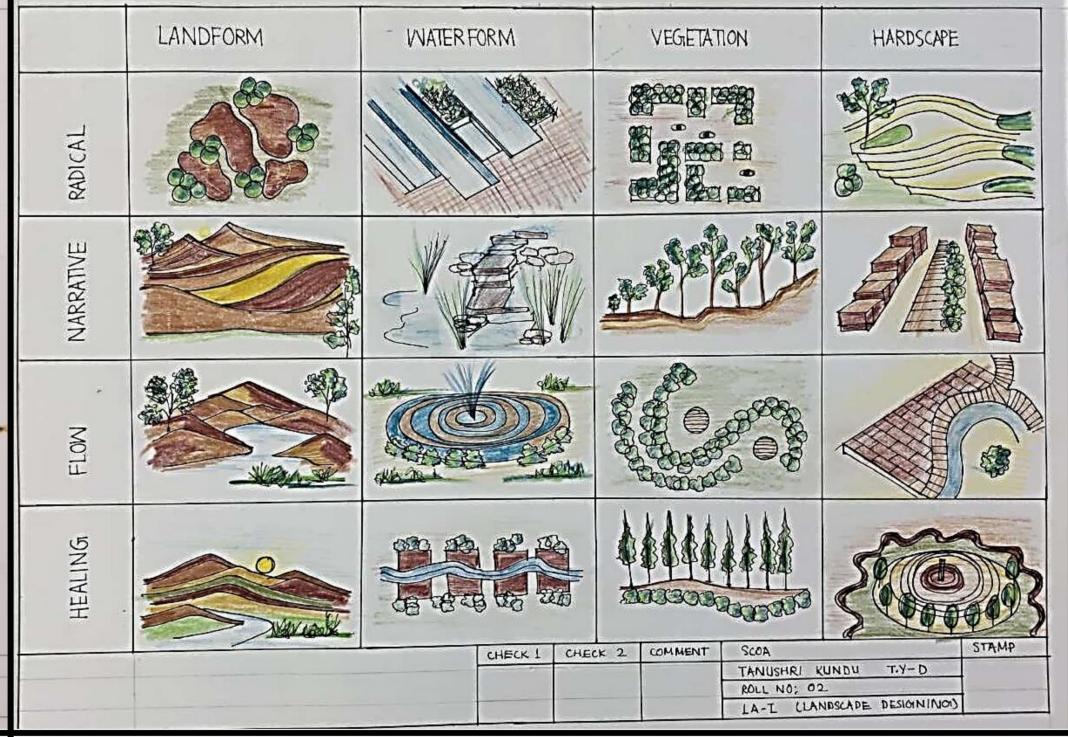
Pandit, Ar. Harshada Akolkar

3rd Year B.Arch 2021-2022 Working Drawing II



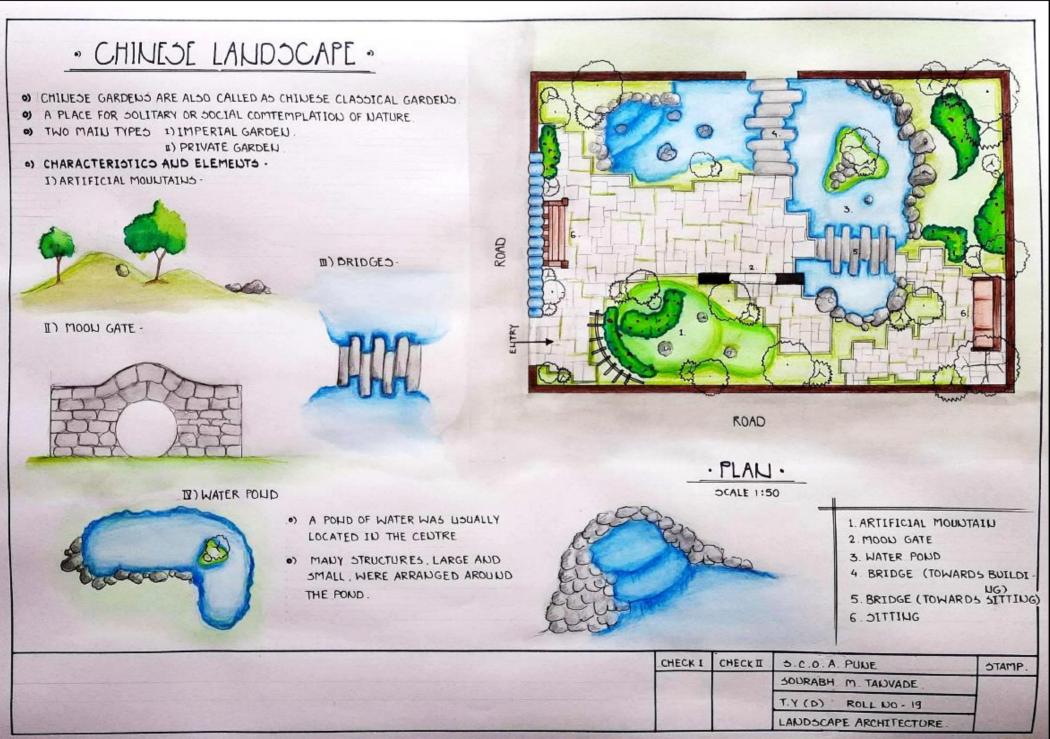


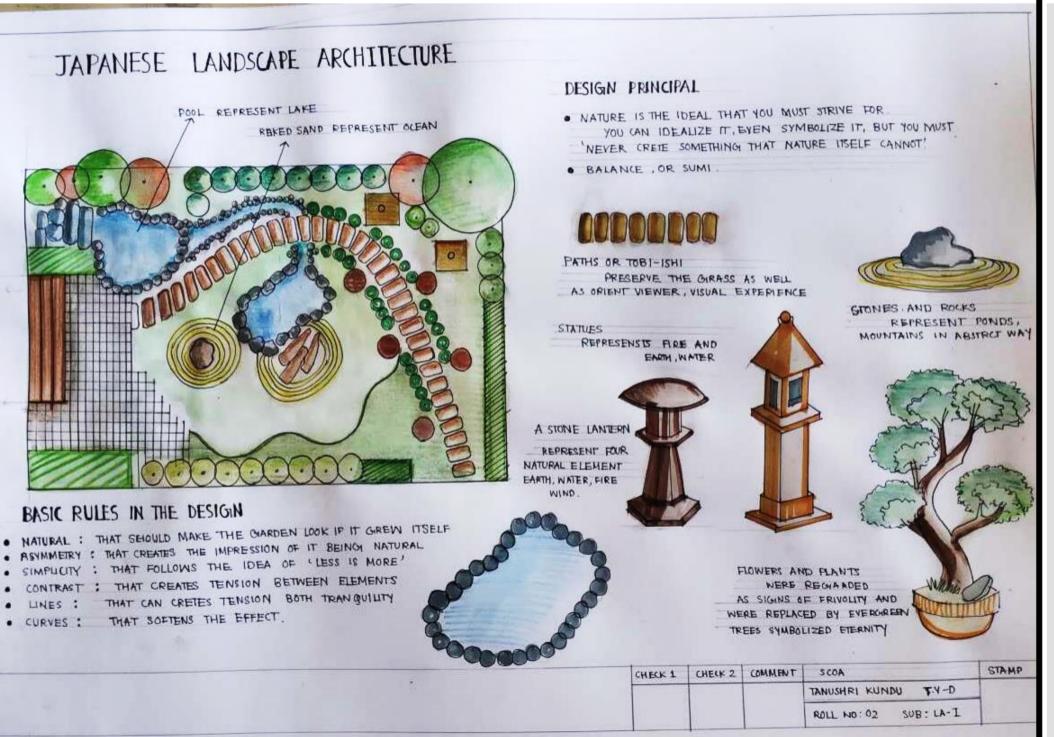




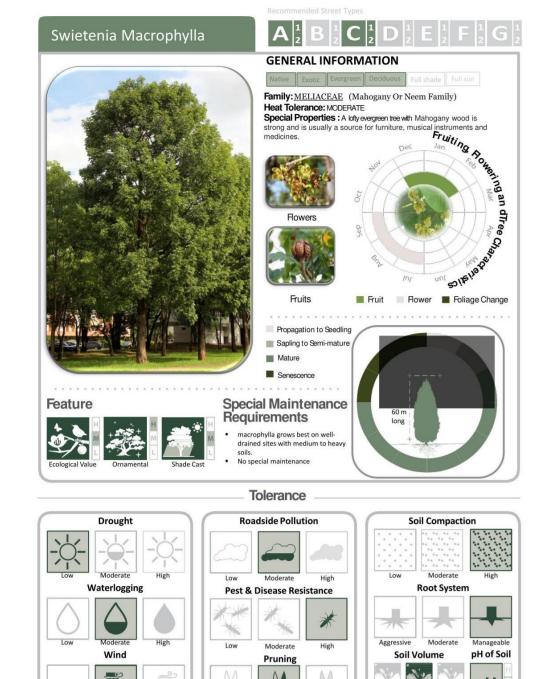
To introduce the students to Landscape Architecture and its scope. To understand the elements and principles of landscape design and role of landscape elements in design of outdoor environments on the site and their application in achieving functional, aesthetic, environmental and cultural goals

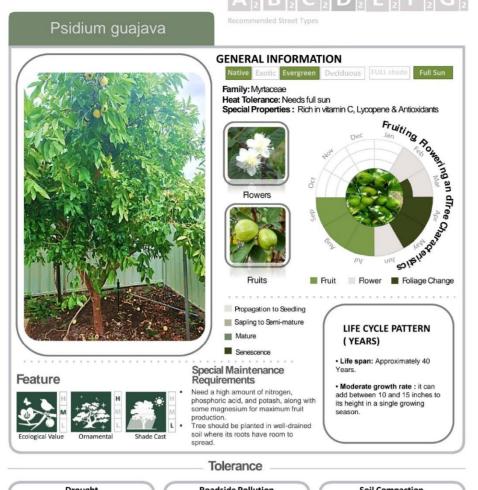
Principles and approaches in Landscape Design. Illustrations can be from contemporary as well as historic landscapes for understanding various approaches of design.

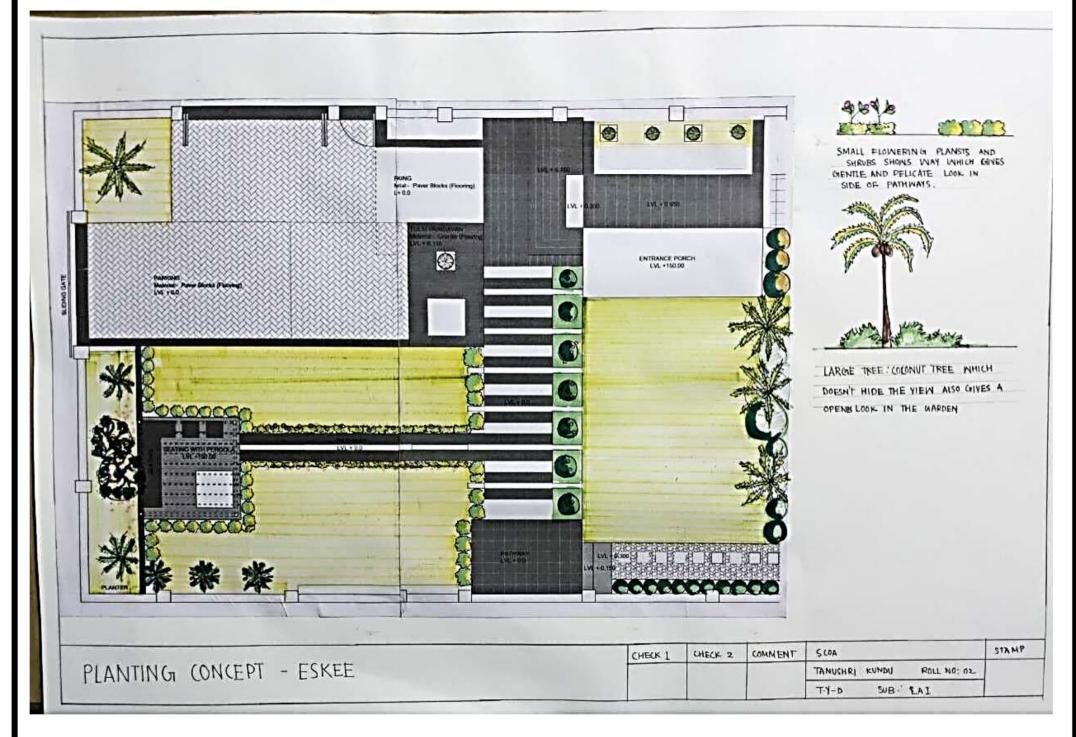


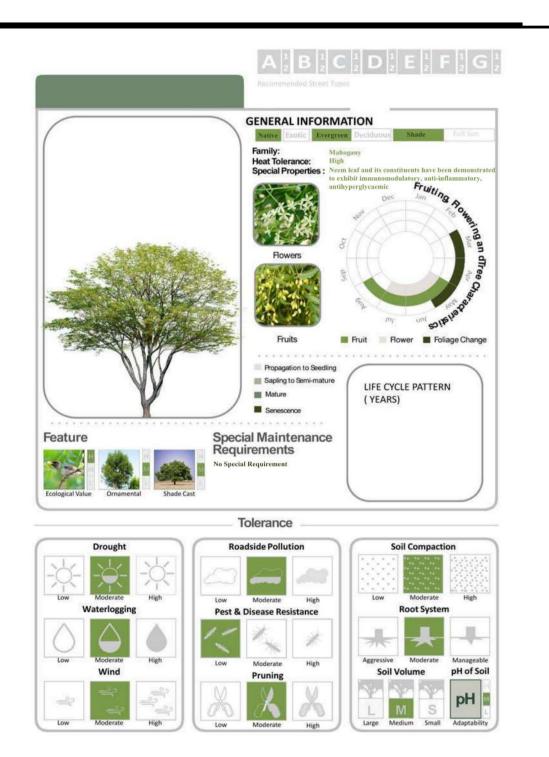


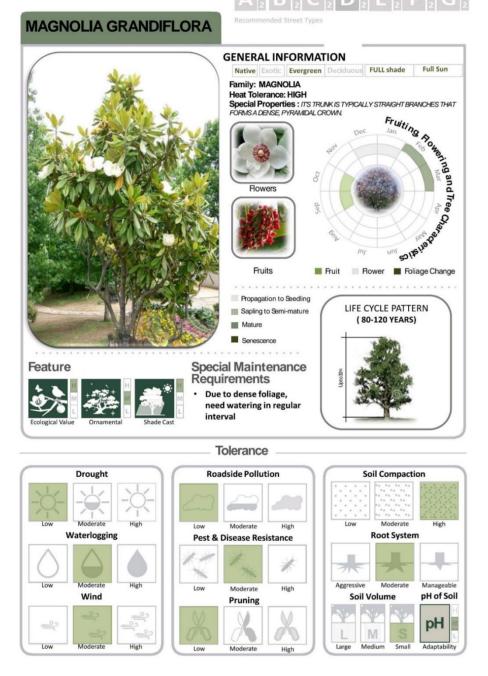
3rd Year B.Arch 2021-2022 Landscape Architecture

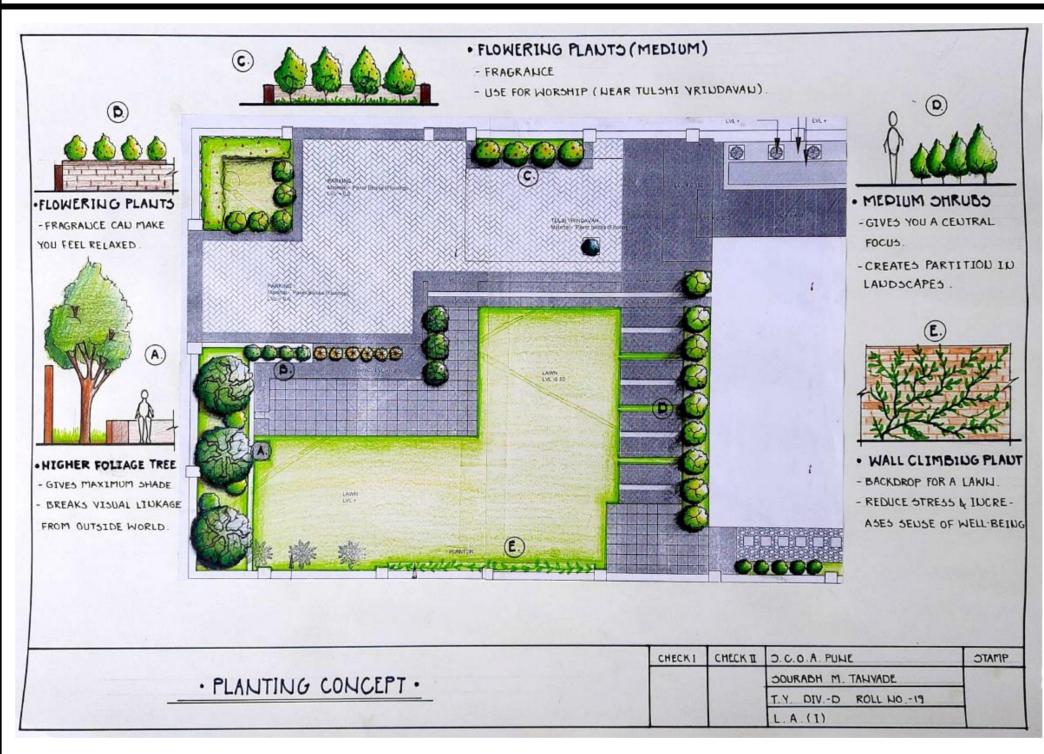






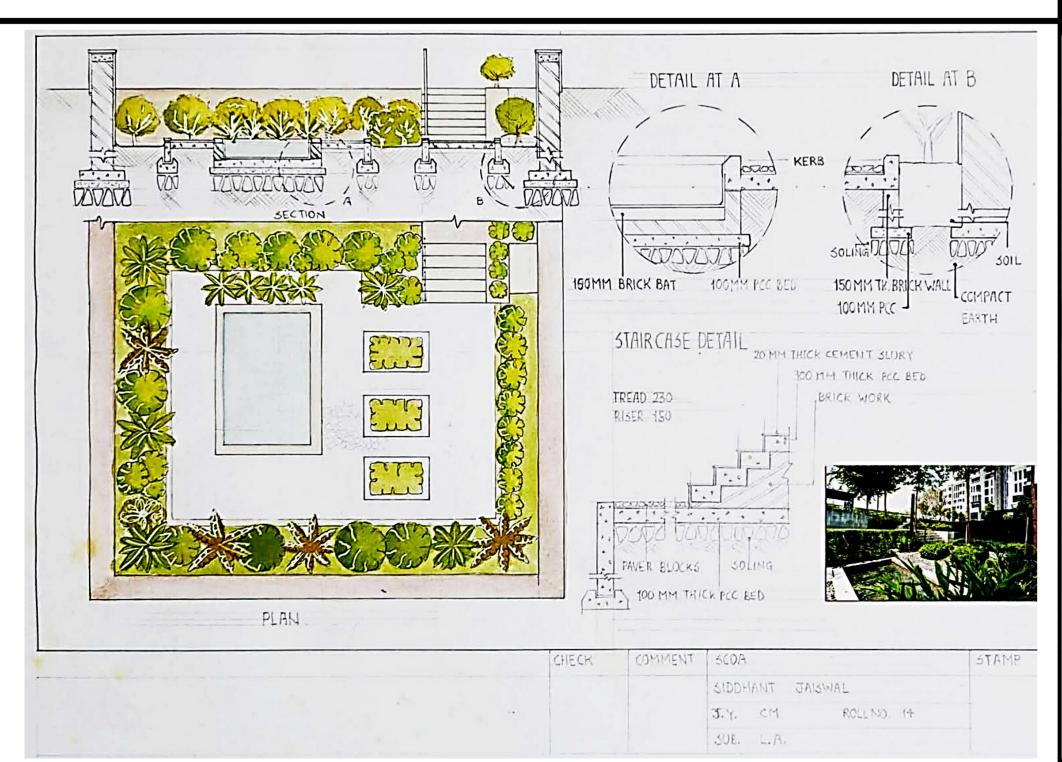


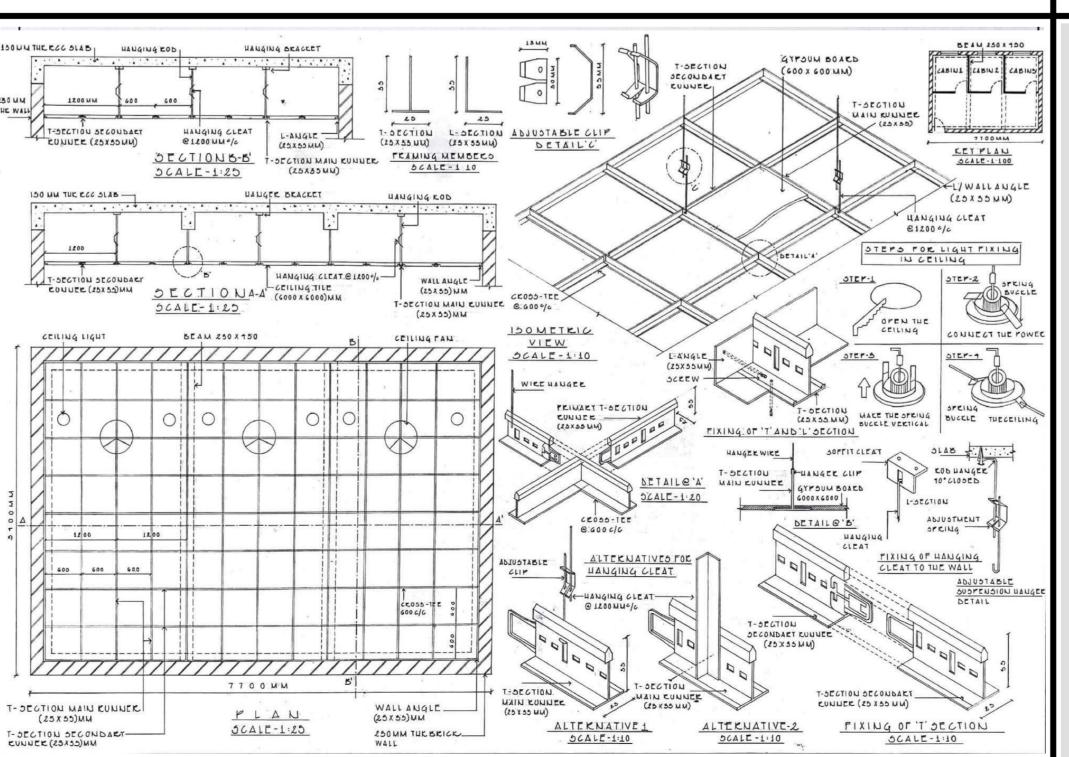




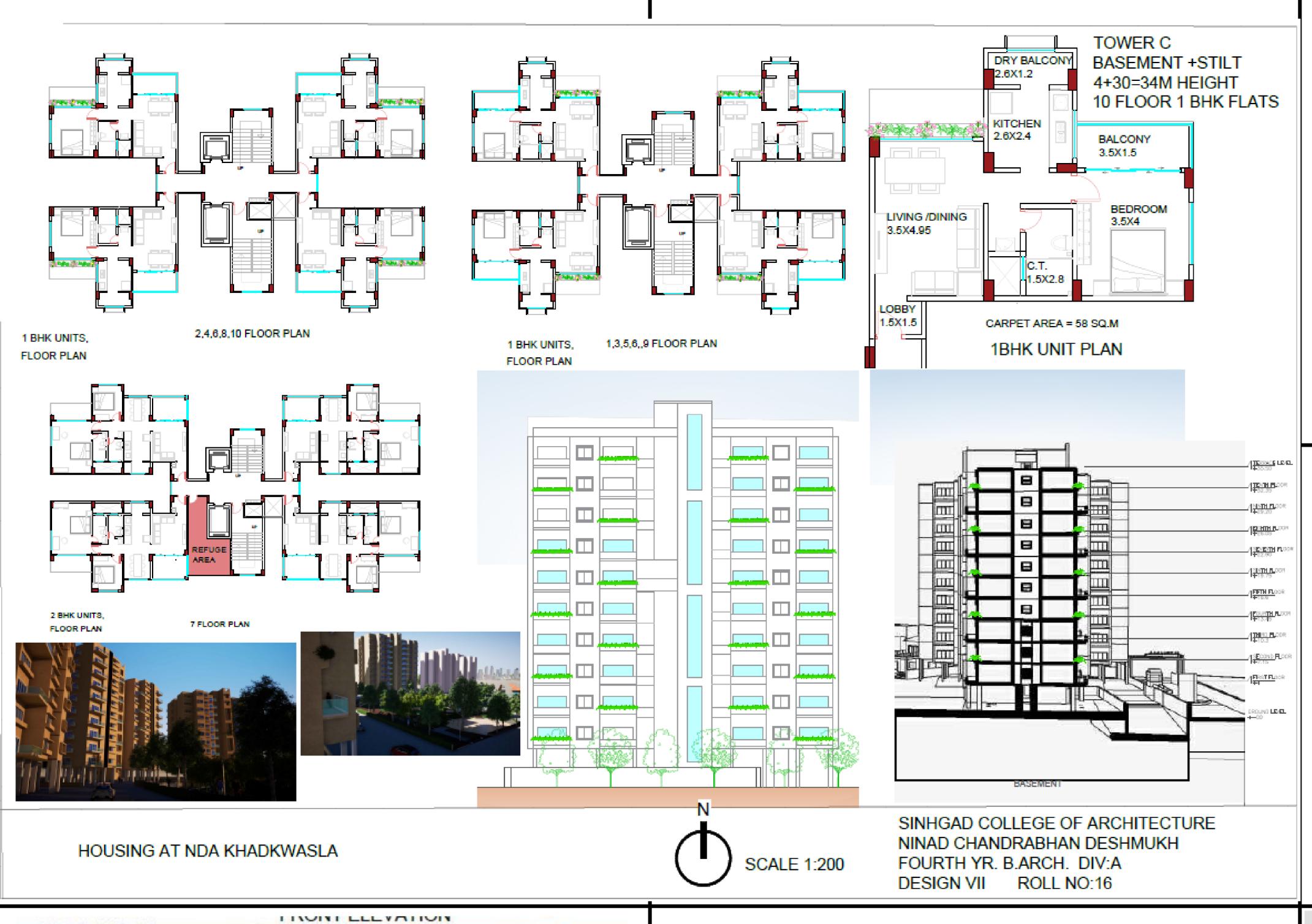
To introduce advanced structural systems, materials and services required in buildings with complex and special requirements and enable the students to integrate the same in design.

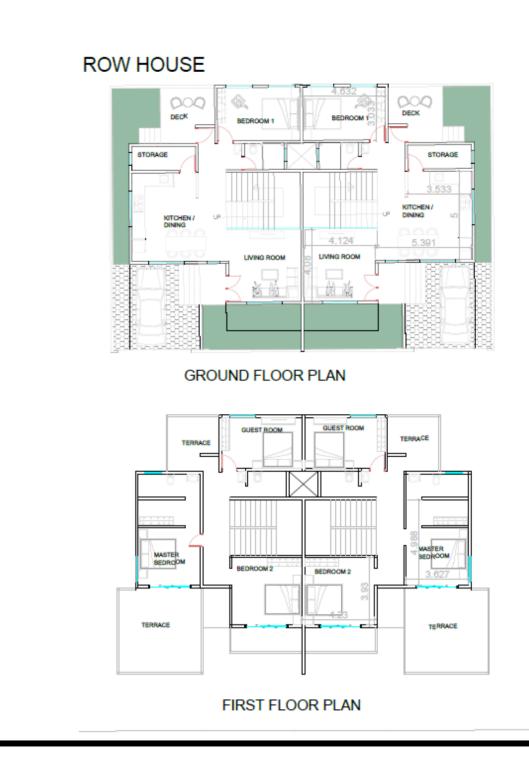
- 1.Study of Hard landscape (civil work) details with respect to materials and construction techniques.
- 1. . Study of Softscape (plant material), their characteristics and contribution in terms of creating and imparting character to outdoor spaces.





3rd Year B.Arch 2021-2022 Landscape Architecture



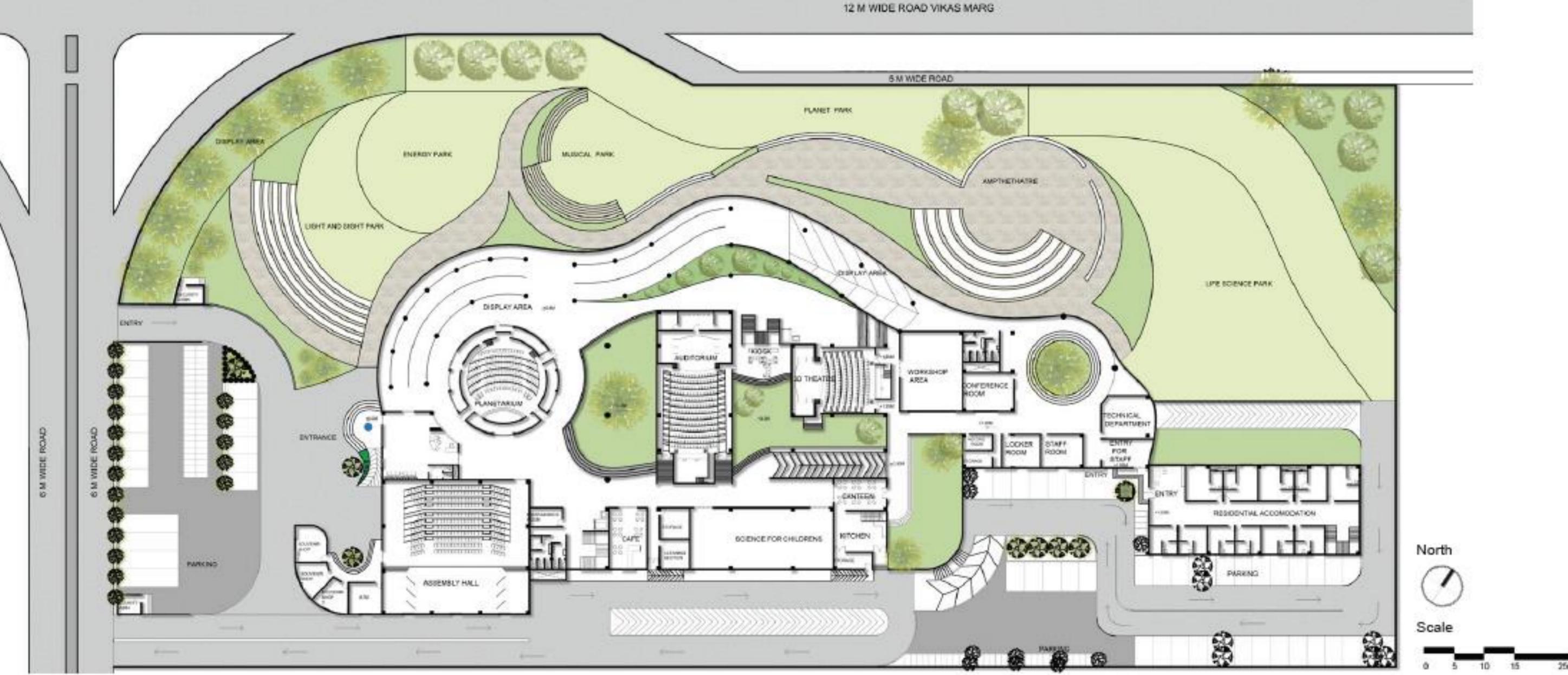




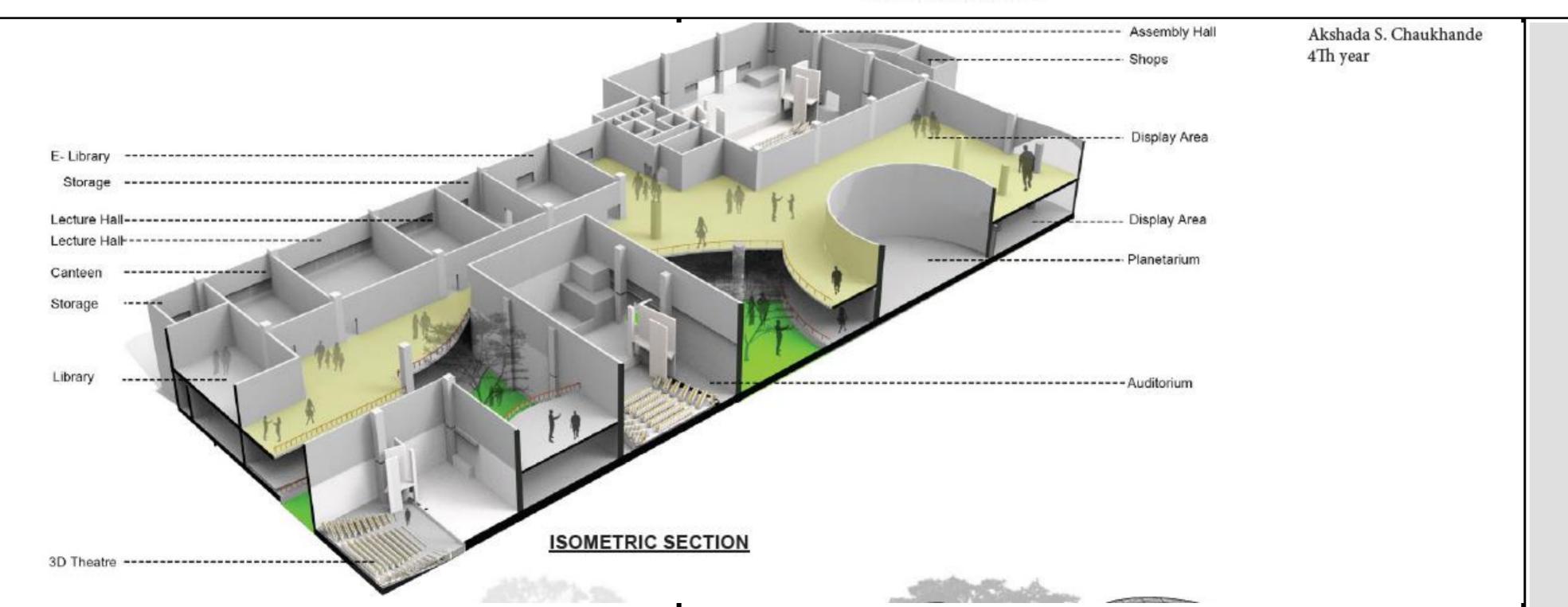
4th Year B.Arch 2021-2022 Design-VII HOUSING





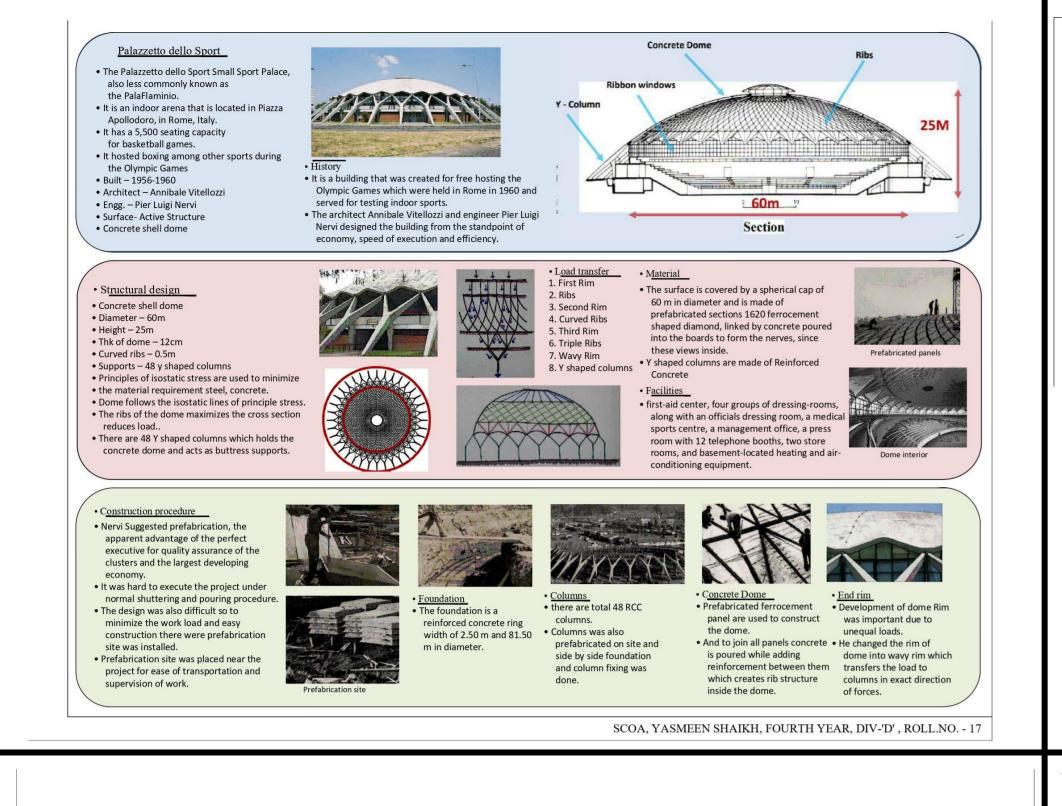


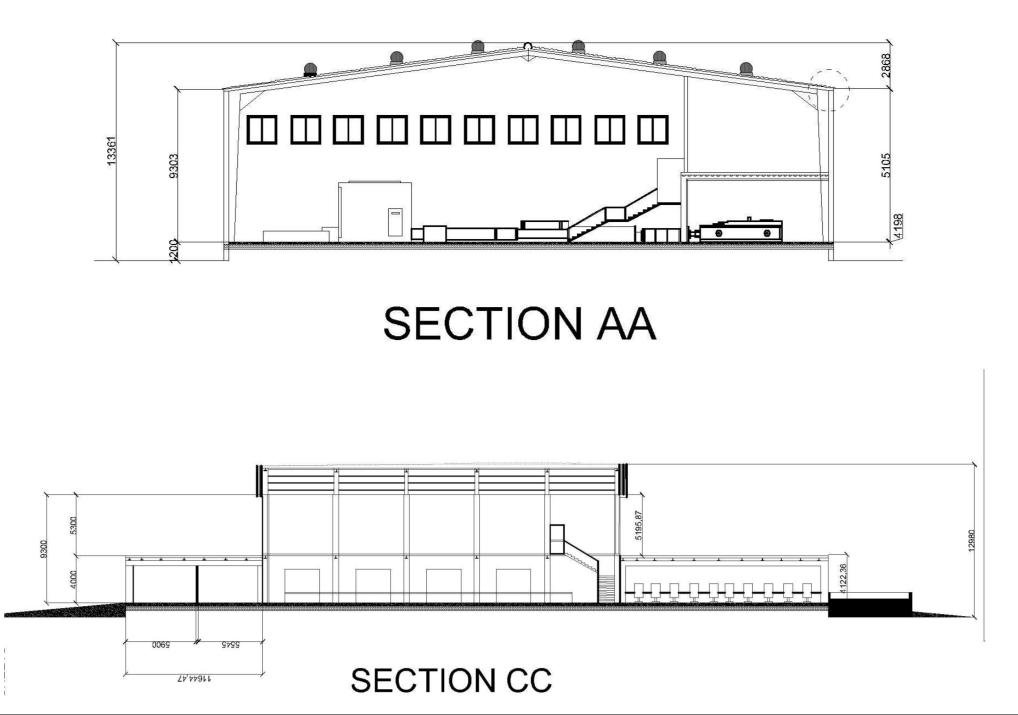
SITE PLAN

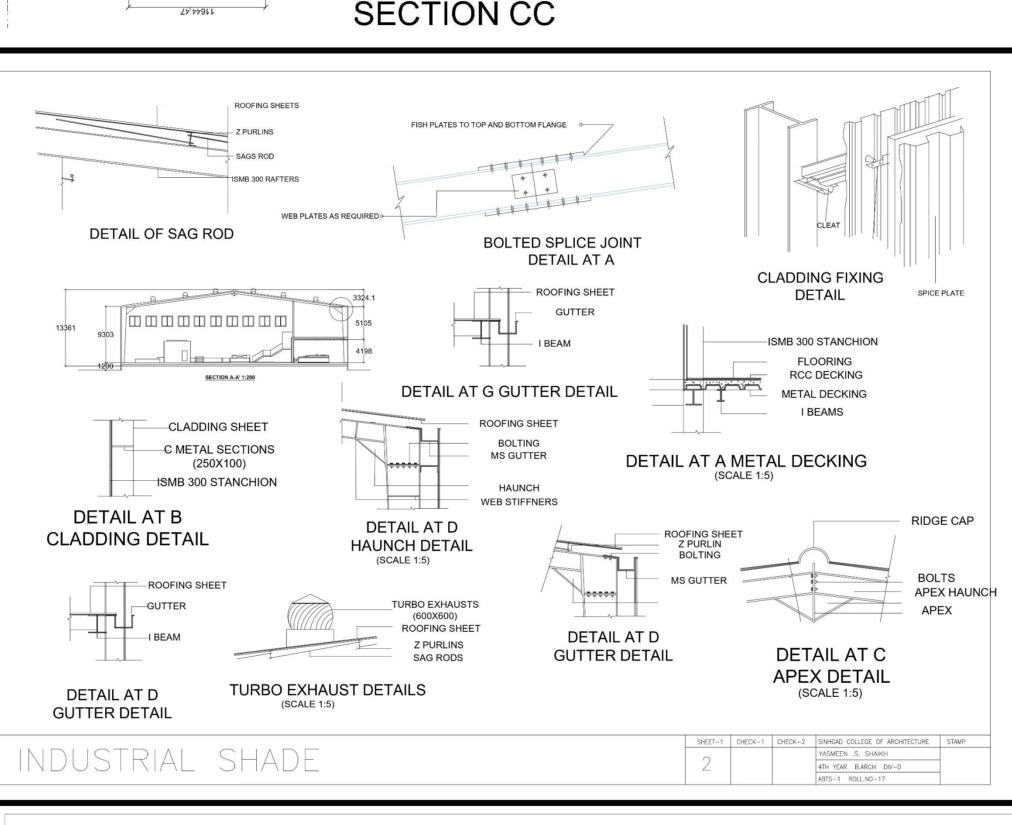


4th Year B.Arch 2021-2022 Design-VIII

URBAN DESIGN PROJECT









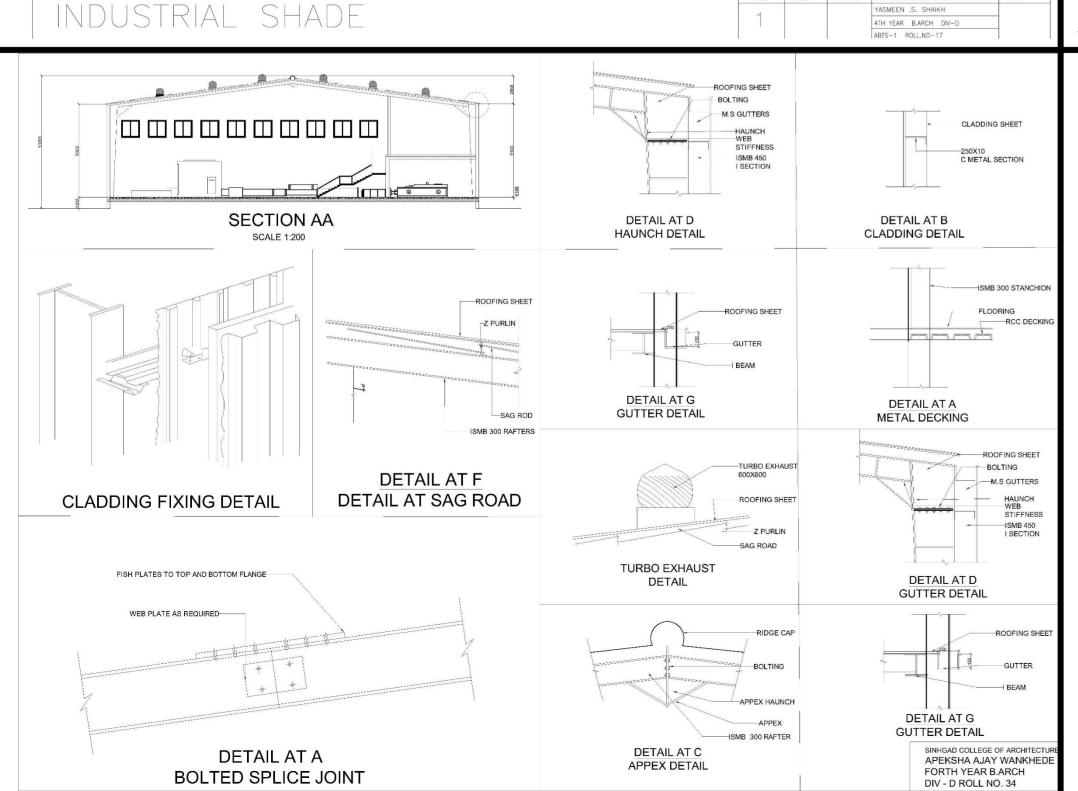
Introduction:

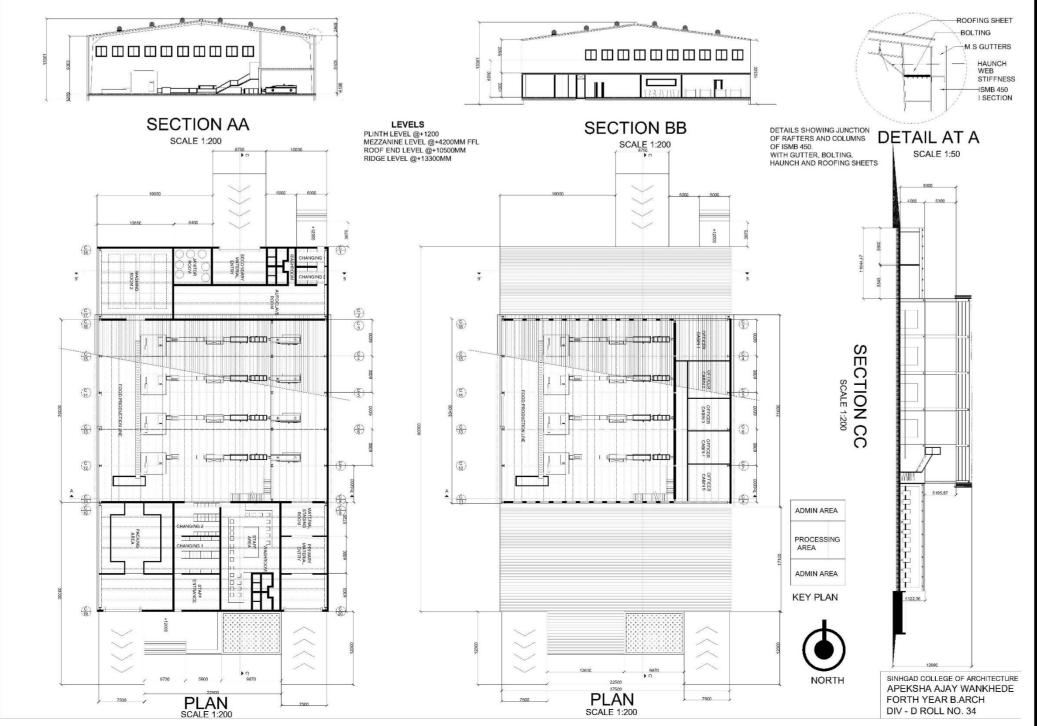
To introduce advanced structural systems, materials and services required in buildings with complex and special requirements and enable the students to integrate the same in design.

1.Design and construction of mediumscale industrial structures with reference to all architectural, and constructional details. The assignment will be on the same.

Student: Yasmeen Shaikh

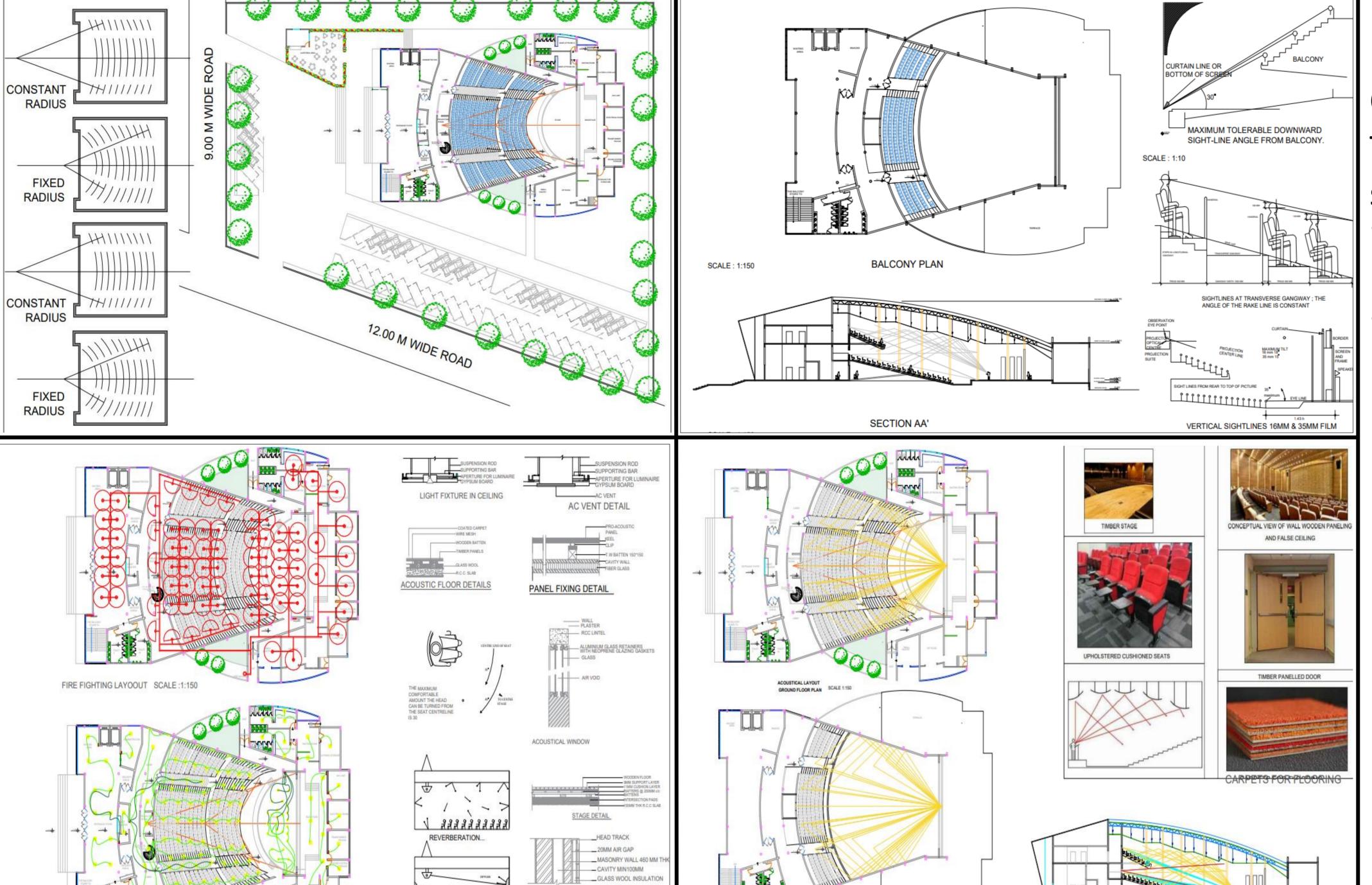
Faculty: Ar. Asmita Kale, Ar. Mukta Pandit





Advanced Building Construction and Services I Industrial Structures

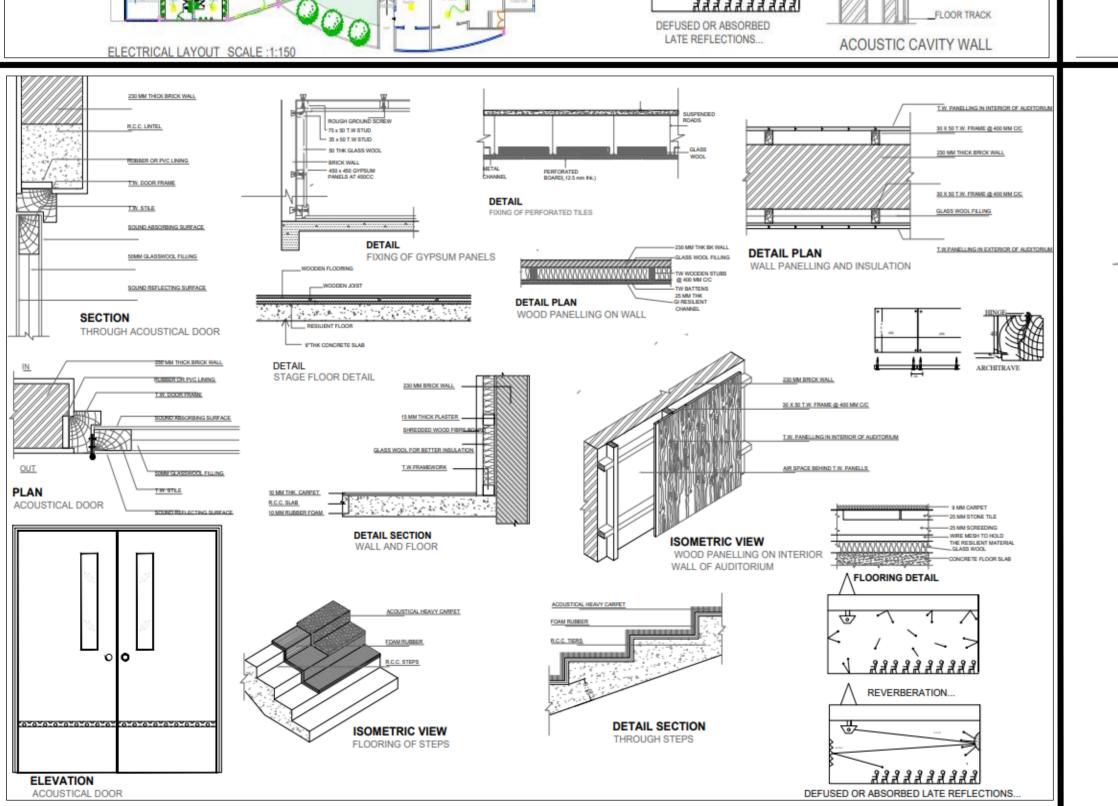
4th Year B.Arch 2021-2022

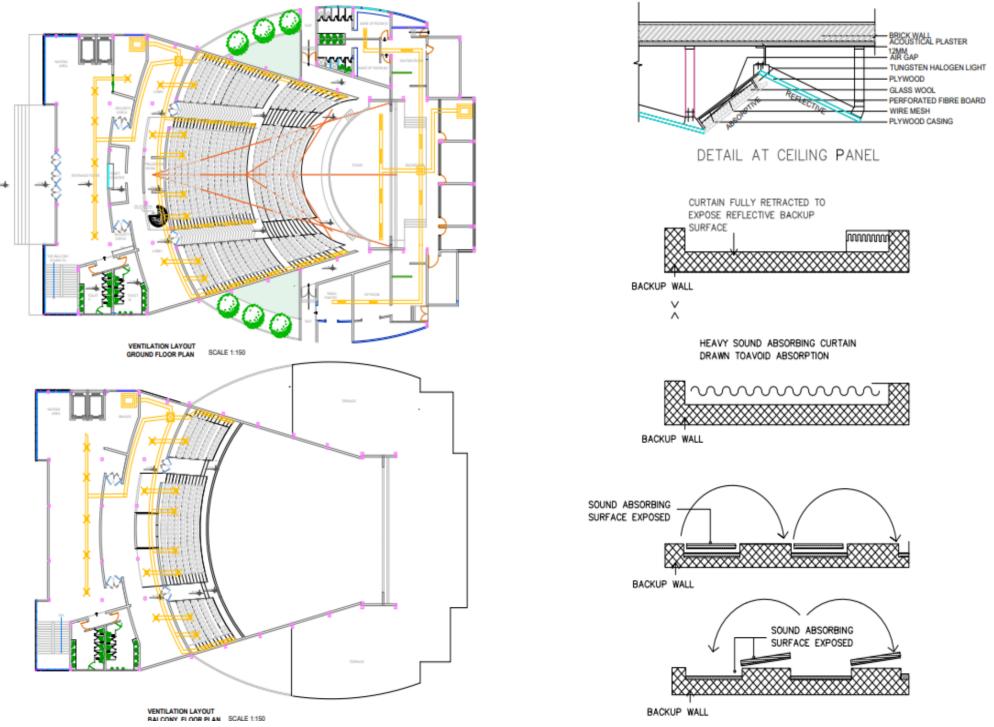


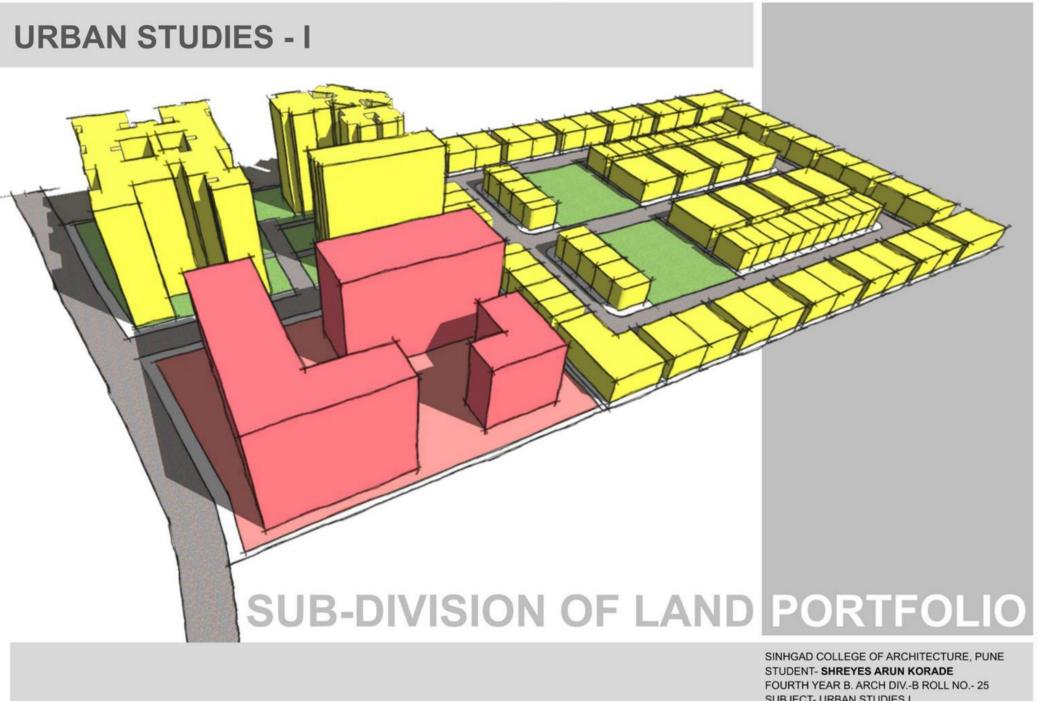
To Introduce Advanced structural systems, materials and services required in buildings with complex and special requirements and enable students to integrate the same in design.

Student: Ninad Deshmukh Faculty: Ar. Manasi Khope

4th Year B.Arch 2021-2022 Advanced Building Technology and Services - II





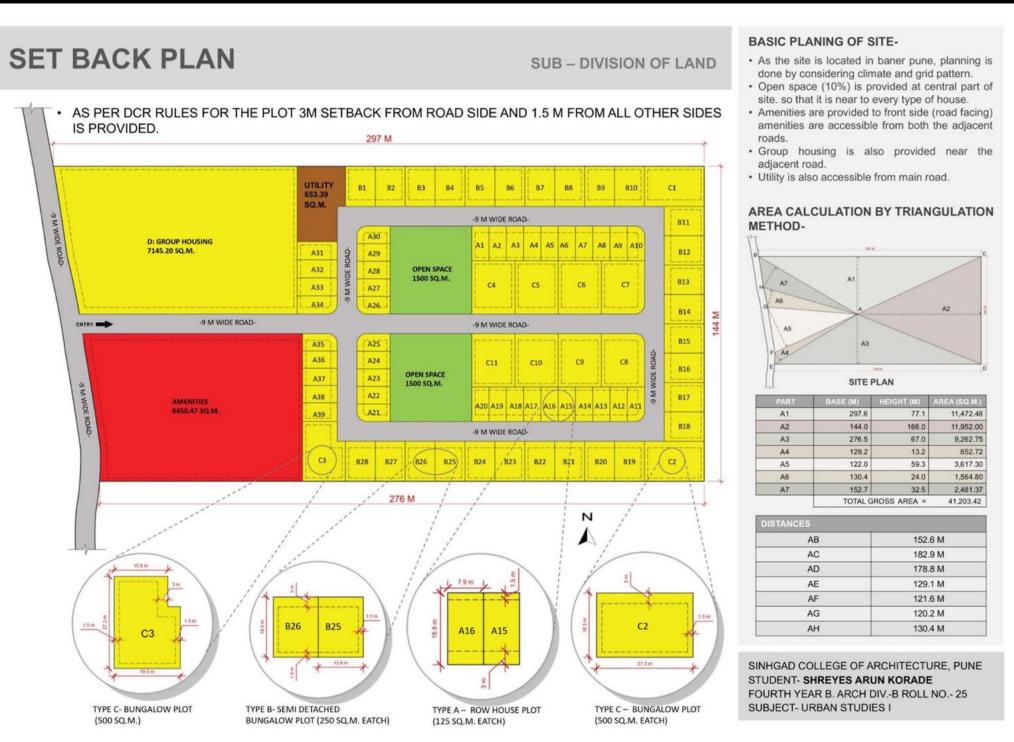


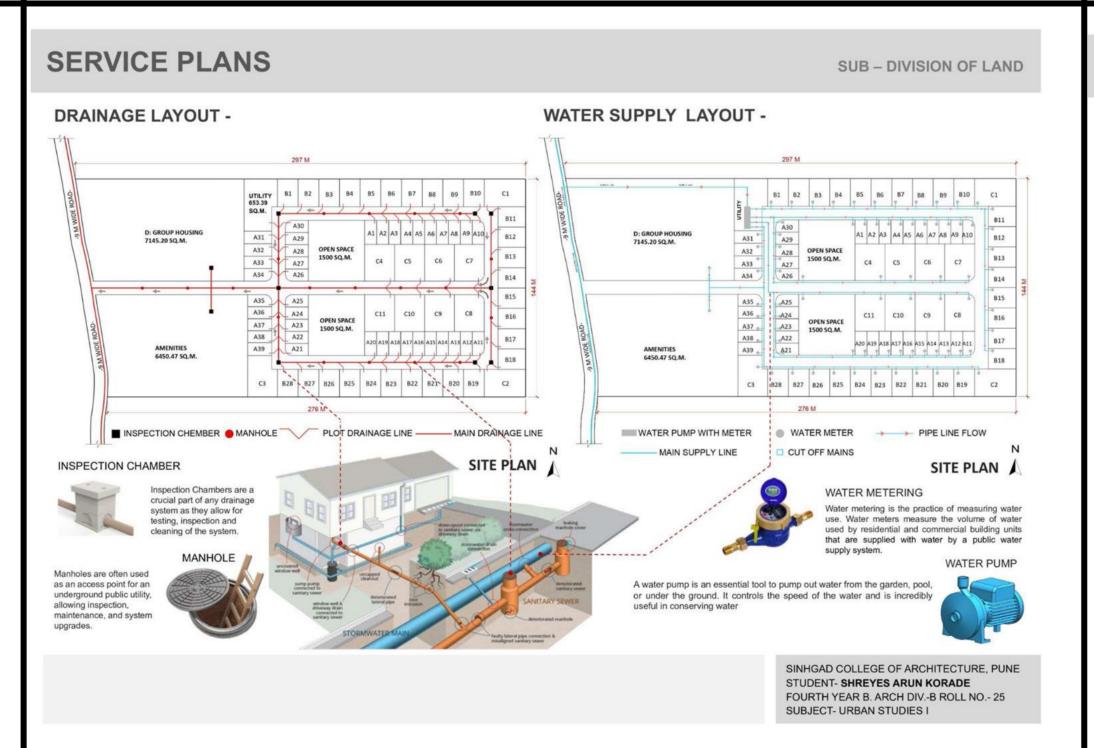
GAS SUPPLY LAYOUT (MNGL LINE PLAN) ELECTRIC SUPPLY LINE LAYOUT TO THE STREET OF T

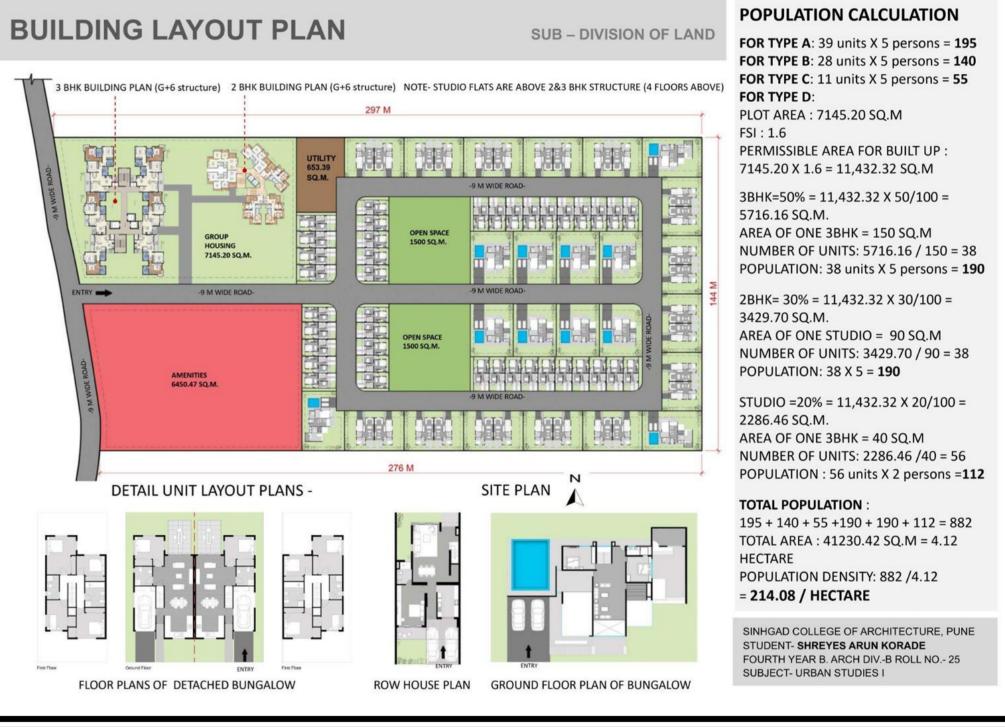
Sub-Division of Land

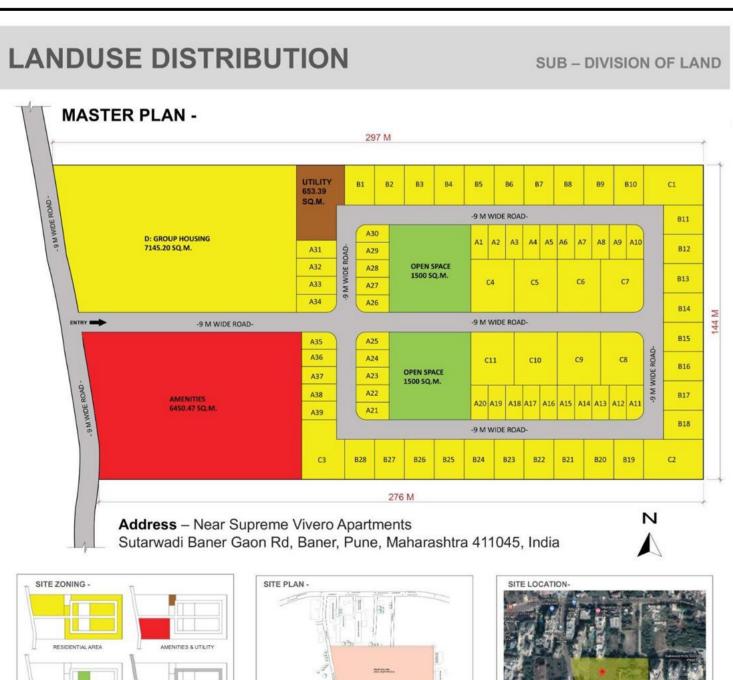
Subdivision of land for residential development (area 4Ha) —Individual assignment. The land piece is subdivided in no. of residential plots along with stipulated open space, amenity space and the road network as per the PMRDA rules and regulations.

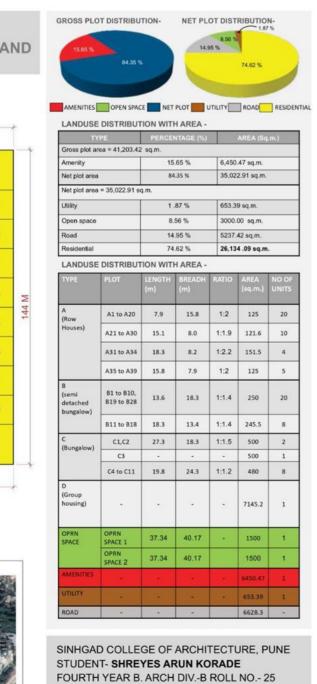
A service layout is also provided as a part of submission. Students were supposed to calculate the population density as well.

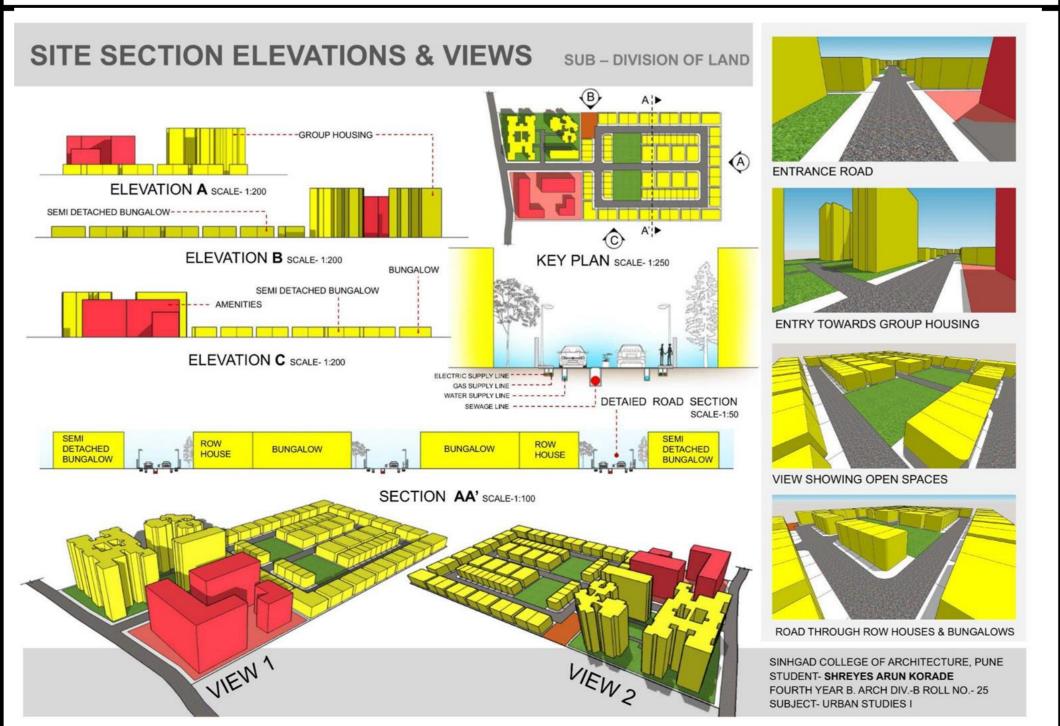






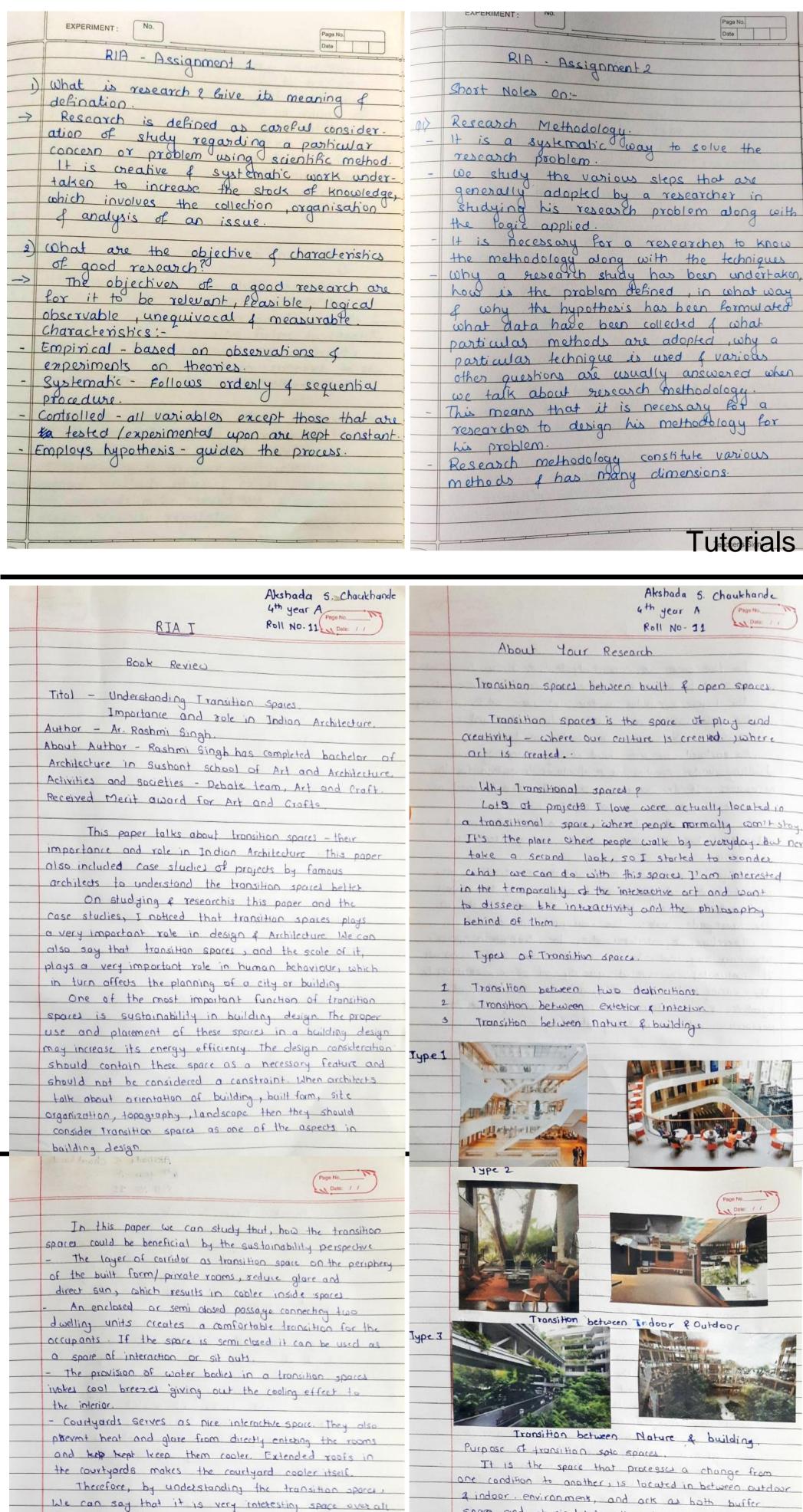






4th Year Year B.Arch 2021-2022 Urban Studies I

Sub-division of Land



Il contributed the spotial quality of space, whotever be

Book Review

the setting and context. Its role functional spound,

symbolic & visual and it served a building from the

perspective of sustainibility also.

space and physical link, other than being functional

Courtyards, Verandas, corridors, staircale & ramps

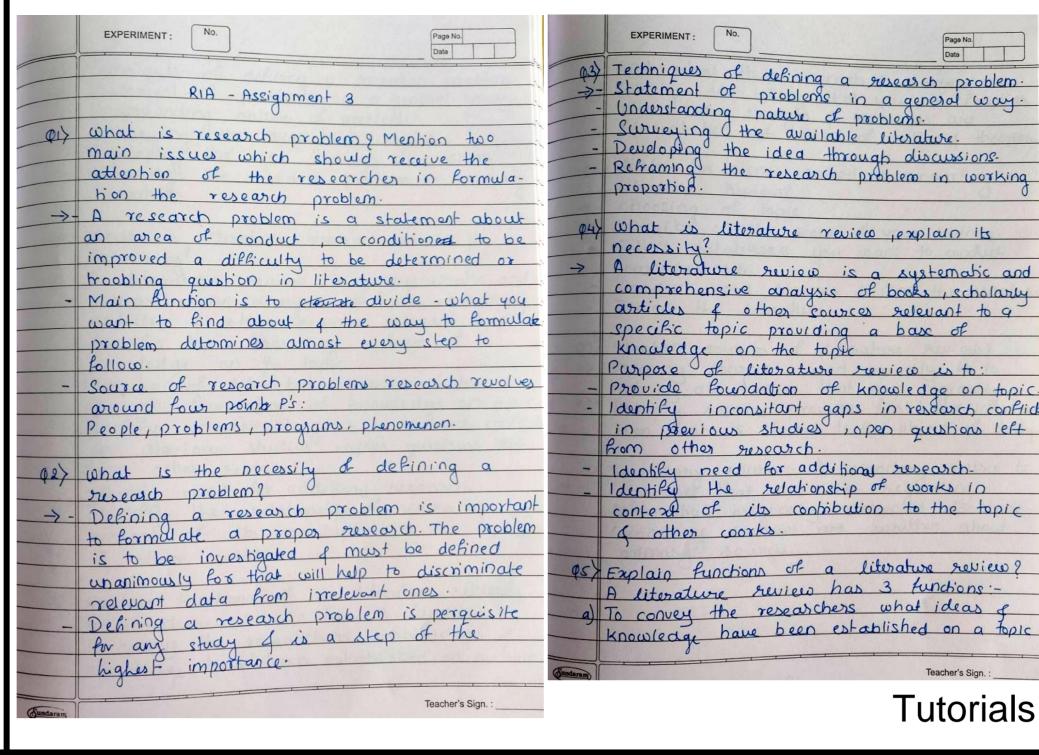
Research

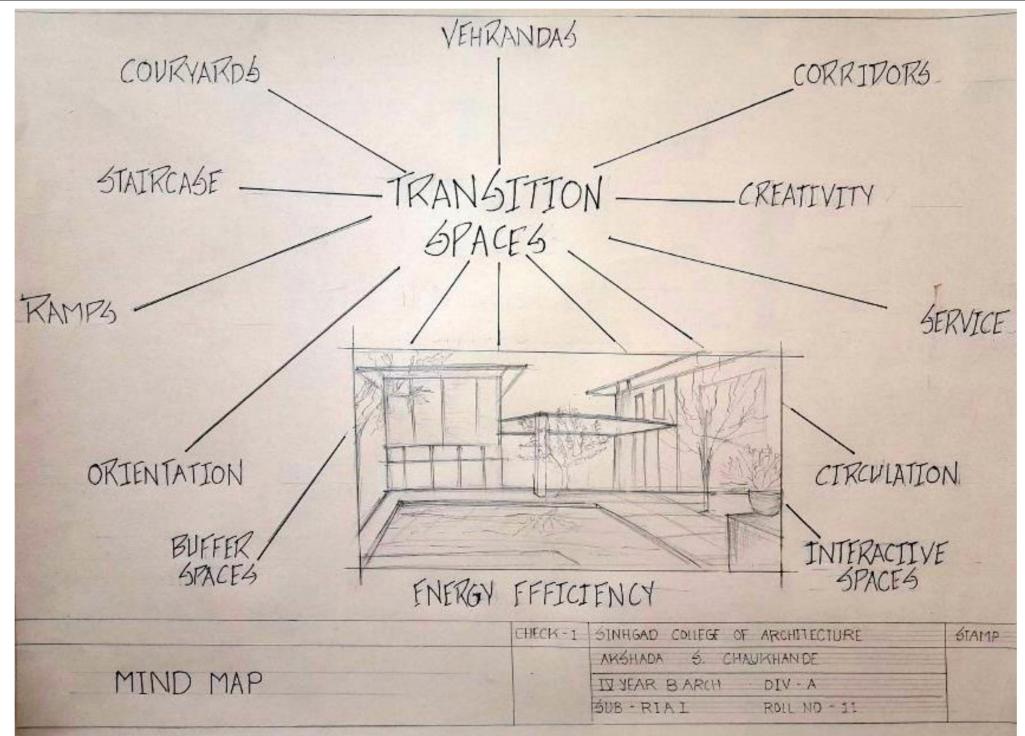
Proposa

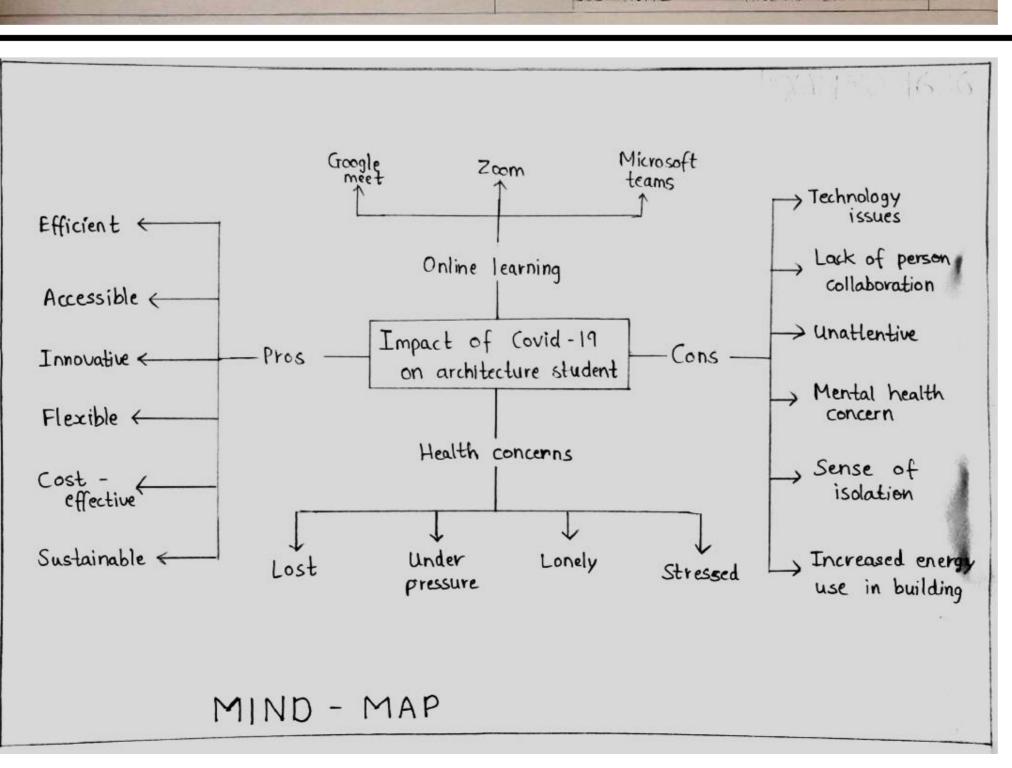
are common examples. These spaces are important as they make other state spaces, relate to each other

as circulatory routes for the building.

Examples about transition spaces.







Objectives:

Tutorials

Various themes such as kinds of variables, scope of variables, sample selection, Process of Research - Methodology, and how to conduct Literature Study are discussed, along with the purpose and necessity of research in architecture. To introduce students to Research in Architecture and its value in design. Use of secondary sources, surveys, observations, and experiments in order to accomplish the goal of introducing students to architectural research and empowering them to create a research proposal.

Student: Utkarsha Chaphekar, Akshada Chaukhande, Raksha Alangl Faculty: Dr. Pranoti Lad, Ar. Shreyas Paranjape

4th Year B.Arch 2021-2022 Research In Architecture I

TUTORIALS BOOK REVIEW MINDMAP

REDEFINING THE USE OF TRADITIONAL INDIAN ELEEMENTS IN CONTEMPORARY RESIDENTIAL STRUCTURES

To redefine the use of traditional Indian elements into contemporary residential structures.

OBJECTIVES

- 1. To redefine the use of these traditional Indian elements into the contemporary residential structures.
- To understand how the traditional elements reflect on the Indian culture and their lives.
- 3. The use of elements and their evolution through different case studies.

RESEARCH QUESTION

- 1. Would you redefine the use of these traditional elements in contemporary structures?
- 2. What are the different types of elements that can be used?
- Why has it become necessary to bring back the traditional elements?

4. Is the blending and use of the elements restricted to only residential structures?

NEED OF THE STUDY

Indian architecture contains various unique architectural styles having some typical elements of design which in present day can be incorporated in contemporary styles. These elements are a very important aspect as they constitute to establish architectural design. Therefore my paper aims to recognize and redefine the use of the traditional Indian elements.

Source: How to Infuse Traditional Indian Elements Into Your Modern Home (houzz.i

different spaces occupied within the architectural traditional style.

Carved door

2. Spatial narratives in traditional Indian architecture: An interpretation for contemporary relevance by Yatin Pandya, 10th

relevance. The paper aims to study the different narratives of traditional architecture through the tradition and culture of

India and to understand the contemporary relation through its interpretation. It further analyses how one can relate to the

May 2017 - To study the different related narratives in traditional architecture by understanding its contemporary

architectural styles that evolved in India and to understand how the religious diversity aspect has played an important role in these architectural styles. This paper has helped to understand the importance of tradition and culture and how it has reflected not only on our lives but also on the architectural style.

Source: https://www.irjet.net/archives/V7/i5/IRJET-V7I5807.pdf

SCOPE AND LIMITATION

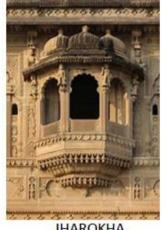
This paper will also help to process and bridge the gap between the so-called traditional Indian elements and the contemporary structures. The paper limits its study on traditional elements that is columns, doors, windows, Jharokas, jaali, pitched roof and courtyards. This research paper will be also limited only to the study of Indian traditional elements in contemporary residential structures and not the overall traditional architectural style.

INTRODUCTION

Architecture and human growth have always been quadrated. History has taught us that the invasion of industrialization and modernization has frequently taken over centuries of antique traditions and cultures in many countries. The contemporary elements compared to the traditional ones lack sustainability as the traditional elements were typically made up of stone or wood.

ELEMENTS IDENTIFIED FOR STUDY













1. A bungalow in Mumbai

Address - Mumbai, India Architect - Insitu by Kalakaarihaath Photography – Suleiman Merchant Elements include - door, ceiling and columns

This project in Mumbai is a renovated project that is a two-storey bungalow that is restored with traditional Kerala elements. The elements included in this are the heavy ceilings, columns, and a carved front door with a frame. "The main brief was to clean it up while maintaining the character of it, in a way that reconciled the aesthetic and the functionality of the space," says the lead architect of the project.



Main entrance door Source : Suleiman Merchant - Maram Bungalow





3. How to infuse traditional Indian

elements into modern homes by Preeti Singh, 10th may 2017 - To understand the different types of

elements and how to blend in the

elements into modern homes with

infusing these key traditional

the right tactic spots.

4. Glimpses of Indian Traditional

Architecture by Ar. Tania Bera, 5th May 2020 – This paper aims to study and

understand the different types of traditional

elements. One can be successful in

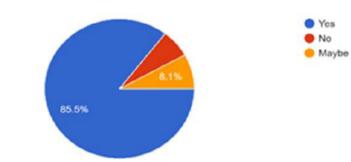


View of a hall area

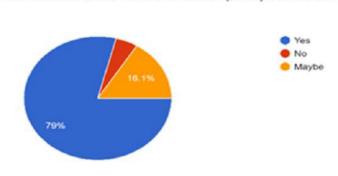
RESULTS AND OBSERVATION (SURVEY CONDUCTED FOR THE ARCHITECTURAL STUDENTS AND ARCHITECTS)

- The analysis of the data collected through survey shows that majority of the people (85.5%) would consider having traditional Indian elements in their home while 79% of people also consider redefining the use of it through blending them in the contemporary structure.
- The different elements people would consider having in their home are pitched roof, Intricated Jaalis patterns, carved doors and windows, Jharokhas, columns, and courtyard with a majority of people (41.9%) considering of infusing Intricate jaali pattern followed with other elements mentioned

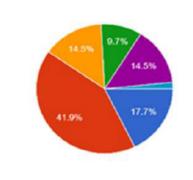
Would you consider having traditional elements in a contemporary house?



Do you think Indian traditional elements and contemporary can blend in together



What type of traditional elements would you like to see in your home?



O Carved wooden doors and windows Jharokha-Style Balconies

SOURCE: Author

CONCLUSION

This paper reveals the use of these traditional elements in contemporary structure while redefining them. Blending in the traditional architecture along with contemporary designs is the best bet to keep alive the magic of the traditional Indian element along with the convenience of contemporary designs. Traditional Indian elements were not only about the aesthetic appeal but also rather blending in with the climate & atmosphere of a particular region. We must try and implement these aspects in our designs. The addition of the traditional Indian element should not be thought of as a mere aesthetic feature but should also contribute to the quality of the space. Provided these things are taken care of, Indian elements could very well be incorporated into contemporary residential structures.

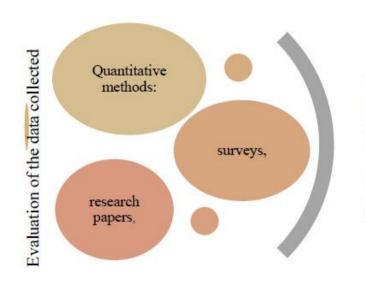
REFERENCES

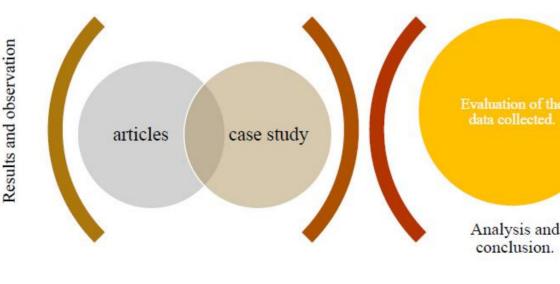
- i. New tab (houzz.in) (Singh, 2017)
- ii. This Mumbai bungalow is a vision of old Kerala | Architectural Digest India (Shankar, 2021)
- iii. An Indian Modern House / 23DC Architects | ArchDaily
- iv. spatial narrative in traditional indian Search (bing.com) (Pandya, 2017)

Student: Janhavi Dhamdhere

Faculty: Ar. Pranoti Lad, Ar. Vrushali Dhamne

METHODOLOGY





LITERATURE REVIEWS

 Use of Architectural Elements in Evolution of Regional Style in Jaipur by Shubham Sharma, 2009 – This paper aims to study the use of an architectural element in Jaipur and its evolution of style and to understand the different types of elements used and the evolution of its style throughout considering the climate





Source: https://www.slideshare.net/shubhamarch/use-of-architectural-elementsn-evolution-of-traditional-style

2. A house in Jalandhar

Address – Jalandhar, India Architects – 23DC Architects Lead Architects – Shiv Dada, Mohit Chawla Photographs - Purnesh Dev Nikhanj Project Year – 2018

This house in Jalandhar is one of the best example where the blend can be seen of traditional Indian elements in a contemporary structure. The elements that are blended in this structure are the columns, courtyard and carved door. A courtyard in this bungalow is an element that is open to the sky which provides an outdoor space but is designed in such a way that it is away from the public eye.

Other elements like ornamented stone columns can be seen along the garden area. These elements in the bungalow not only adds to the aesthetic but also contribute in the quality aspect of the space.



Secondary entrance door

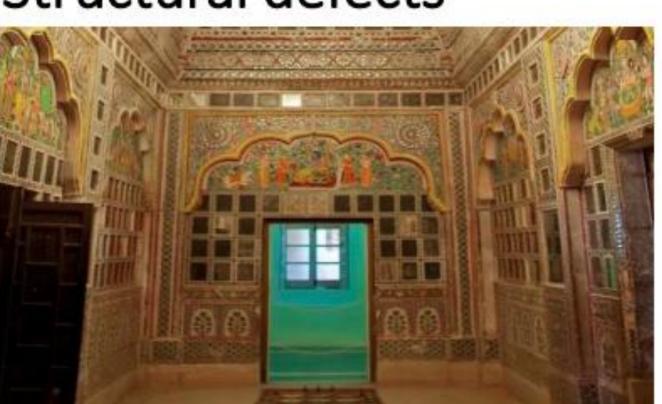


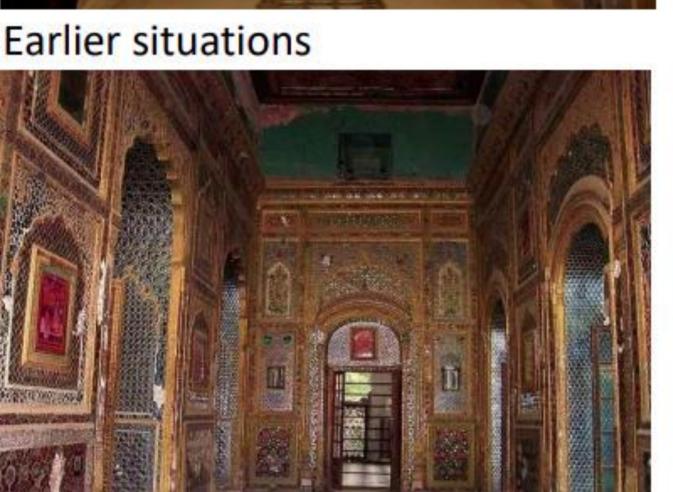


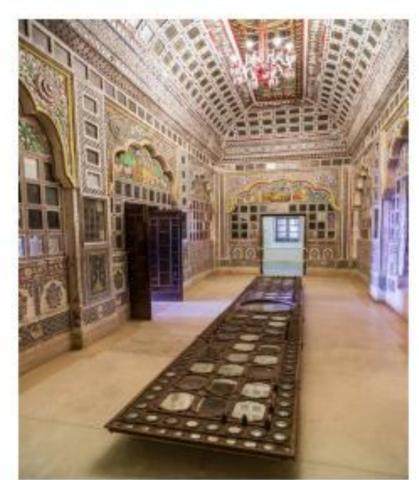
4th Year B.Arch 2021-2022 Research In Architecture II

SEMINAR PRESENTATION

Structural defects







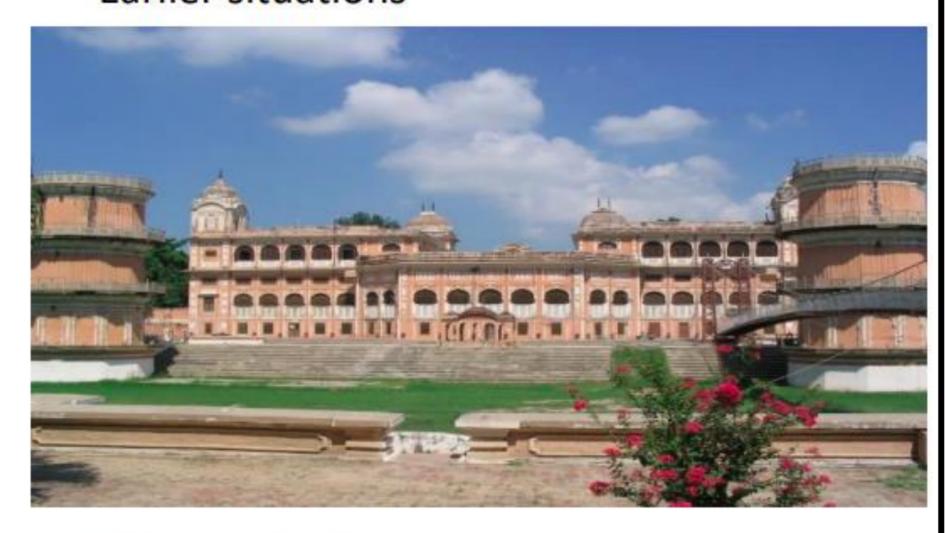
Todays situation

Defects: Breaking the interiors mirrors.

Causes: Spontaneous breakage of tempered glass is most commonly caused by chipped or nicked edges during installation, stress caused by binding in the frame, internal defects such as nickel sulfide inclusions, thermal stresses in the glass, and inadequate thickness to resist high wind loads



Earlier situations



Todays situation **Defects**: Fading

Causes: It mean discoloration of the exterior walls, domes .this mainly due to atmospheric agencies such as sunlight, moisture etc.

COURSE CONTENT:

- Mind map
- Inventory Information
- Structural Defect
- Poster for World Heritage Site
- Cultural Landscape Case Study

Student: Ninad Deshmukh Faculty: Ar. Avani Topkar



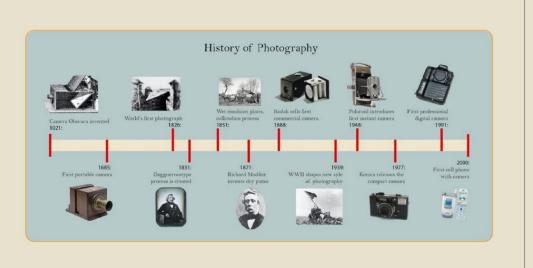


ARCHITECTURAL

4th Year B.Arch 2021-2022

CONSERVATION

Elective-II



notography, as we know it today, began in the late 1830s in France. Joseph Nicephorus Niepce used a portable camera obscure to expose a pewter plate coated with bitumen to light.

ASSIGNMENT 1 (OBJECT SHARP & BACKGROUND BLUR)

ELECTIVES-III

TYPES OF CAMERA

Compact digital cameras allow anyone to capture beautiful images by simply pointing the camera at the subject and clicking the shutter.

It is smaller and lighter, doesn't require film or extra lenses, and does all the hard work of automatically adjusting its settings to deliver well-exposed photos every time.

Very user-friendlyLight and compact, no need for film or extra lenses

Limited aperture and zoom range nosier photos due to small sensor lower resolut:



Aperture is the adjustable lens opening that controls the amount of light allowed into the

It functions much like the pupil in a human eve, which dilates to let in light and narrows settings. Your aperture setting is measured in what's known as an f number, also called an f-stop. The lower the f number, the wider the aperture, and vice versa. An aperture o f/8 would indicate a smaller aperture, whereas one of f/2 would open much wider and let in more light. A food photographer might use a wide aperture to create a shallow depth of field where the subject is in focus but the background is blurred out. Imagine piece of cake that looks crisp and clear, but the edge of the plate right behind it is blurred. A greater depth of field would be used for something like landscape photography, where everything from nearby trees to distant mo



Exposure is one of the most fundamental photography terms. When you take a picture, sensor. Exposure is the amount of light that reaches your camera's sensor, creating visual data over a period of time. That time period could be fractions of a second or entire hours. The right exposure is a balancing act. Overexposure leads to overexposed highlights and faded-looking images. Underexposed images are dark and hard to see.

EXPOSURE- I



response from a

Shutter speed is exactly what it sounds like: It's the speed at which the shutter of the camera closes. A fast shutter speed creates a shorter exposure — the amount of light the camera takes in — and a slow shutter speed gives the photographer a longer exposure.

parameters of exposure are equal, using a "slower" (longer duration) shutter speed will increase exposure and result in a brighter picture, and using a "faster" (shorter duration) shutter speed will reduce exposure and result in a darker picture. Most cameras with fully manual and semi- automatic controls permit photographers to set the shutter speed within a predefined range. The available range varies depending on the make and model of a camera. A typical sequence of shutter speeds is (in seconds) 1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, and 1/8000. This sequence follows a geometric progression where the difference in exposure between adjacent values is one stop (1 EV), each exposing the image sensor for either double or half the duration of its neighbour. Most cameras will also permit the selection

RELATIONSHIP BETWEEN SHUTTER SPEED AND APERTURE:

intermediate steps in one-half and one-third stop increments

The lens aperture is a diaphragm that is in the lens itself or immediately behind it. It affects the amount of light that passes through the lens



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** ** ** ** ** ** ** **

TYPES OF LENS



A normal lens" a he mentions, is one that sees in a similar proportion to the human eye These are typically between 35mm and 50mm and are among the most common prime lenses on the market (most brands sell a 50mm 1.8 for under \$250) They are wonderful for travel and street photography, because the ages strike us as something that we would see with our own eye.



can tumor slide them in order to zoom in and out. These are profited by most travelers and hobbysts, because one or two lenses will give you an entire range, and you don't need to be carrying a big, heavy camera hag and switching between ultra- wide and wide, or normal and telephoto.





Telephoto lenses are technically defined as anything exceeding 50mm, though the term is usually used to describe lenses which are hand 100mm: the ranges between 50-100mmm are more commonly referred to as "portrait lenses because that is what they excel at and are primarily used for Just the opposite of wide-angle lenses, telephotos shorten the dof field enabling you to isolate your subjects from the background with shallow focus

this is when only a short plane is sharp and everything in front of or behind that plane



It is an ultra wide-angle fs that produces strong visual distortion intended to create a wide panoramic or hemispherical image Fisheye lenses achieve extremely wide angles fs view. Instead of producing images with straight lines of perspective (rectilinear images), fisheye modes use a special mapping (for example, equip solid angle), which gives images a



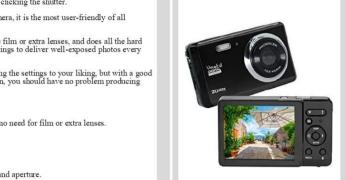
Objective:

- 1. Introduction to camera history and its learn its details regards to its different parts like flash, lenses, modes, etc.
- 2. To understand internal mechanism of Camera, Difference between Compact and SLR, Exposure I - Aperture and shutter, Exposure II -Summer, cloudy climate, outdoor/external shoot, Indoor shoot, Night shoot
- 3. To understand Camera Function I- Control Dial, Aperture priority, shutter priority, manual function, Camera Function II- Menu: Functions, Supportive function
- 4. Practical demonstration

Also known as a point-and-school camera, it is the most user-friendly of all

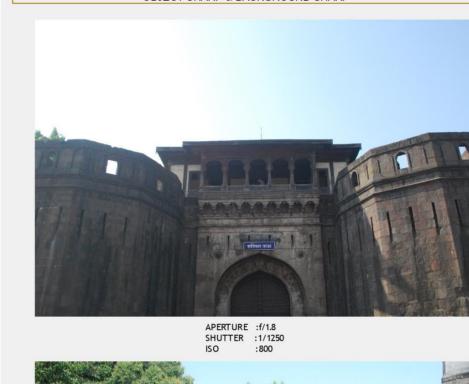
You won't have the freedom of adjusting the settings to your liking, but with a goo artistic eye and a knack for composition, you should have no problem producing great photos.

Usually can't customize shutter speed and aperture.













CAMERA FUNCTIONS - 1

Wide-angle lens have three classes. Wide, ultra-wide, and fish-eye. You can tell a fish-eye lens by looking at it because how the front element outwards allow it to see a wide as 180 degrees. This gives the signature fish-eye effect which hands all straight

lines around the center and creates a circular effect in the image. These lenses are fantastic for certain purposes, but are often

In "Shutter Priority" mode, you manually set the camera's shutter speed and the camera automatically picks the right aperture for you, based on the amount of light that passes through the lens. This mode is intended to be used when motion needs to be

In automatic modes the camera determines all aspects of exposure, choosing exposure parameters according to the

application within the constraints of correct exposure, including exposure, aperture, focusing, light metering, white

Manual mode is one of the main settings on your camera, and it lets you manually control shutter speed, aperture, and ISO. These three settings work together to control the how bright or dark your photo is (known as exposure), as well as change

Portrait mode will "think" that there is a subject in the foreground of the frame and choose a shallow depth of field to keep the human subject in focus but the background blurred. If the camera reads the scene as dark, it will add fill-in flash. Fill-in flash is useful in sunny conditions too, when the sun casts a harsh shadow. Portrait mode generally works best in well-lit conditions.

> Macro mode is very useful for taking photographs of subjects smaller than your hand. Remember that macro mode will not give you super close up images; for this, you will need a macro lens. Macro mode will work best in bright conditions and will choose a shallow depth of field to focus on the subject. Therefore, if light is low, use a tripod. Your focusing also has to be more precise when

Landscape mode usually uses a small aperture (high f/number) to create a well-focused image from the foreground into the distance. Landscape mode tends to suit a wide lens and works well if the scene is well lit. It will use flash if it reads the

Because sports are fast-paced activities, sports mode will give you a high shutter speed of at least 1/500 – 1/1000 of a second. With a high shutter speed to freeze movement, means that the flash is usually not necessary – though once again this works best on a bright day. Sports mode can work well alongside continuous shooting mode, where images are taken consecutively resulting in many shots that capture the action.

In the night portrait mode, the camera will try to balance the darkness of the background with the need to light the subject in the foreground. The aperture will have to be fairly wide to allow enough light in to capture the background and keep the subject in focus, but at the same time flash is necessary to illuminate the person and avoid blur. Sometimes the night portrait mode will double flash, creating an unusual double exposure look.

taking a macro image.

This is because when you use a shallow depth of field, you give yourself a smaller margin for error.

foreground as too dark, but you can manually turn this off.

1.) APERTURE PRIORITY MODE (A/AV) :

2.) SHUTTER PRIORITY MODE (TV/S)

balance, and equivalent sensitivity.

the overall look of the image.

CAMERA PICTURE

3.) AUTO MODE (AUTO):

overused without real purpose use them with caution.







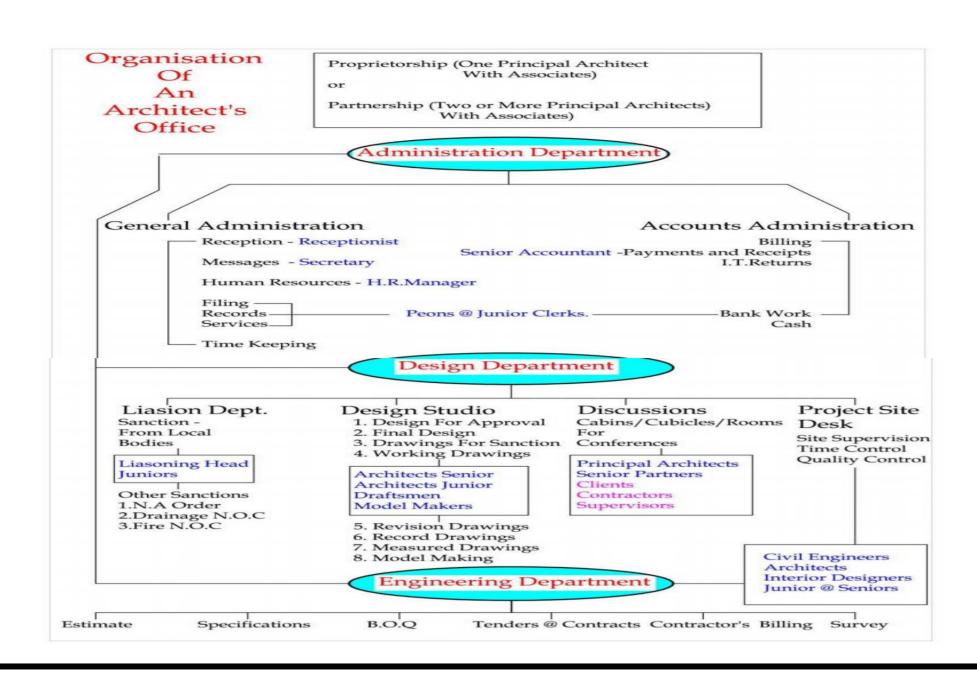






4th Year B.Arch 2021-2022 **Elective-III PHOTOGRAPHY**

Sample of lecture and PPT content **Organisational Chart of an Architect's Office**



The Pune Context

Over the last few decades, the City of Pune has seen rapid growth. The once idyllic town has grown in leaps and bounds due to the Industrialization, Proliferation of Educational Institutes, and IT Boom and as such the 'Development' has not matched the 'Growth' of the City and hence the City is found wanting as far as certain Civic amenities are Concerned.

10 points/issues in Pune context:

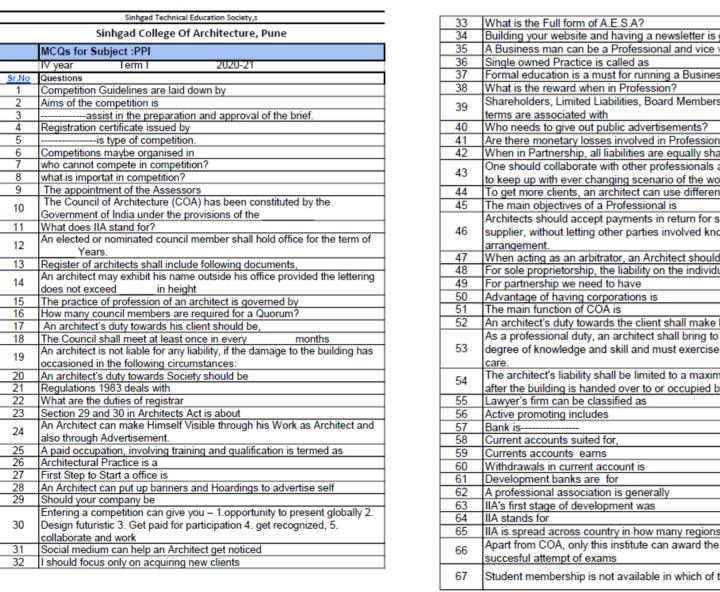
- 1. Traffic issues: A lack of Strong Public transport, issues magnified by Lack of traffic
- 2. Pedestrian Insensitivity: Lack of adequate infrastructure for Pedestrians 3. Increasing Environmental Pollution: The
- 4. Untreated Sewage Problem: Sewage

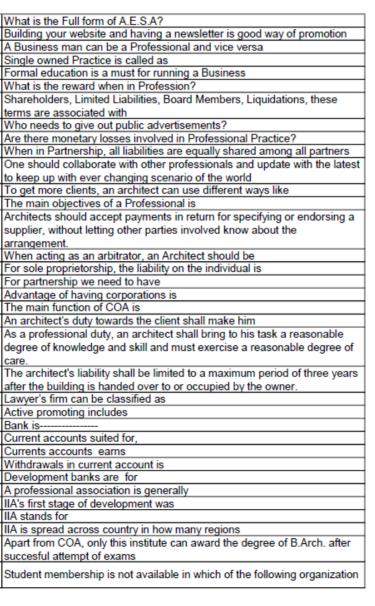
untreated but let in the river causing pollution

- and degradation of River. **5. Encroachments:** Encroachments in River by way of Roads, slums
- Hills Endangered: Development (Unauthorised or otherwise) of Hills and hill slopes surrounding the city.
- 7. Ground Water Depletion: Unequal Water Supply in parts of Pune City leading to excessive use of ground water causing depletion.

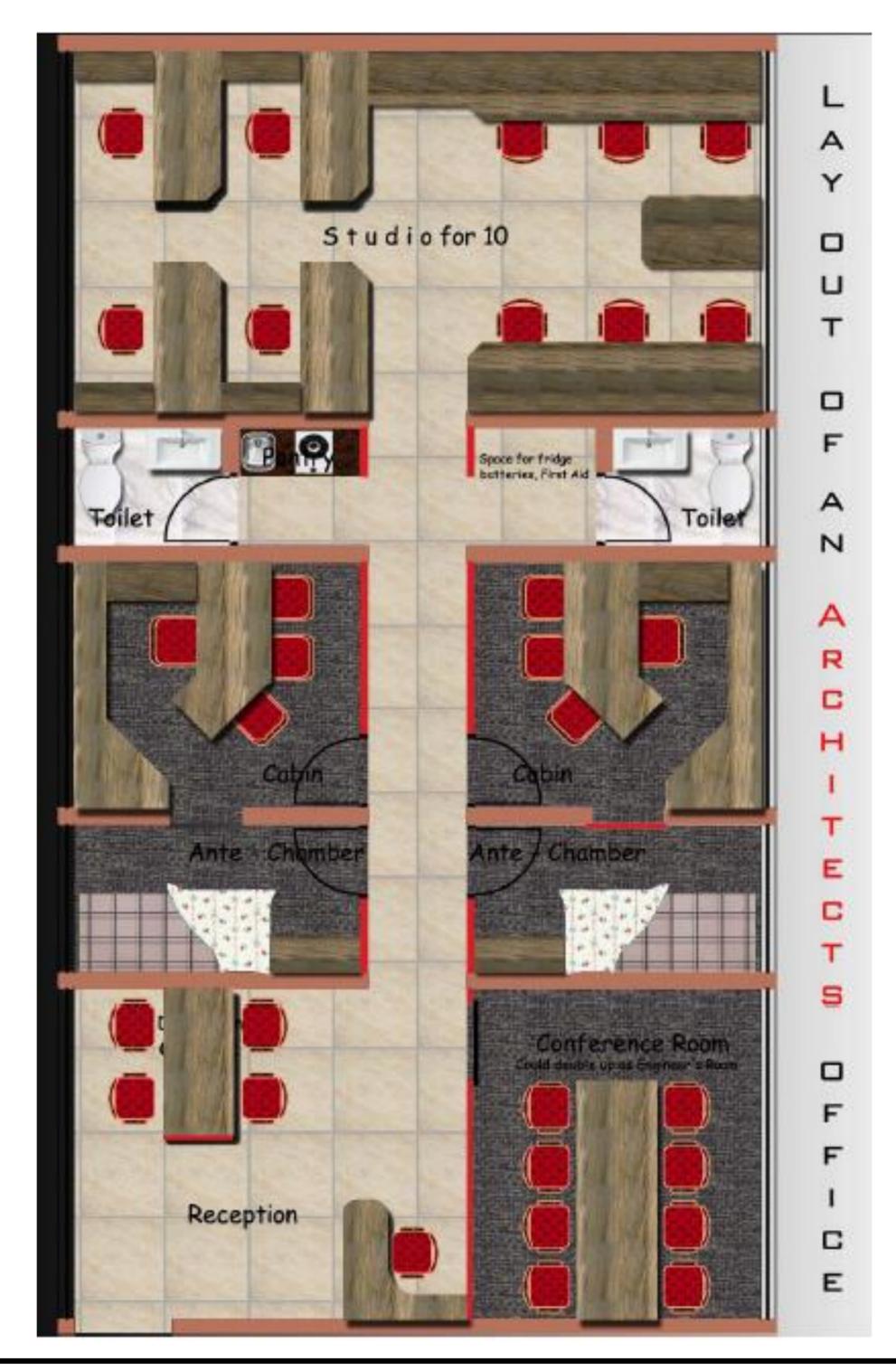
- 8. Reduction in Green cover: Green Cover Depletion to accommodate the growth of the
- 9. Solid Waste Mismanagement: The City generates huge amount of garbage everyday which is taken to land fill sites outside the City. Unavailability and resistance for of land fill sites has made garbage disposal a major issue for the City and there is urgent need to take up decentralized segregation, vermin composting of wet garbage and recycling to ensure a better Solid waste management
- 10. Menace of Proliferation of Slums and **Squatter settlements:** Due to increasing
- migration and lack of cheap housing Slums are on the increase resulting in settlements that -lack--basic--sanitation--and--have--poor--living

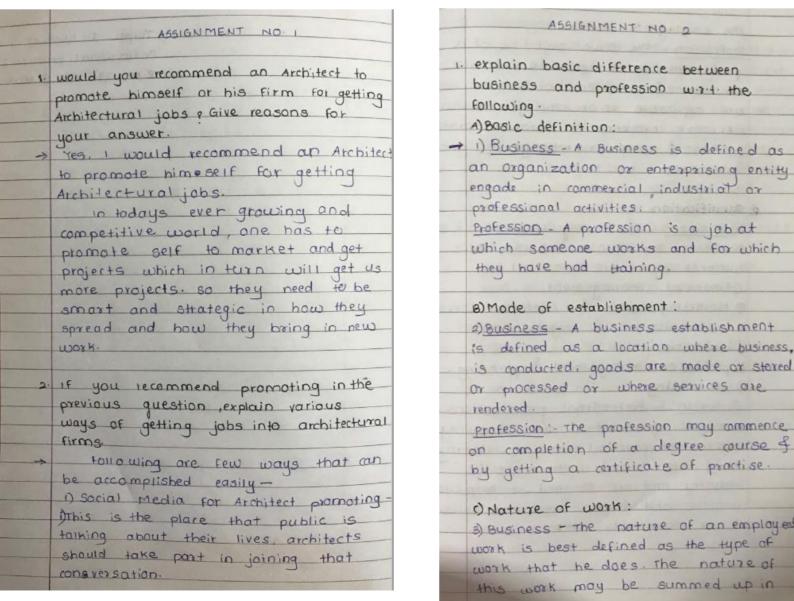
Sensitivity to urban context





Circulated Question bank for MCQ





Handwritten notes by students

Course Objectives:

- To acquaint the Student with the Role and Stature of an Architect in Society, and understand the duties, responsibilities, liabilities and ethics as a professional.
- To acquaint the Student with the Scope and Avenues of professional Architectural services, and the demands and Mode of professional practice, and to prepare the Student for the professional field.
- To familiarize and prepare the Student with adequate knowledge of an Architect's office administration, documentation and procedures of office and site management to enhance his comprehension and utility during his professional training in the field in Semester IX.

Student: Trupti Khedkar Faculty: Ar. Pallavi Patil

4th Year B.Arch 2021-2022

PROFESSIONAL PRACTICE - I

Sample of lecture and PPT content

1.1Importance of Construction Management

Construction is a vital process to convert an Architect's Design into reality. Most Architects may find this process a tedious one and not part of their creative journey specially the tendering and post tendering Site Management process; however the process is an unavoidable part of an Architect's

Let us once again look at the stages of an Architects service to his client in brief against the fees due

Stage.1 Conceptual Design and Rough Estimate - 10% of fees

Stage.2 Preliminary Design and Estimate - 20%

Stage 3 b: Final Client's approval necessary for construction Drawings making - 35%

Stage.4 Working Drawings, Specifications, Quantities take off etc. – 45%

Stage.5 Inviting Tenders, Receiving Tenders, Appointment of Contractors – 55%

Stage.6 a: Drawings necessary for Commencement of work - 65%

Stage.3 a:Final Design Approval and Local Approval Drawings – 30%

Stage.6 b: 1 to 5 - 20% to 80% to Virtual Completion of Work - 90%

Stage.7 Submitting Completion Report etc. - 100%

It can be easily seen that we as Architects receive only 35% of our fees up-to the Design Stage as opposed to 65% i.e. major part of our fees is for the construction process. Though another way of looking could be 55% is received for office work and 45% for site work. While it can be argued that Design is a vital part of the Construction Process, and hence is the most important part of an Architect's Office work, the counter argument that deep knowledge of good construction practices, Building technology, Services, Structures, Quantities take-off, Specification Writing, Tendering, Site Management etc. should be as important to us. However neither do the academicians give these subjects their due place nor do we as students accord them their due pedestal. Herein I am lamenting the situation of our lack of interest and gathering of knowledge in these vital fields. Herein I am citing the reasons for giving importance to Stages 4, 5, 6 and 7.

3.a.10The salient features of the revised NBC

The salient features of the revised NBC include, apart from the other changes made, the changes specially in regard to further enhancing our response to meet the challenges posed by natural calamities. The major changes incorporated in this third revision of the Code are as follows:

- Provisions for association of need based professionals and agencies have been updated to ensure proper discharge of responsibilities for accomplishment of building project.
- With a view to ensuring ease of doing business in built environment sector, a detailed provision for streamlining the approval process in respect of different agencies has been incorporated in the form of an integrated approval process through single window approach for enabling expeditious approval process, avoiding separate clearances from various authorities.
- Further, with a view to meeting the above objective, the provision on computerization of approval process has been detailed, enabling online submission of plans, drawings and other details, and sanction thereof, aiding in speedier approval process
- The mechanism of ensuring certification of structural safety of buildings by the competent professional and peer review of design of buildings have been further strengthened Requirements for accessibility in buildings and built environment for persons with disabilities
- and the elderly have been thoroughly revised and updated. Provisions on fire and life safety have been thoroughly revised to meet the challenges of modern
- complex building types including the high rises. Latest structural loading and design and construction codes including those relating to wind load, earthquake resistant design of buildings, steel design and foundations have been incorporated with a view to ensuring structural safety of buildings including against a disaster
- Provisions relating to all building and plumbing services have been updated keeping also in view the latest international practices as related to the country.
- Provisions have been updated to ensure utilization of number of new/alternative building materials and technologies to provide for innovation in the field of building construction. · Construction management guidelines have been incorporated to aid in timely completion of
- building projects with desired quality in a safe manner within the budgeted cost. Guidance has been provided for making buildings and built environment energy efficient and
- environmentally compatible, through the newly introduced and updated chapter on sustainability, namely Part 11 'Approach to Sustainability'

The Architect: who Plans and Designs the project in consultation with the Owner and allied

echnical Consultants, Specifies the materials, works out the Quantities, Estimates the

onstruction cost, procures official Approvals and Sanctions from the Authorities, and,

3.a.9 A0 - INTEGRATED APPROACH TO THE APPLICATION OF NATIONAL BUILDING CODE

- PART- 0 in Volume-1 of the National Building Code of India deals with a guideline for an INTEGRATED approach and application of all the provisions of the National Building Code. This part recognizes the need for a TEAM APPROACH to Building Design, Construction management, Operations and Maintenance
- The purpose and essence of this Section which has been included in the latest Edition of the National Building Code is that, Building Construction today, is no longer the domain of an individual Architect or Developer with respect to adoption of standards of quality and safety. A TEAMWORK approach is now necessary to manage construction.
- As a result of the growing magnitude and complexity of projects, a **TEAM** of specialist consultants and experts in different aspects of the construction project are necessary now to achieve a successful completion. The stakeholders TEAM of qualified and experienced professionals in various fields required today include
 - The Architect as Principal Designer / Co-coordinator
 - 2. Civil Engineer (Contractor)
 - 3. Structural Engineer
 - 4. Geo-technical Engineer Electrical Engineer

 - Fire protection engineer; HVAC Engineer;
 - 9. Mechanical Engineer for Lift, Escalators
 - 10. Acoustics specialist;
 - InfoTech / communications technology Engineer;
 - 12. Health, Safety and Environment specialist;
 - Environment / Sustainability specialist;
 - 14. Town Planner; 15. Urban Designer;

Role and Responsibilities of the Architect

hereafter Supervises and Monitors the construction on site

- An Architect is appointed by the Owners / Clients to Design And Technically translate their dreams and desires into Architectural Drawings, Structural Engineering systems, Essential Services, Quantities, Specifications, etc. and finally, into a Built Reality!
- An Architect is also expected to Design buildings in accordance with Development Control Rules and Assist the Owner / Client in obtaining official initial Building Permission and the final Occupancy Certificate from the Local Municipal Authorities and to certify the Quality of the construction and its fitness for Occupation by the Owner Finally, An Architect is supposed to assist the Owner / Client in Appointing a Contractor for construction, and Monitoring and Supervising the Quality, Cost and Time of the construction

The Contractor: who quotes the price for construction, enters into a Contract with the Owner to construct the project at a committed Cost, with required Quality and within a given span of Time, by providing the Labour, Materials, Tools and Machinery and Technical expertise to construct the building as per the Architects design

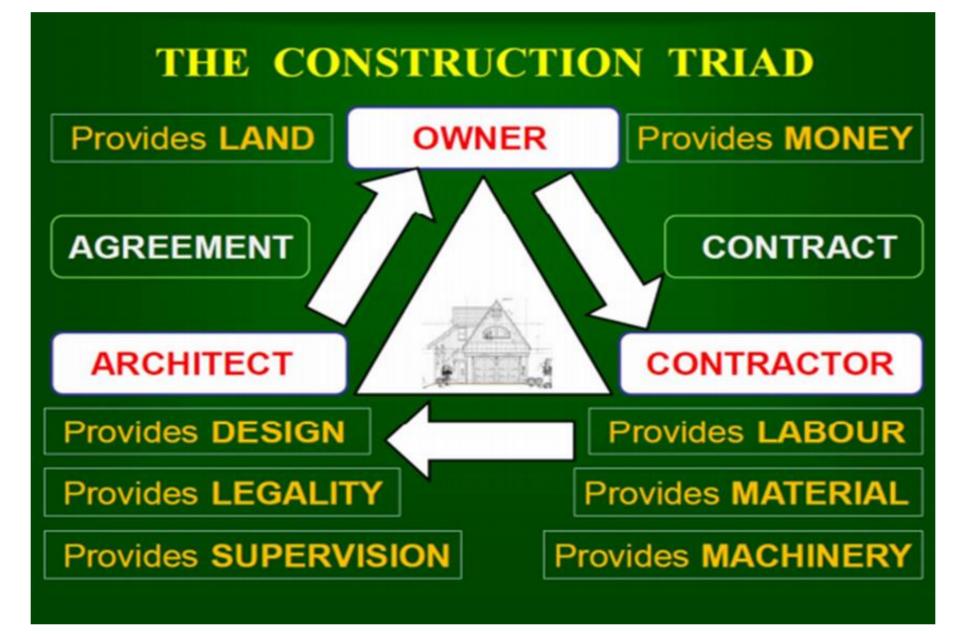
Role and Responsibilities of a Contractor:

- A Contractor is so called because he undertakes to execute a building project 'Under Legal
- Contract', sealed and signed with the Owner. The Contractor is normally expected to be Qualified in Civil Engineering and should, ideally, have adequate field experience of Construction Work
- The Contract is a legally enforceable Agreement between the Owner and the Contractor to carry
- out the construction work in return for some money The Contractor is expected to study the drawings, details, specifications and instructions and
- Quote his rates / charges for construction
- He is also expected to study and understand the Terms of Contract stipulated by the Architect on behalf of Owners, and strictly abide by them. The Contractor is primarily responsible for the Speed, Quality and Cost of the project as per
- Commitment in the Contract, under supervision of the Architect.

4.f Quality of Construction: Interrelationship of Cost, Quality and Economy

Let us understand the factors that affect the Quality of Constructions.

- II C's that affect Quality in construction:
- 1. CLIENT: Unclear requirements, Illogical preferences and Unrealistic expectations of the client results into misunderstandings among stakeholders, delay in schedule and cost overruns affecting the quality of the end result.
- 2. COST: Cost overruns are a major hindrance to quality. To save upon costs, the first thing that is sacrificed is the quality of the material, products being used, people being employed and the methods being chosen for construction.
- 3. **CONTRACTOR:** Misunderstandings between the designer and the contractor about the quality of the product required, is often the case that end results in not up to the desired expectation. 4. CONSTRUCTION: Construction Methods (Steel / Concrete / Wood / Composite) must be preplanned. Procurement of materials in required time and their quality check must not be ignored. Construction phase is the phase which has the highest impact on how the design is being executed and the quality is being achieved.
- 5. **CONTRACT:** The nature of the contract will affect the quality of construction. More control over quality can be expected in design/build or a project with construction management than in a lump sum contract or a design-bid-build contract in which responsibilities and communication among stakeholders is limited.
- 6. CONSULTANT: Quality is achieved when the teams work collaboratively. When sub-consultants are involved in the project from the very beginning and are brought together for making important decisions, communication gaps are reduced and deliverables are produced with higher awareness and higher quality.



Understanding role of major stakeholders in the construction process

NBC – Integrated approach Role of Architect & Contractor

Assignments or Suggested Theory Questions:

1. Write a short note on Good for Constructions Drawings and Shop Drawings. 2. Write a comprehensive note on Site Visits w.r.t the following points

- a. Observations on a Site Visit
- b. Frequency of Site Visits
- c. Site Meetings : Agenda and Minutes of the Meeting
- 3. Write a comprehensive note on Instructions on site w.r.t the following points
- b.Validity
- c. Notice to Comply

4. Write a Short note on Verbal Instructions

- 5. List and explain the various factors that affect the quality of Construction 6. Explain the Architects role in controlling time of construction including his own
- 7. Explain in brief the following
 - b. Checking before column casting
- 8. How does an Architect Monitor the time Schedule of Construction
- b. Labor Management
- Machinery Management
- prompt response to contractor's Queries
- a. Centre Line Checking
- c. Checking before slab and beam casting.
- 9. Explain the Architects role in the following parts of monitoring construction on site
- d. Money Management
- e. Quality Checks and Testing

5.cTheory Questions:

- 1. Explain Cost Price and Value with examples
- 2. Compare and contrast among Cost Price and Value
- 3. Define Valuation and Explain the various purposes of Valuation
- 4. Define Market Value and explain the different Market Values

5. Write a Short Note on Distress Value

- 6. How can Valuation be done. Explain the different methods to arrive at the value of a
- 7. Write short notes on Free hold and Lease Hold Properties comparing and contrasting
- 8. What are the factors affecting value of a land
- 9. Write a Short note on Sinking Fund

between the two

- 10. Define Arbitration. Explain different kinds of Arbitration
- 11. Explain salient features of an Arbitration process

Suggested Questions shared with students for all units

ASSIGNMENT - 4 UNIT-2 - CONTRACTS Define construction contract list the salient features of a a construction contract is a legal document that formally confirms in writing, with a seal and signature, an agreement that binds two or more posties into a firm commitment or obligation enforceable by law, in accordance with mutually accepted terms and conditions of reference in respect of the scope, quality, duration and cost of a Salient features of a construction contract A contract is executed on a stamp page It should state the data is the agreement and the place of The details of the 1st signatury should be given with de The details of the 2nd signatory should be given with contact details and designation The purpose of the contract should be stated with The method of execution should be given dearly with The monetary agreement should be given with payments &

Handwritten notes by students

Course Objectives:

Stature of an Architect in Society, and understand the duties, responsibilities, liabilities and ethics as a professional. To acquaint the Student with the Scope and Avenues of professional Architectural services, and the demands and Mode of

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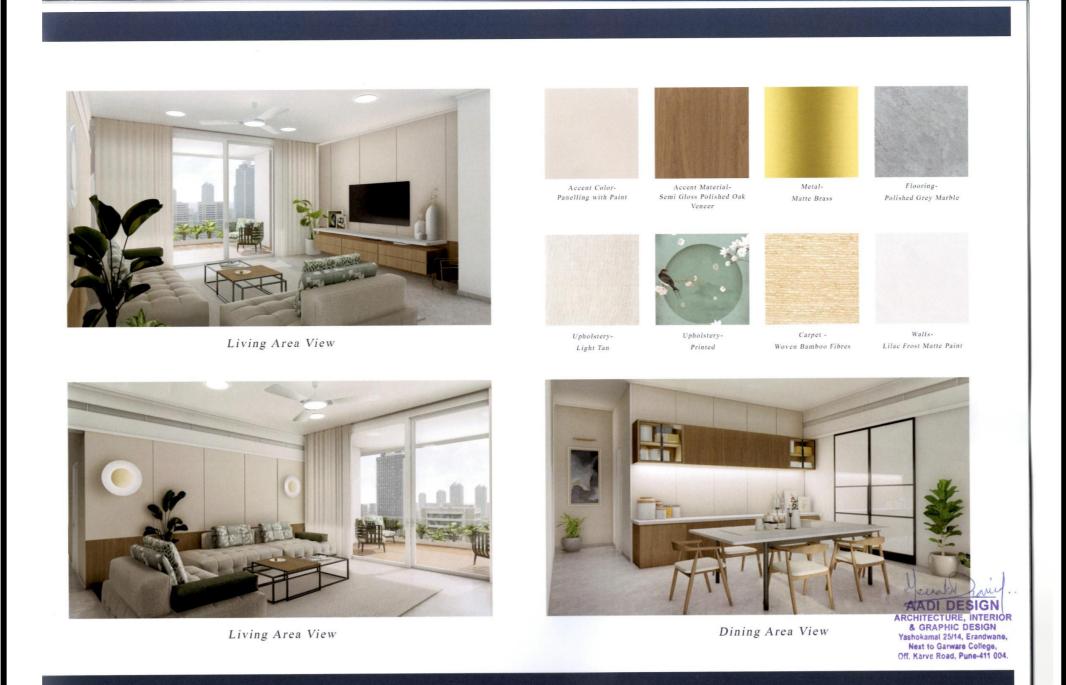
Student: Srushti Gore Faculty: Ar. Pallavi Patil

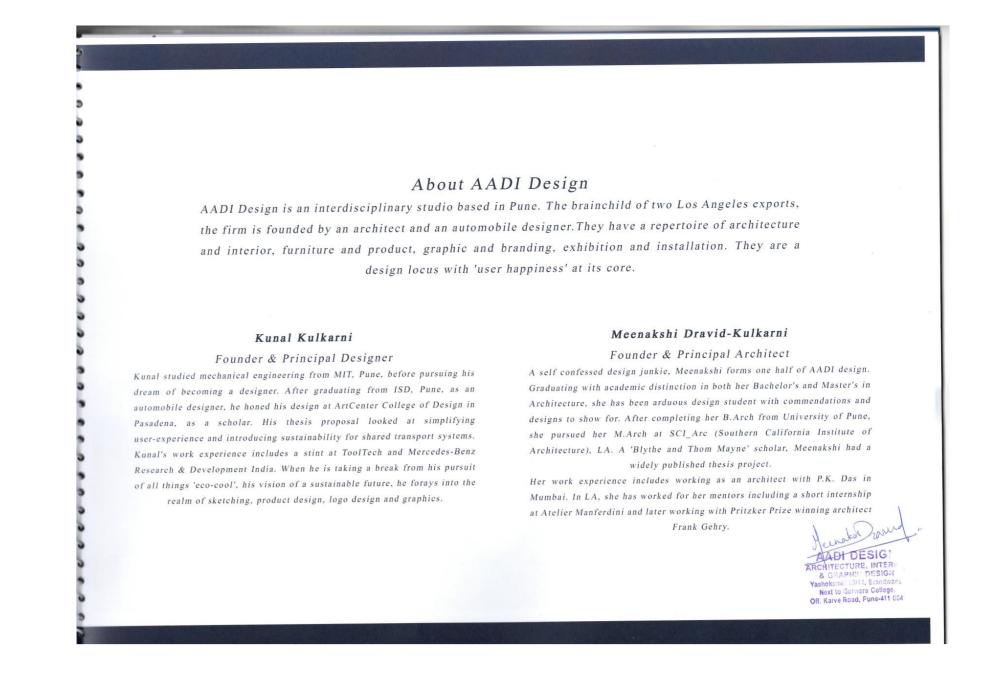
Semester IX.

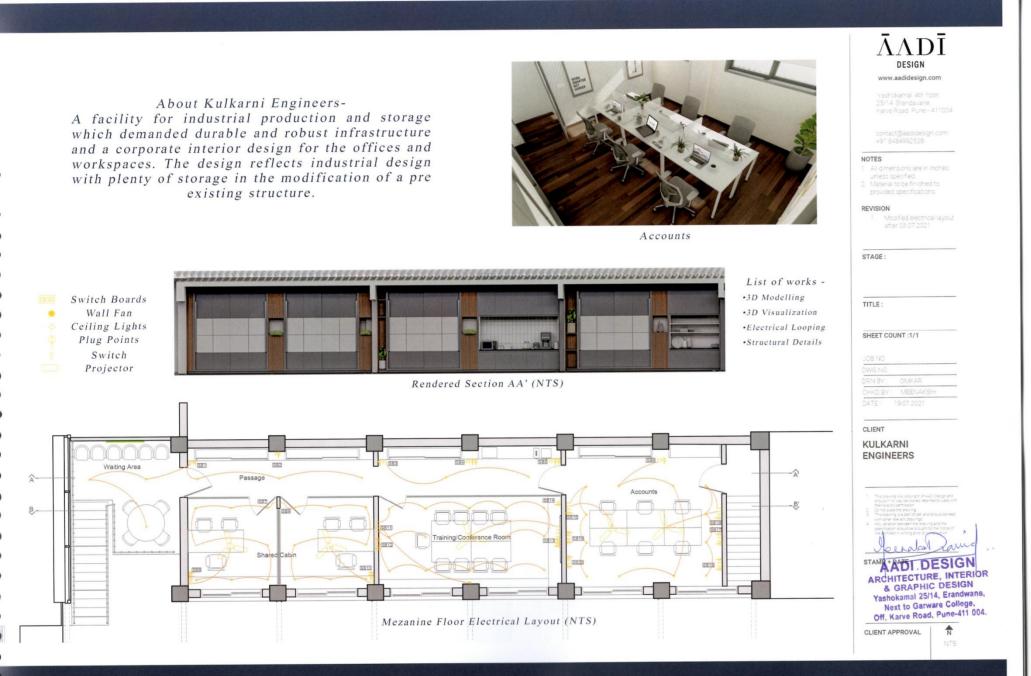
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PROFESSIONAL PRACTICE - II



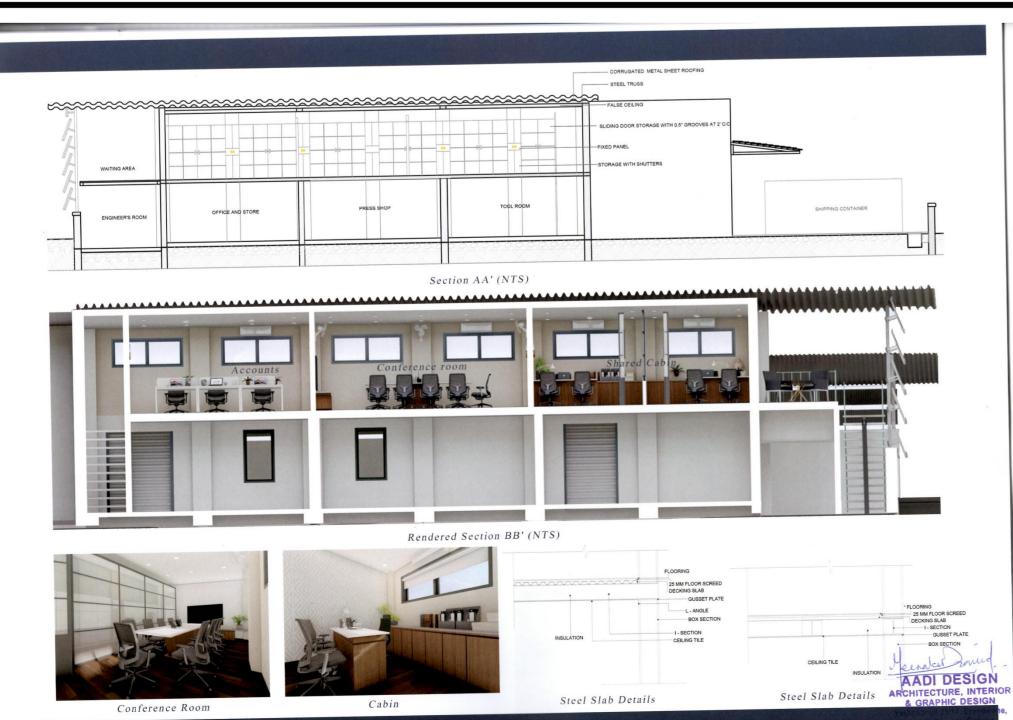


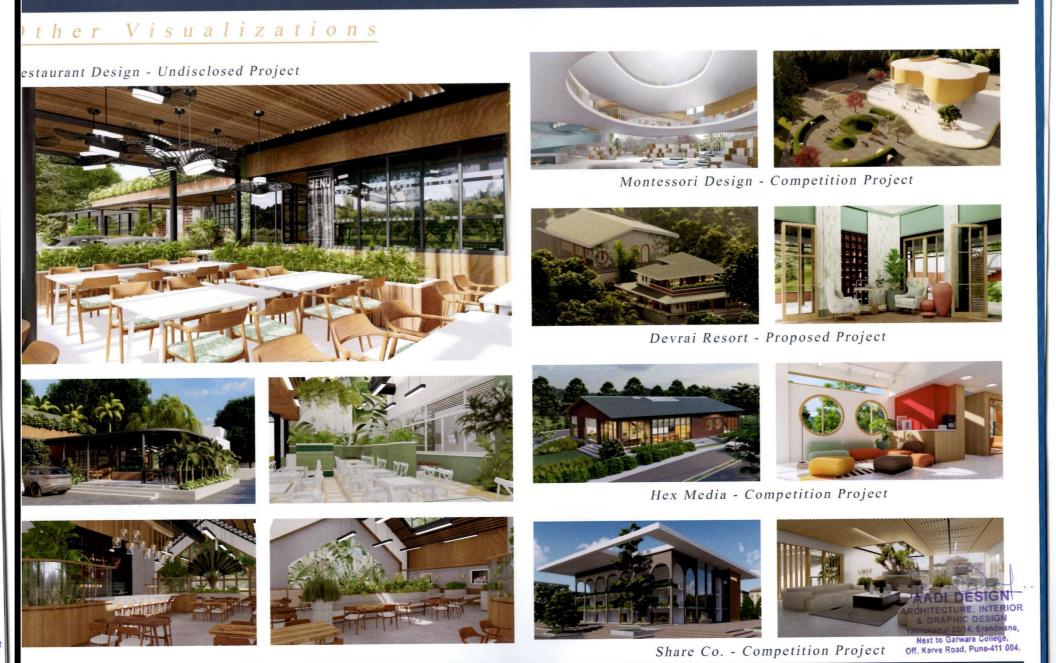






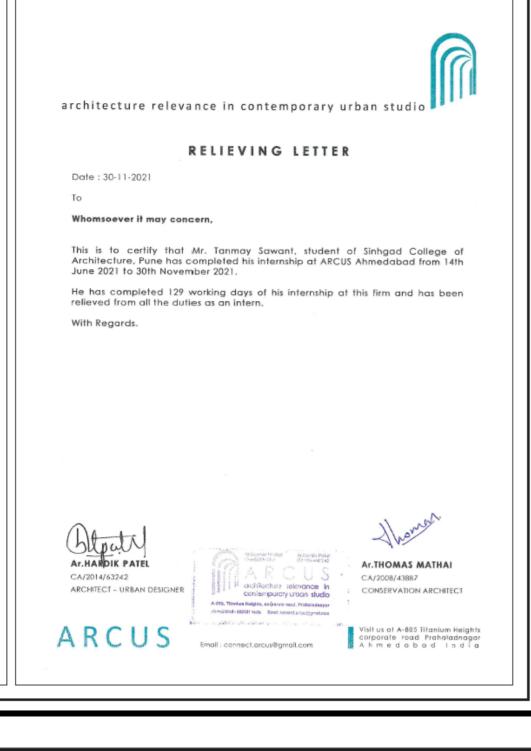
Student: Omkar Dandawate Faculty: Ar. Avani Topkar



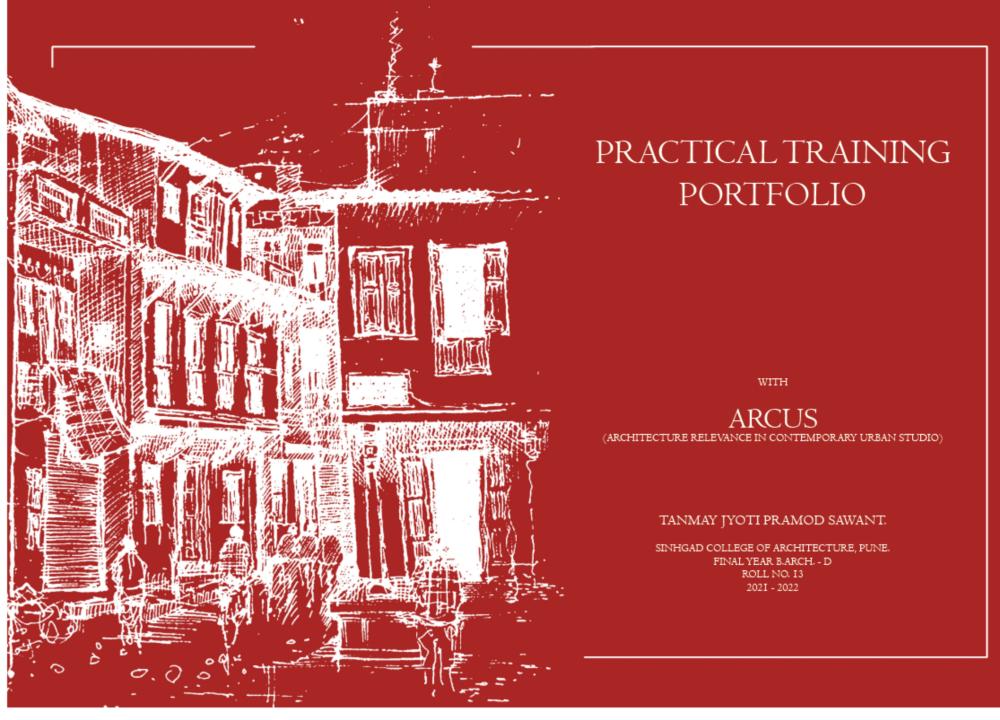


5th Year B.Arch 2021-2022 Practical Training









Certificates &

Compony Profile

ARCUS (ARCHITECTURAL RELEVANCE IN CONTEMPERARY URBAN STUDIO)

IS A MULTI DISCIPLINARY, AHEMDABAD BASED FIRM SINCE 2017 WHICH PRIMARILY DEALS WITH CONSERVATION BASED PROJECTS, URBAN PLANING & DESIGN AS WELL AS ARCHITECTURAL & INTERIOR DESIGN PROJECTS OF VARIOUS SCALE.

WE AS A TEAM BELIEVE FOR ANY GOOD DESIGN A THORUOUGH RESEARCH IS THE BASE AND HOW IT WILL BE USEFUL TO THE COMMUNITY & SOCIETY WILL DETERMINE ITS SUCCESS.

AS A CONERVATION & URBAN FOCUS, WE TRY TO IMPLICTAE & LEARN THROUGH OUR EXPEIRENCE & GREAT EXAMPLES THAT HAVE BEEN NOT ONLY CULTURALLY ENRICHED BUT CONTEXT WISE STRONG APPEAL

WITH COMMUNICATION AS A KEY, WE TRY TO KEEP A WORK FRIENDLY ENVIRONMENT IN OUR STUIDO WHICH HELPS IN THE PROCESS OF CREATIVITY & BETTER OUTPUT.





AR. HARDIK M.ARCH (URBAN DESIGN) SPA, NEW DELHI. CO - FOUNDER OF ARCUS



BARCH SARVAJANIK COLLEGE OF ENGG. &: MARCH (CONSERVATION CO-FOUNDER OF ARCUS

AR. MAYANK

KALOLIYA

BARCH

AHEMDABAD.

ASSOCIATE ARCHITECT

BEEN WITH ARCUS FOR LAST

INTREST IN CONSERVATION

FORTE, HE DEALS WITH

CONSERVATION PROJECT & ON-

SITE TECHNICALITITES.

U SCHOOL OF ARCHITECTURE,













OUR SERVICES:

A. CONSERVATION PROJECTS. B. URBAN DESIGN & SOLUTIONS. C. ARCHITECTURAL DESIGN SOLUTIONS. D. INTERIOR DESIGN.

ORGANIZATION OF SETTLEMENT STUDY, DOCUMENTATION & RESEARCH PROGRAMS

ON GOING PROJECTS:

AHEMEDABAD WORLD HERITAGE CITY DOCU MENTATION ALIGNED WITH AMC, GUJRAT.

URBAN INSERT - PATAN WALKABLE CITY ALIGNED WITH PATAN NAGARPALIKA.

ARCHITECTURAL PROJECTS

INTERIOR PROJECTS

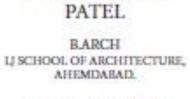
ARCUS (ARCHITECTURE RELEVANCE IN

ADDRESS -



TANMAY SAWANT

SINHGAD COLLEGE OF



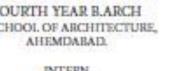
AR. HETANSHI

SSOCIATED WITH ARCUS SINCE 2019, SHE LEADS ALL THE INTERIOR PROJECTS FOR THE SHE BELIEVES IN MINIMAL

PPROACH & ATTENTION TO DETAILS IS KEY TO A BETTER DESIGN.



TANMAY RATHOD LJ SCHOOL OF ARCHITECTURE



DHRUV GOLAKIYA



PRAKRUTI AMRANIA



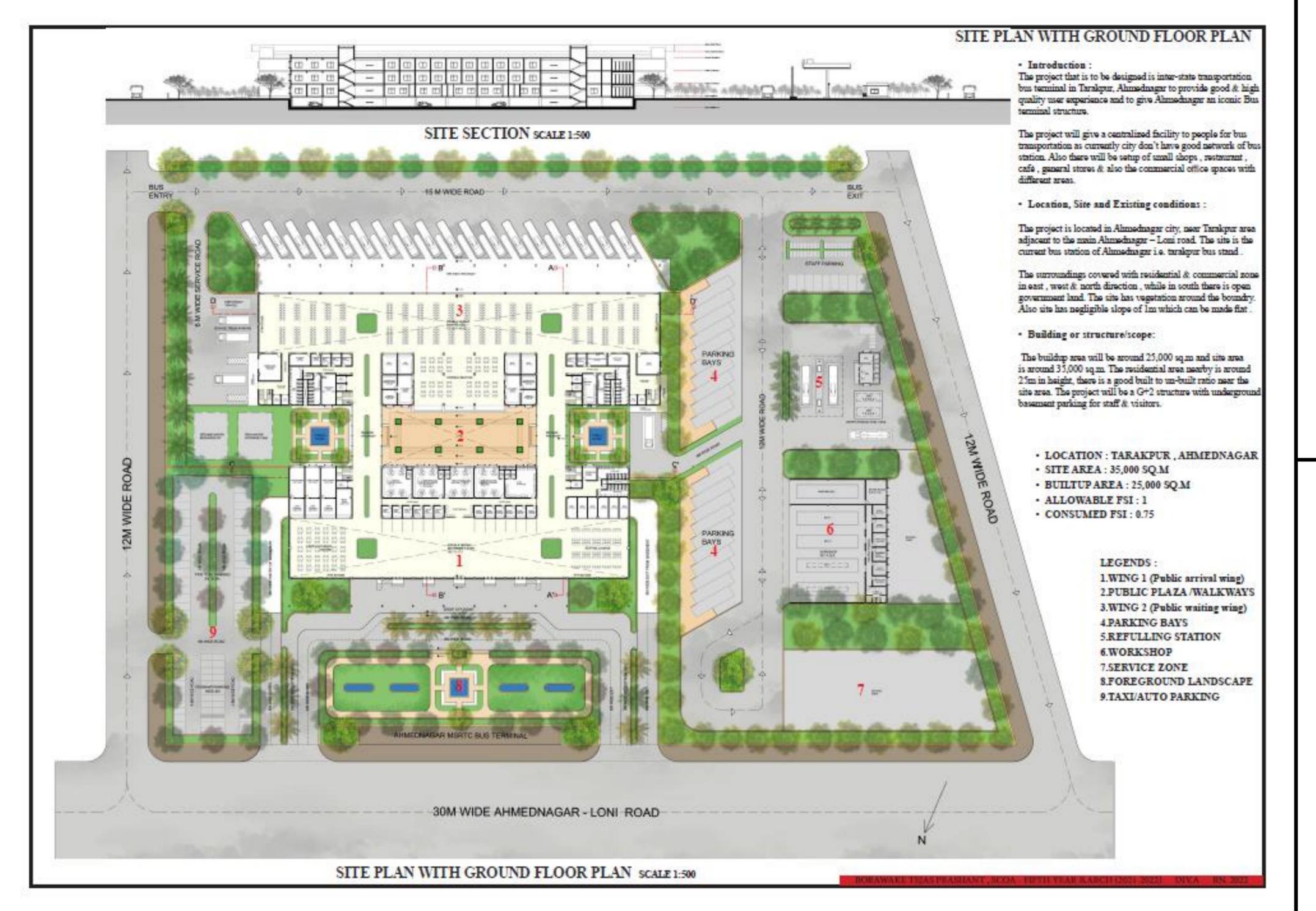
Sinhgad College of Architecture, Pune

5th Year B.Arch 2021-2022

Practical Training

Student: Tanmay Sawant

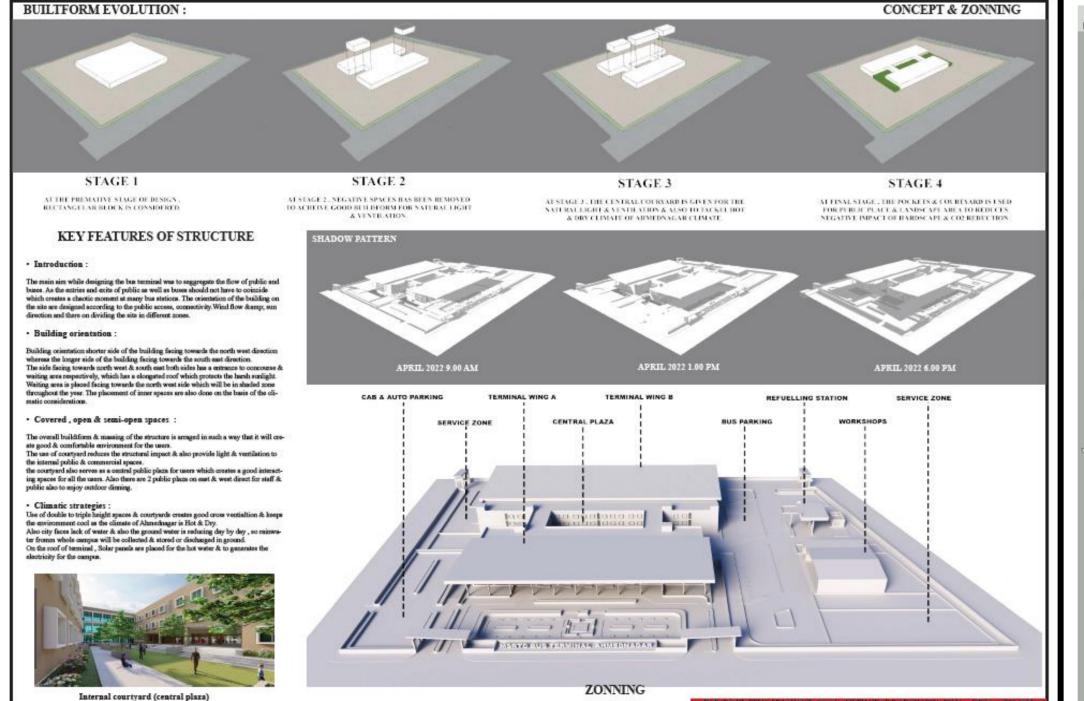
Faculty: Ar. Kirti Bajare

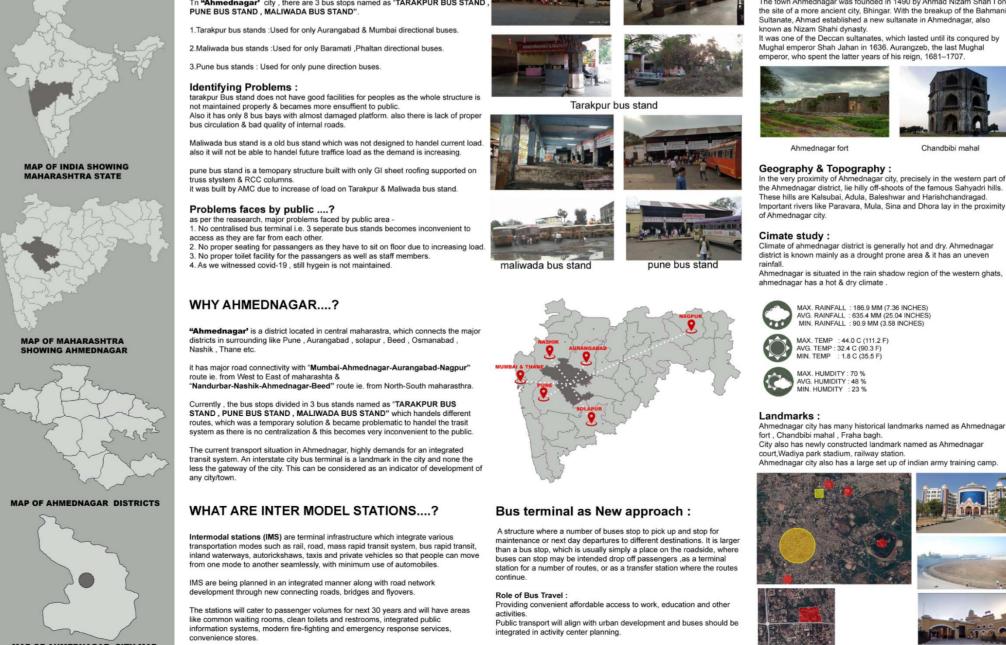


The project that is to be designed is inter-state transportation bus terminal in Tarakpur, Ahmednagar to provide good & high quality user experience and to give Ahmednagar an iconic Bus terminal structure.

Student: Tejas Borawake

Guide: Prof.Kalpana Hadap

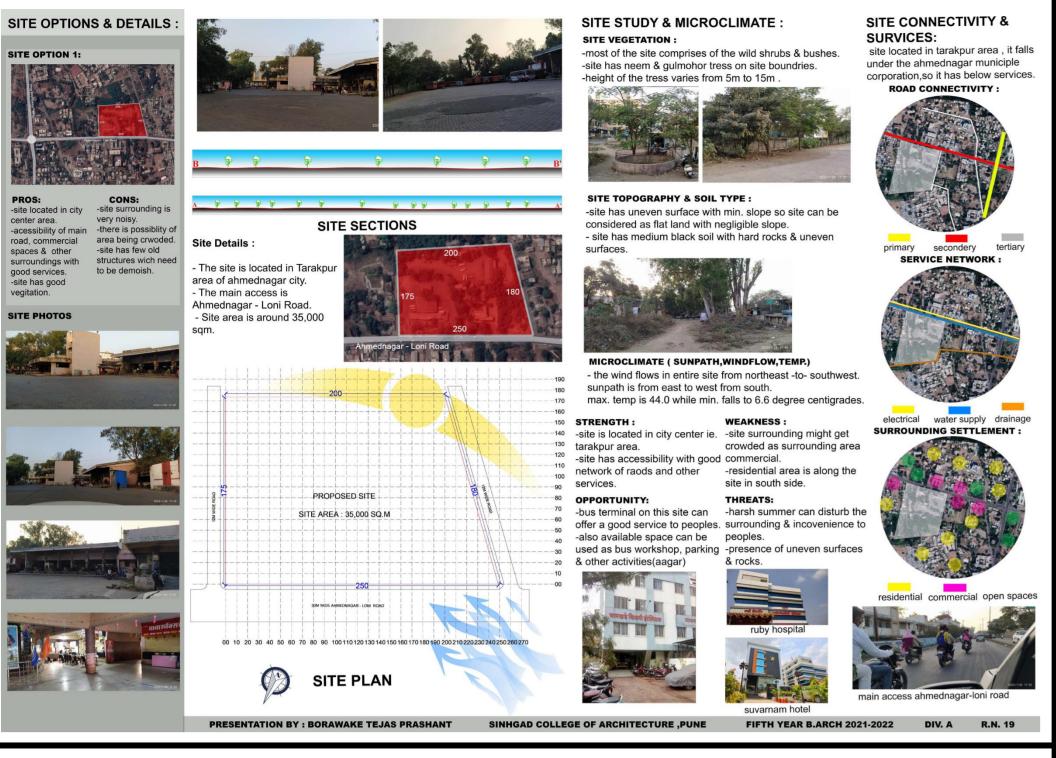


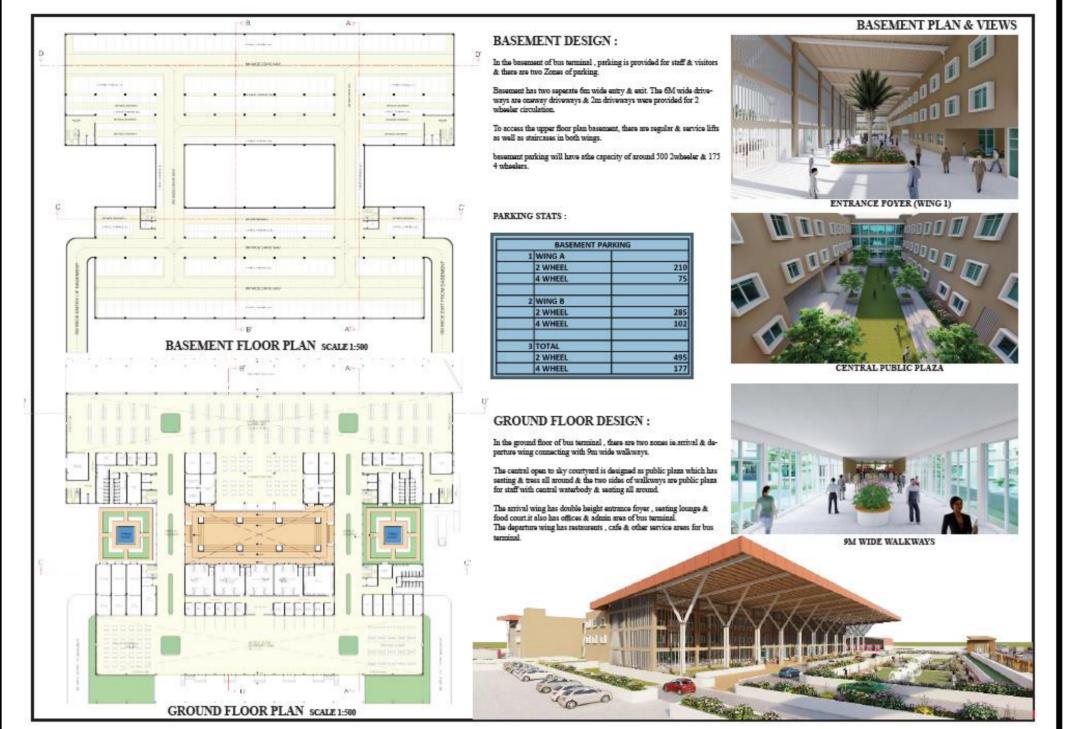


CURRENT SCENARIOS....?

5th Year B.Arch 2021-2022 Architectural Design Project

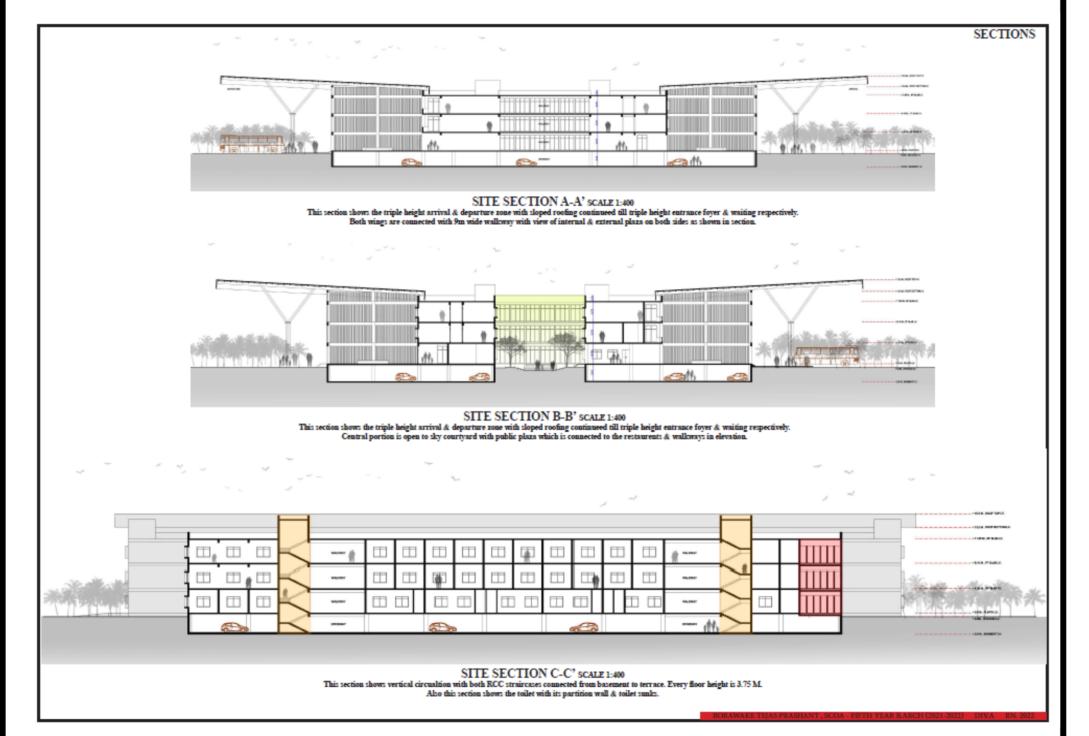
BUS TERMINAL AT AHMEDNAGAR



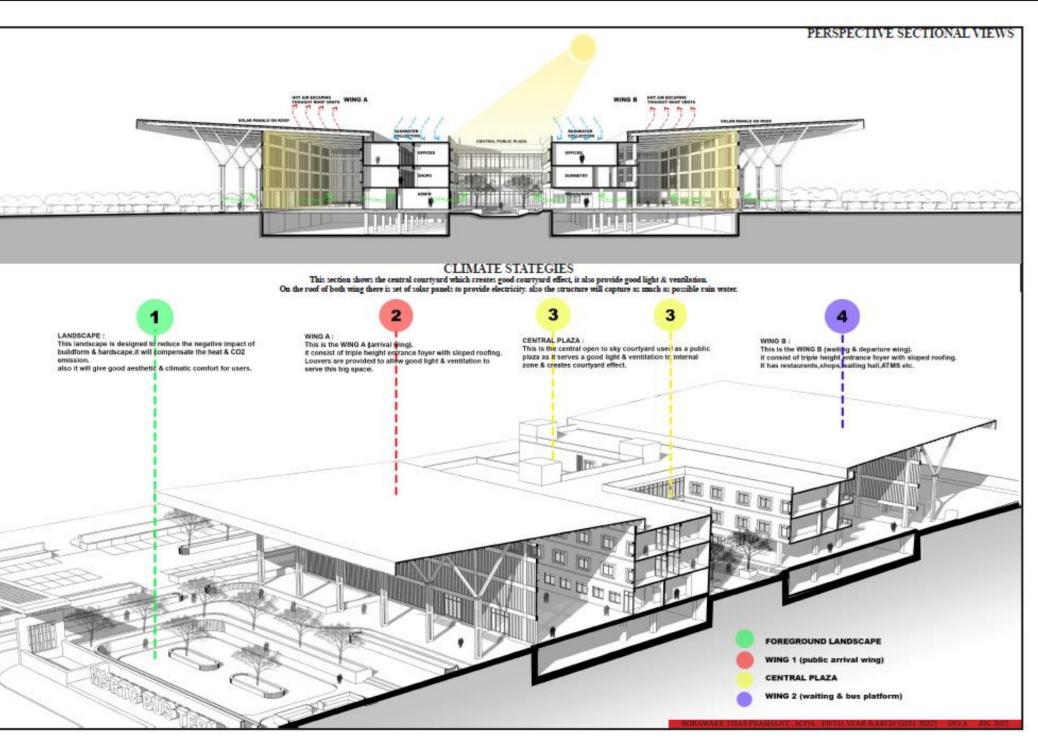


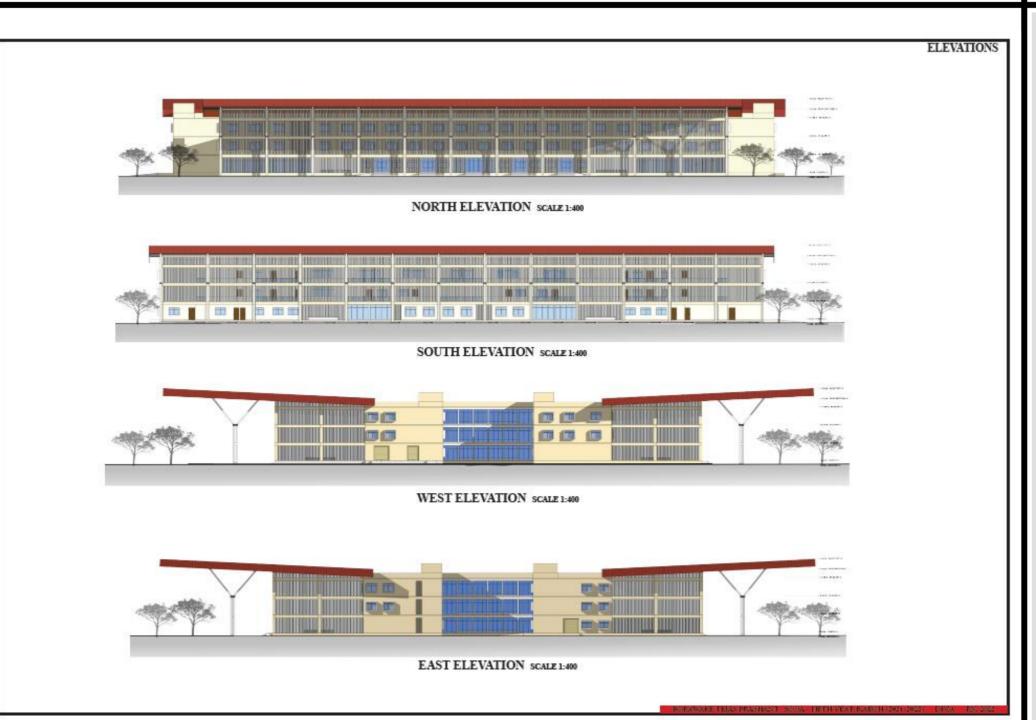
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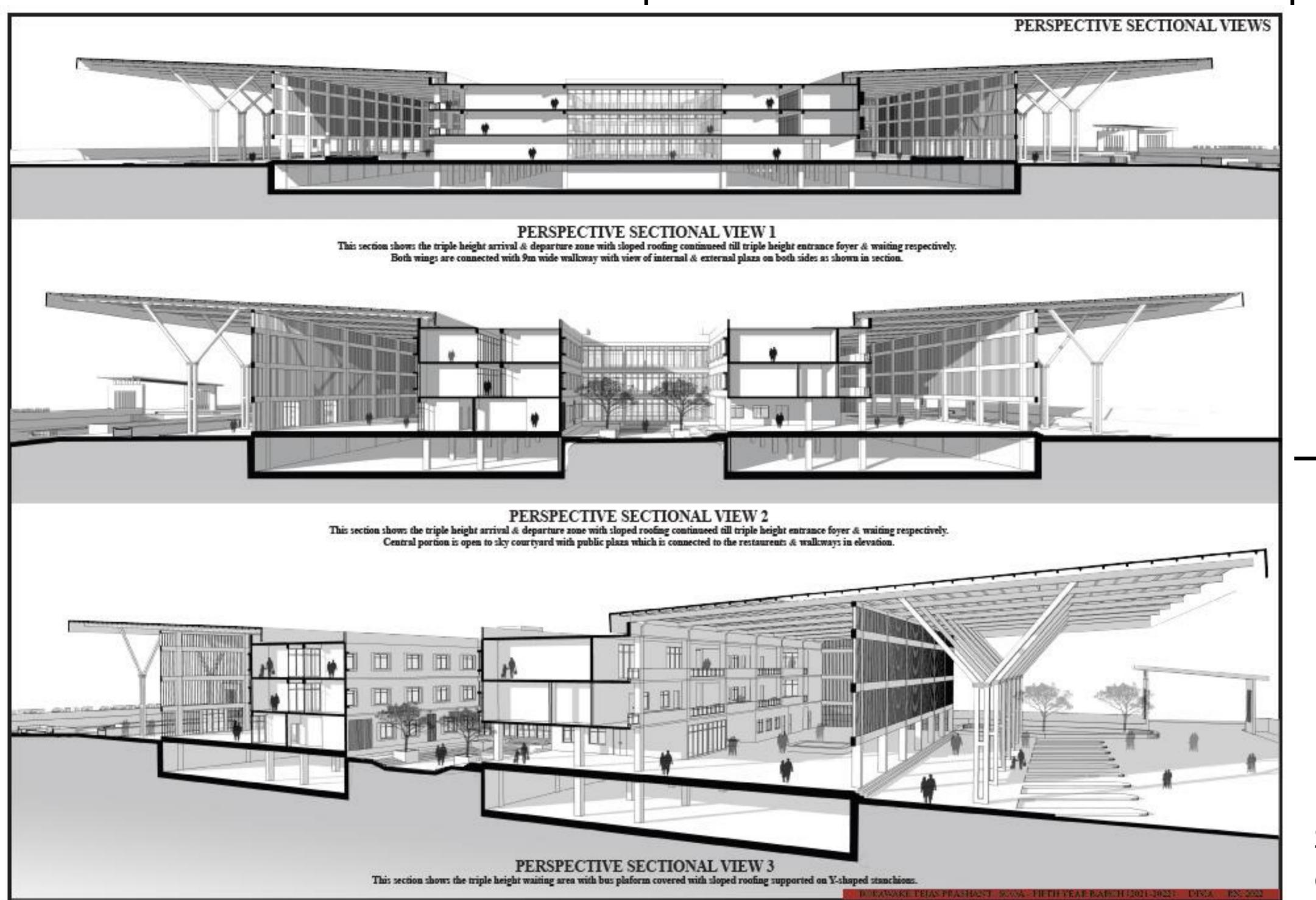
Student: Tejas Borawake Guide: Prof.Kalpana Hadap





5th Year B.Arch 2021-2022 Architectural Design Project

BUS TERMINAL AT AHMEDNAGAR

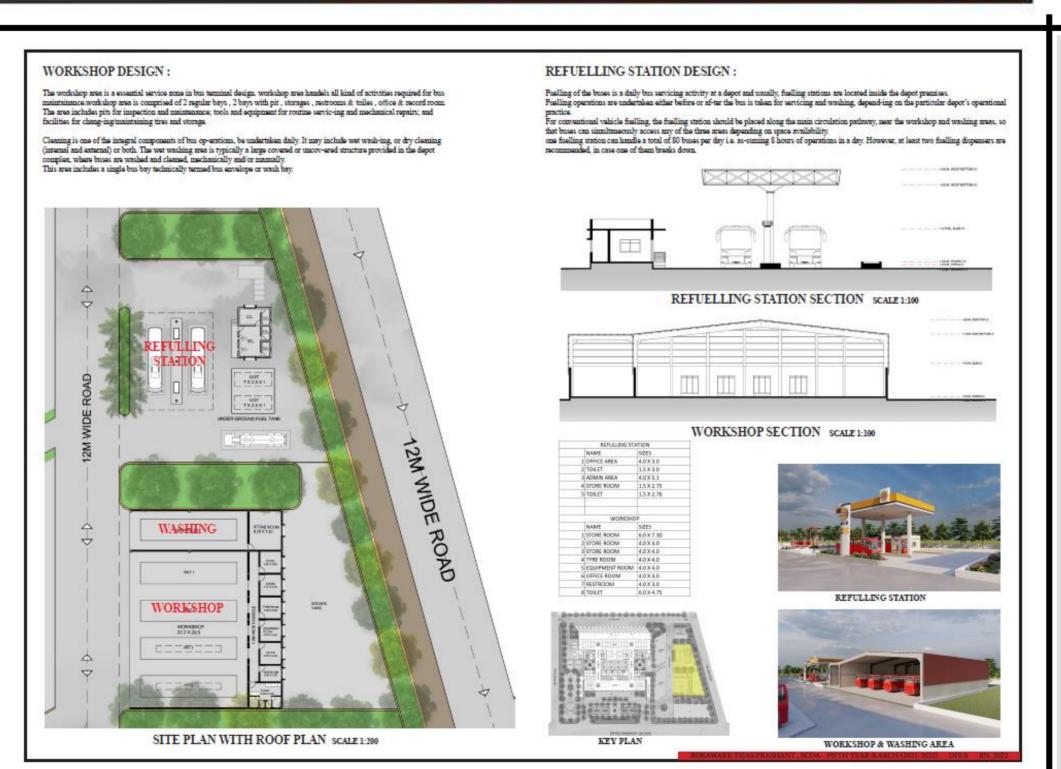


The project that is to be designed is inter-state transportation bus terminal in Tarakpur, Ahmednagar to provide good & high quality user experience and to give Ahmednagar an iconic Bus terminal structure.

Student: Tejas Borawake Guide: Prof.Kalpana Hadap

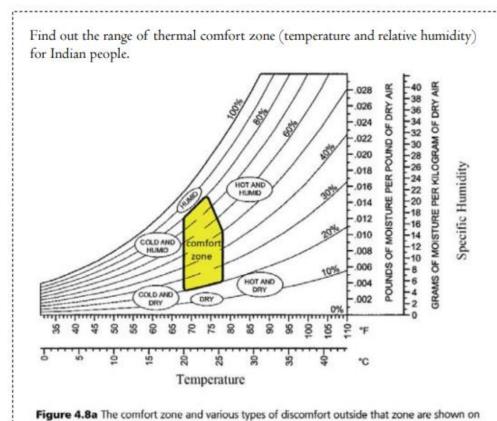
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EXPLODED VIEW SHOWING PEDESTRIAN MOVEMENT

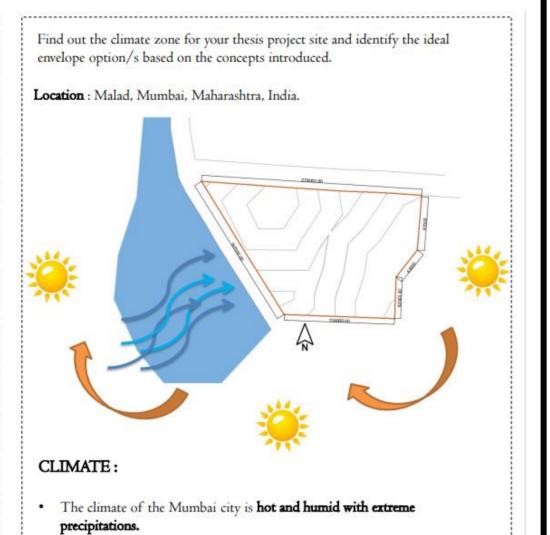


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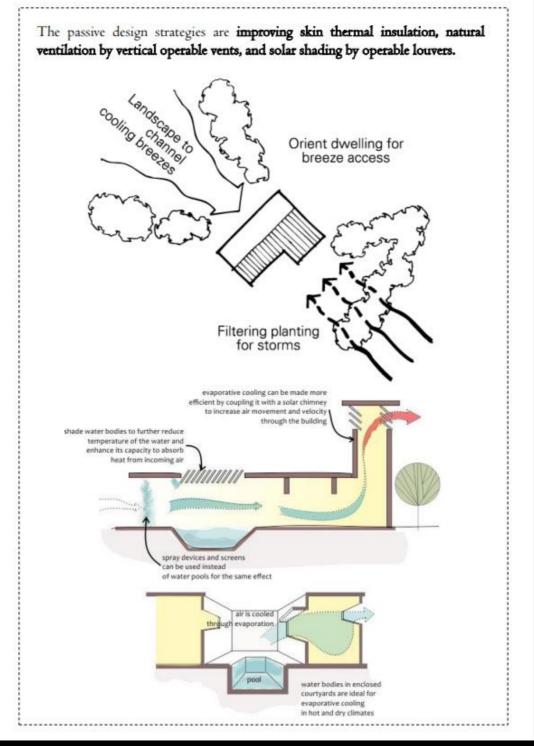


- · There is a lack of comfort standards for buildings in India.
- The National Building Code (NBC) prescribes two narrow ranges, i.e. 23°C-26°C and 21°C-23°C during summer and winters for all types of



. The near by water body affect micro climate of the site and lies in the wind

· Also the passive cooling techniques to tackle the climate.



PROJECT DETAILS

- 1. Identify climate zone and comfort range for your thesis project site.
- 2. Identify ideal envelope section and passive design strategies for the same.
- 3. Carry out case study of certified green building project of your own thesis project typology.

Goal: To introduce students to the applicability of building physics pertaining to environment and energy management.

Student: Tanmay Sawant

Faculty: Ar. Harshada Akolkar, Ar. Kirti

Bajare

LEED Case Study: A Place Of Honor Sustained ldiers Memorial Military Museum

LEED ® Facts

Soldiers Memorial Military Museum St. Louis, MO

LEED for 2009, Version: NC Certification awarded February 8, 2019

Gold	60*	
Sustainable Sites	19/26	
Water Efficiency	4/10	
Energy & Atmosphere	11/35	
Materials & Resources	10/14	
Indoor Environmental Quality	10/14	
Innovation & Design	3/6	
Regional Priority Credits	3/4	

*Out of a possible 110 points

The information provided is based on that stated in the LEED® project certification submittals. USGBC and Chapters do not warrant or represent the accuracy of this information. Each building's actual performance is based on its unique design, construction, operation, and maintenance. Energy efficiency and sustainable results will



LEED PROJECT PROFILE

Preserving the Past for a Sustainable Future Historic Renovation & Materials Reuse lead the way to LEED Gold

PROJECT BACKGROUND:

Soldiers Memorial Military Museum is a state-of-the-art museum facility honoring local military service members, veterans, and their families. The Missouri Historical Society assumed operation of the Soldiers Memorial in November, 2015. Thanks to the work of Mackey Mitchell Architects, much of the original architectural and historic integrity of the memorial remains. The updated museum honors the beautiful, classical-style building and seamlessly incorporates contemporary museum design.

STRATEGIES AND RESULTS

In pursuing LEED certification, the project team addressed multiple aspects of the building design and its operation. Below is an overview of the approach.

Sustainable Sites.

- The MHS renovated the Court of Honor at Soldiers Memorial by developing an outdoor space that encourages community connection and engagement.
- · Updates to the Court of Honor were designed to encourage visitors and pedestrians to spend as much time outside as they would inside.
- · The renovations took into account alternative transportation and included a new electric charging station for electric vehicles.
- The use of a white roof reduces the heat island effect, which helps minimize effects of greenhouse gases.





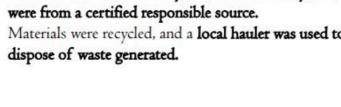
- MHS optimized energy performance by installing new, efficient HVAC systems. Staff measure and verify energy so the Society can continue to optimize their
- The Society worked with St. Louis Antique Lighting to restore the original Guth
- The historic 1938 fixtures were renovated and rewired to use LED bulbs, decreasing energy consumption.

STRATEGIES AND RESULTS

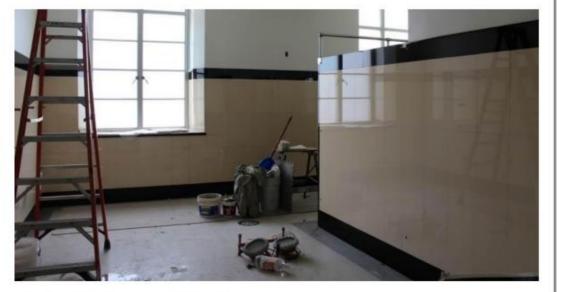
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Materials & Resources.

- MHS reused materials whenever possible, including granite steps, marble walls, and in the original bathrooms the Vitrolite panels.
- Original terrazzo floors were restored. · When it was not feasible to reuse materials, MHS purchased
- Materials were recycled, and a local hauler was used to



materials that had been recycled, sourced locally, and/or



Indoor Environmental Quality.

- After an extended period of time, volatile organic compounds (VOCs) can greatly impact air quality in a building and in turn negatively affect the health of employees and visitors.
- Low emitting materials were used during construction and for permanent features within Soldiers Memorial.
- Sustainable cork flooring was installed in meeting rooms.

Innovation.

- A priority in the St. Louis region is indoor air quality.
- MHS addressed this priority by using environmentally responsible materials and effective use of operational equipment.

5th Year B.Arch 2021-2022 **Elective IV**

ENVIRONMENT AND ENERGY MANAGEMENT