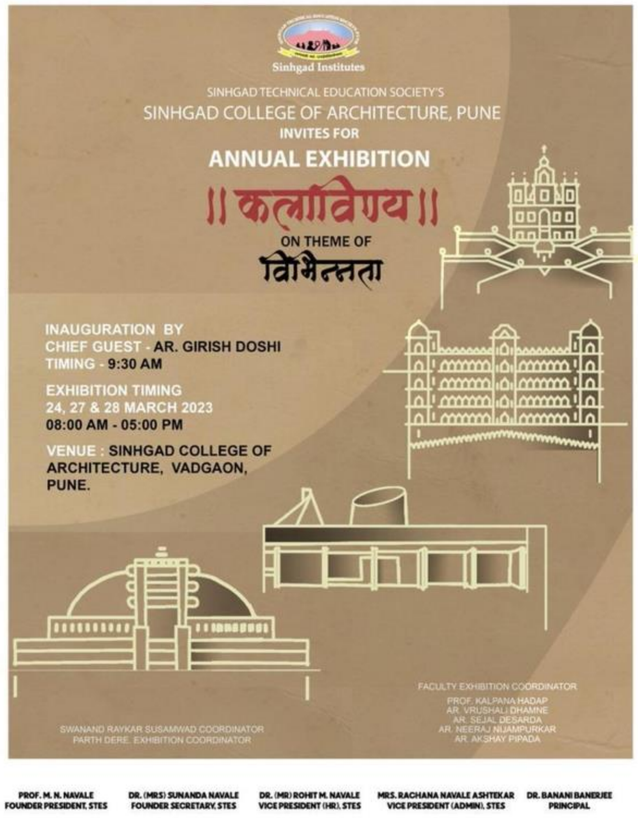
ANNUAL EXHIBITION - Kalavinya 2022 - 2023

24th, 27th and 28th March 2023 + Permanent Display throughout the Year



Annual Exhibition – Kalavinya

Our exhibition is a grand event portraying the students' Academic work from 1st to 5th year B.Arch. This year the Theme was Vibinata – (Diversity) portraying the varied types of Indian cities and its immense cultural diversity- Goa, Chandigarh , Gwalior, Maheshswar to name a few.

Our **Chief Guest Architect Girish Doshi** saw the displayed work – Academic panels , models and theme based Murals and gave his expert advice.

The exhibition was open from 24th to 28th March 2023 for parents, students and architects to see. This exhibition is permanent and all academic panels are displayed permanently throughout the year.









Theme based display showing the Diversity of Indian Cities studied during the Study Tour





Display of Academic work



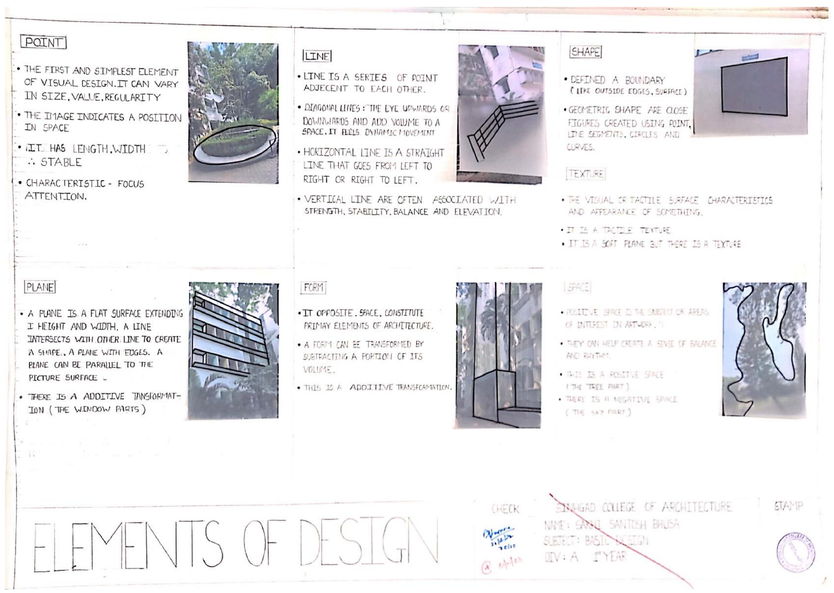
Architect Girish Doshi discussing about Le Corbusier and Chandigarh. Students explaining their mural

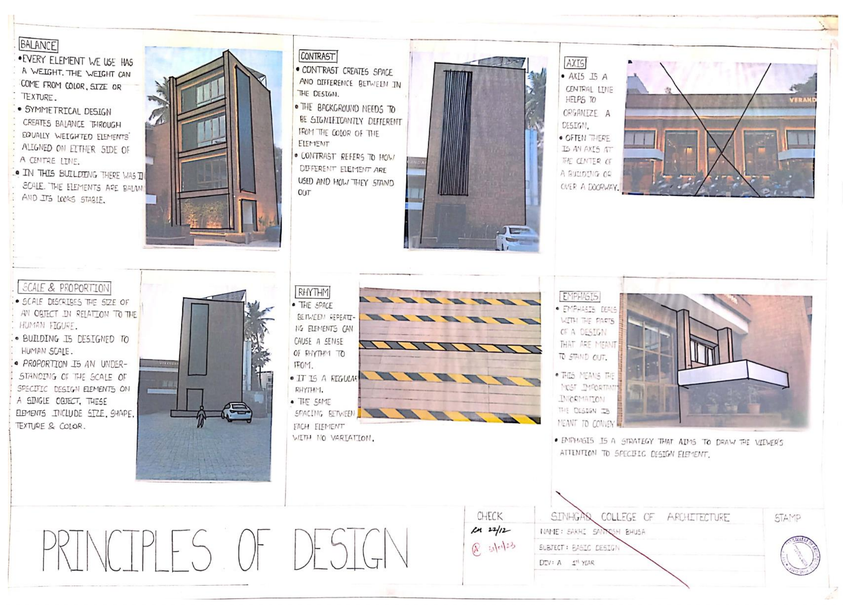


Architect Girish Doshi seeing the display of Academic architectural models



Event coordinators :Ar.Vrushali Dhamne, Ar.Sejal Desarda, Prof Kalpana Hadap, Ar. Neeraj Nijampurkar, Ar.Akshay Pipada





Introduction:

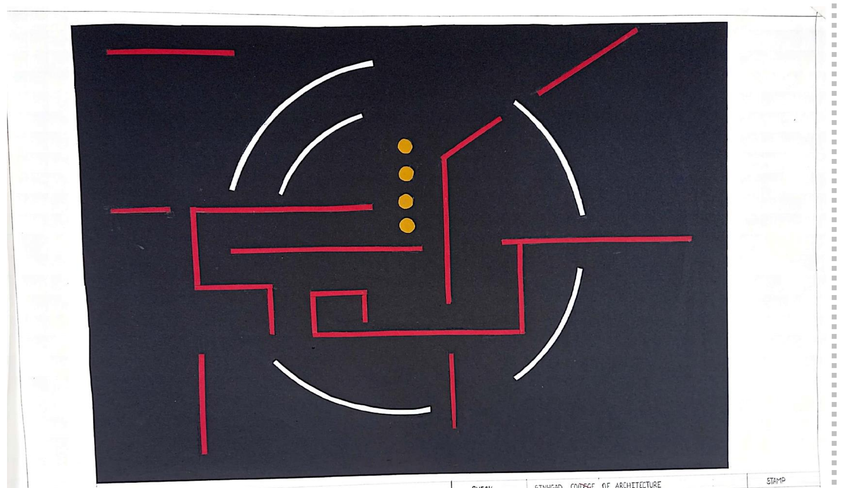
- The purpose of the assignments was to examine the design elements and its implication expending the design principles.
- The purpose of the assignments was to examine the fundamental design concepts. To create a work out of things you have around the house that demonstrates impression.
- To make it 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.
- Techniques to boost creativity, include brainstorming.
- Composition of space through additive and subtractive association in 2d art by creating Notan art of positive and negative spaces .
- Similar application in 3D form using volume of sponge for space making, applying textures, volumes, positive , negative spaces.
- Idea or design matrices a structure that allows students to analyze art in a consistent and meaningful way .
- Random verb combinations technique to stimulate divergent thinking

1st Year B.Arch TERM I 2022-2023

BASIC DESIGN

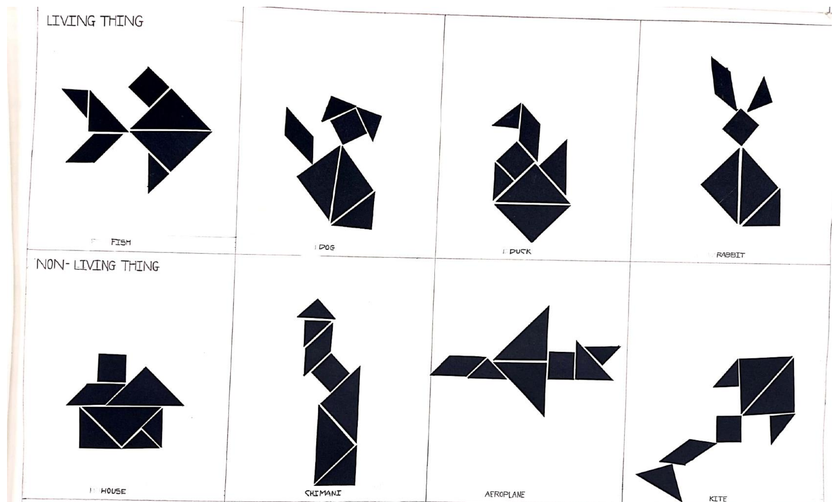
Student : Sakhi Bhusa,Rahul Bhamare
Faculty: Kalpana Hadap,Avanti Kale,Vrushali Dhamne

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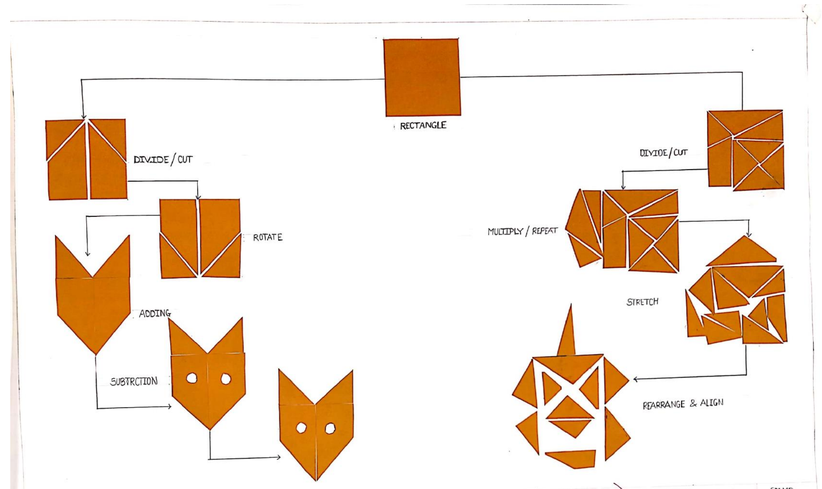
2D COMPOSITION

CHECK	SINHGAD COLLEGE OF ARCHITECTURE	STAMP
	NAME - SAKHI SANTOSH BHUSA	
@ 5/01/23	SUBJECT - BASIC DESIGN	
	DIV - A 1st YEAR	
	ROLL NO - 3	



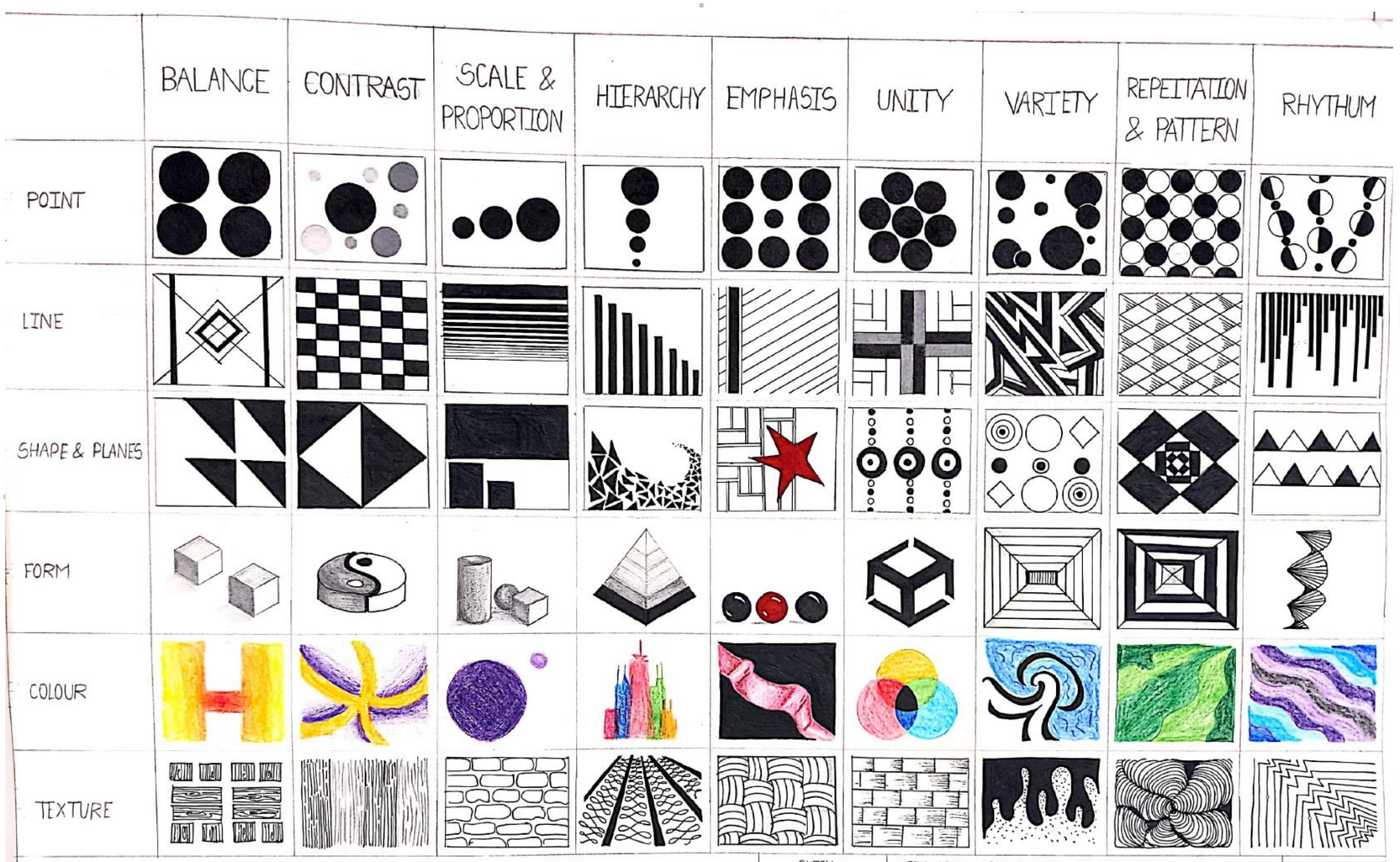
TANGRAM- LIVING/NON LIVINGTHING

CHECK	SINHGAD COLLEGE OF ARCHITECTURE	STAMP
@ 20/01/23	NAME - SAKHI SANTOSH BHUSA	
	SUBJECT - BASIC DESIGN	
	DIV - A 1st YEAR	
	ROLL NO - 3	



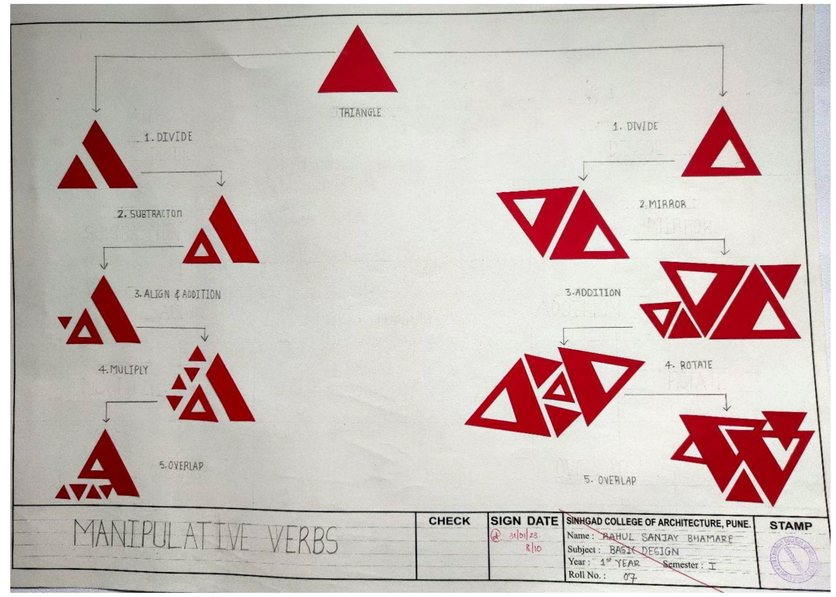
MANIPULATIVE VERBS

CHECK	SINHGAD COLLEGE OF ARCHITECTURE	STAMP
@ 5/01/23	NAME - SAKHI SANTOSH BHUSA	
	SUBJECT - BASIC DESIGN	
	DIV - A 1st YEAR	
	ROLL NO - 3	



DESIGN MATRIX

CHECK	SINHGAD COLLEGE OF ARCHITECTURE	STAMP
@ 24/01/23	NAME - SAKHI SANTOSH BHUSA	
7.5/10	SUBJECT - BASIC DESIGN	
	DIV - A 1st YEAR	
	ROLL NO - 3	



MANIPULATIVE VERBS

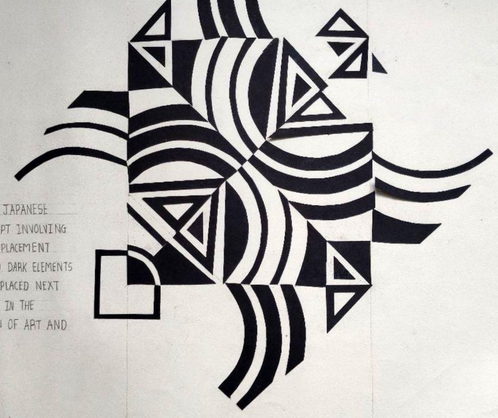
CHECK	SIGN DATE	SINHGAD COLLEGE OF ARCHITECTURE, PUNE.	STAMP
	@ 31/01/23	Name : RAHUL SANJAY BHAMARE	
	8/10	Subject : BASIC DESIGN	
		Year : 1st YEAR Semester : I	
		Roll No. : 07	

1st Year B.Arch TERM I 2022-2023

BASIC DESIGN

Student : Sakhi Bhusa,Ritika Bhagwat, Rahul Bhamare
Faculty: Kalpana Hadap,Avanti Kale,Vrushali Dhamne

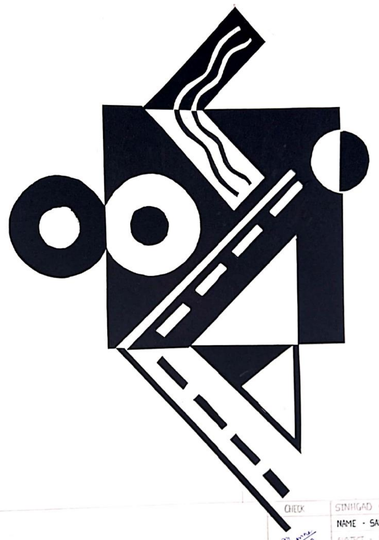
Sinhgad College of Architecture, Pune



NOTAN ART - NOTAN IN A JAPANESE DESIGN CONCEPT INVOLVING THE PLAY AND PLACEMENT OF LIGHT AND DARK ELEMENTS AS THEY ARE PLACED NEXT TO THE OTHER IN THE COMPOSITION OF ART AND IMAGERY

NOTAN ART

CHECK	SIGN DATE	SINHGAD COLLEGE OF ARCHITECTURE, PUNE.	STAMP
	8.5/10	Name : RAHUL SANJAY BHAMARE Subject : BASIC DESIGN Year : 1st YEAR Semester : I Roll No. : 07	



NOTAN ART -

- NOTAN IS A JAPANESE TERM THAT MEANS "LIGHT AND DARK" HARMONY/BALANCE". IT A DESIGN CONCEPT THAT LOOKS AT HOW LIGHT AND DARK ELEMENTS OF A COMPOSITION INTERACT ONLY USING BLACK AND WHITE.
- DIFFERENT ARRANGMENT OF LIGHT AND DARK ELEMENTS IN A PAINTING, WITHOUT HAVING THE DISTRACTION OF OTHER ELEMENTS LIKE COLOUR, TEXTURE AND FINER DETAILS

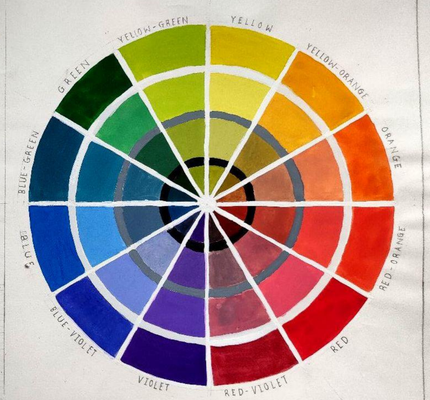
NOTAN ART

CHECK	SINHGAD COLLEGE OF ARCHITECTURE	STAMP
	NAME - SAKHI SANTOSH BHUSA SUBJECT - BASIC DESIGN DIV - A 1st YEAR ROLL NO - 3	



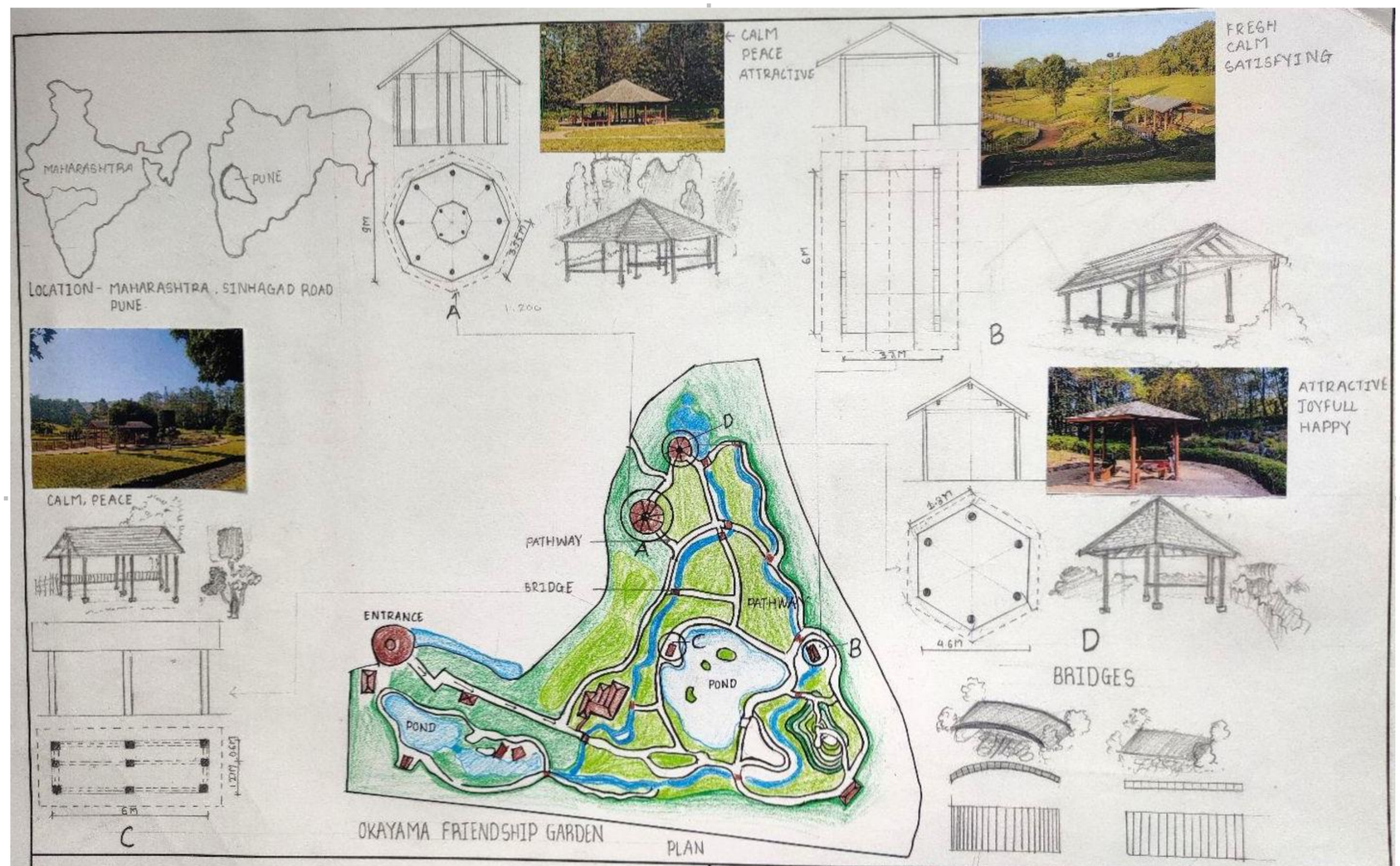
COLOUR WHEEL - ORGANIZATION OF COLOUR HUE'S AND SHOWS RELATIONSHIP BETWEEN PRIMARY, SECONDARY AND TERTIARY COLOURS.

PRIMARY COLOURS - COLOURS ON COLOUR WHEEL WHICH CANNOT BE MADE BY MIXING COLOURS.
SECONDARY COLOURS - COLOURS WHICH MADE BY MIXING TWO PRIMARY COLOURS
TERTIARY COLOURS - TERTIARY COLOURS ARE MADE BY MIXING ONE PRIMARY AND SECONDARY COLOUR
TINTS - TINT IS A MIXTURE OF COLOUR WITH WHITE, WHICH INCREASE BRIGHTNESS.
SHADES - SHADE IS MIXTURE OF COLOUR WITH BLACK, WHICH INCREASE DARKNESS
TONAL - TONE IS PRODUCED BY MIXING GREY IN COLOUR, WHICH MAKES COLOUR INTENSITY DULLER
NEUTRAL COLOURS - DEFINE AS HUES THAT APPEAR WITHOUT COLOUR AND NOT FOUND ON COLOUR WHEEL.
HUE / CHROMA - HUE IS PURE COLOUR
VALUE - STUDY OF DARKNESS AND LIGHTNESS OF COLOUR BY ADDITION OF BLACK AND WHITE
INTENSITY - THE PURITY OR STRENGTH OF COLOUR. CLOSER THE COLOUR TO HUE MORE ITS INTENSITY
COLOUR TEMPRETURE - GIVES FEELING OF WARMTH OR COLDNESS



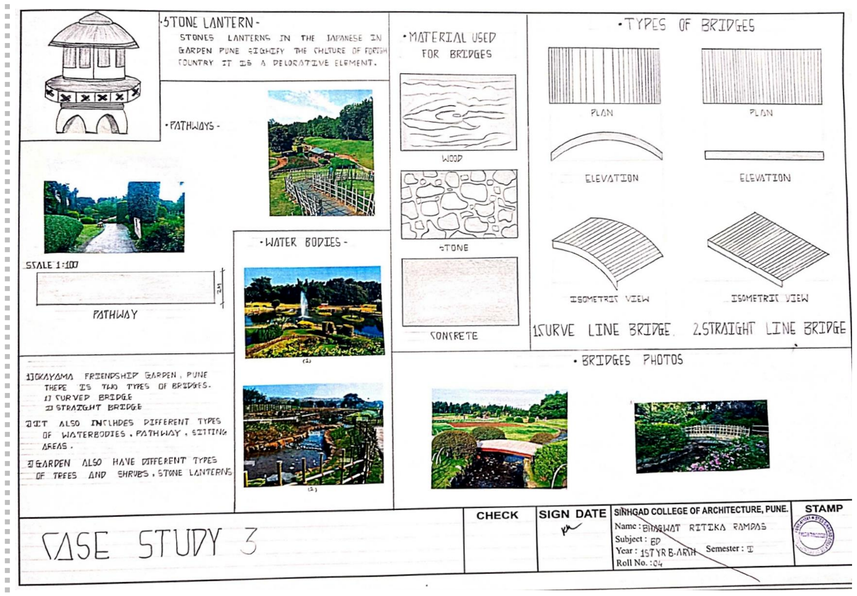
COLOUR THEORY

REMARK	SINHGAD COLLEGE OF ARCHITECTURE	STAMP
6-10 5/10 02/03/23 03/03/23 5/10	NAME- RAHUL SANJAY BHAMARE DIVISION- A ROLL NO- 07 SUBJECT- BASIC DESIGN 1st YEAR B.ARCH	



CASE STUDY-OKAYAMA GARDEN

CHECK	SIGN DATE	SINHGAD COLLEGE OF ARCHITECTURE, PUNE.	STAMP
	14/3/23 8.5/10.	Name : RAHUL SANJAY BHAMARE Subject : BASIC DESIGN Year : 1st YEAR Semester : I Roll No. : 07	



CASE STUDY 3

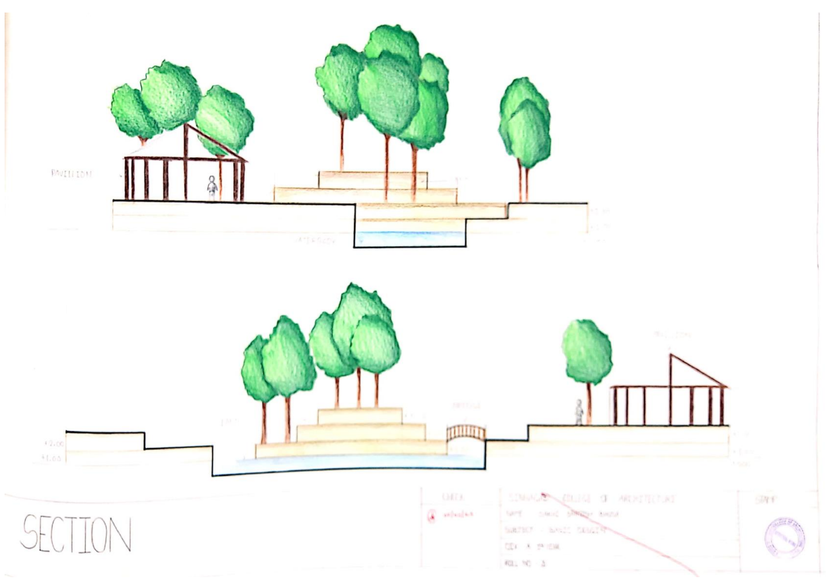
CHECK	SIGN DATE	SINHGAD COLLEGE OF ARCHITECTURE, PUNE.	STAMP
		Name : BHAGWAT RITIKA RAMDAS Subject : BD Year : 1ST YR B.ARCH Semester : I Roll No. : 24	

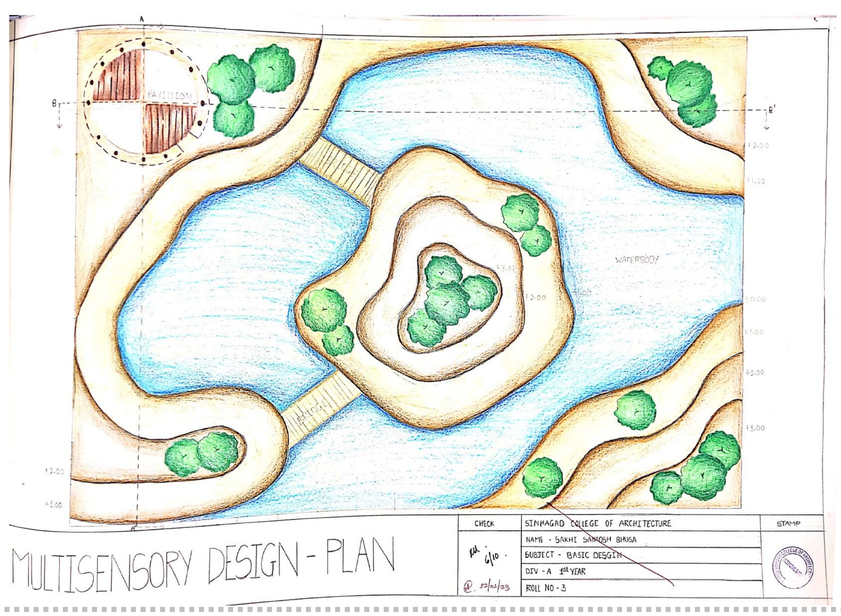
1st Year B.Arch TERM I 2022-2023

BASIC DESIGN

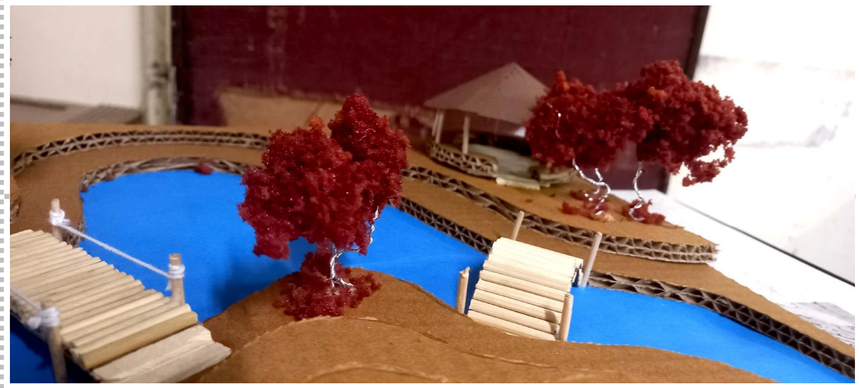
Student : Sakhi Bhusa,Ritika Bhgawat, Rahul Bhamare
Faculty: Kalpana Hadap,Avanti Kale,Vrushali Dhamne

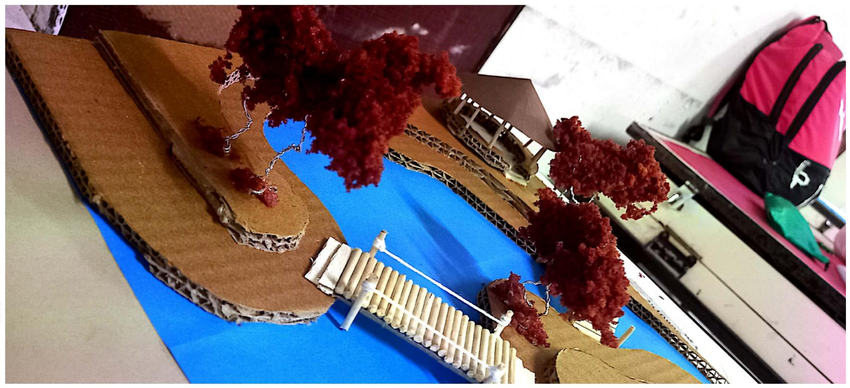
Sinhgad College of Architecture, Pune

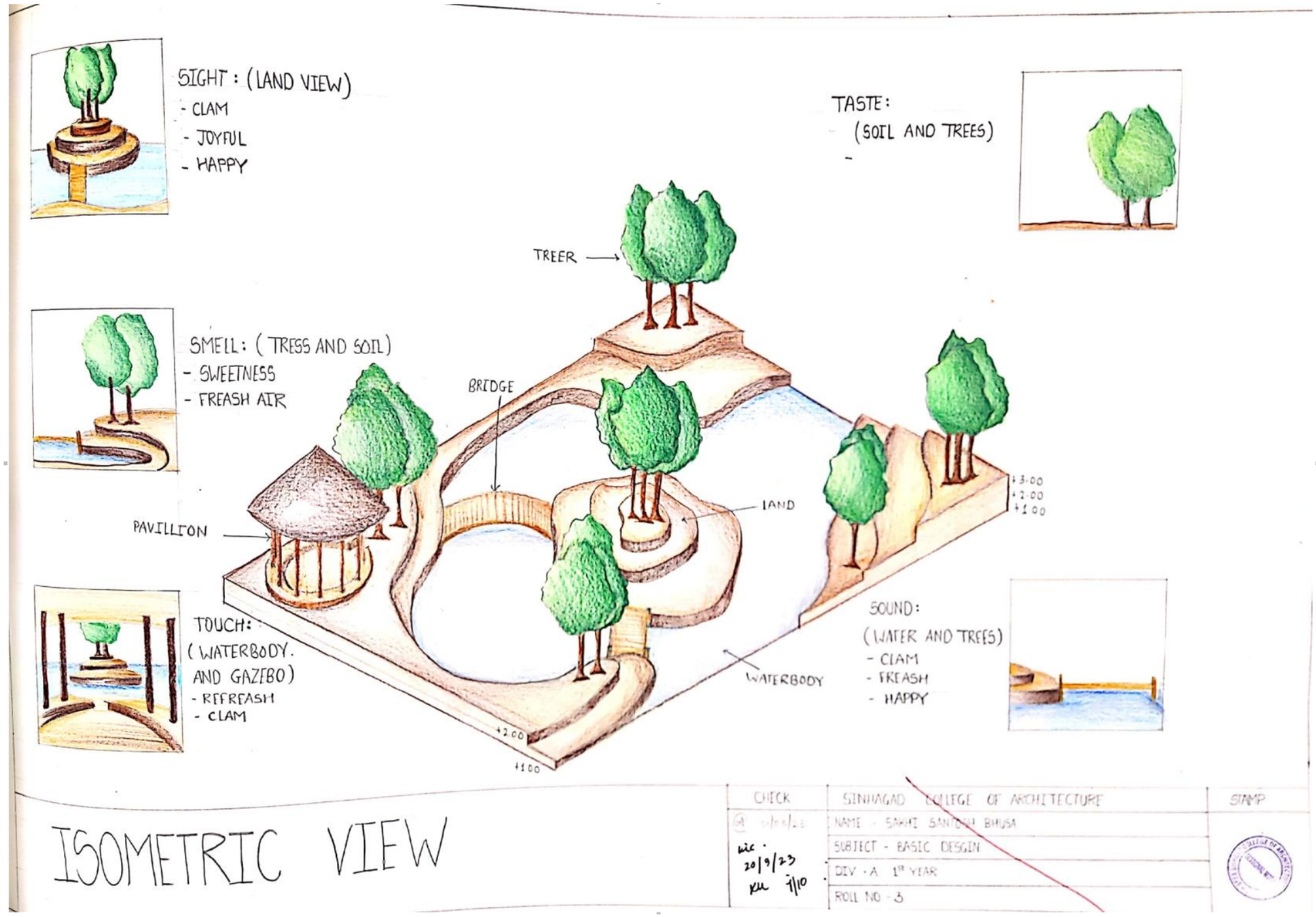










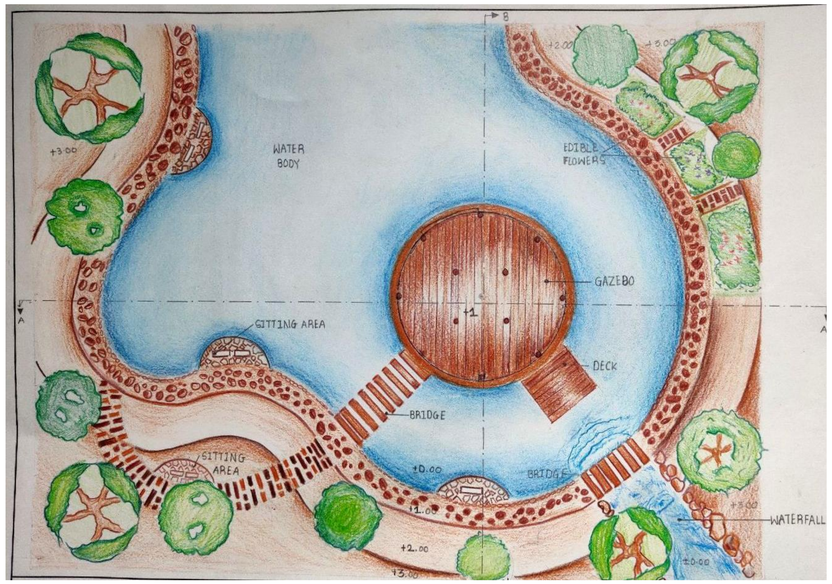


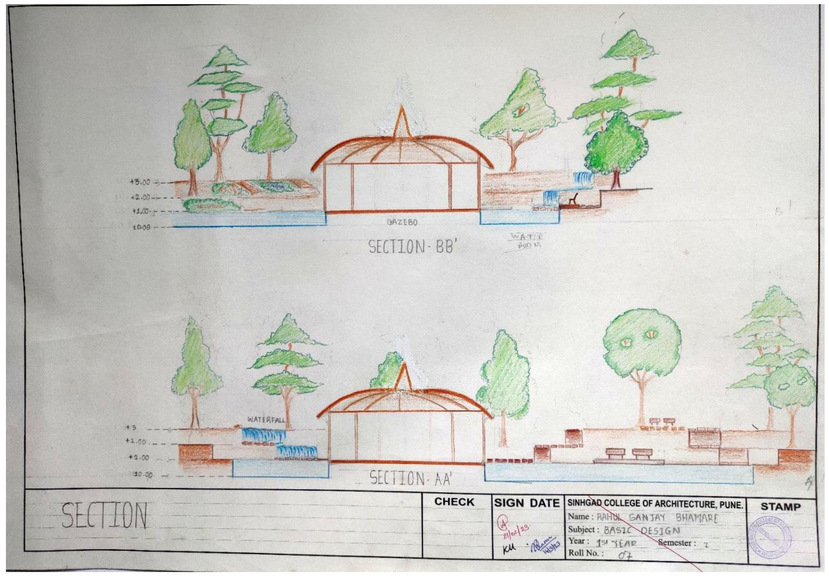
1st Year B.Arch TERM I 2022-2023

BASIC DESIGN

Student : Sakhi Bhusa
Faculty: Kalpana Hadap,Avanti Kale,Vrushali Dhamne

Sinhgad College of Architecture, Pune

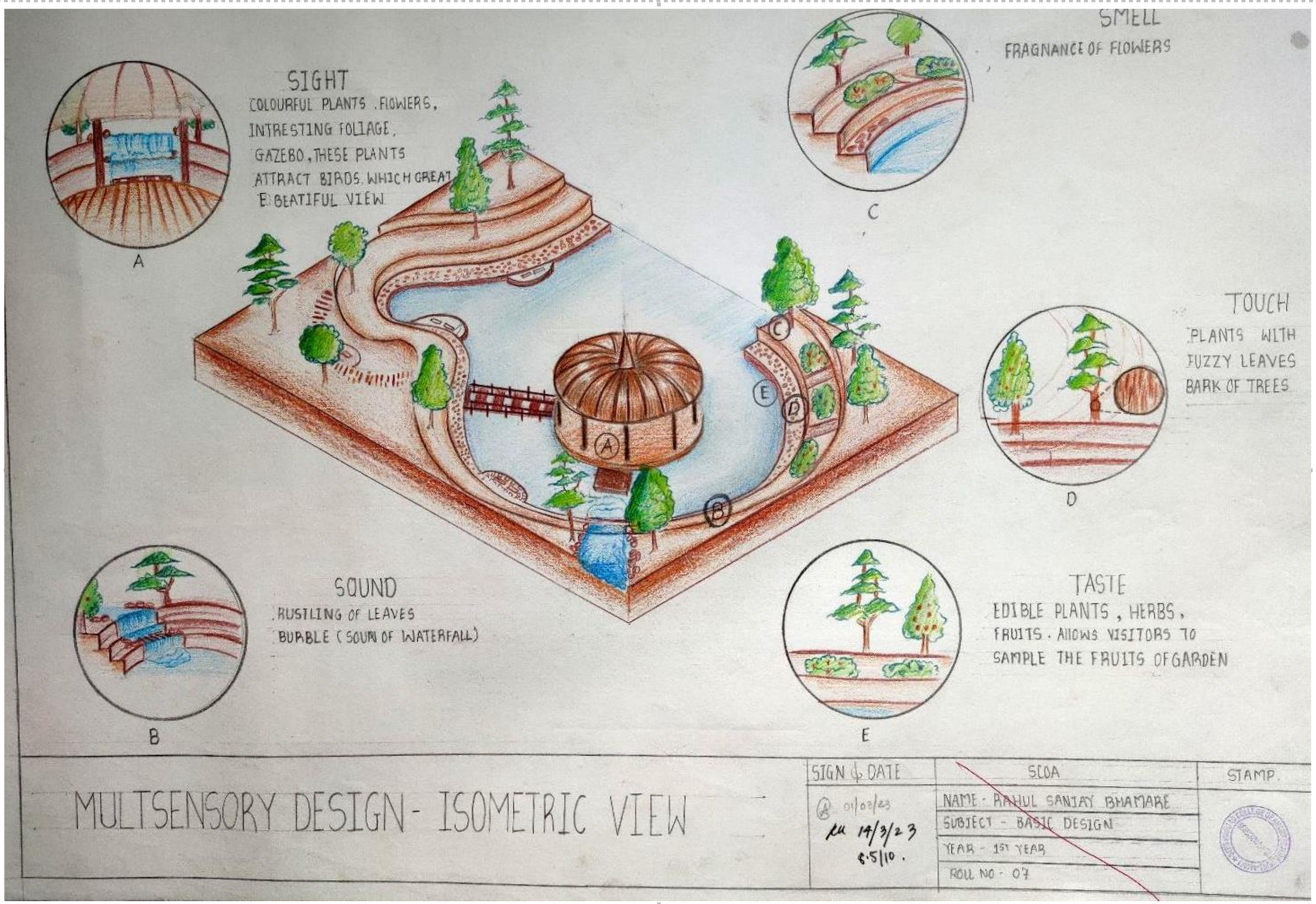




Introduction:

- Methods to improve creativity, include Abstraction , Transformation and Brainstorming by thoughtful change of form under altering steps and list of mental associations.

- To design Contour Model by Introduction to Responsive ,open architecture and interaction with people and Identify spaces with positive and negative emotions and activated senses through Multi sensory aspects of space with careful attention to the way a space impacts both in the short and long term, placing user at the center.



1st Year B.Arch TERM I 2022-2023

BASIC DESIGN

Student : Rahul Bhamare
Faculty: Kalpana Hadap,Avanti Kale,Vrushali Dhamne

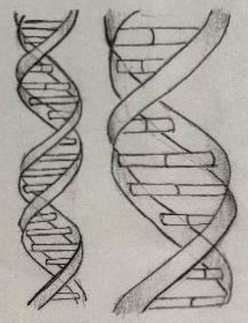
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THE HELIX BRIDGE

OFFICIAL NAME -
LOCAITON -
OPENED -
ARCHITECTS -

INSIPRATION -

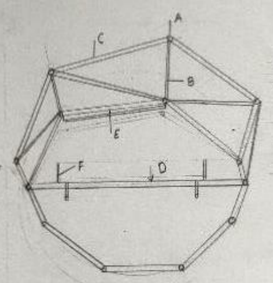
- THE GEOMETRIC ARRANGEMENT OF **DNA** , WITH A WALKWAY ENCIRCLED BY OPPOSING DOUBLE HELIX STRUCTURE OF STAINLESS STEEL.



DNA HELIX STRCTURE

IT IS SEEN AS SYMBOL OF CONTINUITY AND RENEWAL. THE 280 M LONG BRIDGE IS THE FIRST DOUBLE HELIX BRIDGE IN WORLD IT IS VERY LIGHTWEIGHT STRUCTURE BUILD AIMOST ENTIRELY USING DUPLEX

DESIGN:



A- MAJOR HELIX
B- MINOR HELIX
C- STRUT
D- DECK
E- CANOPY
F- GLASS/ STEEL BALSTRADE

BRIDGE SECTION



3D-MODEL USED TO ANALYSE FORCES

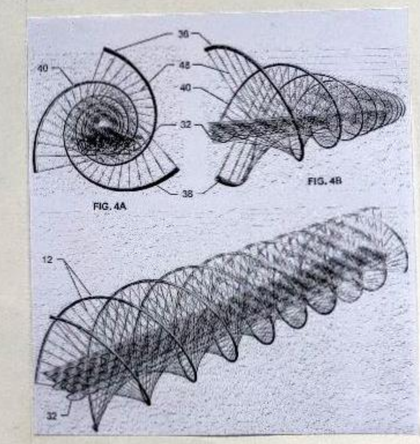


SCHEMATIC OF BRIDGE





PEDISTRIAN VIEW THROUGH THE BRIDGE





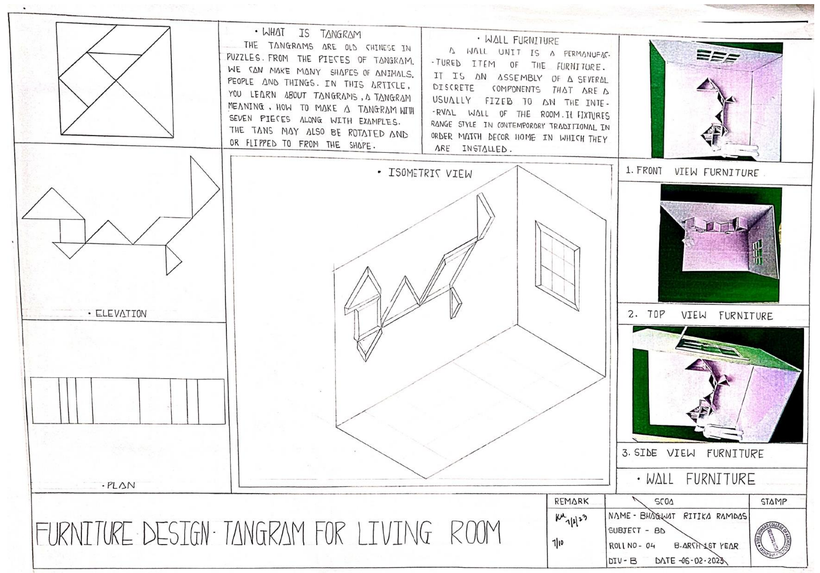
COMPLEXITY OF OPPOSITE HELIX

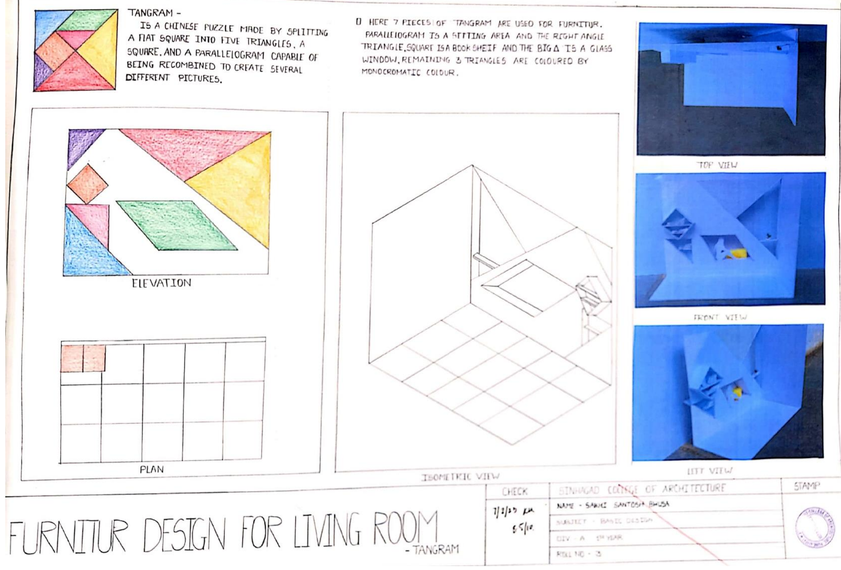


TOP VIEW

BIOMIMICRY - THE HELIX BRIDGE

CHECK	SIGN DATE	SINHGAD COLLEGE OF ARCHITECTURE, PUNE.	STAMP
	14/3/23	Name : RAHUL SANJAY BHAMARE Subject : BASIC DESIGN Year : 1st Semester : I Roll No. : 07	



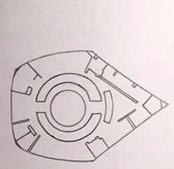


THE TURNING TORSO

OFFICIAL NAME - THE TURNING TORSO
LOCATION - MALMÖ SWEDEN
OPENED - 2005
ARCHITECT - SANTIAGO CALATRAVA

⇒ INSPIRATION :-
BASED ON SCULPTURE, 'TWISTING TORSO' EXPLORING THE HUMAN BODY IN MOTION.

- FORM IS MADE UP OF 9 CUBES, EACH INDIVIDUAL CUBE CONTAINING FIVE STORIES.
- TWISTS 90° DEGREES FROM THE GROUND LEVEL TO TOP FLOOR.
- NINE STACKED PENTAGONS THAT TWIST RELATIVE TO EACH OTHER -WAS THE WORLDS FIRST TWISTING TOWER.
- TO CONSTRUCT THE STRUCTURE WITH THIS FORM AND STRUCTURE SUPPORT, HE CAME UP WITH THE SOLUTION OF PENTAGONAL SHAPE FLOOR PLANE WITH THE POINTED EDGE, WHICH WITH PLAY A KEY ROLE TO MAKE A PERSON VISUALIZE A BUILDING AS A TURNING TOWER.



PLAN









CONSTRUCTION PROCESS





VIEWS



TOP VIEW

BIOMIMICRY-THE TURNING TORSO

CHECK	SIGN DATE	SINHGAD COLLEGE OF ARCHITECTURE, PUNE.	STAMP
	20/3/23	Name : GAURI GHISAD Subject : BASIC DESIGN Year : 1st Semester : I Roll No. : 25	

EASTGATE CENTER

OFFICIAL NAME - EASGATE CENTER
LOCATION - ZIMBABWE
OPENED - 1996
ARCHITECT - MICK PEARCE

⇒ INSPIRATION :-
THE DESIGN IS INSPIRED BY THE VENTILATION OF TERMITE MOUNDS.

- EASTGATE WAS THE FIRST BUILDING IN THE WORLD TO MIMIC TERMITE ARCHITECTURE
- TERMITE MOUNDS ARE CONSTRUCTED LIKE CHIMNEY. THE MOUND WARMS UP IN THE SUN DURING THE DAY, AND BY NIGHTFALL THE AIR INSIDE THE MOUND IS WARMER THAN OUTSIDE.
- WARM AIR IS DRAWN UP THROUGH DISTINCTIVE BRICK CHIMNEYS ON THE ROOF, PULLING IN COOL NIGHT AIR AT THE BOTTOM. THE COOL AIR IS CAPTURED IN UNDERGROUND GAPS, AND RELEASED INTO THE BUILDING DURING THE DAY THROUGH NETWORK OF PIPES AND TUNNELS. THIS TECHNIQUE AVOIDS THE USE OF AIR CONDITIONING, AND USES A FRACTION OF THE ENERGY.
- THE INTERIOR USES THE GLASS AND STEEL OF MODERN URBAN HIGH RISE BUILDINGS.



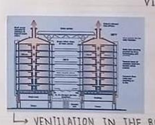


WORKING OF A TERMITE MOUND





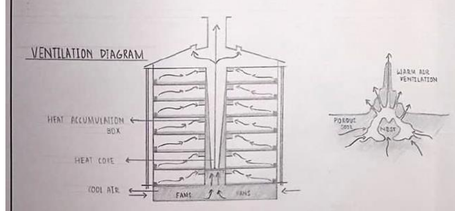
VIEWS





VENTILATION IN THE BUILDING

VENTILATION DIAGRAM



BIOMIMICRY-EASTGATE CENTER

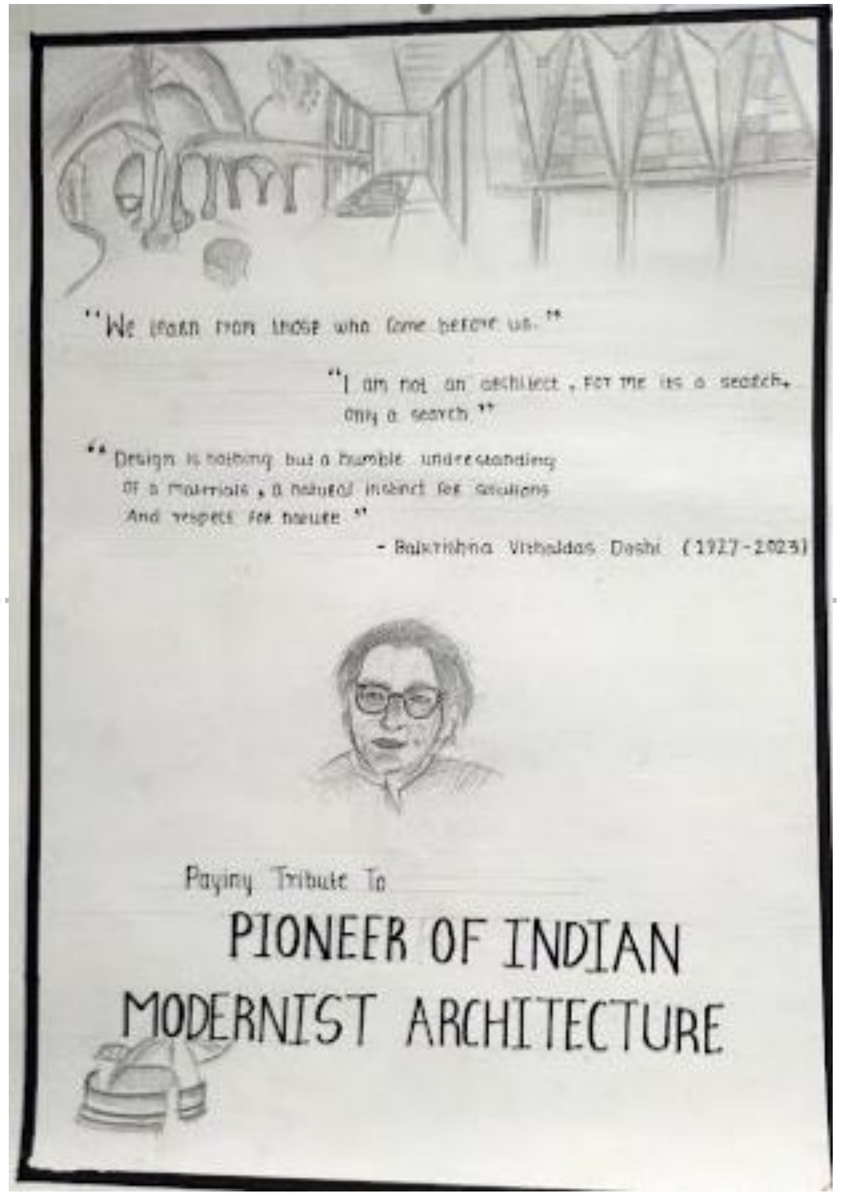
CHECK	SIGN DATE	SINHGAD COLLEGE OF ARCHITECTURE, PUNE.	STAMP
	20/3/23	Name : GAURI GHISAD Subject : BASIC DESIGN Year : 1st Semester : I Roll No. : 25	

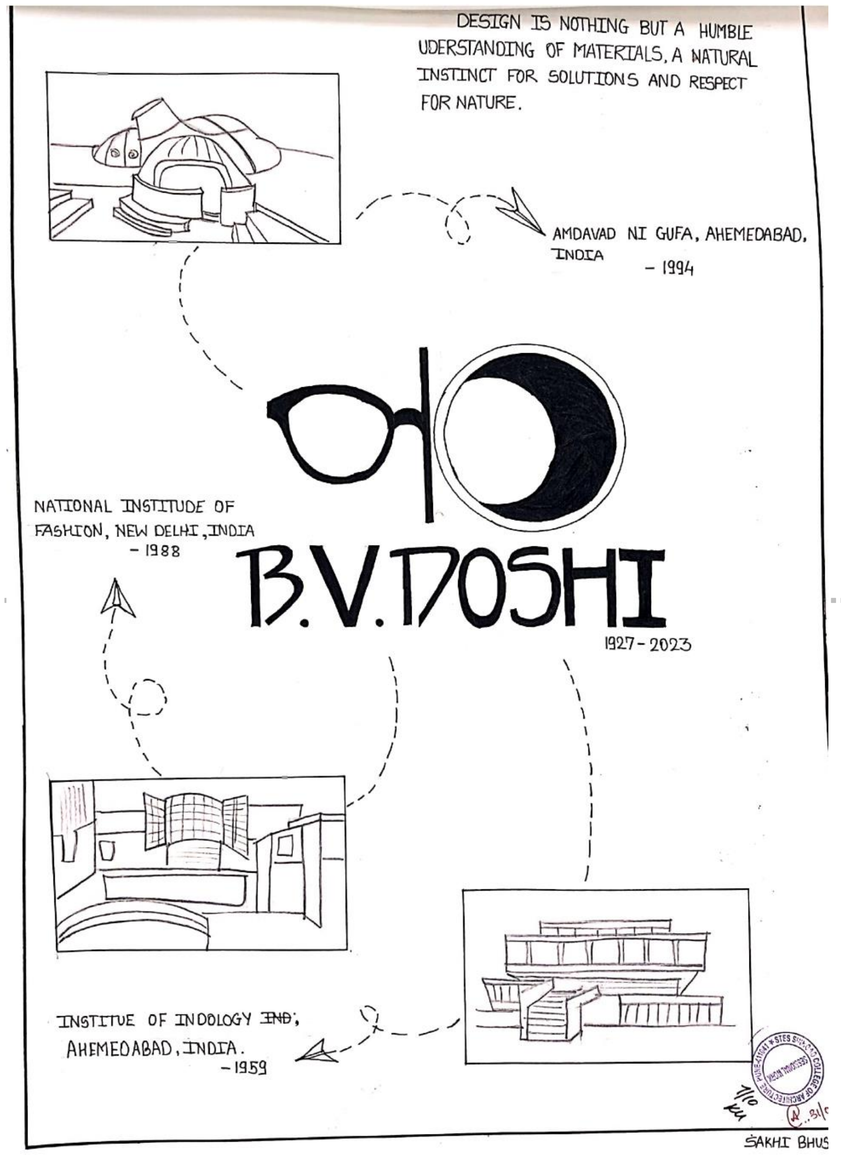
1st Year B.Arch TERM I 2022-2023

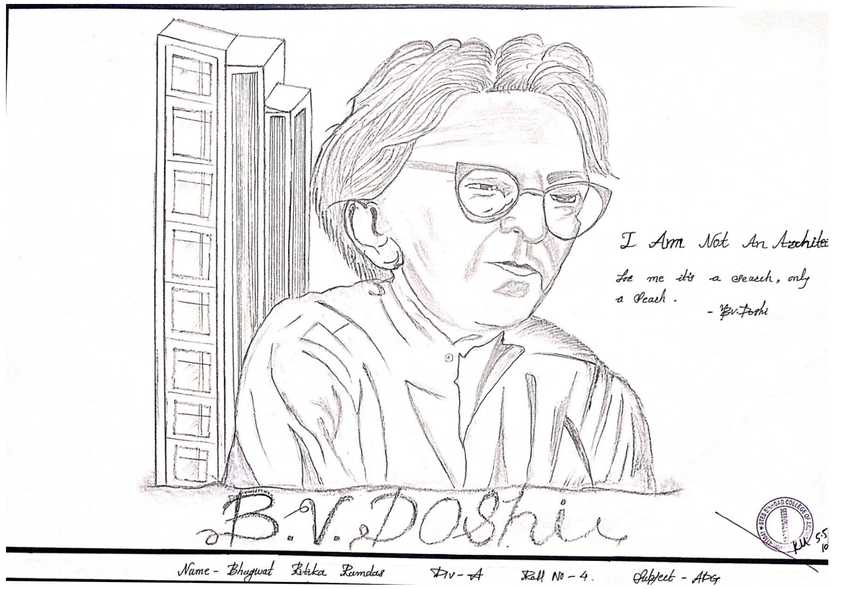
BASIC DESIGN

Student : Sakhi Bhusa,Ritika Ghogre, Rahul Bhamare,Gauri Ghisad
Faculty: Kalpana Hadap,Avanti Kale,Vrushali Dhamne

Sinhgad College of Architecture, Pune

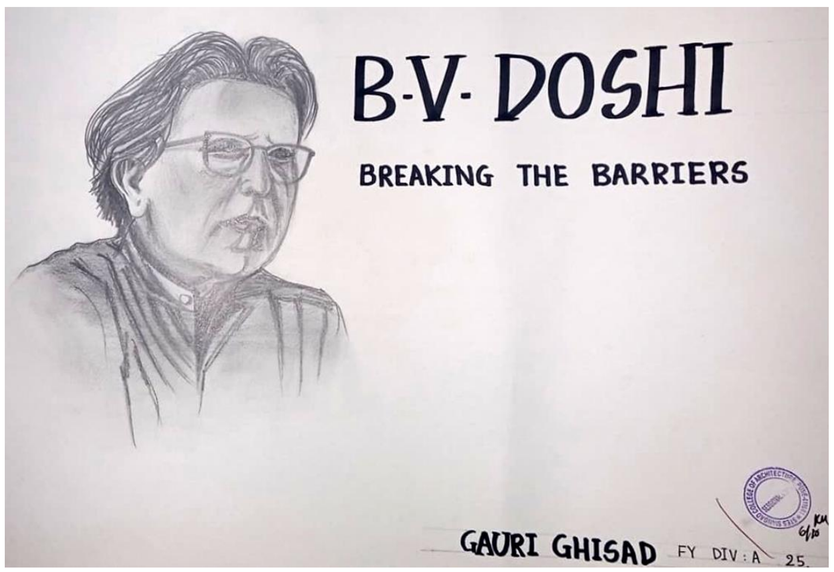


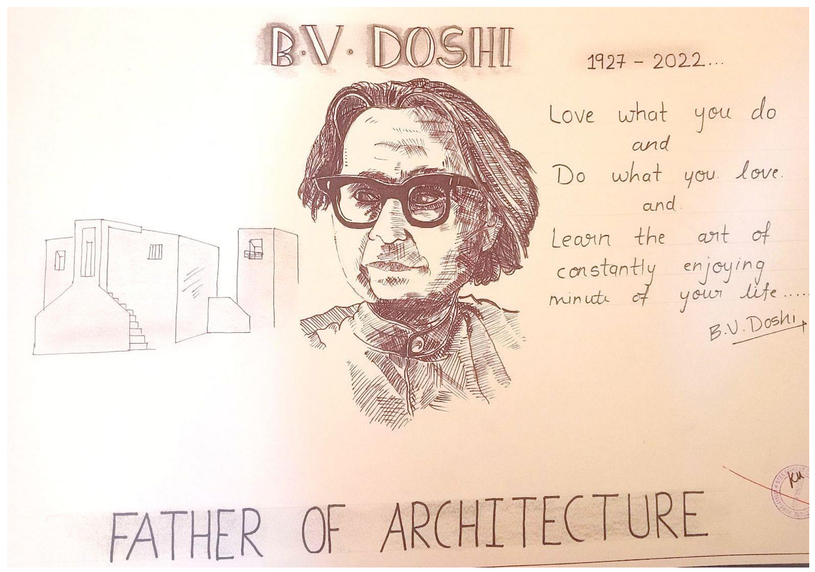




Celebrating the Architectural Vision of B.V. Doshi

- To design a poster as a tribute to the visionary architect Bal Krishna Vithaldas Doshi, fondly known as B.V. Doshi.
- With a career spanning several decades, Doshi's innovative designs, sustainable ethos, and deep cultural understanding have left an indelible mark on the field of architecture.
- Explore the remarkable journey of a man who transformed spaces into timeless works of art

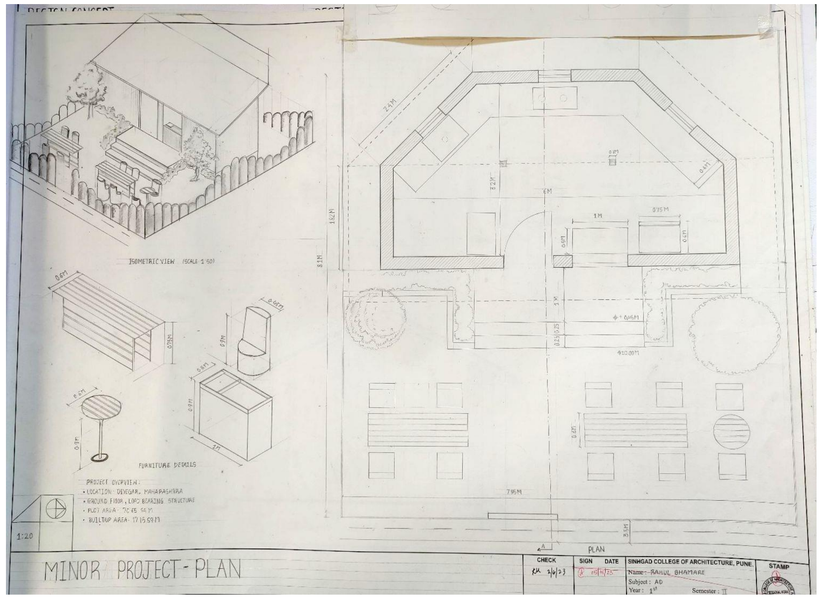


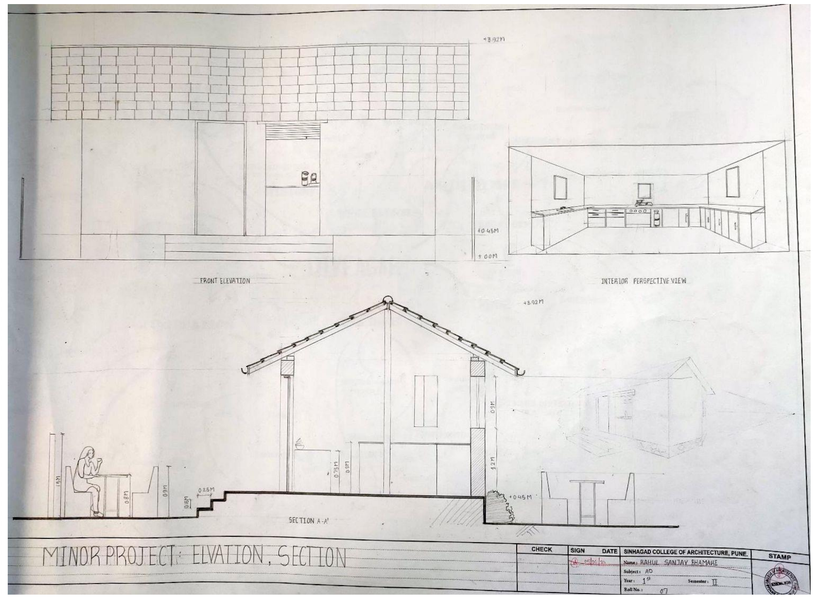


1st Year B.Arch TERM I 2022-2023

BASIC DESIGN

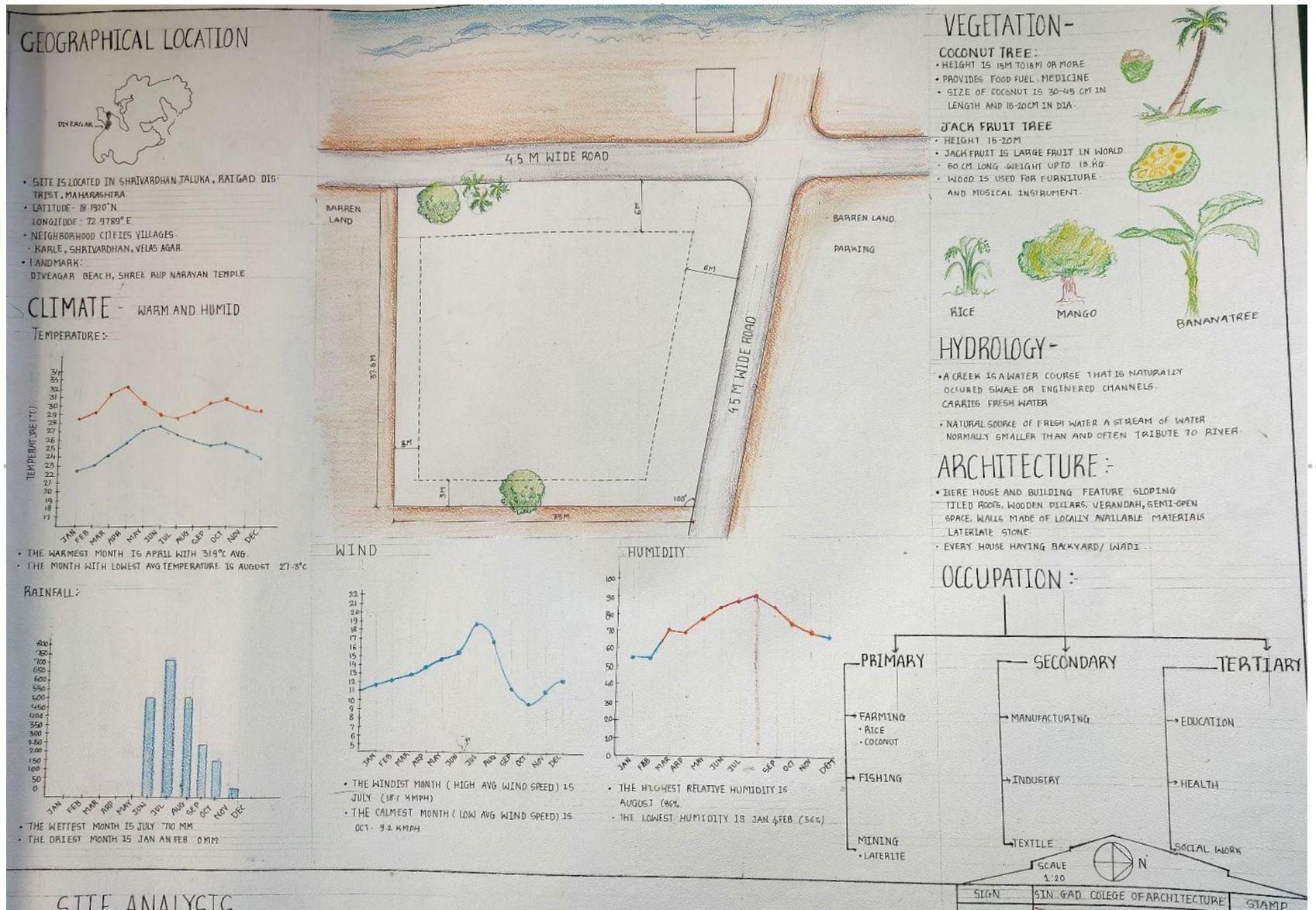
Student : Sakhi Bhusa,Ritika Ghogre, Rahul Bhamare,Gauri Ghisad,Riya Badade
Faculty: Kalpana Hadap, Avanti Kale, Vrushali Dhamne
Sinhgad College of Architecture, Pune

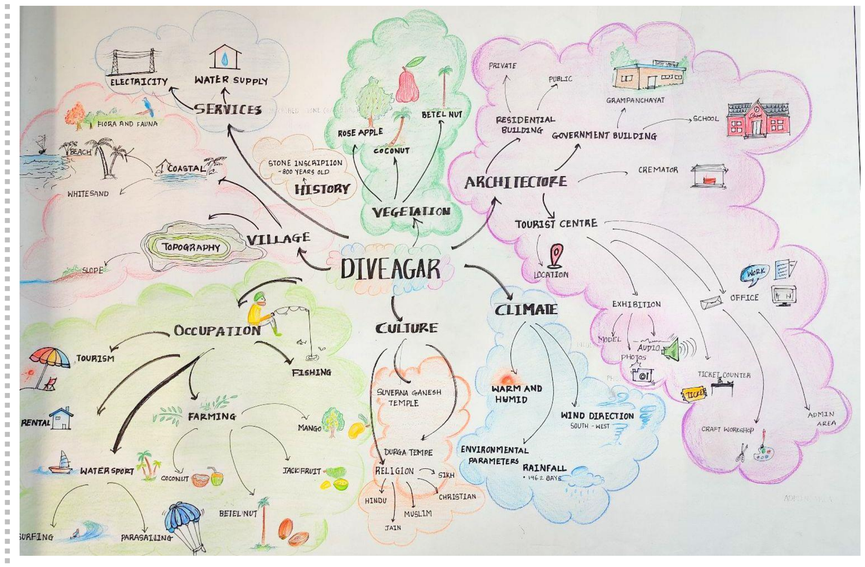




Project Details

Diveagar is a village located in Shrivardhan Taluka, Raigad district in the state of Maharashtra. By understanding the value of the village after a thorough study, it is concluded that besides farming and tourism, it is equally important to take serious conservation efforts wrt socio-culture, architecture, etc holding the authenticity of the place. A Tourist Centre focusing on the sustainable upliftment of the village is proposed by the students of First Year B.Arch. A small beach side shop outlet catering to the beach activities and quick snacks will be a part of the major project of the Tourist Centre.



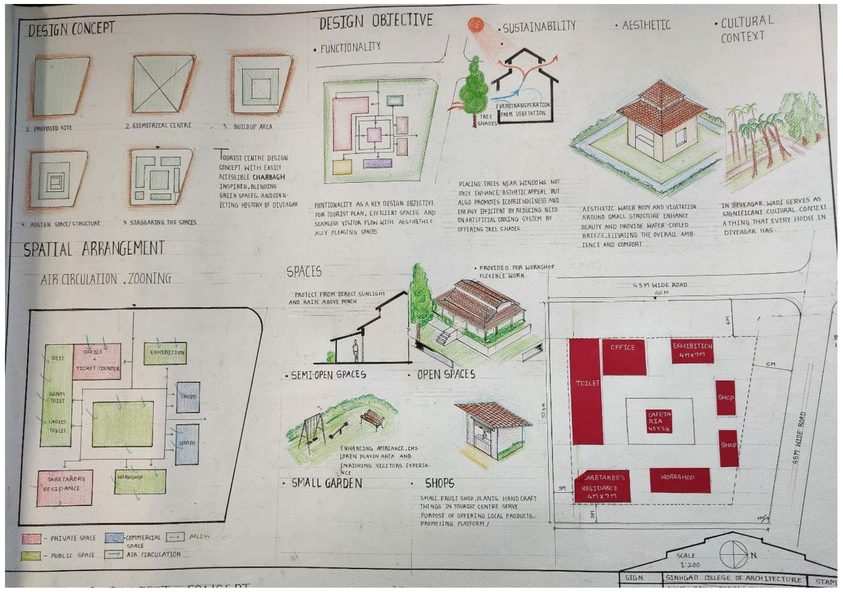


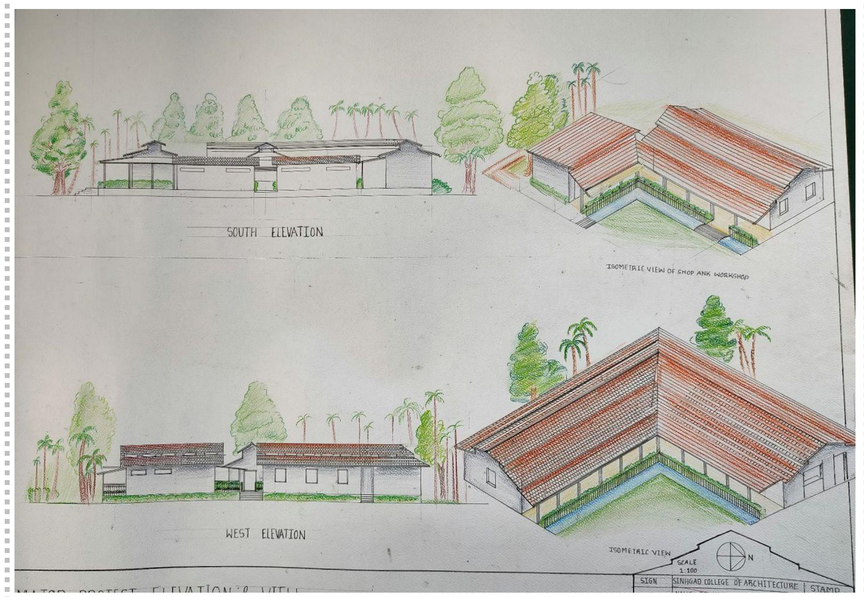
1st Year B.Arch TERM I 2022-2023

ARCHITECTURAL DESIGN I

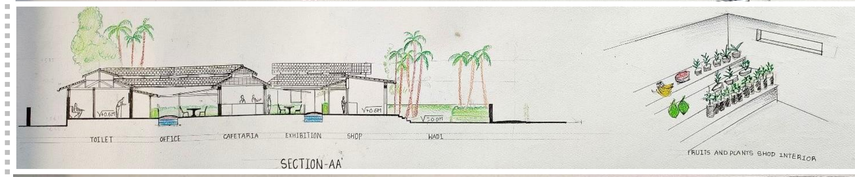
Student : Rahul Bhamare
Faculty: Kalpana Hadap,Avanti Kale,Vrushali Dhamne

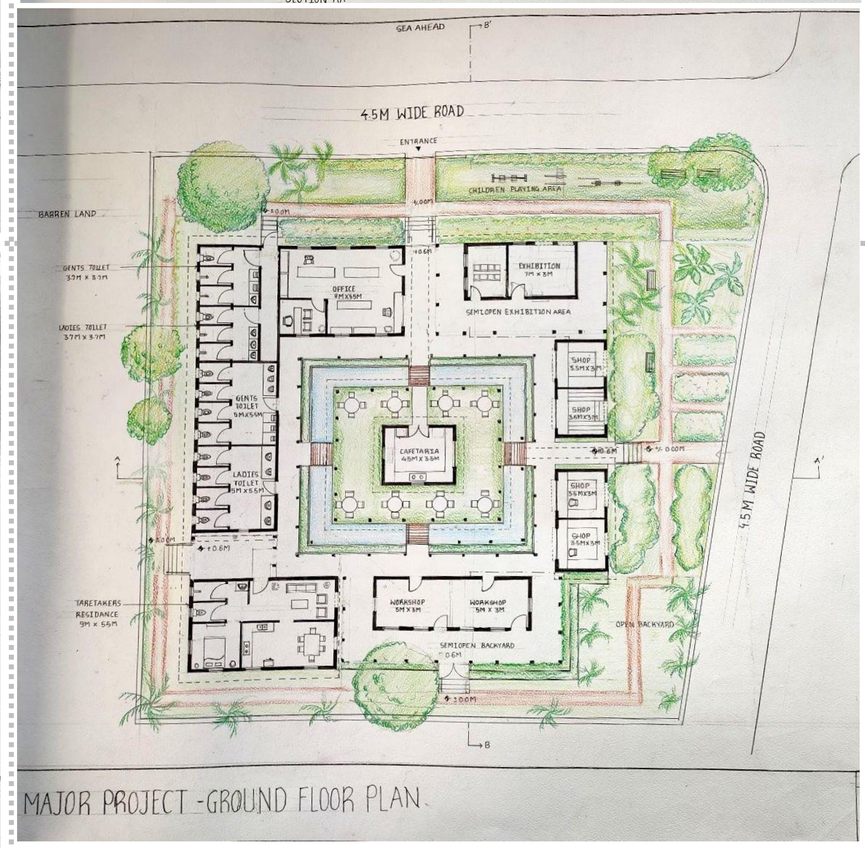
Sinhgad College of Architecture, Pune

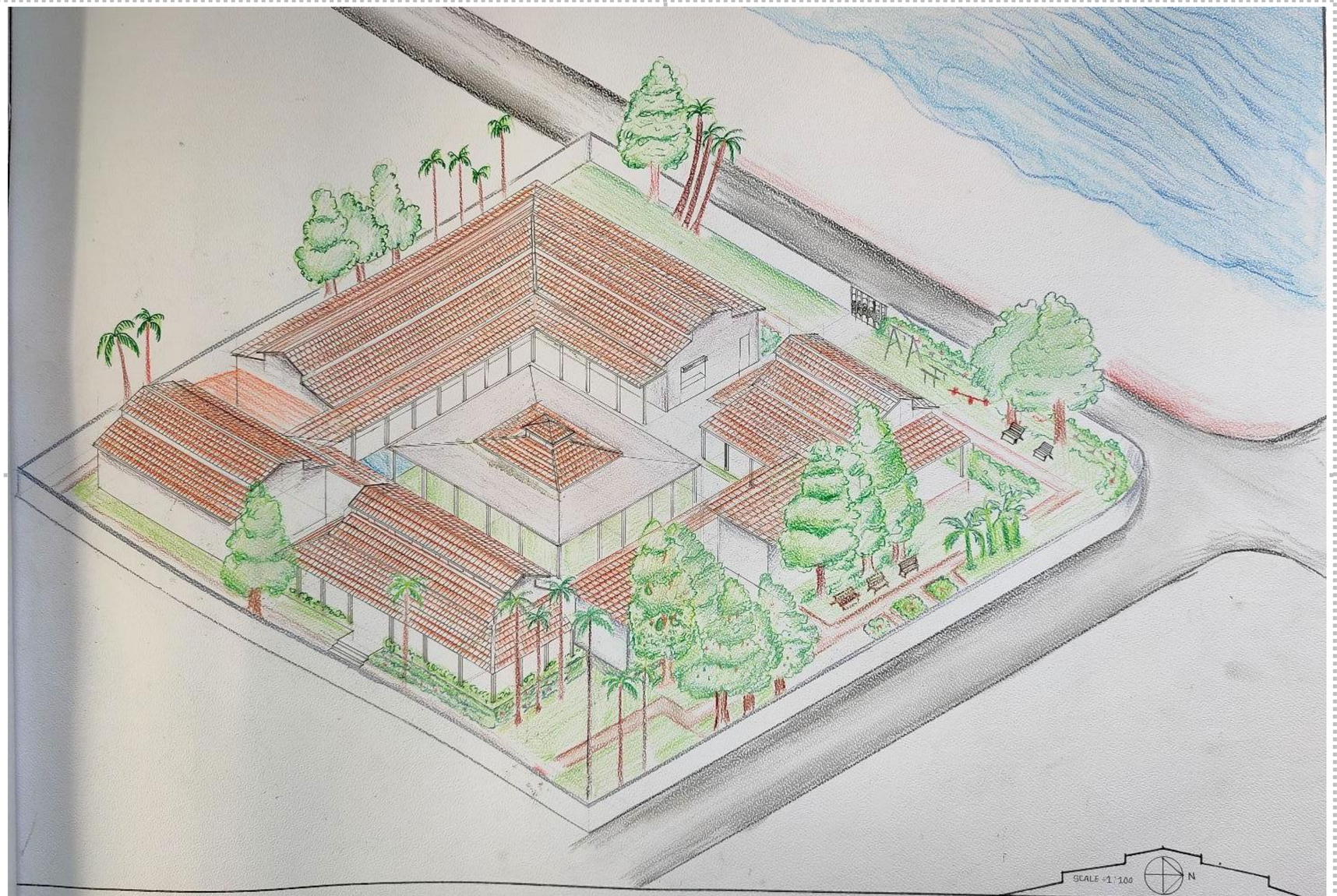










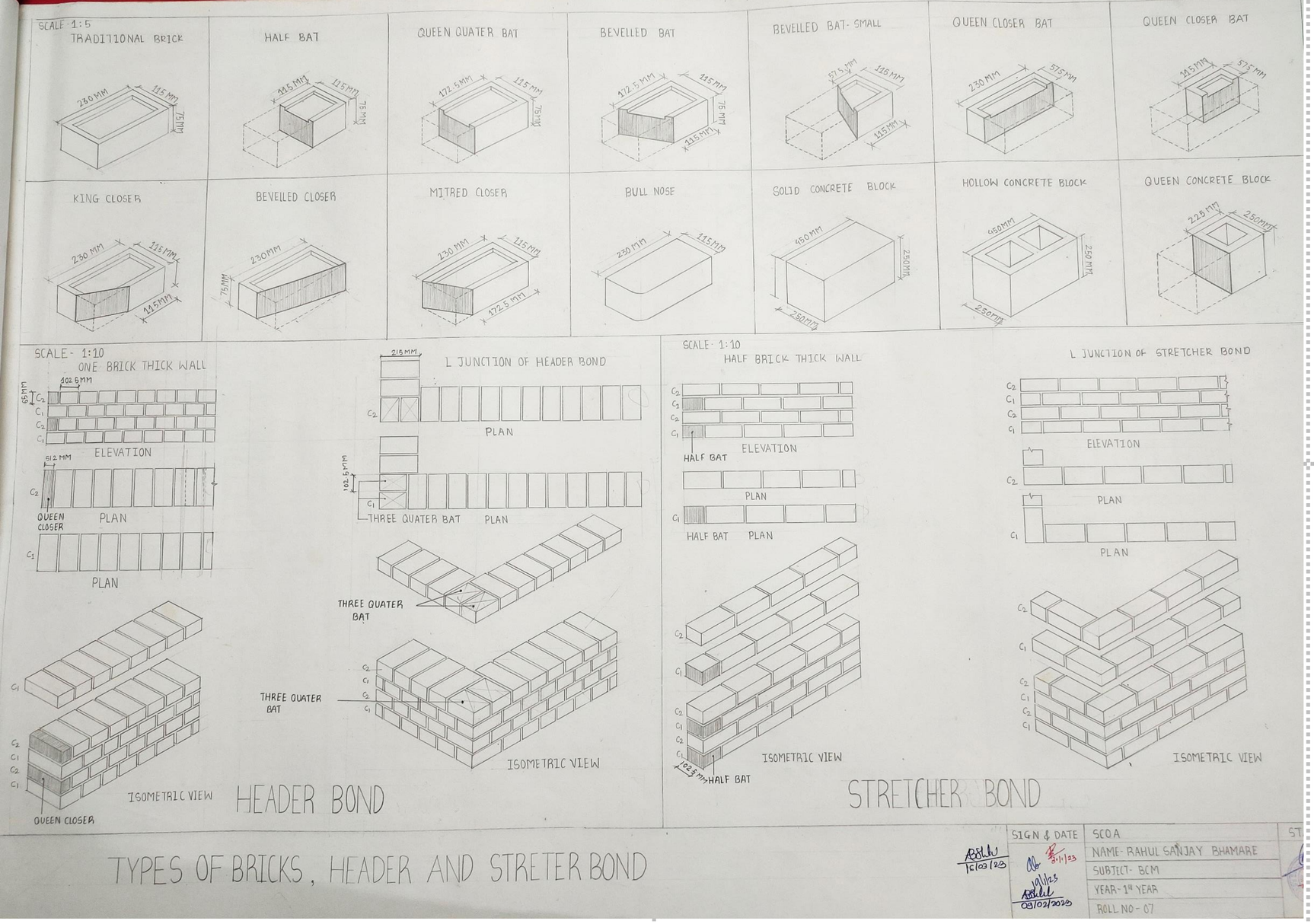


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ARCHITECTURAL DESIGN I

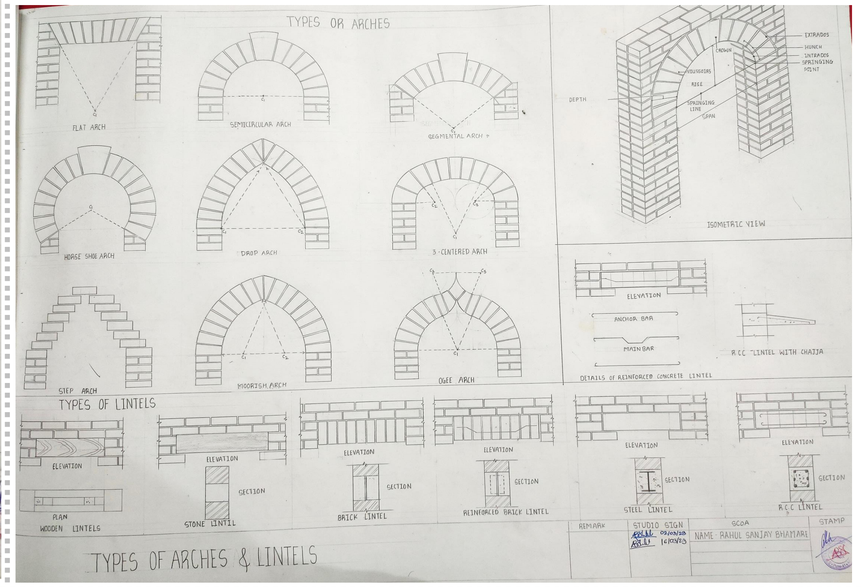
Student : Rahul Bhamare
Faculty: Kalpana Hadap,Avanti Kale,Vrushali Dhamne

Sinhgad College of Architecture, Pune



Project Details

- Introduction to various building elements from foundation to roof and concept of load transfer.
- Strip Foundations suitable for load bearing structures in stone and brick up to plinth level including foundation for steps--Plinth formation, DPC–
- Introduction to Load bearing / non load bearing masonry construction using materials such as Stone, bricks, concrete blocks, soil stabilized blocks, rammed earth construction.
- Introduction to openings, spanning of openings by types of arches and lintels.

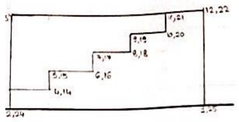


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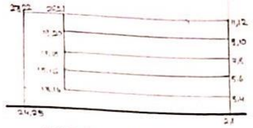
BUILDING CONSTRCUTION AND MATERIALS I

Student : Rahul Bhamare
Faculty: Priyanka Purohit, Ashwini Shitole

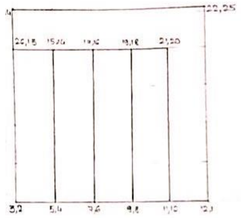
Sinhgad College of Architecture, Pune



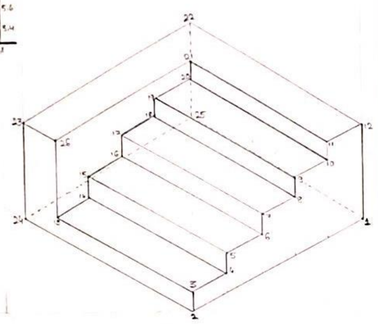
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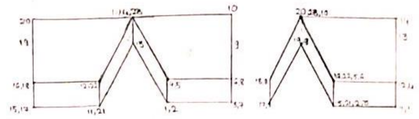
LHS ELEVATION



PLAN

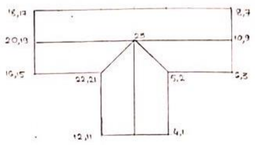


ISOMETRIC VIEW

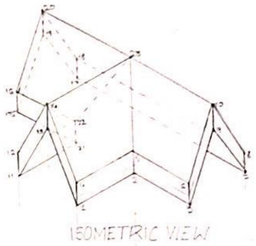


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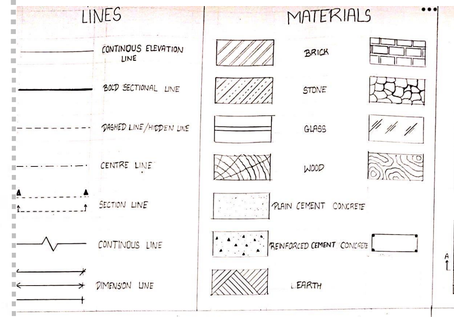
LHS ELEVATION

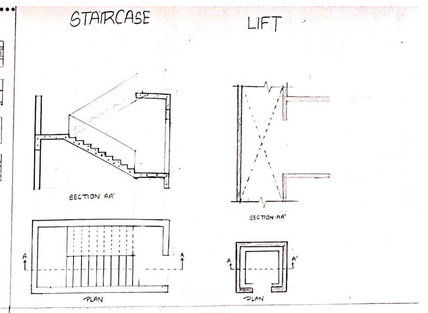


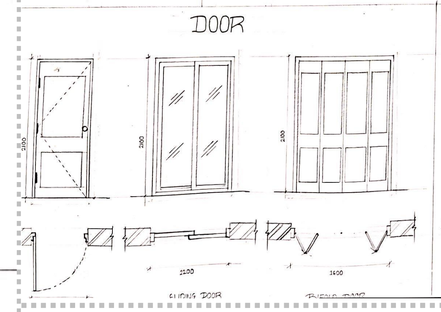
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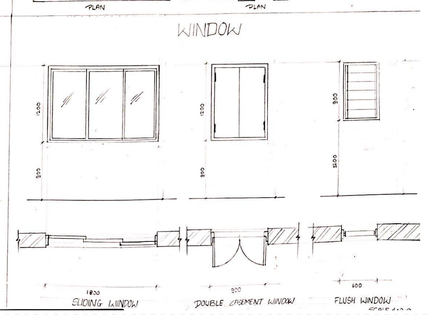


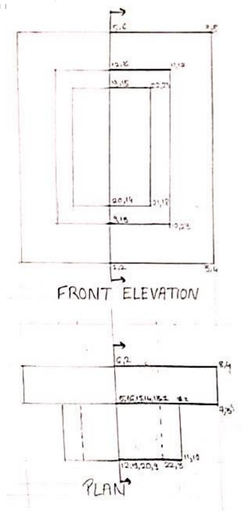
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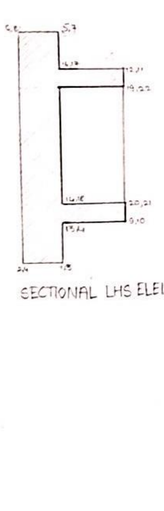






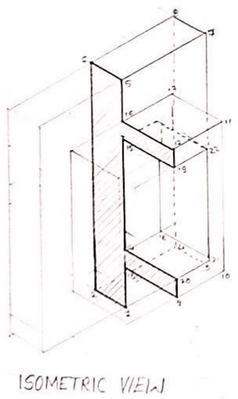


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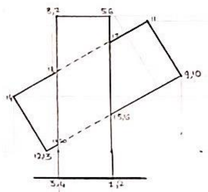


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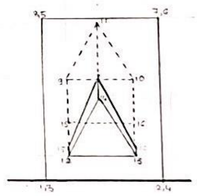
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ISOMETRIC VIEW

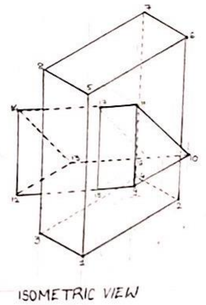


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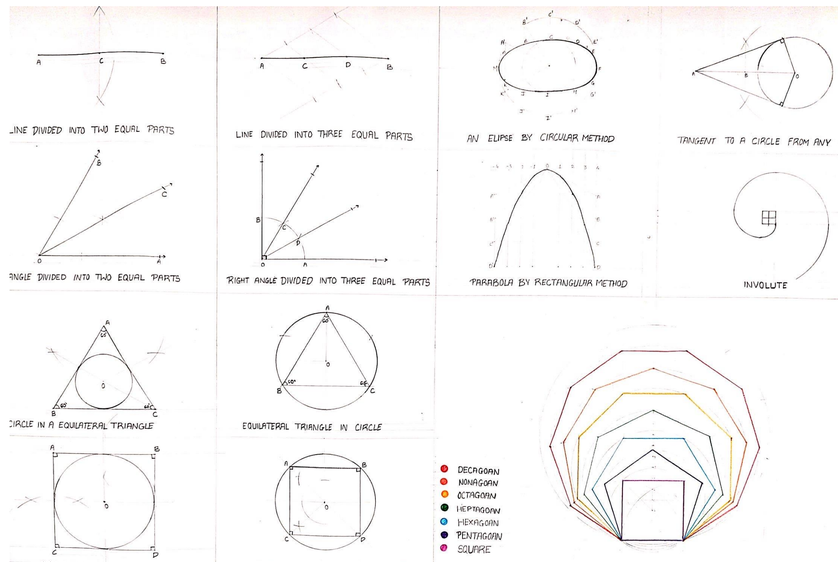


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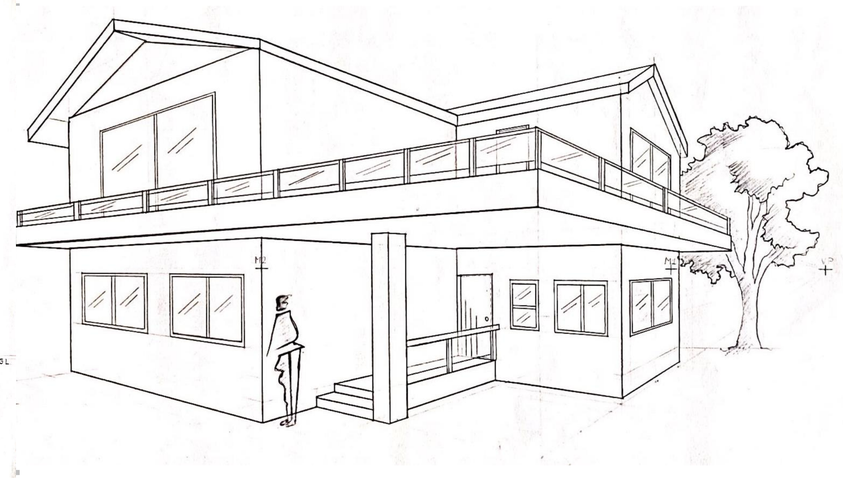
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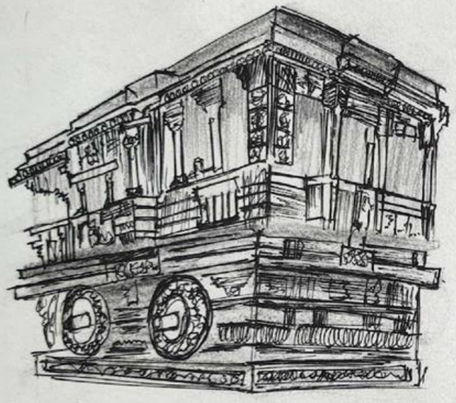


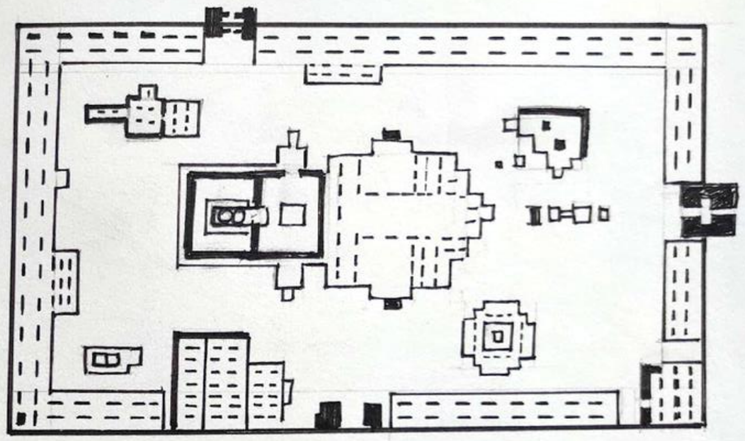
1st Year B.Arch TERM I 2022-2023

ARCHITECTURAL GRAPHICS DESIGN I

Student : Tejaswini Jangle
Faculty: Ar. Akshay Pipada

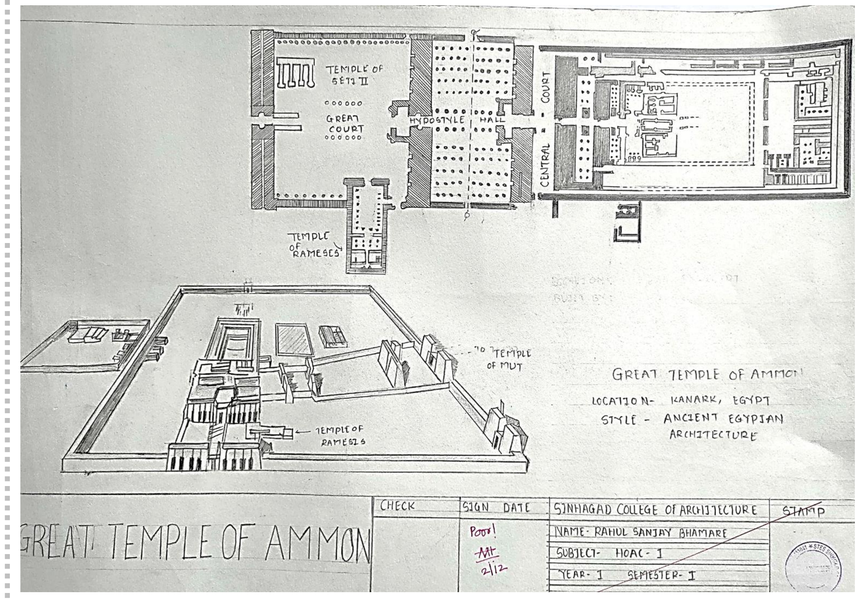
Sinhgad College of Architecture, Pune





VITTHAL TEMPE

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	NAME - RAHUL BHAMARE	
	SUBJECT - HOA-I	
	YEAR - 1st YEAR	
	ROLL NO - 07	

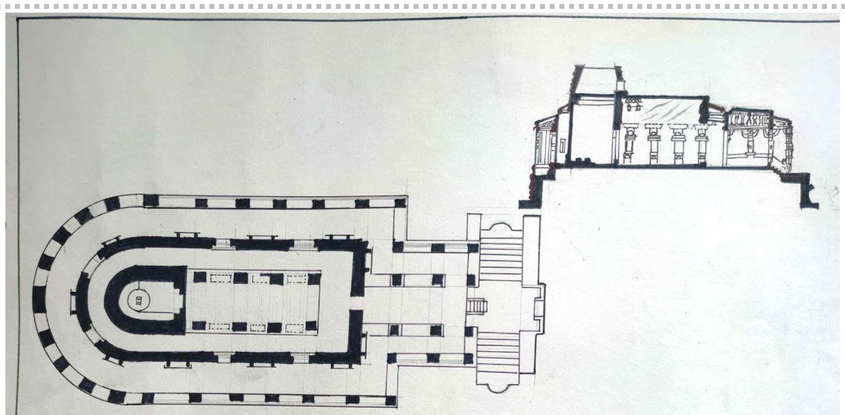


GREAT TEMPLE OF AMMON

LOCATION- KANARK, EGYPT
STYLE - ANCIENT EGYPIAN ARCHITECTURE

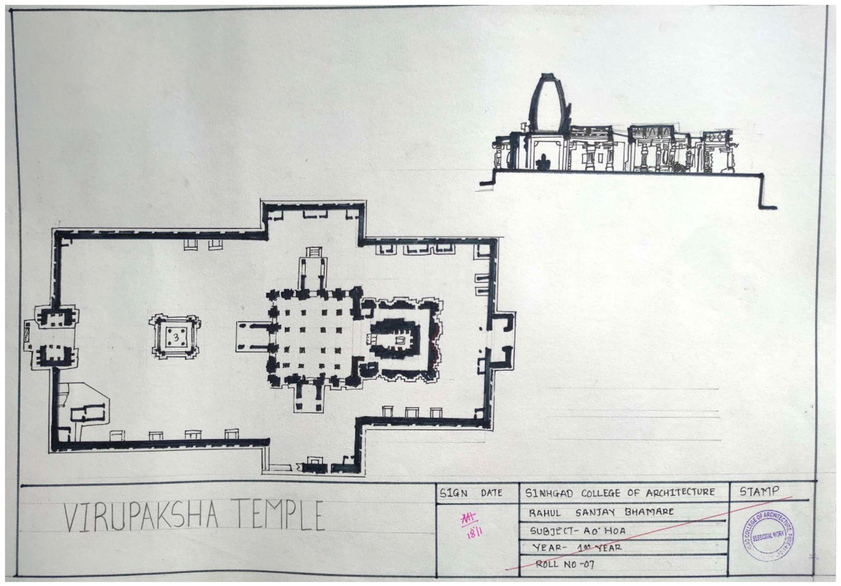
GREAT TEMPLE OF AMMON

CHECK	SIGN DATE	SINHGAD COLLEGE OF ARCHITECTURE	STAMP
	Poor! 2/12	NAME- RAHUL SANJAY BHAMARE	
		SUBJECT- HOAC - I	
		YEAR- I SEMESTER- I	



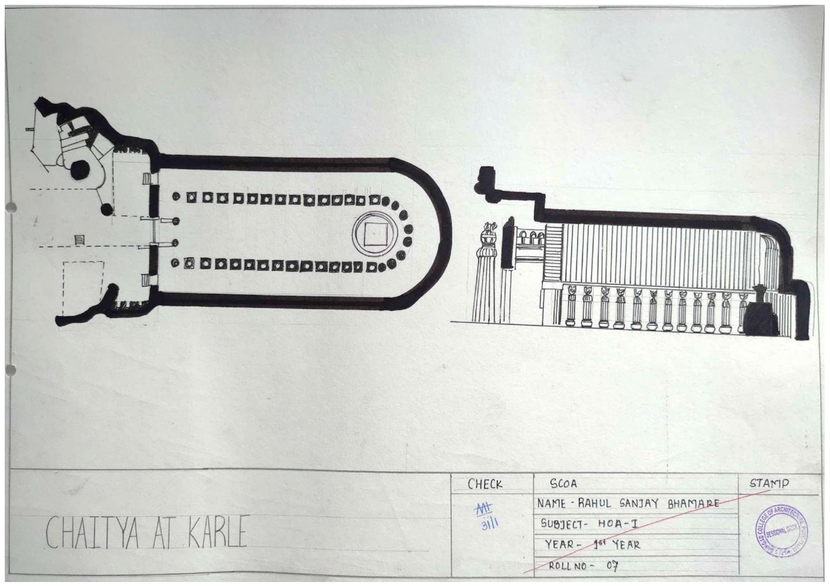
DURGA TEMPLE

SIGN - DATE	SINHGAD COLLEGE OF ARCHITECTURE	STAMP
18/1	RAHUL SANJAY BHAMARE	
	SUBJECT- HOA	
	YEAR- 1st YEAR	



VIRUPAKSHA TEMPLE

SIGN DATE	SINHGAD COLLEGE OF ARCHITECTURE	STAMP
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	YEAR- 1st YEAR	
	ROLL NO-07	



CHAITYA AT KARLE

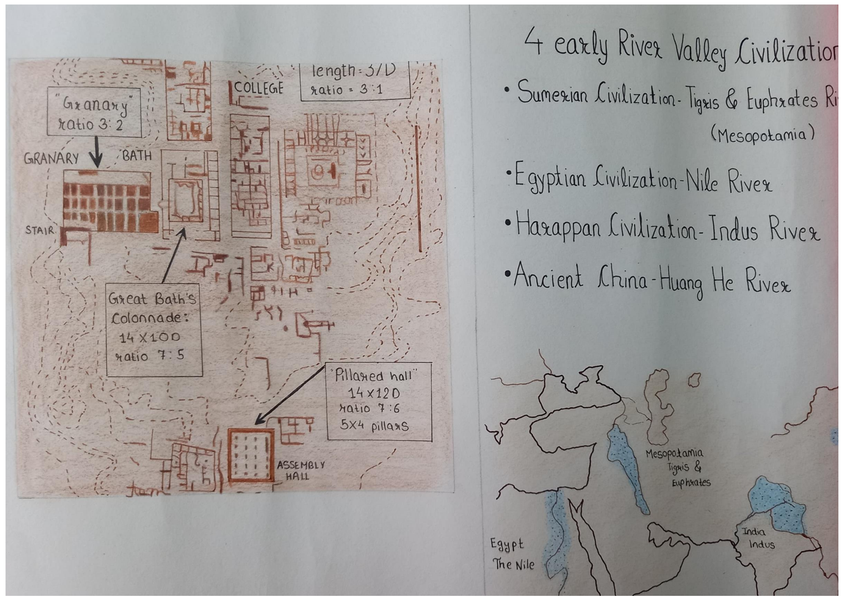
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	YEAR - 1st YEAR	
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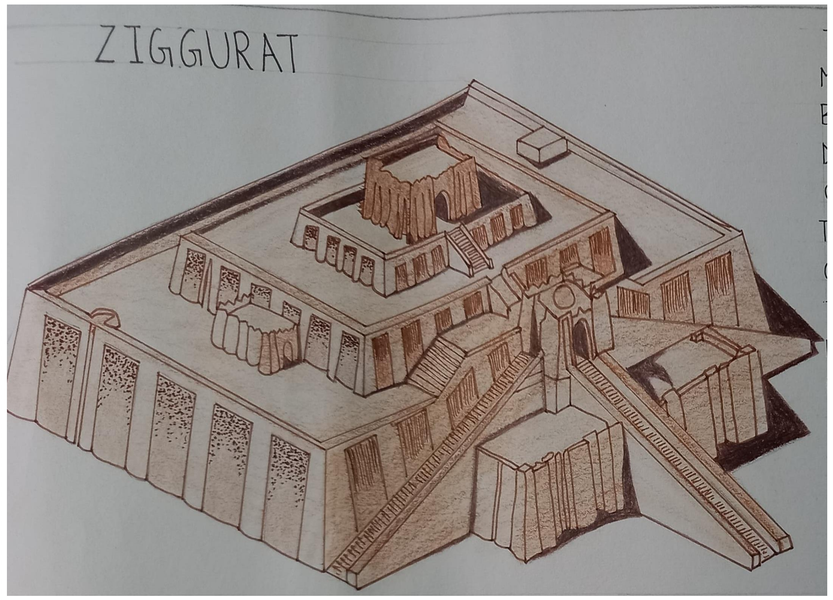
1st Year B.Arch TERM I 2022-2023

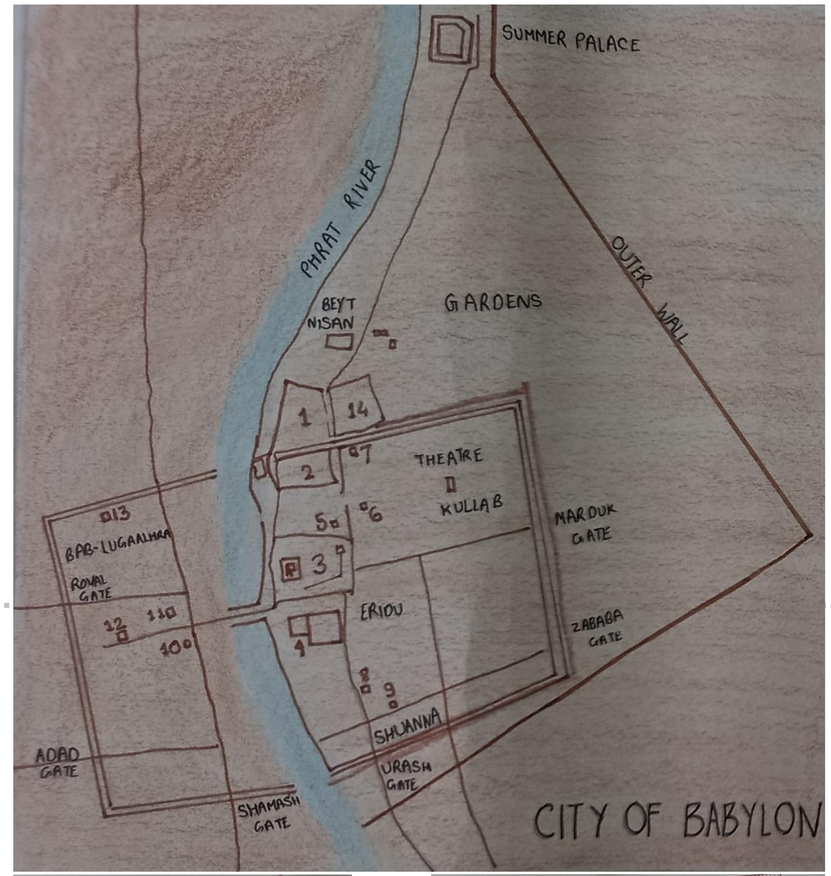
HISTORY OF ARCHITECTURE AND CULTURE I

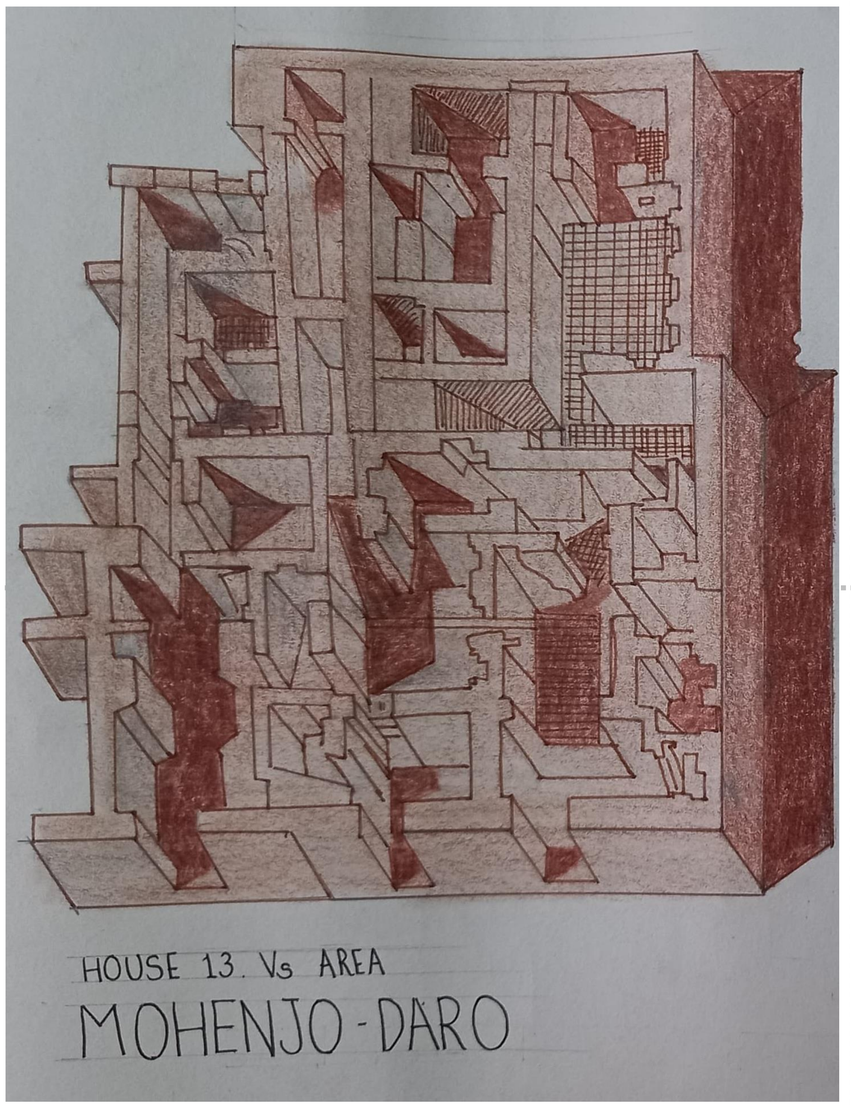
Student : Rahul Bhamare
Faculty: Dr.Avani Topkar

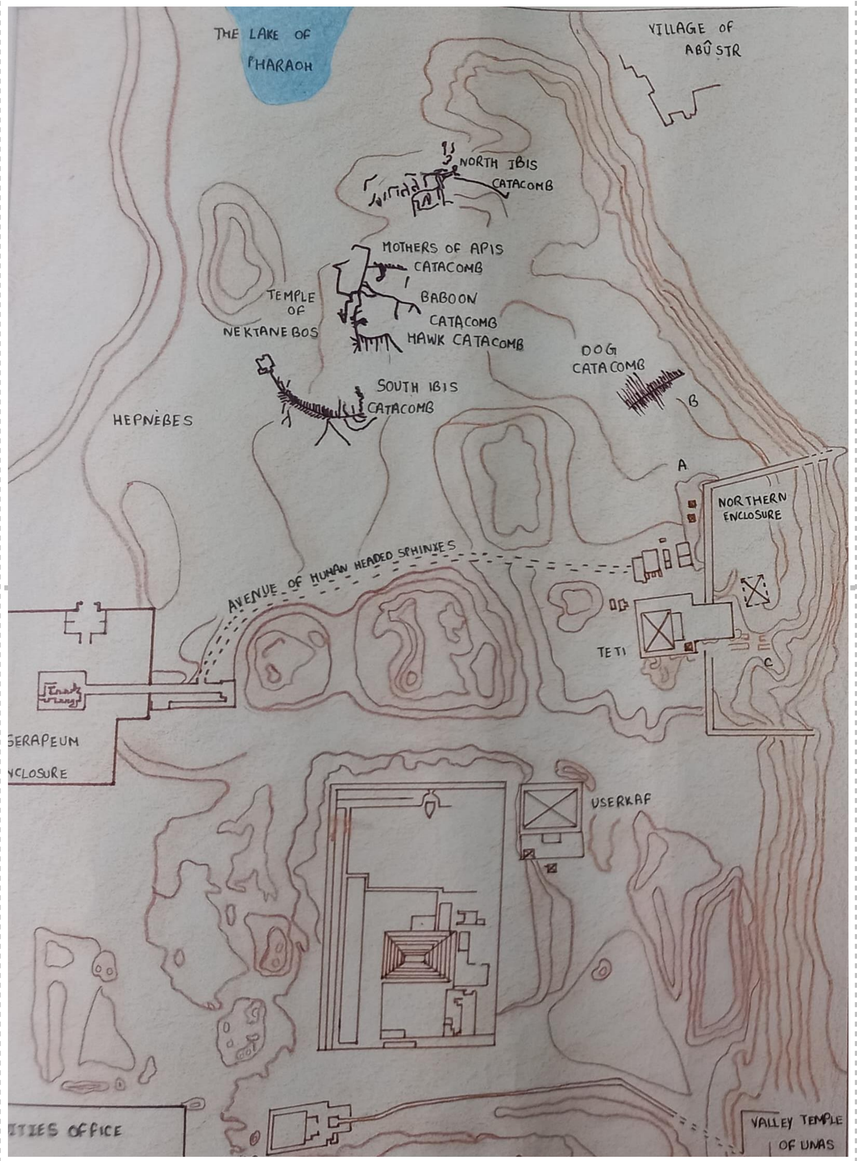
Sinhgad College of Architecture, Pune

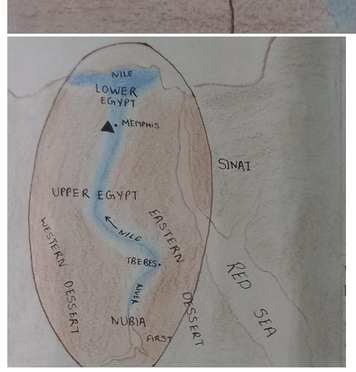


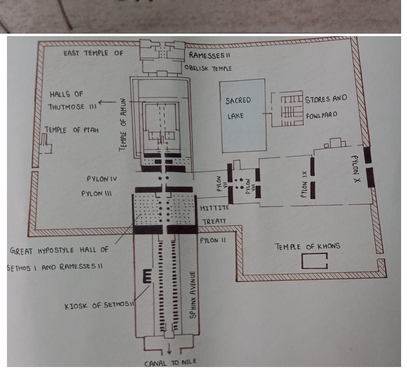












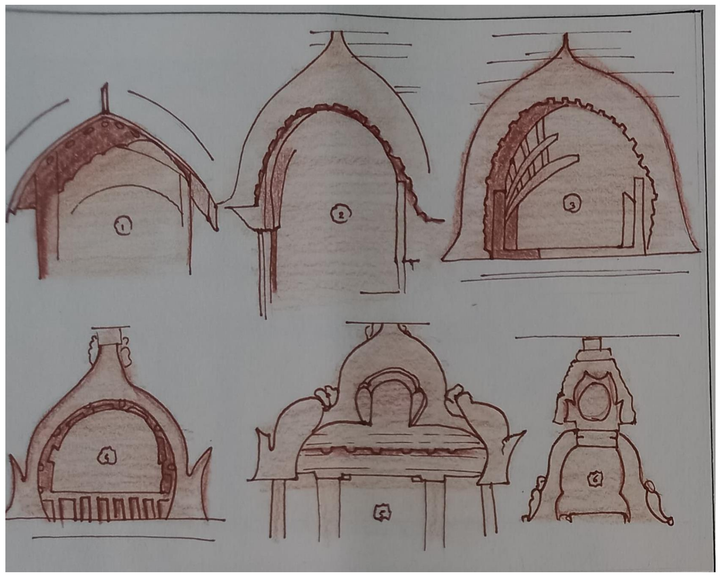
1st Year B.Arch TERM I 2022-2023

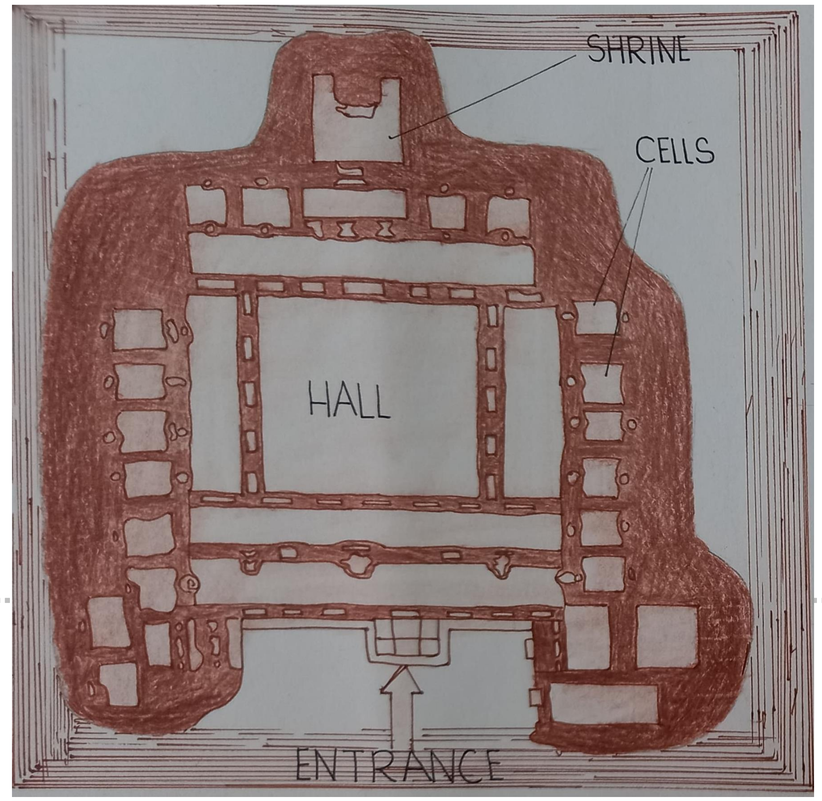
HISTORY OF ARCHITECTURE AND CULTURE I

Student : Himani Nanotkar
Faculty: Priti Dhanwat

Sinhgad College of Architecture, Pune



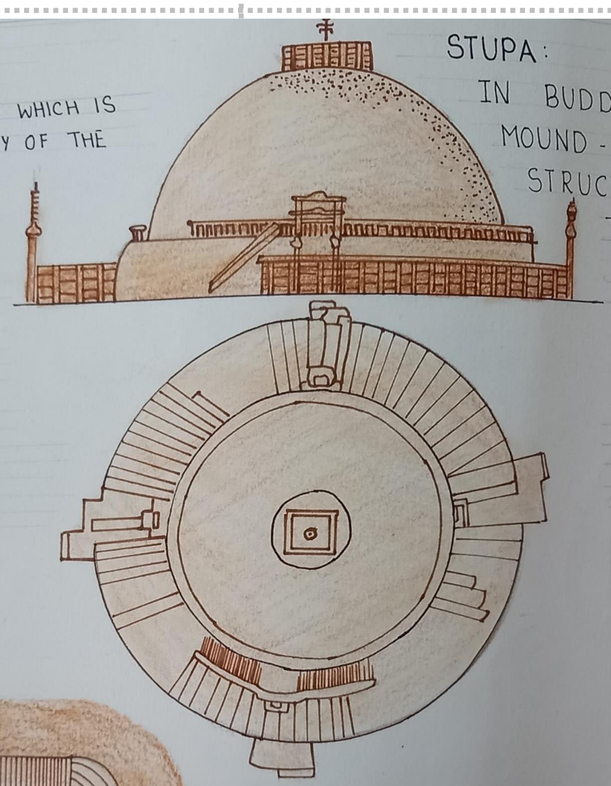




ARCHITECTURE OF BUDDHIST ERA

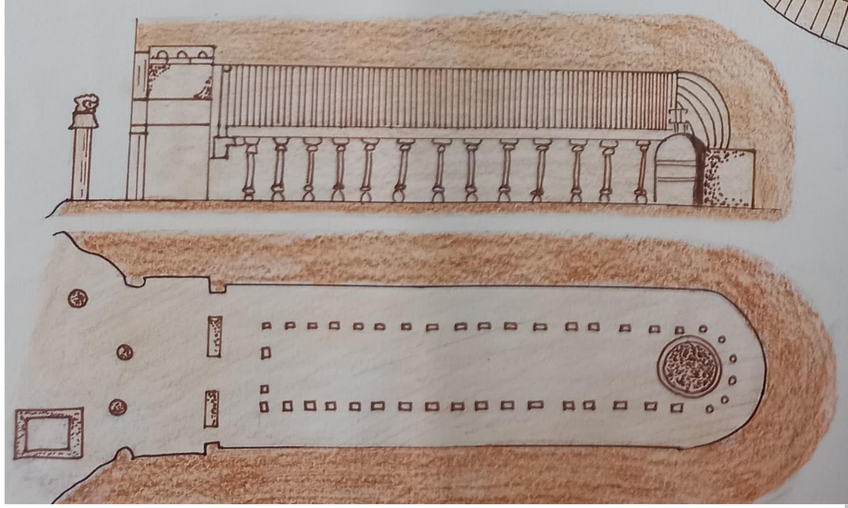
DESIGN:

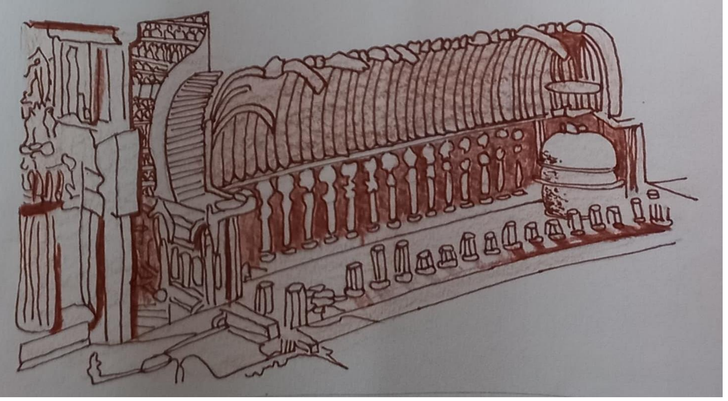
- THE PILLARS HAD THREE PARTS: PROP, WHICH IS THE BASE WHICH IS BURIED INTO THE GROUND; THE SHAFT, THE MAIN BODY OF THE PILLAR WHICH IS POLISHED AND CHISELED; AND CAPITAL, THE HEAD OF THE PILLAR WHERE FIGURES OF ANIMALS ARE CARVED.
- THE STUPA AT THE END OF THE CHAITYA HALL HAS AN UMBRELLA AT THE TOP. THIS UMBRELLA SUGGESTS ASSOCIATION WITH BUDDHISM.
- THERE IS A WOODEN FACADE, MADE OUT OF TEAK WOOD. THE FACADE MAKES IT LOOK AS IF THE ENTIRE STRUCTURE WAS RESTING ON THE BACK OF AN ELEPHANT WITH IVORY TUSKS AND METAL ORNAMENTS.

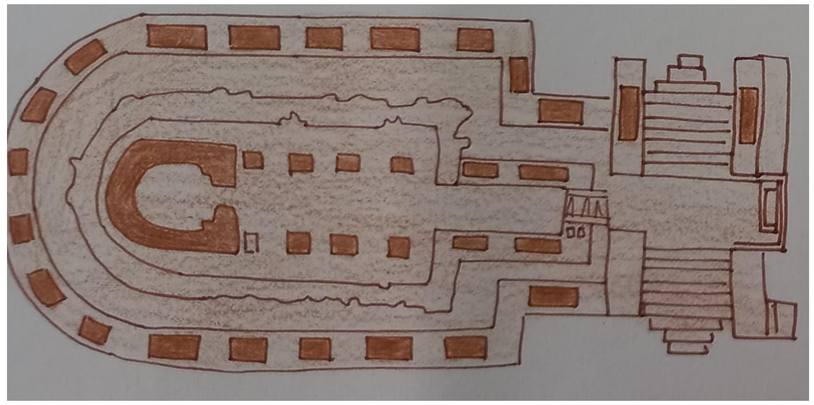


STUPA:

IN BUDDHISM, A STUPA IS A MOUND-LIKE OR HEMISPHERICAL STRUCTURE CONTAINING RELICS THAT IS USED AS A PLACE OF MEDITATION. STUPA. THE GREAT STUPA OF SANCHI, MADHYA PRADESH, INDIA.
THE DEFINITION OF STUPA IS "HEAP" IN SANSKRIT. THE GREAT STUPA WAS ORIGINALLY BUILT IN THE 3rd CENTURY BCE BY THE MAURYAN EMPEROR ASHOKA.





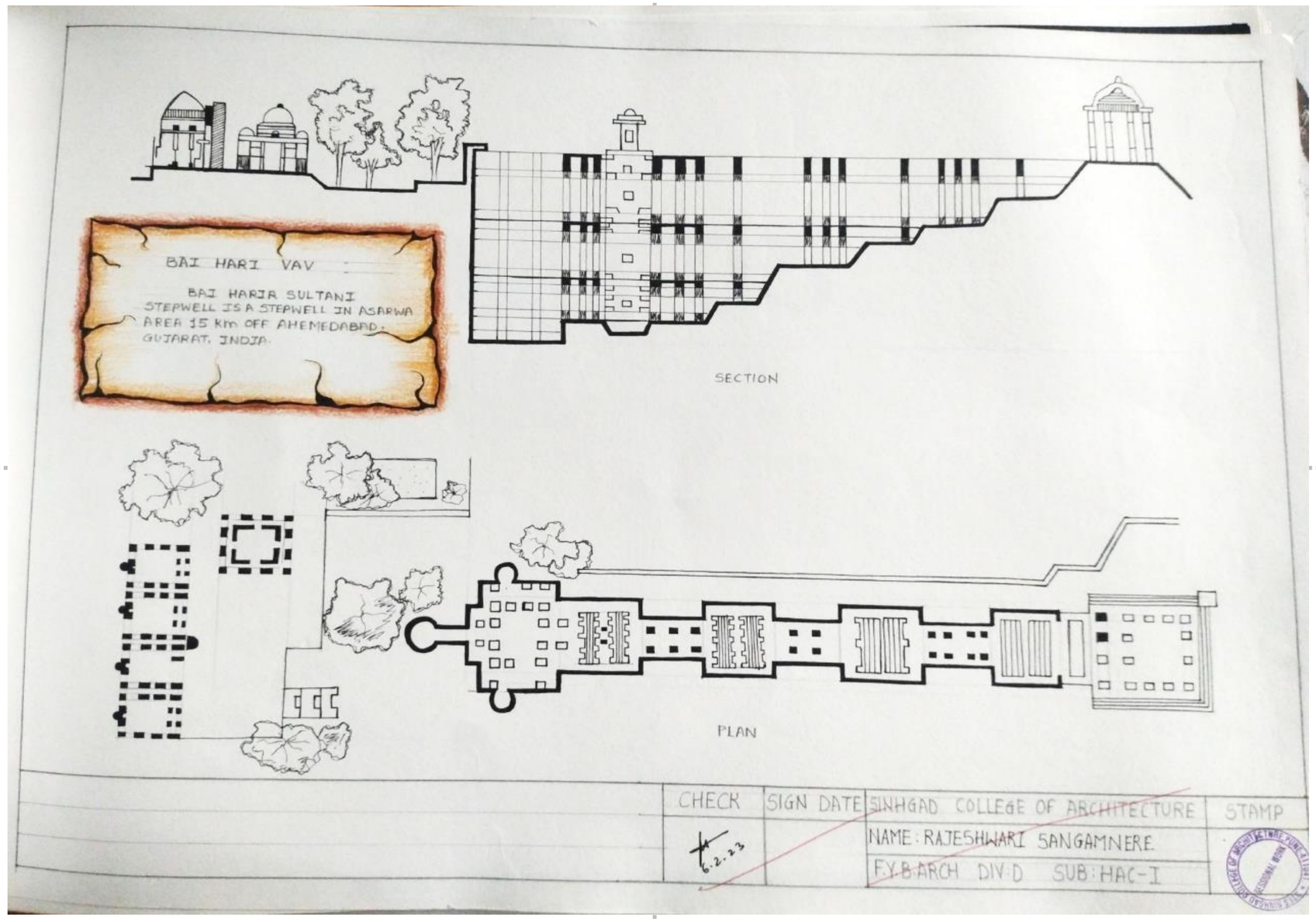


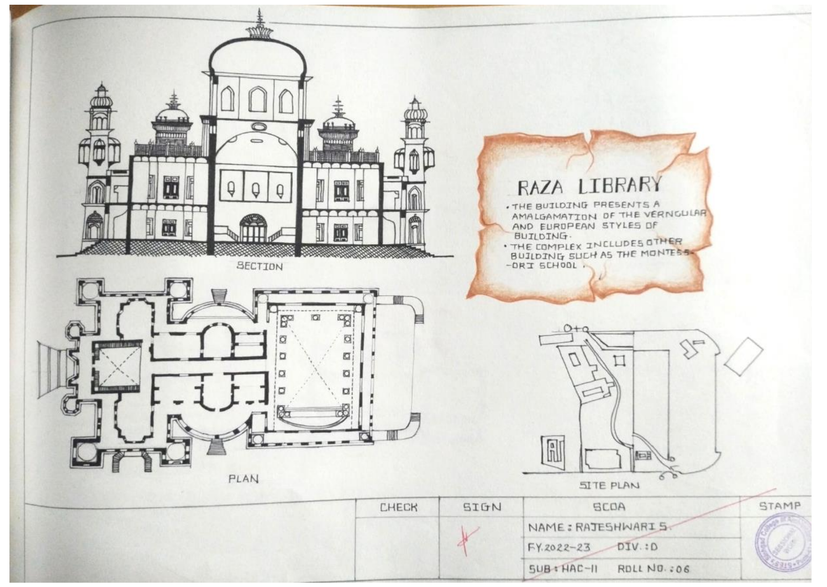
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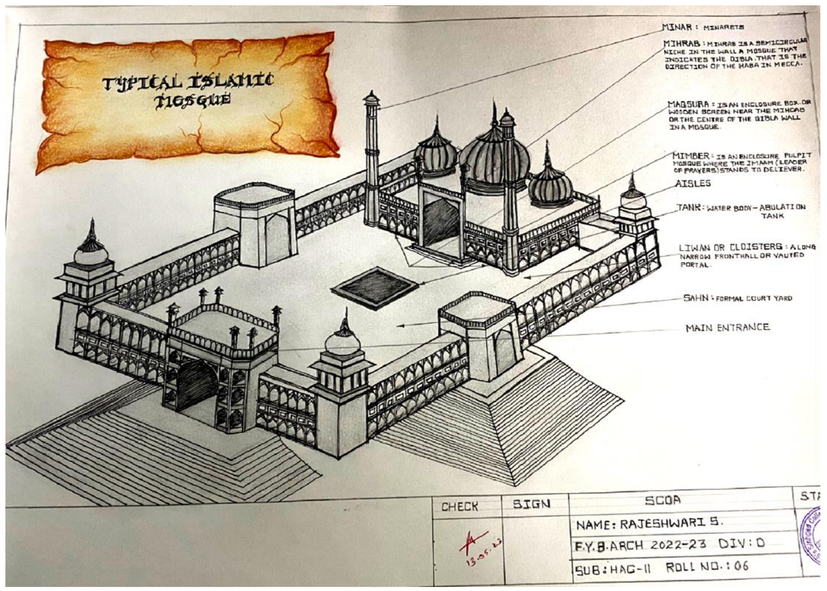
HISTORY OF ARCHITECTURE AND CULTURE I

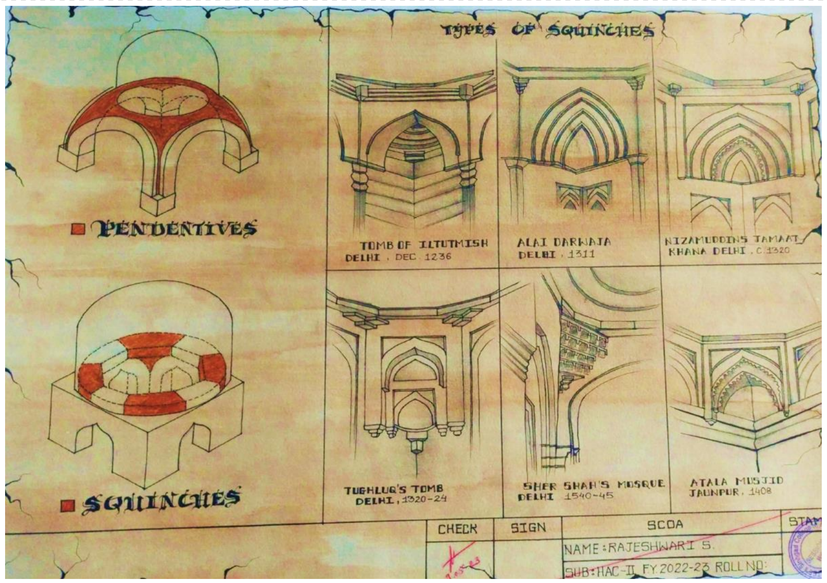
Student : Himani Nanotkar
Faculty: Priti Dhanwat

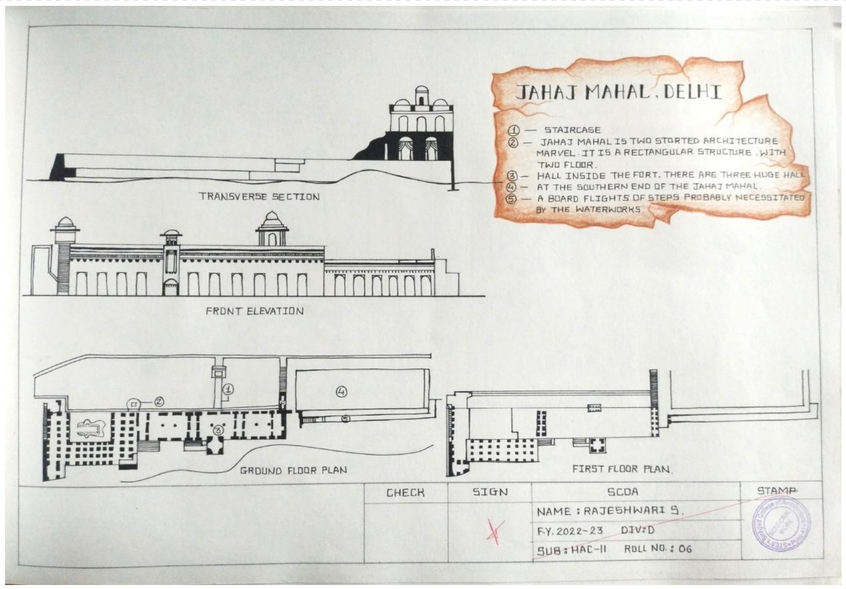
Sinhgad College of Architecture, Pune









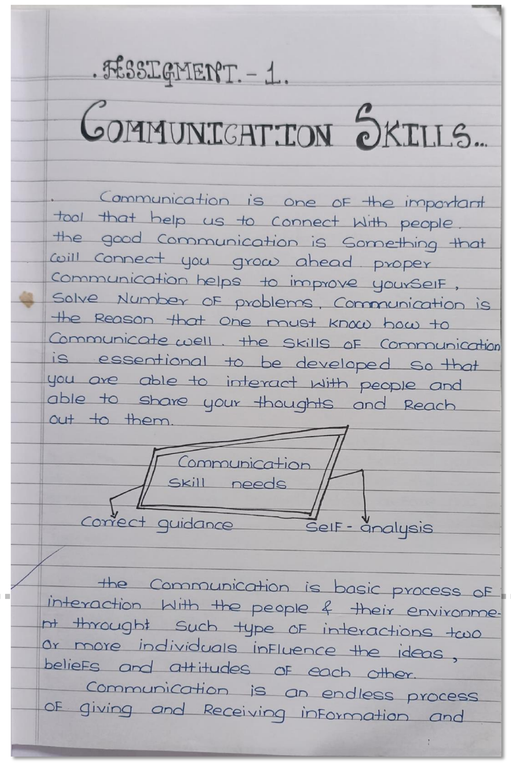


1st Year B.Arch TERM II 2022-2023

HISTORY OF ARCHITECTURE AND CULTURE II

Student : Rajeshwari Sangamnere
Faculty: Asmita Kale

Sinhgad College of Architecture, Pune

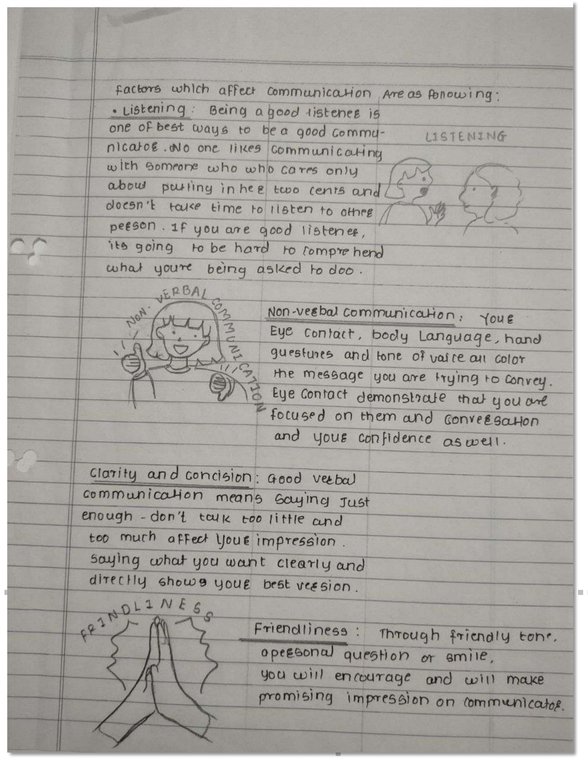

ASSIGMENT. - 1.

COMMUNICATION SKILLS..

Communication is one of the important tool that help us to connect with people. the good communication is something that will connect you grow ahead proper communication helps to improve yourself, solve number of problems. Communication is the reason that one must know how to communicate well. the skills of communication is essentional to be developed so that you are able to interact with people and able to share your thoughts and reach out to them.

the Communication is basic process of interaction with the people & their environment throught such type of interactions two or more individuals influence the ideas, beliefs and attitudes of each other.

Communication is an endless process of giving and Receiving information and


factors which affect communication are as following:

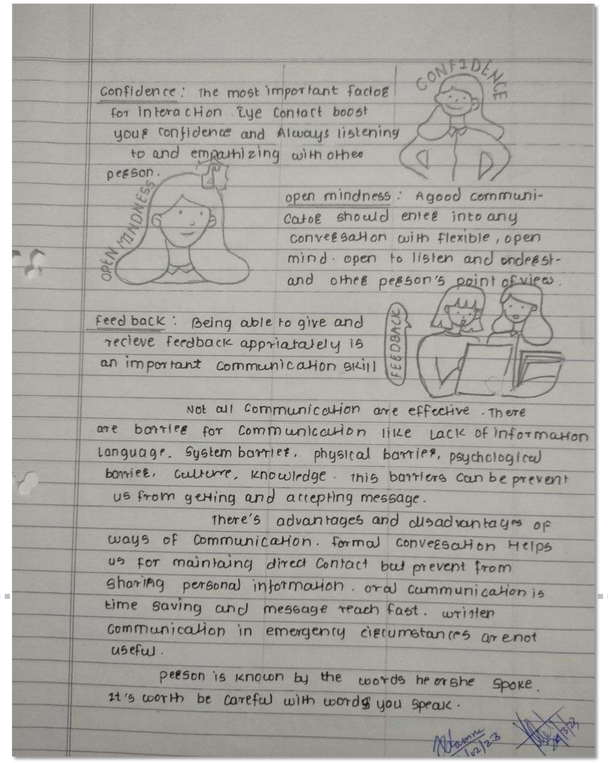
• Listening: Being a good listener is one of best ways to be a good communicator. No one likes communicating with someone who who cares only about putting in her two cents and doesn't take time to listen to other person. If you are good listener, its going to be hard to comprehend what youre being asked to doo.

LISTENING

Non-verbal communication: Your Eye contact, body language, hand gestures and tone of voice all color the message you are trying to convey. Eye contact demonstrate that you are focused on them and conversation and your confidence as well.

Clarity and concision: Good verbal communication means saying just enough - don't talk too little and too much affect your impression. saying what you want clearly and directly shows your best version.

Friendliness: Through friendly tone. opersonal question or smile, you will encourage and will make promising impression on communicator.


Confidence: the most important factor for interaction. Eye contact boost your confidence and Always listening to and empathizing with other person.

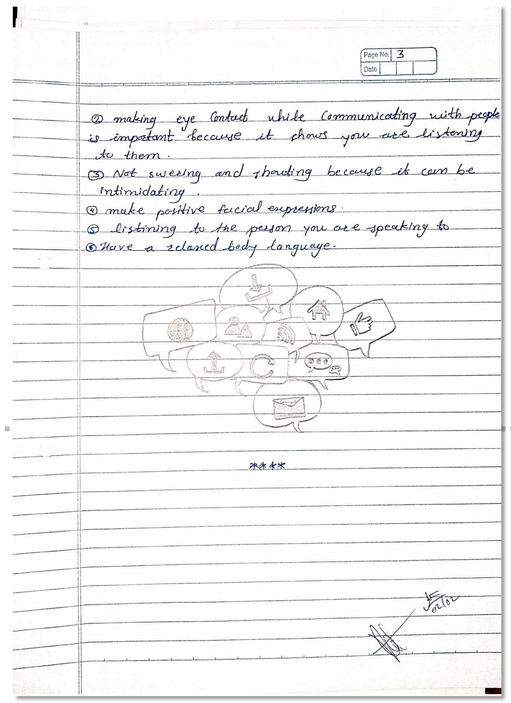
open mindness: A good communicator should enter into any conversation with flexible, open mind. open to listen and understand other person's point of view.

Feed back: Being able to give and recieve feedback appriately is an important communication skill

Not all communication are effective. There are barrier for communication like lack of information language. System barrier, physical barrier, psychological barrier, culture, knowledge. this barriers can be prevent us from getting and accepting message.

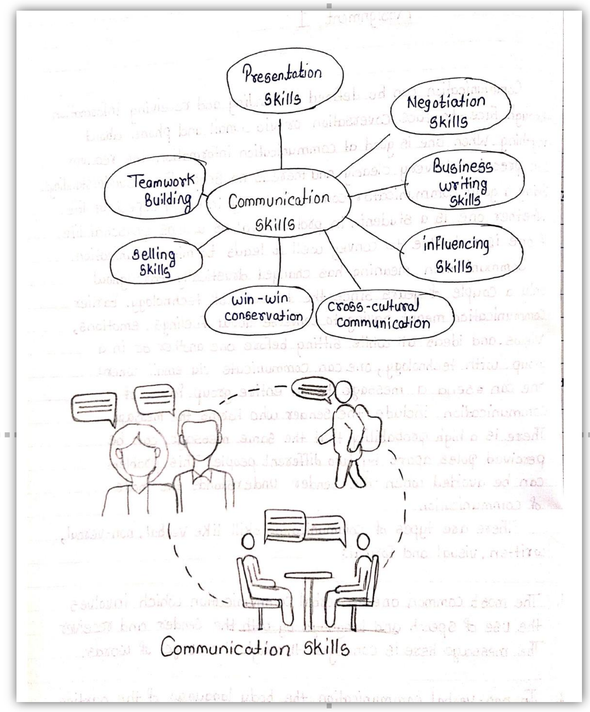
there's advantages and disadvantages of ways of Communication. formal conversation Helps us for maintaining direct contact but prevent from sharing personal information. oral communication is time saving and message reach fast. written communication in emergency circumstances are not useful.

Person is known by the words he or she spoke. It's worth be careful with words you speak.

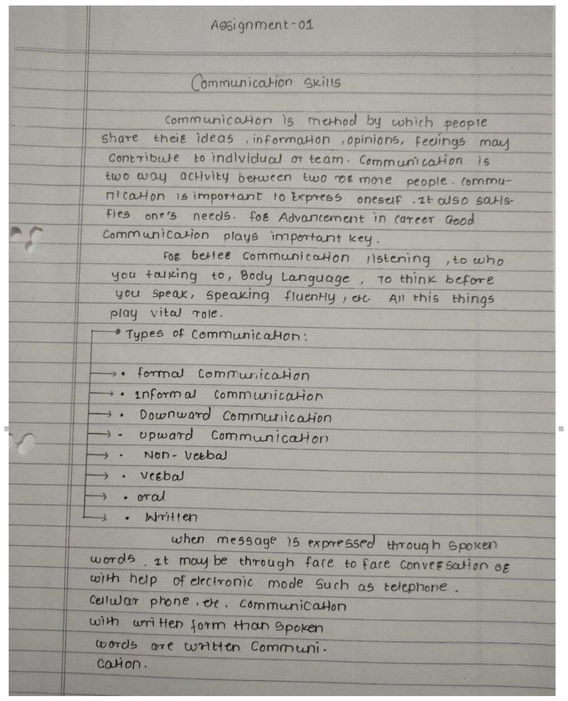

Page No. 3
Date

① making eye contact while communicating with people is important because it shows you are listening to them.
② Not swearing and shouting because it can be intimidating.
③ make positive facial expressions.
④ listening to the person you are speaking to
⑤ Have a relaxed body language.

****



Communication Skills


Assignment-01

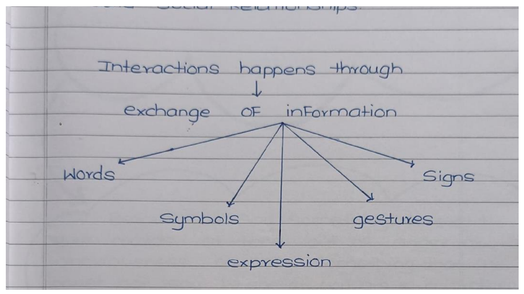
Communication Skills

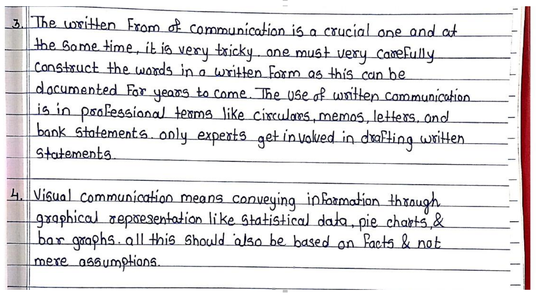
Communication is method by which people share their ideas, information, opinions, feelings may contribute to individual or team. Communication is two way activity between two or more people. communication is important to express oneself. It also satisfies one's needs. for Advancement in career Good Communication plays important key.

For better communication listening, to who you talking to, Body Language, To think before you speak, speaking fluently, etc. All this things play vital role.

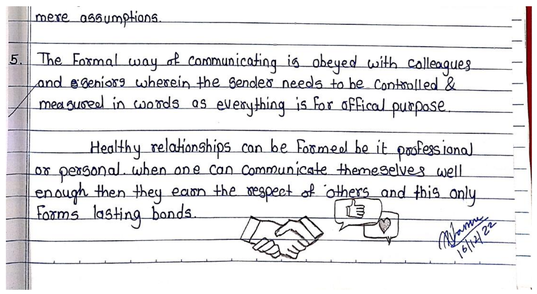
- Types of Communication:
  - formal Communication
  - informal Communication
  - Downward Communication
  - upward Communication
  - Non-Verbal
  - Verbal
  - oral
  - Written

when message is expressed through spoken words, it may be through fare to fare conversation or with help of electronic mode such as telephone. Cellular phone, etc. Communication with written form than Spoken words are written Communication.




3. The written From of communication is a crucial one and at the same time, it is very tricky. one must very carefully construct the words in a written Form as this can be documented For years to come. The use of written communication is in professional terms like circulars, memos, letters, and bank statements. only experts get involved in drafting written statements.

4. Visual communication means conveying information through graphical representation like statistical data, pie charts, & bar graphs. all this should also be based on Facts & not mere assumptions.


mere assumptions.

5. The Formal way of communicating is obeyed with colleagues and seniors wherein the Sender needs to be controlled & measured in words as everything is for offical purpose.

Healthy relationships can be Formed be it professional or personal. when one can communicate themselves well enough then they earn the respect of others and this only Forms lasting bonds.

Project Details

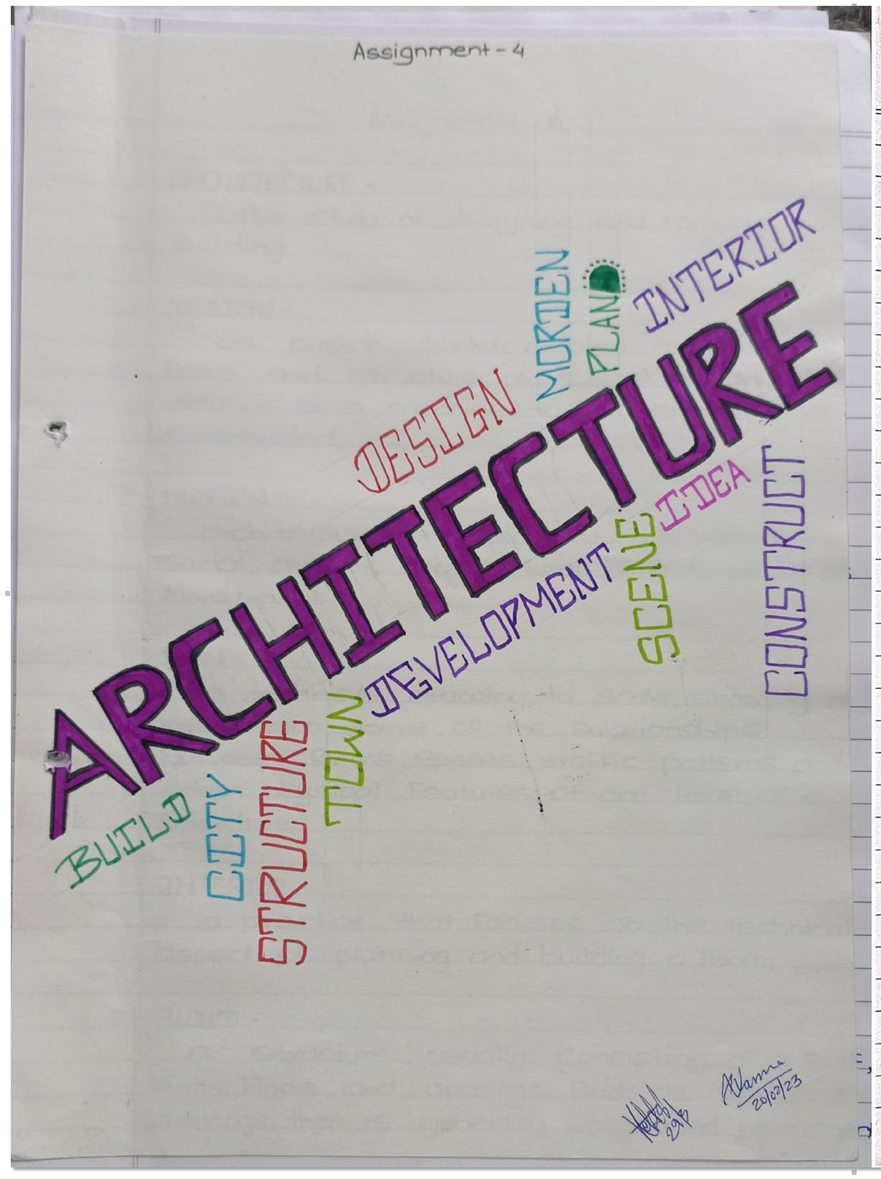
Introduction:

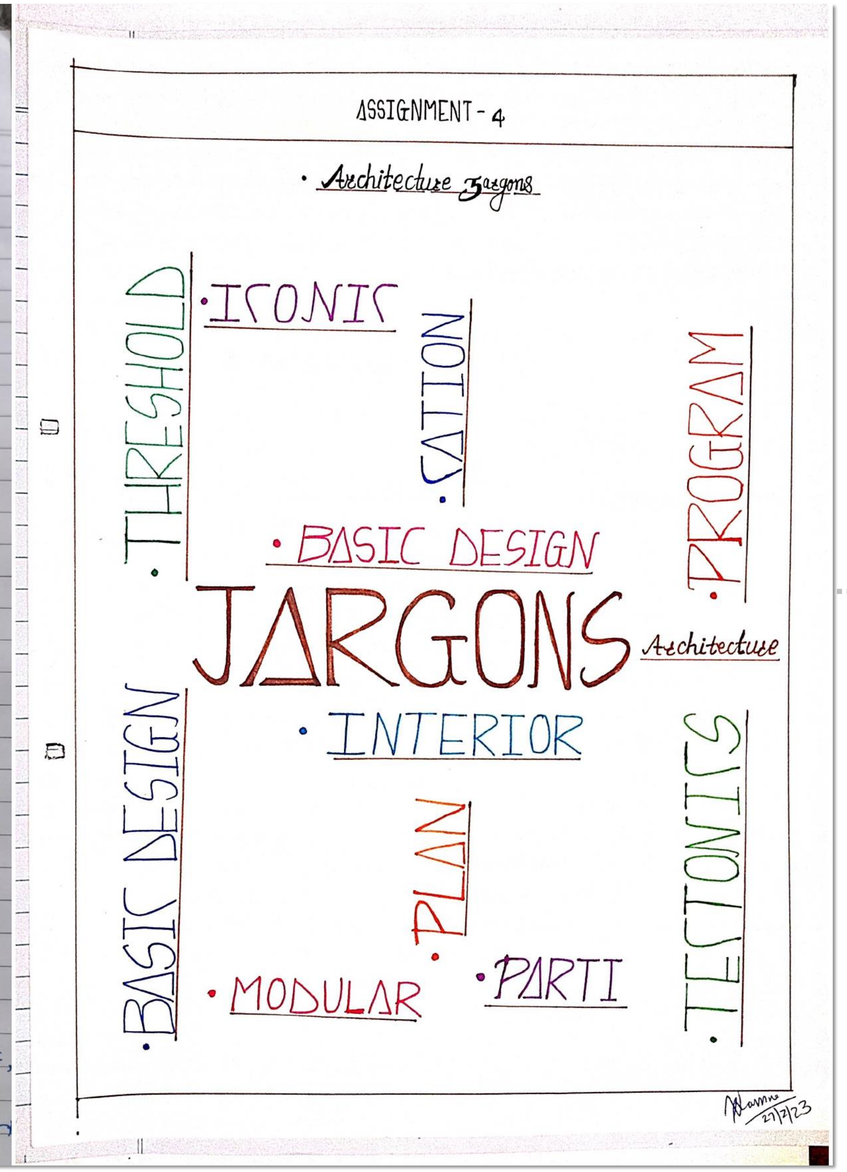
- To enhance skills required for effective communication in Architectural education and practice.
- The student should be able to communicate fluently in English language and also use tools of communication such as written and graphical for effective communication.
- To empower students to become a confident and skilled writer, capable of expressing your imagination, emotions, and unique perspectives through captivating stories, vivid poetry, and compelling essays.
- To develop the ability to express ideas, thoughts, and information clearly and confidently using appropriate vocabulary, tone, and language.
- Enhance interpersonal skills to build and maintain positive relationships, resolve conflicts, and foster effective teamwork.

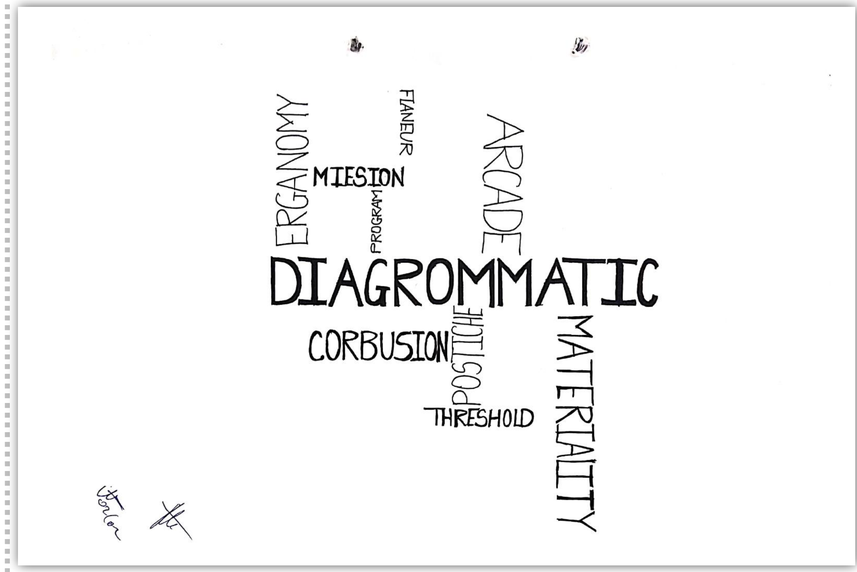
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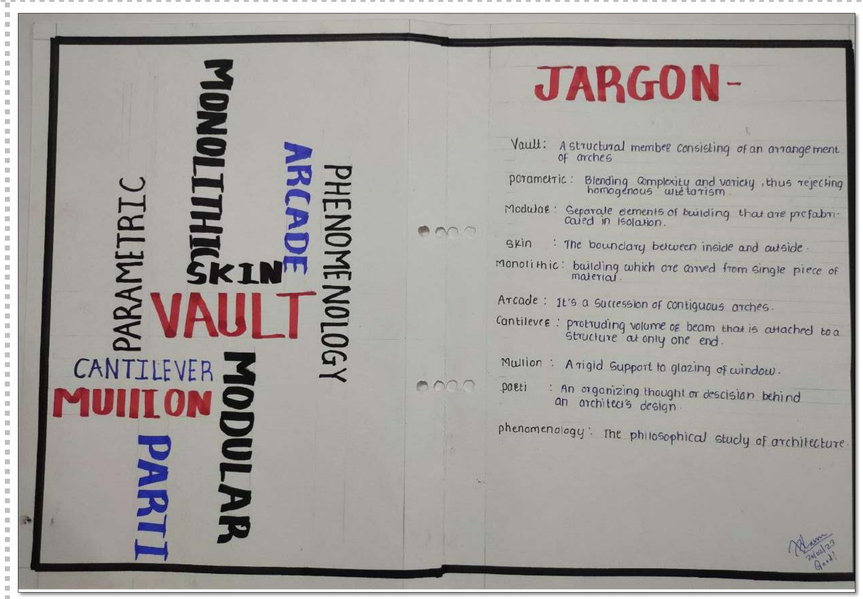
COMMUNICATION SKILLS

Student : Samiksha Gunjal,Rahul Bhamre,Sakhi Bhusa,Ritika Bhagwat
Faculty: Ar.Vrushali Dhamne
Sinhgad College of Architecture, Pune









i) Postiche - 1. Superadded, as a sculptural or architectural ornament.
2. Artificial, counterfeit or false

ii) Ergonomy - branch of science that aims to learn about how human ability and limitations and learning to improve people's interaction with products, System and environments.

iii) Threshold - A strip of wood or stone forming a the bottom of a doorway and crossed in entering house or room.

iv) Arcade - A covered passage with arches along one or both sides and amusement arcade.

v) Materiality - The Quality or character of being material or composed of matter.

vi) Diagrammatic - In the form of a diagram, a simple plan or drawing explaining something.

vii) Miesian - Relating to or characteristic of the German-born architect and designer Ludwig Mies Van de Rohe

viii) Program - A set of related measures or activities with a particular long-term aim.

ix) Corbusian - The process of corroding or being corroded, caused to metal, stone or athe material by corrosion.

x) Flaneur - Someone who walks around not doing anything in particular but watching people and Society.

27/7/23

Meaning technitectural jargons words -

(1) Tectonics -
large-scale processes affecting the structure of the earth's crust.
"There remains an area of active tectonics in nath of the mountain chain."

(2) Iconic -
Relating to or of the nature of an icon; regarded as a representative symbol or as worthy of veneration.

(3) plan -
An idea or arrangement for doing or achieving something in the future.

(4) Cation -
A cation is an ion, or charged particle, with a positive charge.

(5) Basic Design -
The platform, production facility and structure configurations and dimensions in satisfactory detail to allow start of the detailed design.

(6) Interior -
The central part of a Country or Continent that is a long way from the Coast.

Assignment - 1

ARCHITECTURE -
the Study of designing and making Building.

DESIGN -
an outline, Sketch or plan, as of the Form and Structure of a Work of art an edifice or a machine to be executed or Constructed.

MORDEN -
architecture designed and built within the Social, artistic and Cultural attitude known as Mordernism.

PLAN -
a technical drawing to Scale, Showing a view From above, of the Relationships between Rooms, Spaces, traffic patterns and other physical Features at one level of a Structure.

INTERIOR -
a practice that Focuses on the technical aspect of planning and building a Room.

BUILD -
a Structure, usually Consisting of a Roof, Walls, Floors and openings Such as doors and Windows that is generally positioned permanent in one location.

CITY -
an inhabited place of greater Size, population, or importance that a town or Village.

STRUCTURE -
it Refers to anything that is Constructed or built From different interrelated parts With a Fixed location on the ground.

TOWN -
a Compactly Settled area usually larger than a village but Smaller than a city.

DEVELOPMENT -
a process that Creates growth, process, positive Change or the addition of physical, economic, environmental, Social and demographic Component.

SCENE -
a division of act presenting Continuous action in one place.

IDEA -
a plan, thought or Suggestion, especially about What to do in a particular Situation.

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COMMUNICATION SKILLS

Student : Samiksha Gunjal,Rahul Bhamre,Sakhi Bhusa,Ritika Bhagwat
Faculty: Ar.Vrushali Dhamne
Sinhgad College of Architecture, Pune

Assignment - 6

ARCHIHIDE
ARCHITECTURE

THE WORD ARCHIDES IS BUILT USING TWO WORDS ARCHIVE AND HIDES.

AN ARCHIVE IS A PLACE WHERE WE CAN KEPT DATA AND EVIDENCES FROM LETTERS, REPORTS, NOTES, PHOTOGRAPHS AND OTHER PRIMARY SOURCES.

THE WORD HIDE SHOWS THE MEANING PUT OR KEEP OUT OF SIGHTS.

21/12/22

Assignment - 7

design studio
the sixth dimension to feel good

THE SPIRAL IN A SNAIL'S SHELL IS THE SAME MATHEMATICALLY AS THE SPIRAL IN THE MILKY WAY GALAXY AND ITS ALSO THE SAME MATHEMATICALLY AS THE SPIRAL IN OUR DNA. IT'S THE SAME RATIO THAT YOU'LL FIND IN VERY BASIC MUSIC THAT TRANSCENDS CULTURS ALL OVER THE WORLD.

THREE RESPONSES TO A PIECE OF DESIGN -
1) GOOD
2) BAD
3) REQUIRED

THE FIBONACCI SEQUENCE, ALSO REFERD TO AS THE FIBONACCI SERIES, IS NATURE'S NUMBURING SYSTEM..... IN ANIMAL'S, THE FIBONACCI SEQUENCE IS OBSERVED IN SNAIL'S WHICH IS A LOGARITHMIC SPIRAL.

FOR OBSERVING NATURE, THE BEST PACE IS A SNAILS PACE.
HER SECRET IS PATIENCE.

23/12/22

ASSIGNMENT - 6

LOGO MAKING

[2]

AVAS
ARCHITECT

Avas Architect

A - MEANS ARCHITECT, A-MEANS ADVISOR, V-MEANS VASTU, A-MEANS ACHIEVE, AND S MEANS - SERVICES.

AAVAS ARCHITECT IS THE HELPFUL AAVAS ARCHITECT IS WELL AS TRUSTED ADVISOR TO ACHIEVE DATO-DRIVEN COST THE OPTIMIZATION · THE AAVAS ARCHITECT IS THE FRAMEWORK DEMYSTIFIED AND SIMPLIFIED.

Good!

Assignment - 8

ARCHIHIDE
ARCHITECTURE

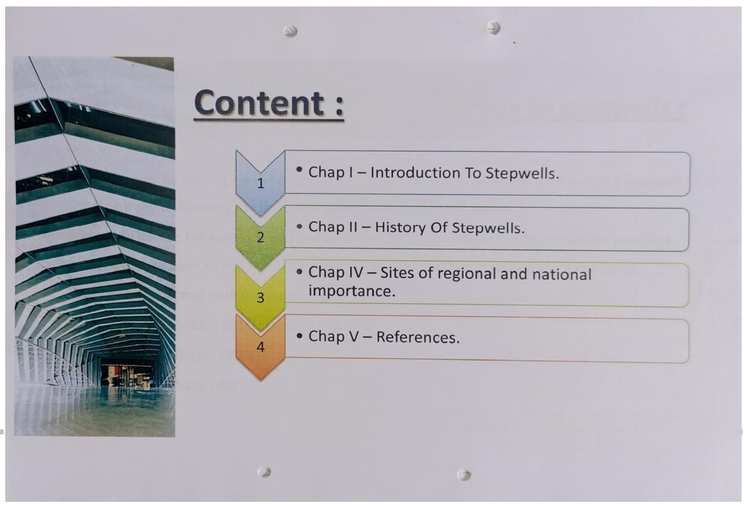
AR Samiksha Gunjal
91+ 7756006035
gunjalsamiksha0704@gmail.com
Nagar Road, Sangamner, A.Nagar, Maharashtra, India
#sandsbygunjal_SG

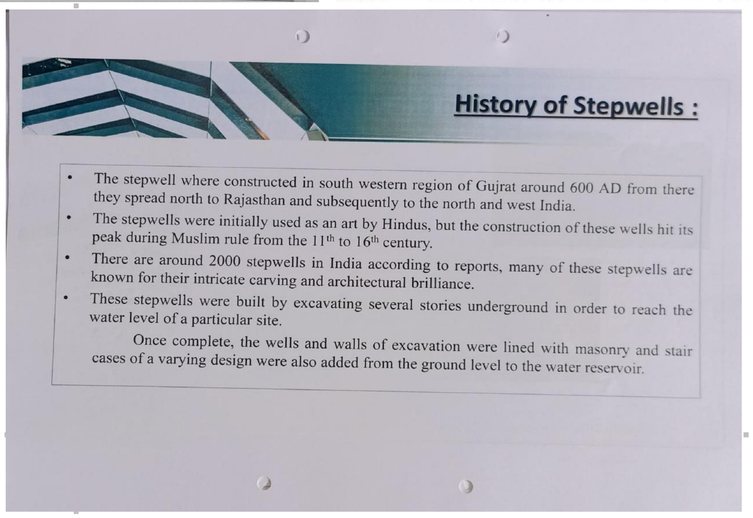
21/12/22

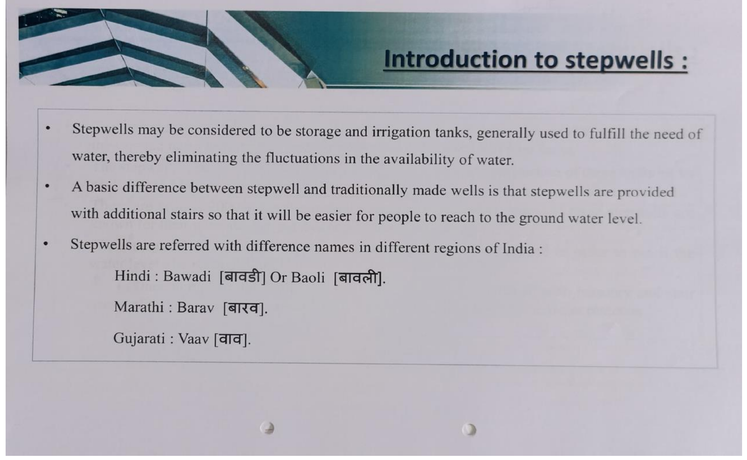
BLUEDREAMS

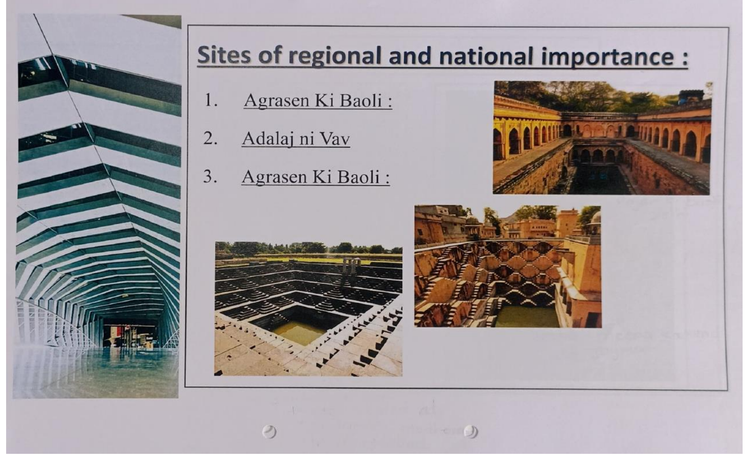
- BLUE SYMBOLIZE TRANQUILITY & PEACE, SO WHEN YOU DREAM ABOUT BLUE ROSE, THE DREAM POINTS TO YOUR PEACE OF MIND. IN PARTICULAR, THIS DREAM TELLS YOU TO PRIORITIZE YOUR PEACE BY ESTABLISHING STRONG BOUNDARIES. THO HOUSE IS ALSO A PEACE PLACE IN THE WORLD SO THAT'S WHY THE NAME COME BLUEDREAMS.
- BLUE IS ALSO INDICATS BLUERINTS : A PHOTOGRAPHIC PLAN OR A DESCRIPTION OF HOW TO MAKE BUILD OR ACHIEVE SOMETHING.
- DREAM INDICATS A SERIES OF EVENTS OR PICTURES WHICH HAPPEN IN YOUR MIND
- IN THE LOGO BLUE COLOUR IS USE BECAUSE BLUE IS A UNIVERSALLY AGREEABLE COLOR REPRESENTING CLAM, POWER, STABILITY, WISDOM ETC.

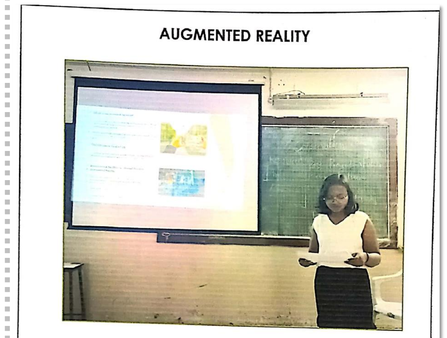
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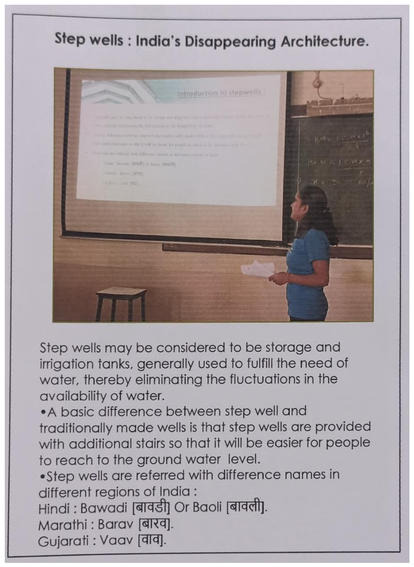








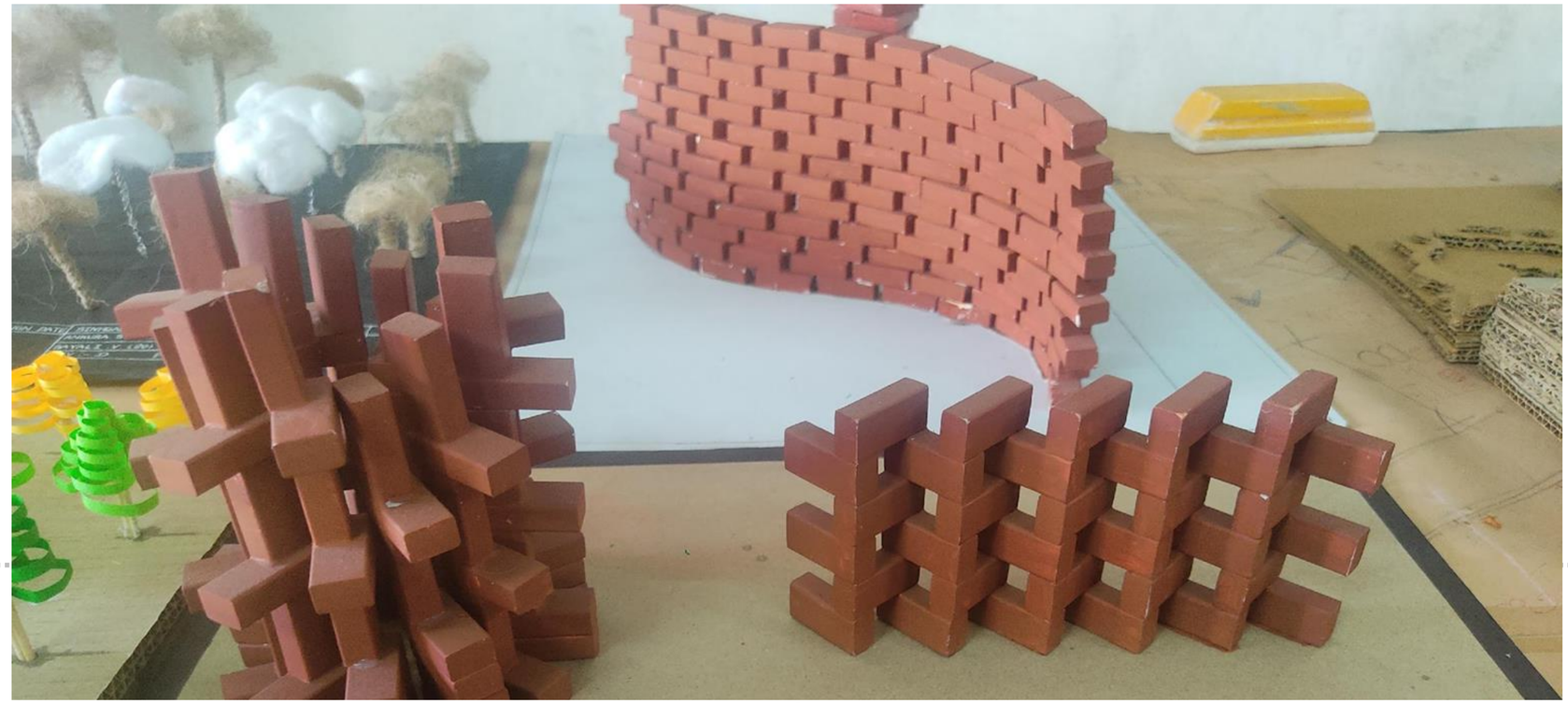




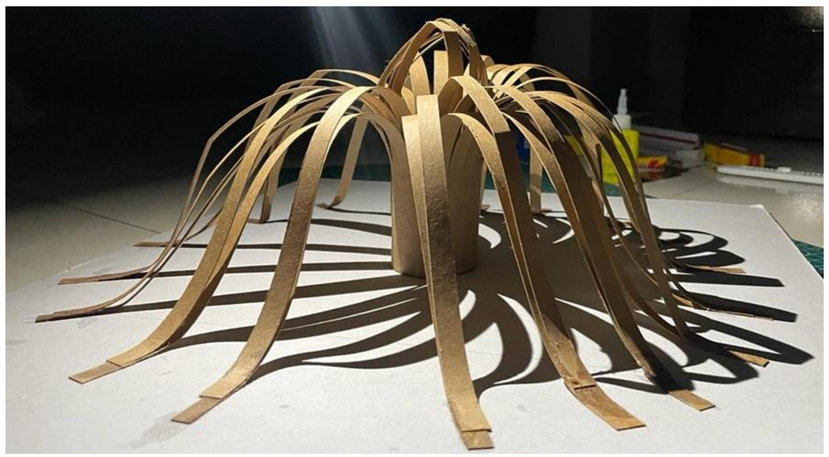
1st Year B.Arch TERM I 2022-2023

COMMUNICATION SKILLS

Student : Samiksha Gunjal,Rahul Bhamre,Sakhi Bhusa,Ritika Bhagwat
Faculty: Ar.Vrushali Dhamne
Sinhgad College of Architecture, Pune















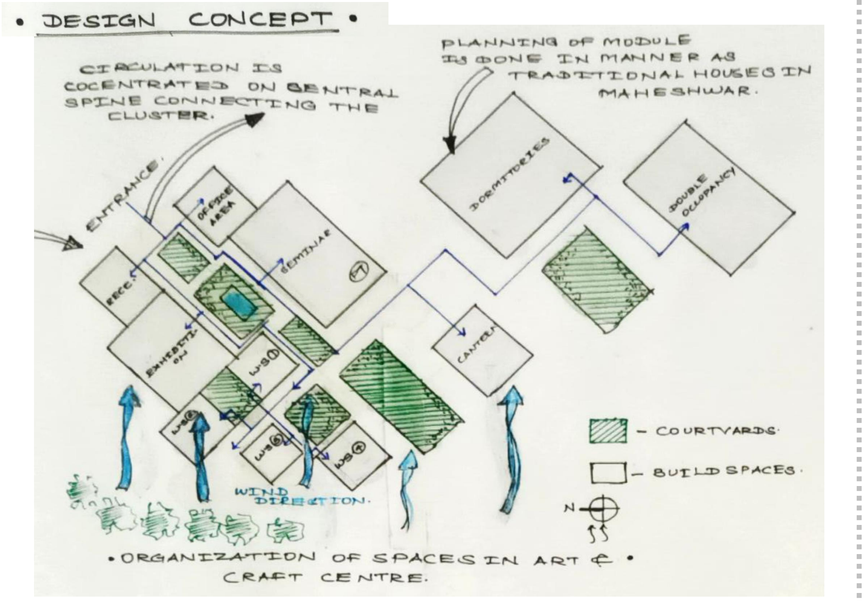


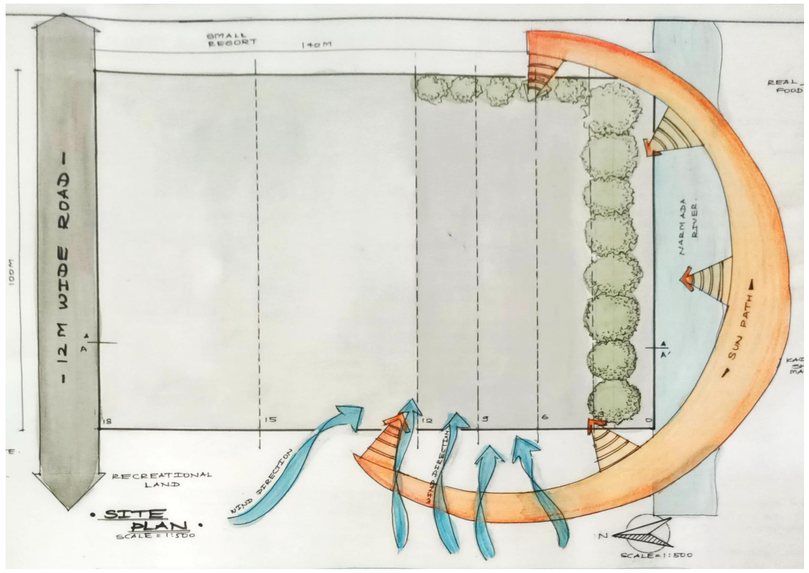
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WORKSHOP I

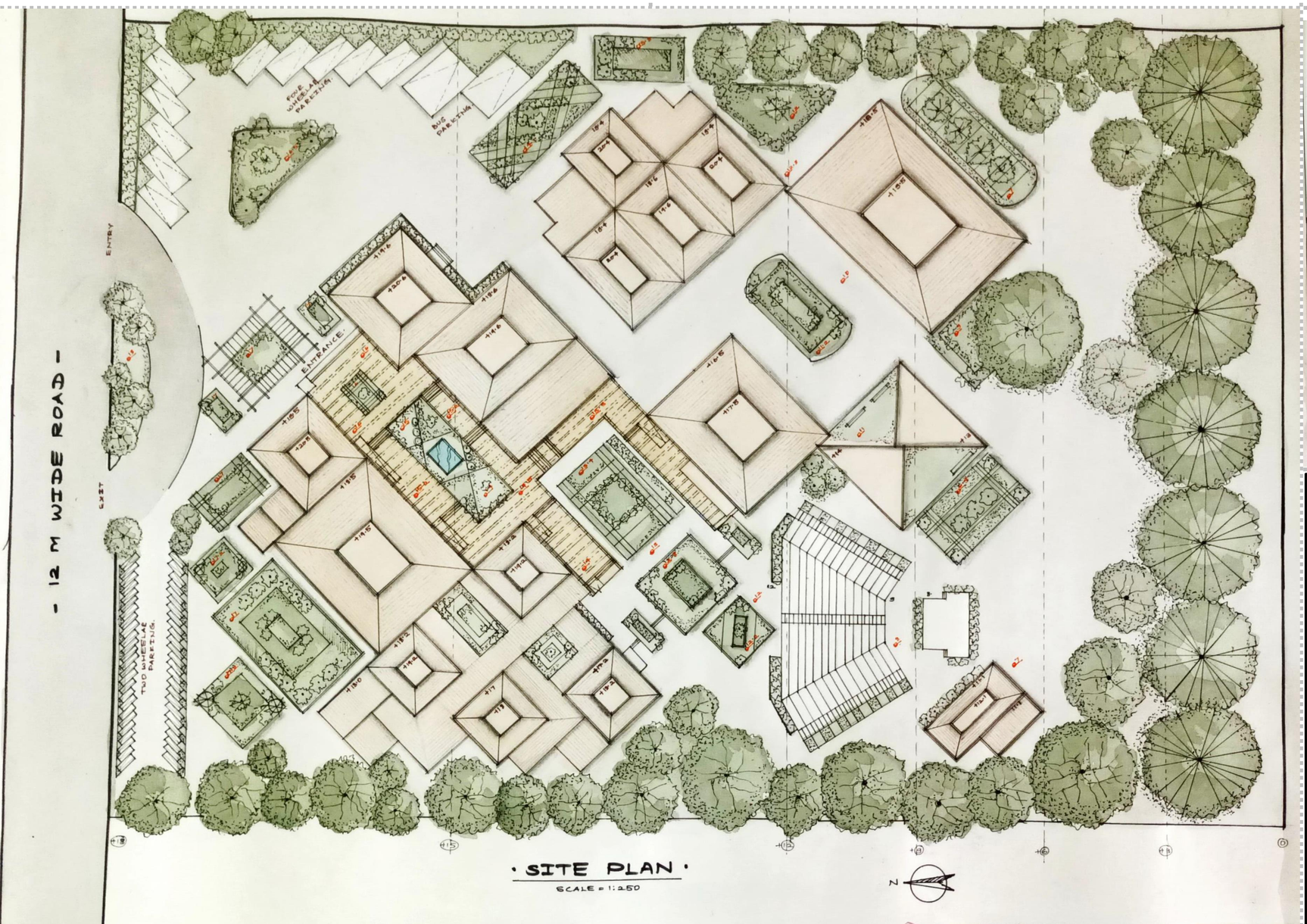
Student : Rutuja Dashastre
Faculty: Manasi Khope, Snehal gade,

Sinhgad College of Architecture, Pune





- The proposal for an Arts and crafts centre in Maheshwar, Madhya Pradesh, with a permanent display space for the revival and preservation of regional arts and crafts aims to meet the demand for a facility for learning, accommodation, and cultural preservation
- The selected project will aim at future development of Maheshwar as an important town. It will strengthen the local economy and skill set through infrastructure development. Number of users: 200-250 Persons . Site area: 7000 sq. mt. . Area for construction Built/Up Area-1450 Sq.m
- The centre becomes a living museum of heritage crafts, safeguarding cultural traditions. With a rich array of workshops, classes, and exhibitions, the Arts and Crafts Centre offers a diverse palette of artistic experiences.
- The integration of sustainable design principles deserves applause as well. The use of eco-friendly materials, energy-efficient systems, and passive design strategies exemplifies a responsible and forward-thinking approach to architecture.





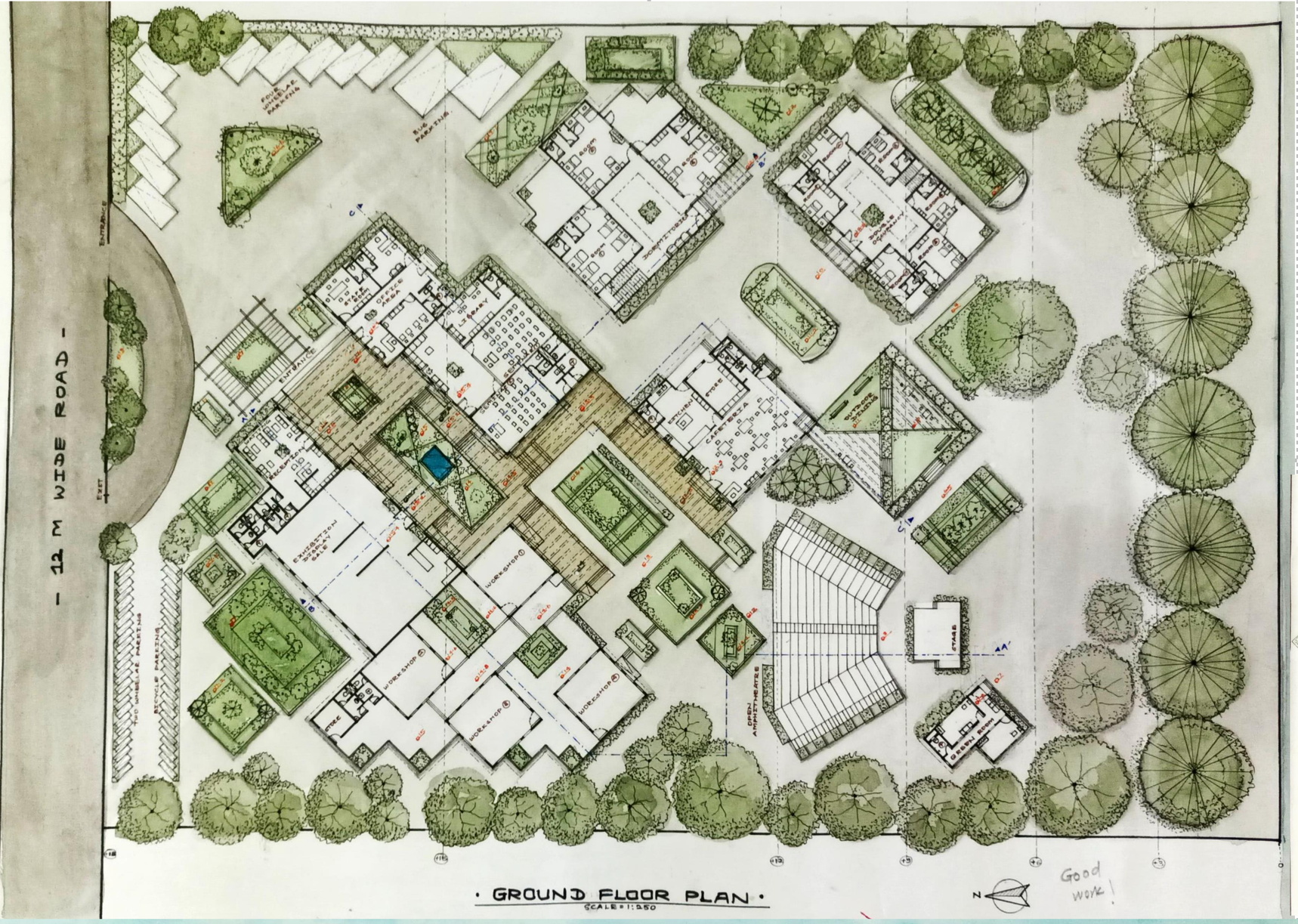
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ARCHITECTURAL DESIGN III

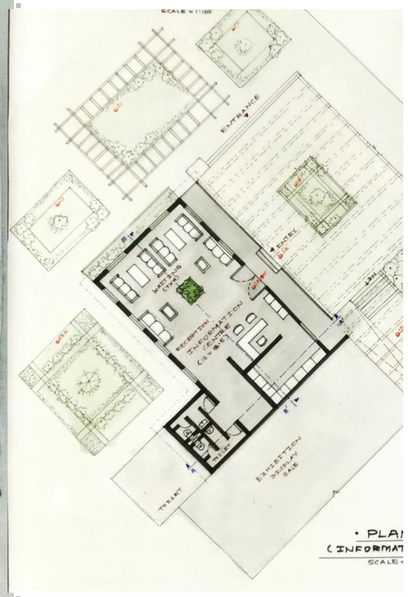
Arts and crafts centre in Maheshwar

Sinhgad College of Architecture, Pune

- The site plan demonstrates an ingenious use of space, ensuring that every square foot is purposeful and meaningful. It efficiently accommodates various art studios, workshops, exhibition spaces, and communal areas, providing a comprehensive artistic hub.
- The site plan's layout is intuitive and user-friendly, making it easy for visitors to navigate and explore the center. The logical arrangement of different areas fosters a smooth flow of movement, enhaning the overall experience for both artists and visitors.
- The site plan incorporates well-designed outdoor gathering spaces, such as plazas, courtyards, and gardens. These areas serve as ideal places for artistic inspiration, social interactions, and community events, fostering a sense of togetherness among visitors.
- The site plan incorporates sustainable practices, such as rainwater harvesting, energy-efficient lighting, and green building materials.



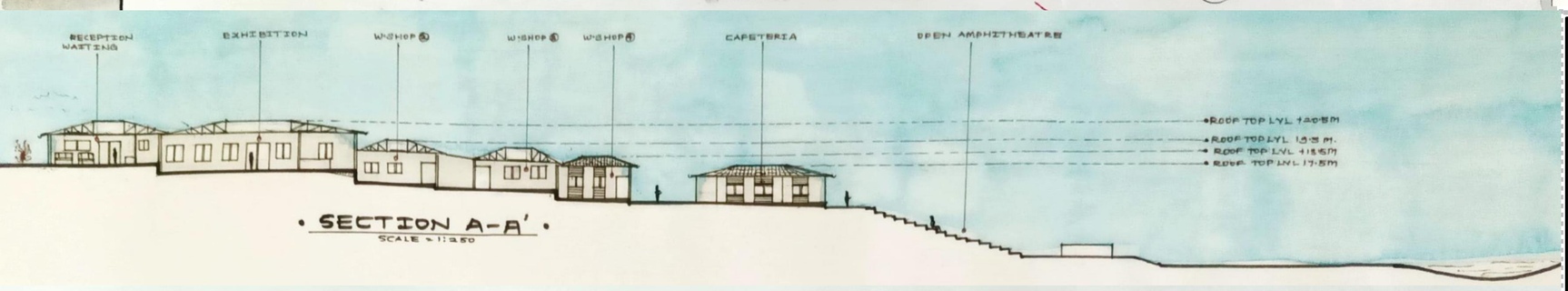
· GROUND FLOOR PLAN ·
SCALE = 1:250



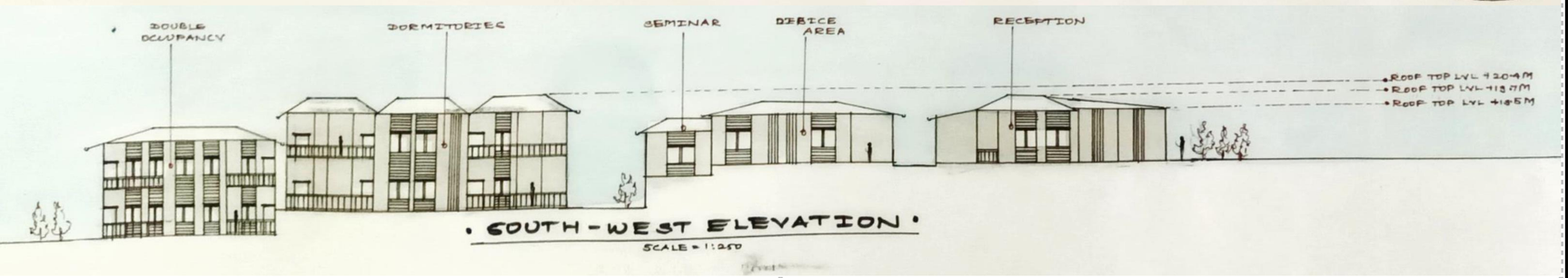
· PLAN (INFORMAT
SCALE=



· GROUND FLOOR · PLAN · (DOUBLE OCCUPANCY)



· SECTION A-A' ·
SCALE = 1:250



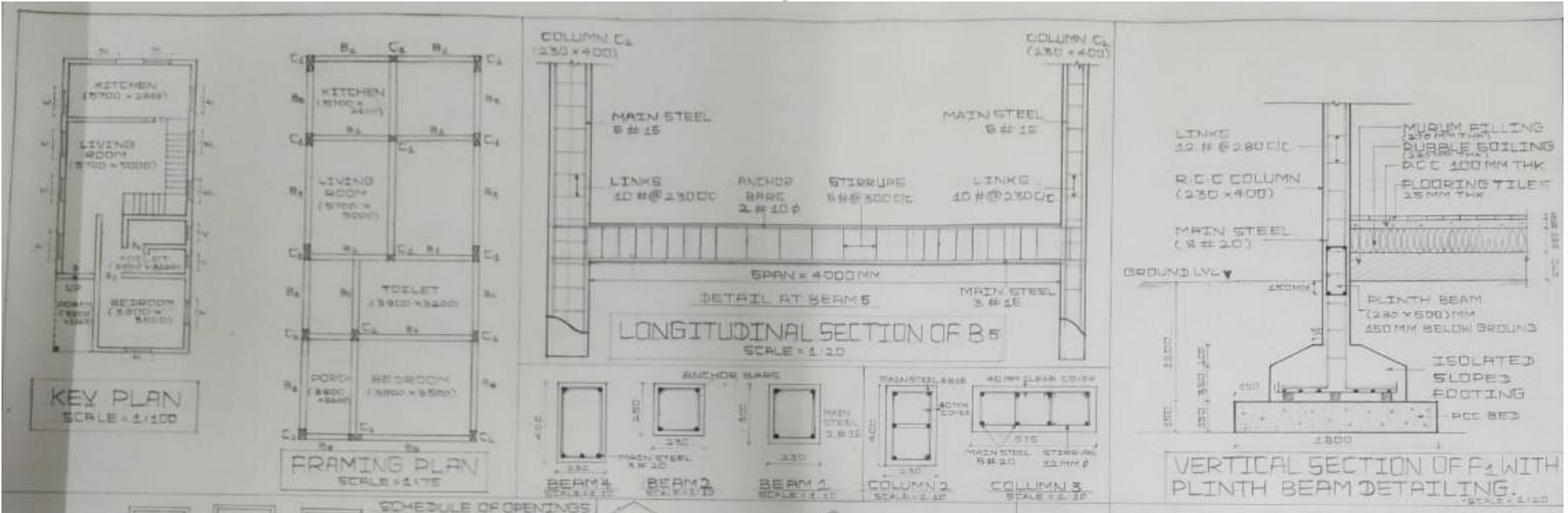
· SOUTH-WEST ELEVATION ·
SCALE = 1:250

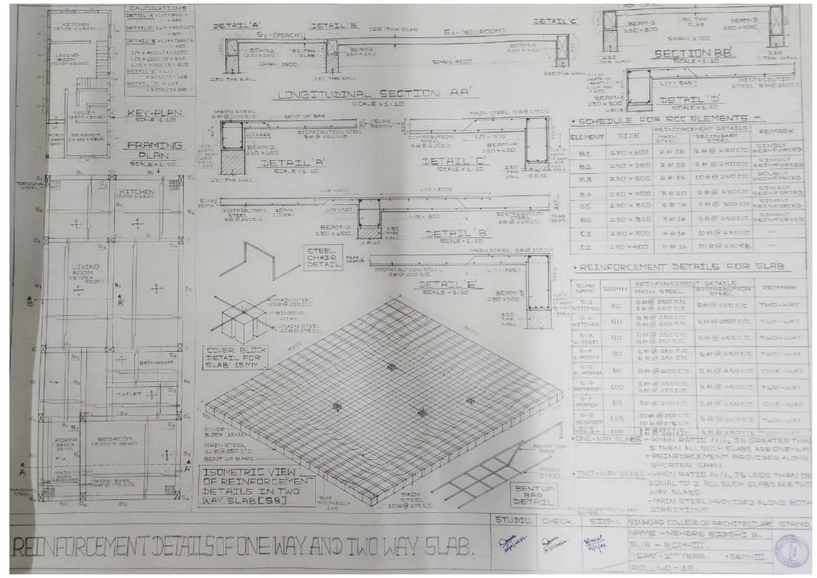
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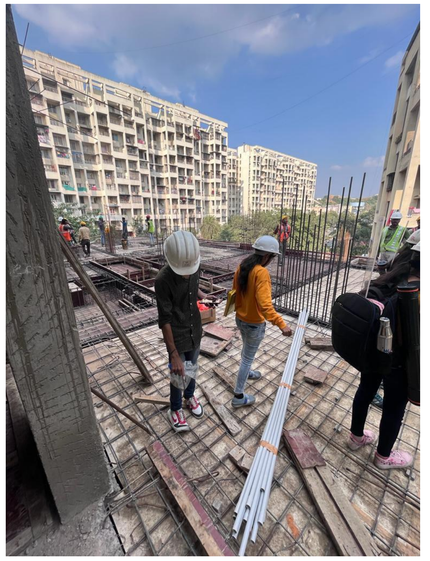
ARCHITECTURAL DESIGN III

Design of a Bungalow, Pune

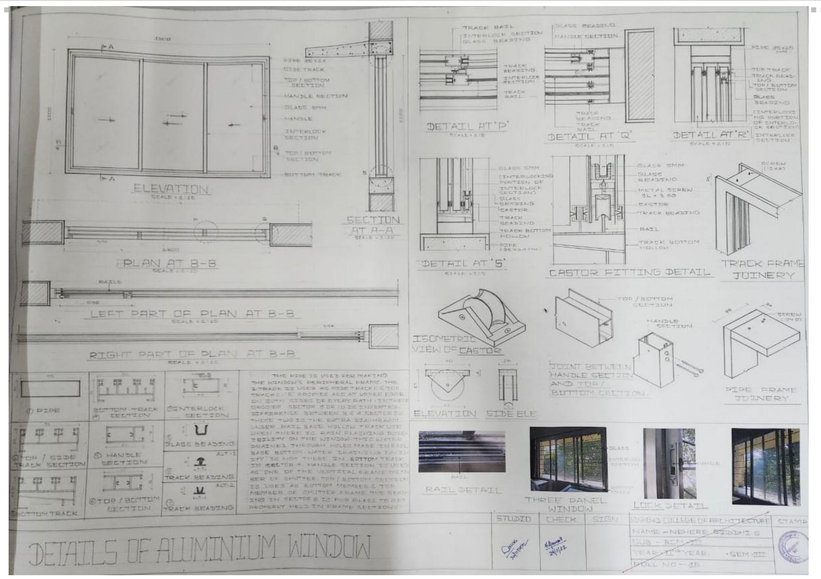
Sinhgad College of Architecture, Pune

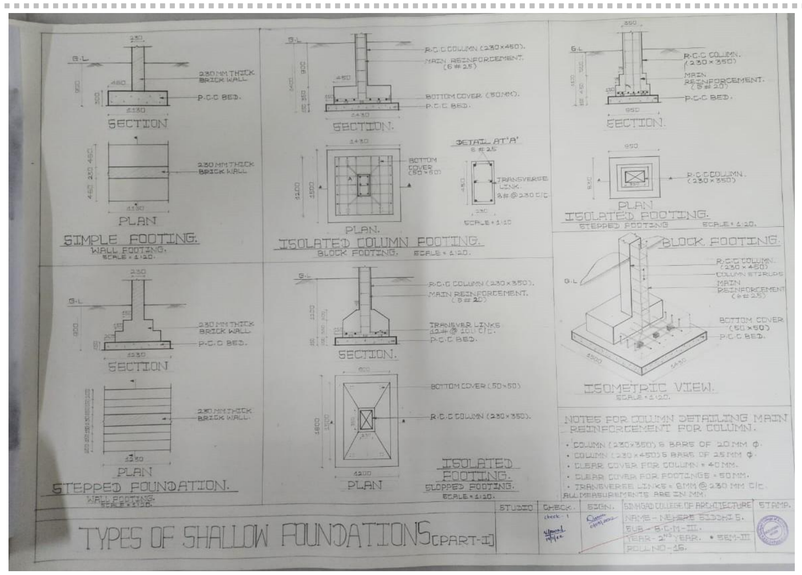










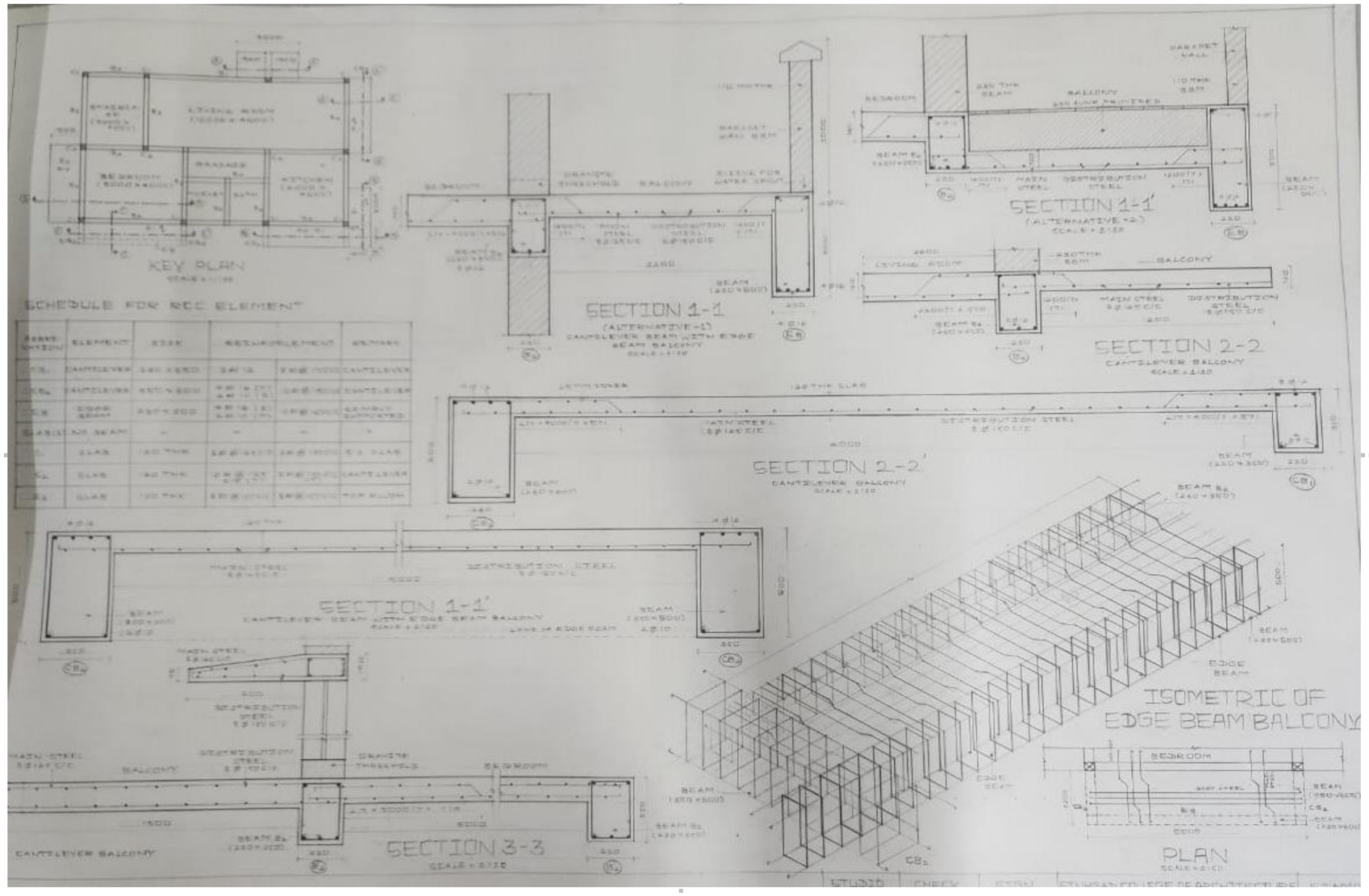


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BUILDING CONSTRUCTION AND MATERIALS III

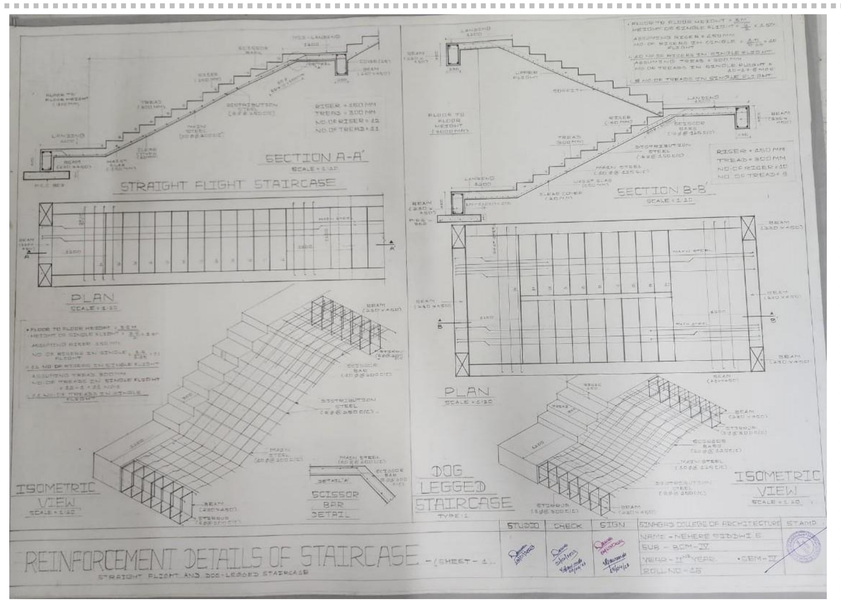
Introduction to RCC structures (Work below ground level and upto Plinth)

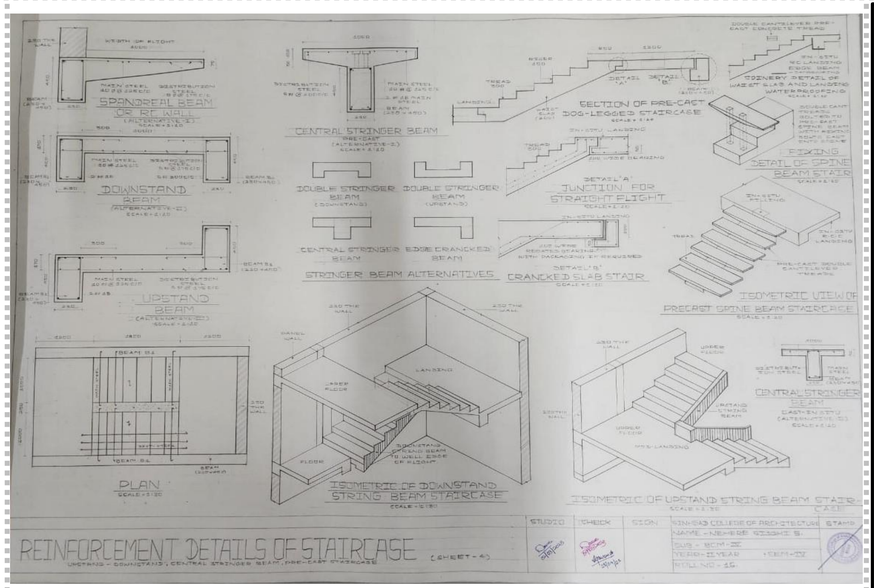
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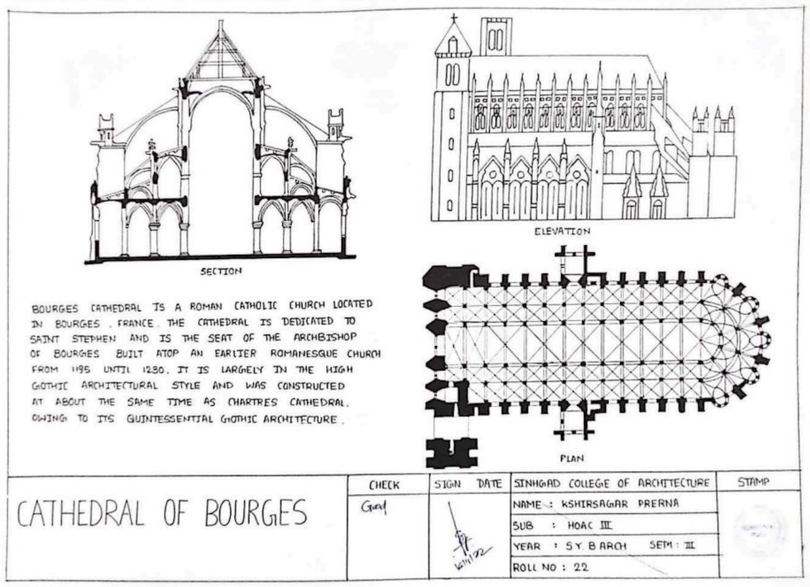


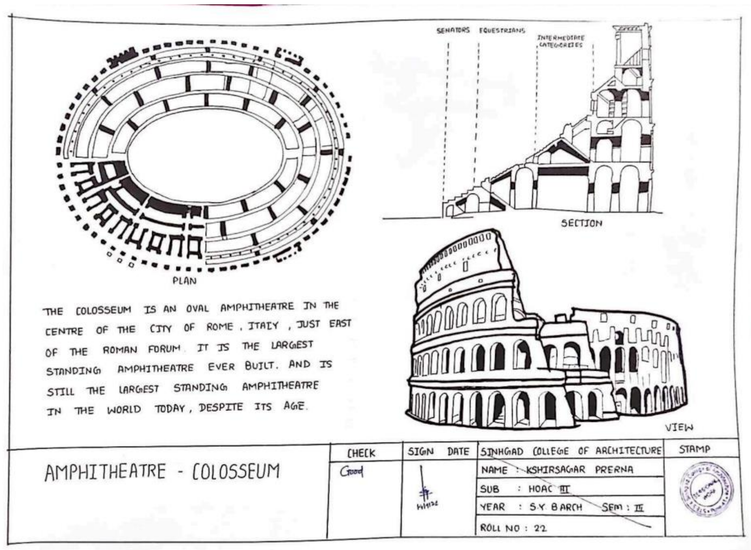
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BUILDING CONSTRUCTION AND MATERIALS IV

Reinforcement Details Of RCC Balconies

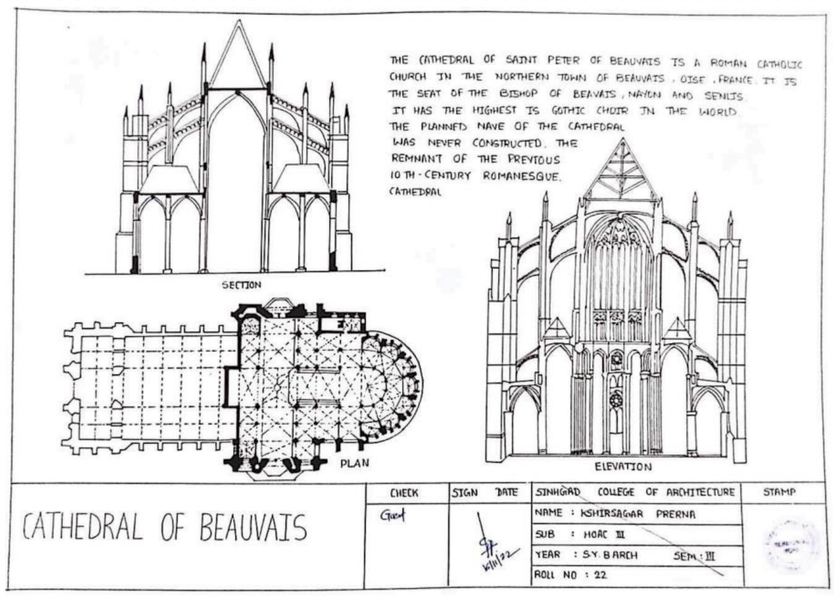
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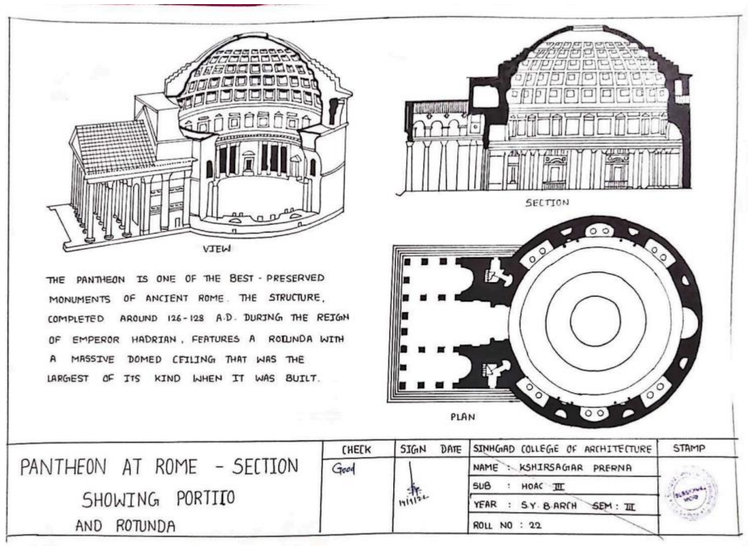




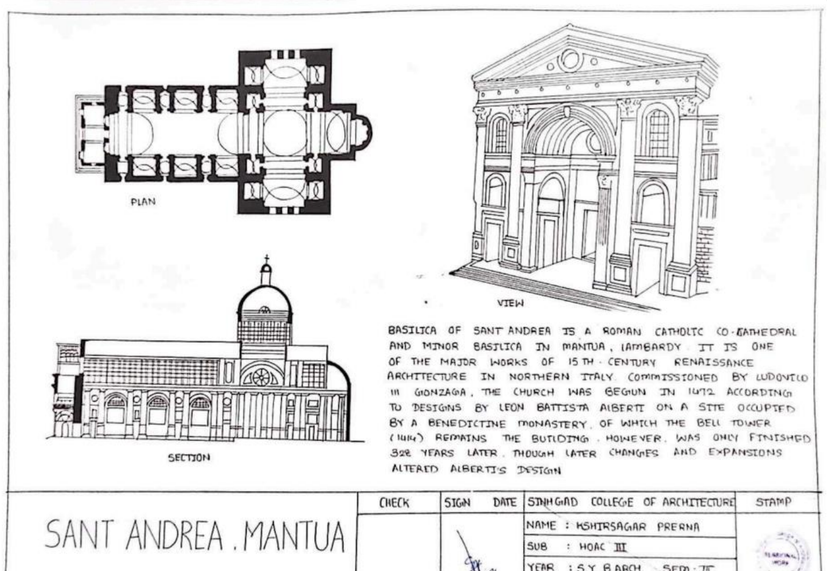


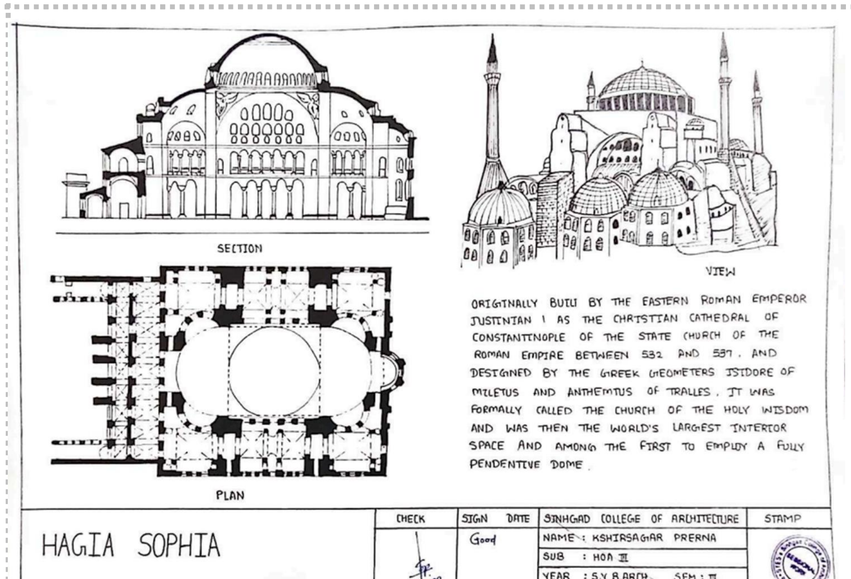








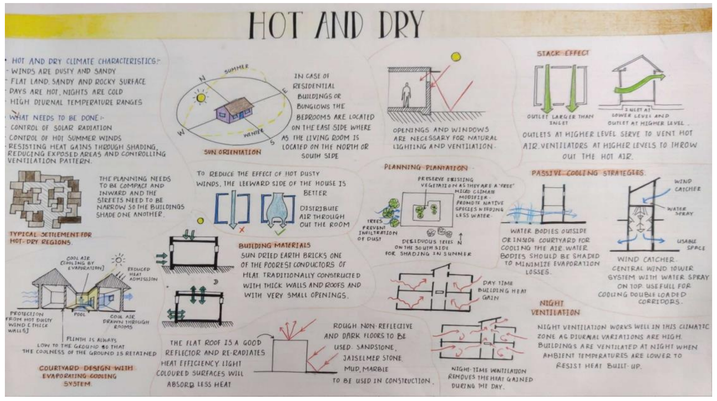


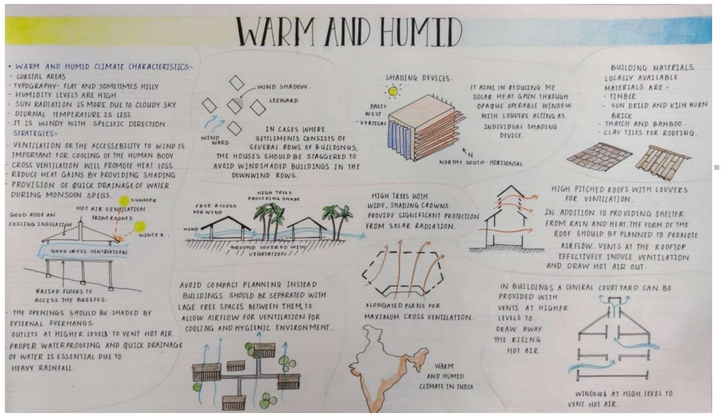


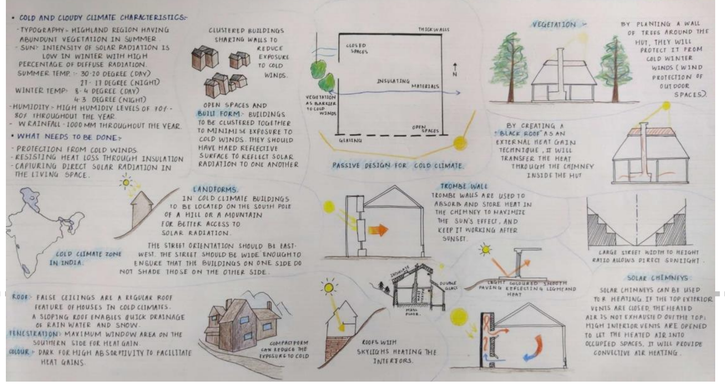
2nd Year B.Arch 2022-2023

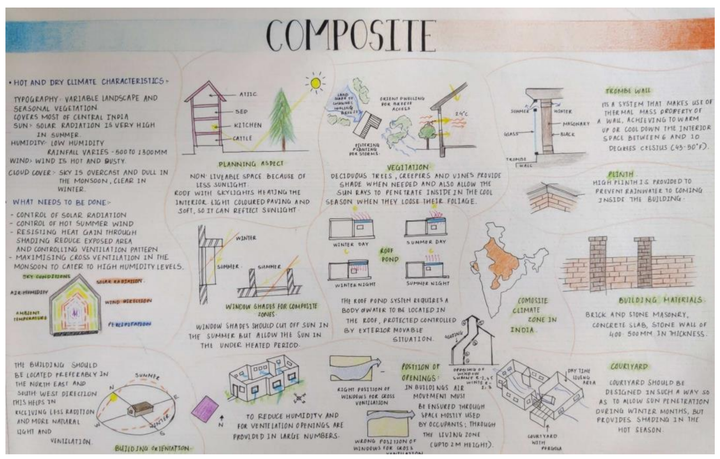
HISTORY OF ART AND ARCHITECTURE III

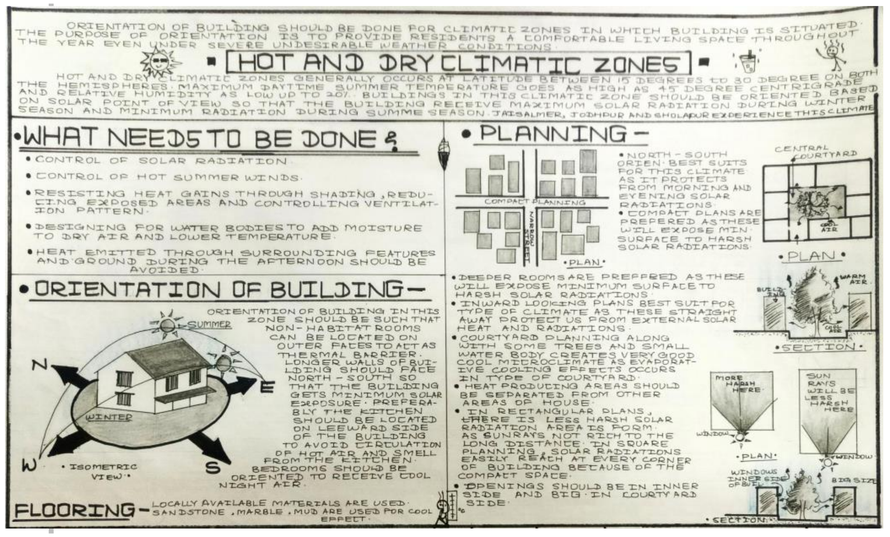
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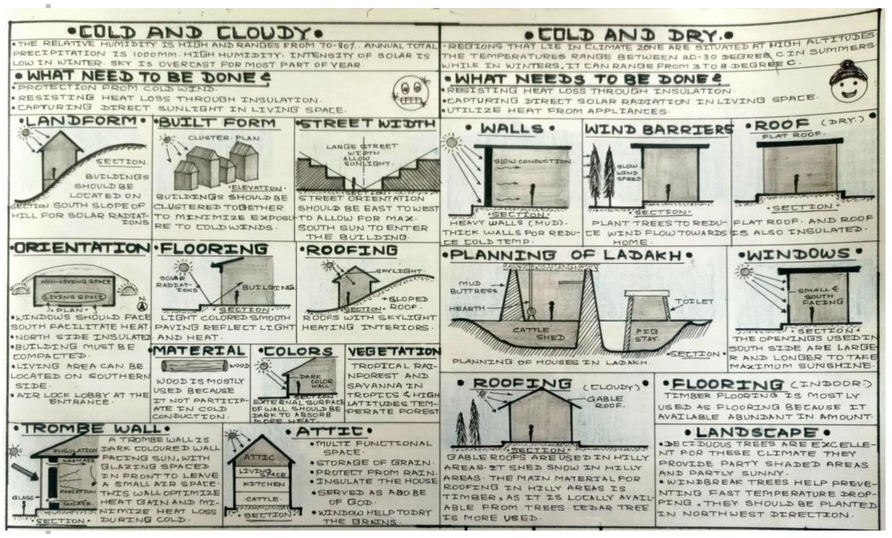












Aim :

- Understand the importance of Climatology and Earth Sun relationship in Architecture and its application in Design.

Objective:

- To Introduce the students to use tools like solar chart to determine the position of Sun from a given place (Latitude given) for a specific time in a specific month, with understanding of technical terms like Azimuth angle, Altitude angle, Sunpath, Sky dome etc.



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CLIMATOLOGY

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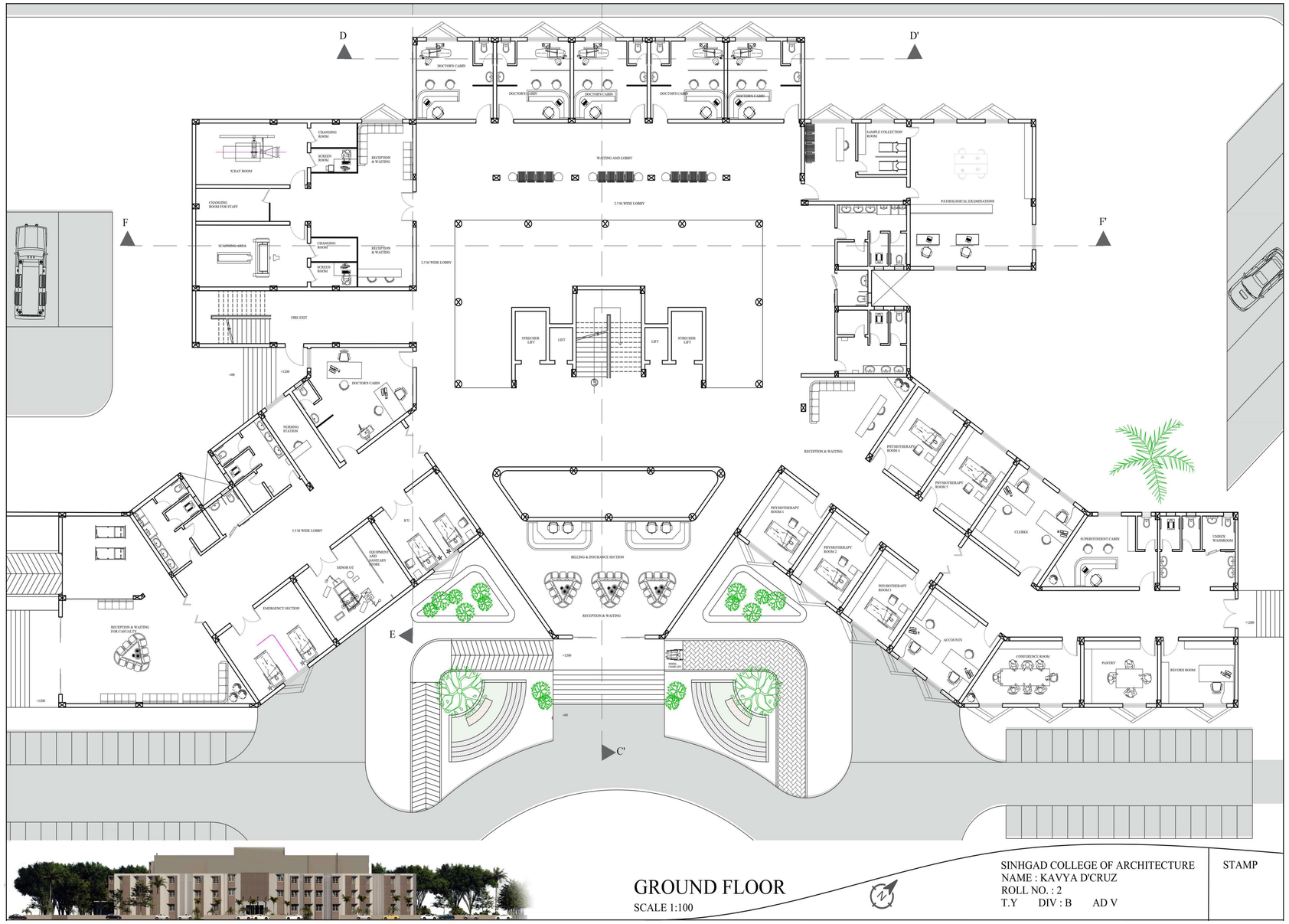
PROGRAM BRIEF -

Udaipur, known as a City of lakes is located in the southernmost part of Rajasthan, near the Gujarat border. The city has extremely rich traditional and cultural background. Udaipur being a capital of Mewar in History has historical evidences since 2000 BCE. The city is connected by National Highways, Railways as well as Air way.

Udaipur city (Udaipur Municipal Corporation) provides good Infrastructure, public facilities and amenities. According to survey students found the need of Orthopaedic Hospital in Udaipur.

Aim:

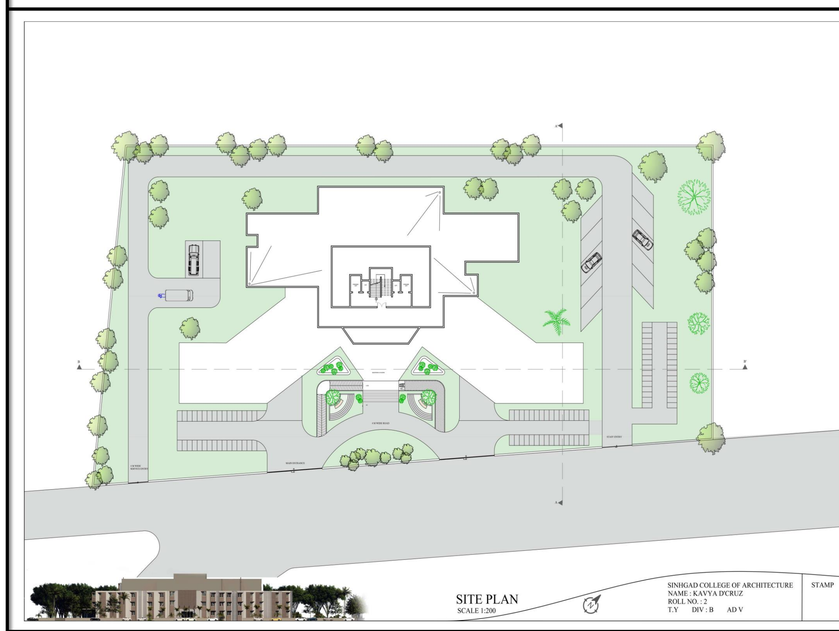
To design services oriented multi level structure with basement and consideration of universal design guidelines along with landscape for different kinds of users.



GROUND FLOOR
SCALE 1:100

SINHGAD COLLEGE OF ARCHITECTURE
NAME : KAVYA D'CRUZ
ROLL NO. : 2
T.Y DIV : B AD V

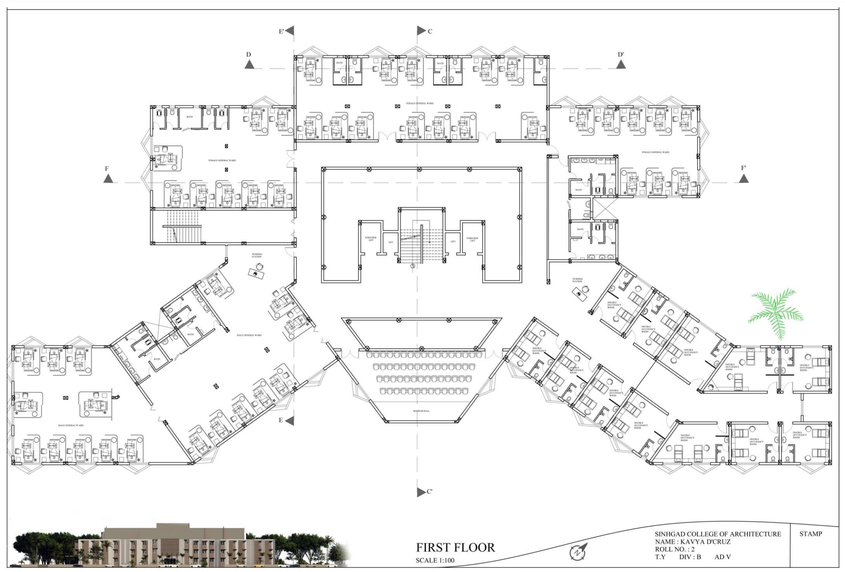
STAMP



SITE PLAN
SCALE 1:200

SINHGAD COLLEGE OF ARCHITECTURE
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ROLL NO. : 2
T.Y DIV : B AD V

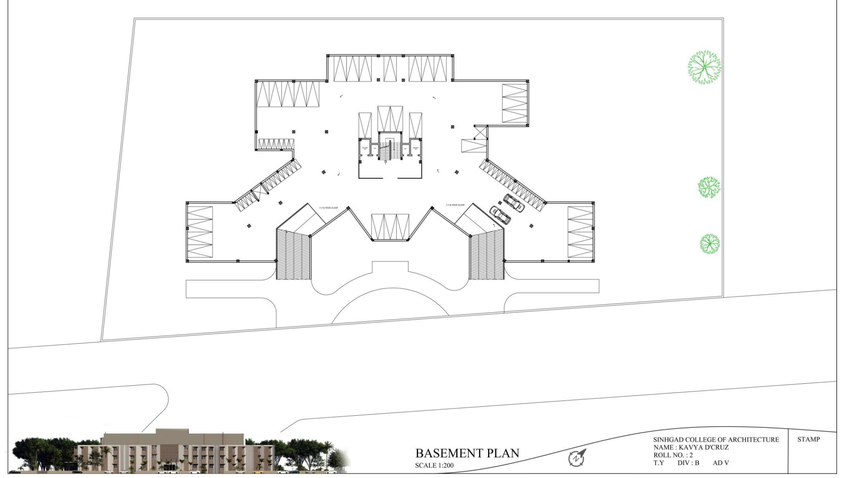
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FIRST FLOOR
SCALE 1:100

SINHGAD COLLEGE OF ARCHITECTURE
NAME : KAVYA D'CRUZ
ROLL NO. : 2
T.Y DIV : B AD V

STAMP



BASEMENT PLAN
SCALE 1:200

SINHGAD COLLEGE OF ARCHITECTURE
NAME : KAVYA D'CRUZ
ROLL NO. : 2
T.Y DIV : B AD V

STAMP

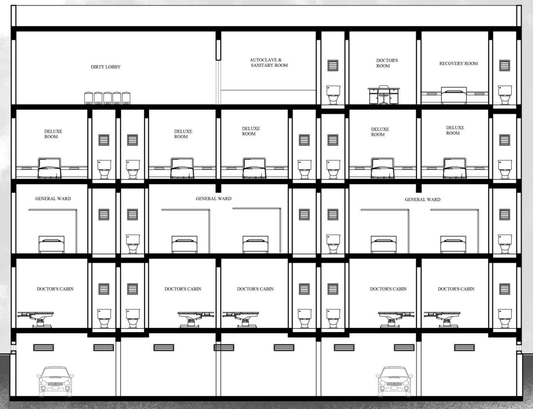
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ARCHITECTURAL DESIGN V

Proposed Orthopaedic Hospital and recovery centre at Udaipur

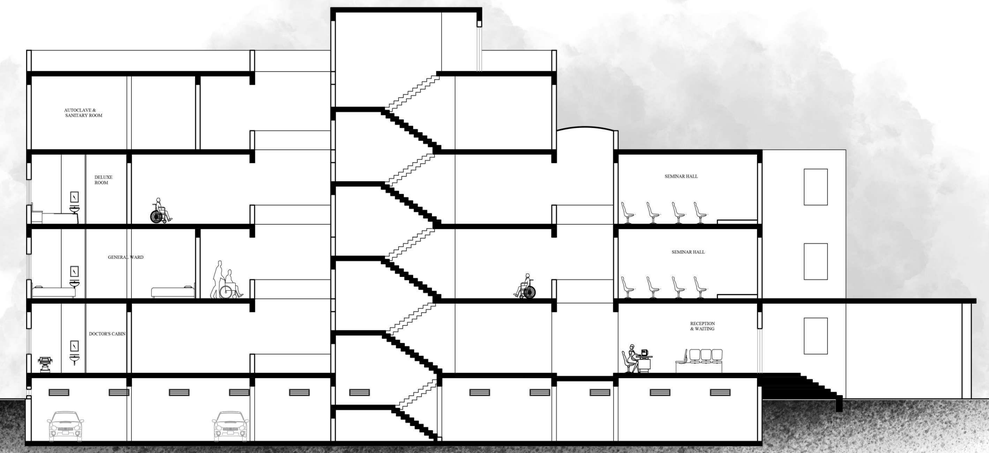
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Sinhgad College of Architecture, Pune

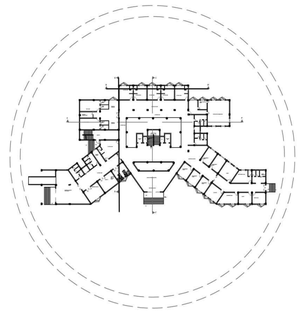


SECTION AT DD'

PARAPET LEVEL
+ 16200 MM
TERRACE FLOOR LEVEL
+ 15200 MM
THIRD FLOOR SLAB LEVEL
+ 11700 MM
SECOND FLOOR SLAB LEVEL
+ 8200 MM
FIRST FLOOR SLAB LEVEL
+ 4700 MM
LINTEL LEVEL
+ 3300 MM
SILL LEVEL
+ 2100 MM
PLINTH LEVEL
+ 1200 MM
GROUD LEVEL
± 0 MM
BASEMENT LEVEL
- 2200 MM



SECTION AT CC'



KEY PLAN



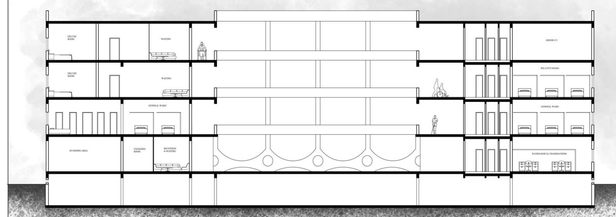
SECTIONS
SCALE 1:100

SINHGAD COLLEGE OF ARCHITECTURE
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ROLL NO. : 2
T.Y DIV : B AD V

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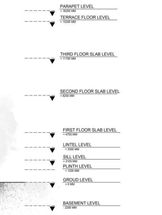


SECTION AT FF'



SECTION AT EE'

KEY PLAN



SECTIONS
SCALE 1:100

SINHGAD COLLEGE OF ARCHITECTURE
NAME : KAVYA D'CRUZ
ROLL NO. : 2
T.Y DIV : B AD V

STAMP











SINHGAD COLLEGE OF ARCHITECTURE
NAME : KAVYA D'CRUZ
ROLL NO. : 2
T.Y DIV : B AD V

STAMP



ELEVATIONS
SCALE 1:100

SINHGAD COLLEGE OF ARCHITECTURE
NAME : KAVYA D'CRUZ
ROLL NO. : 2
T.Y DIV : B AD V

STAMP



ELEVATIONS
SCALE 1:100

SINHGAD COLLEGE OF ARCHITECTURE
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T.Y DIV : B AD V

STAMP

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ARCHITECTURAL DESIGN V

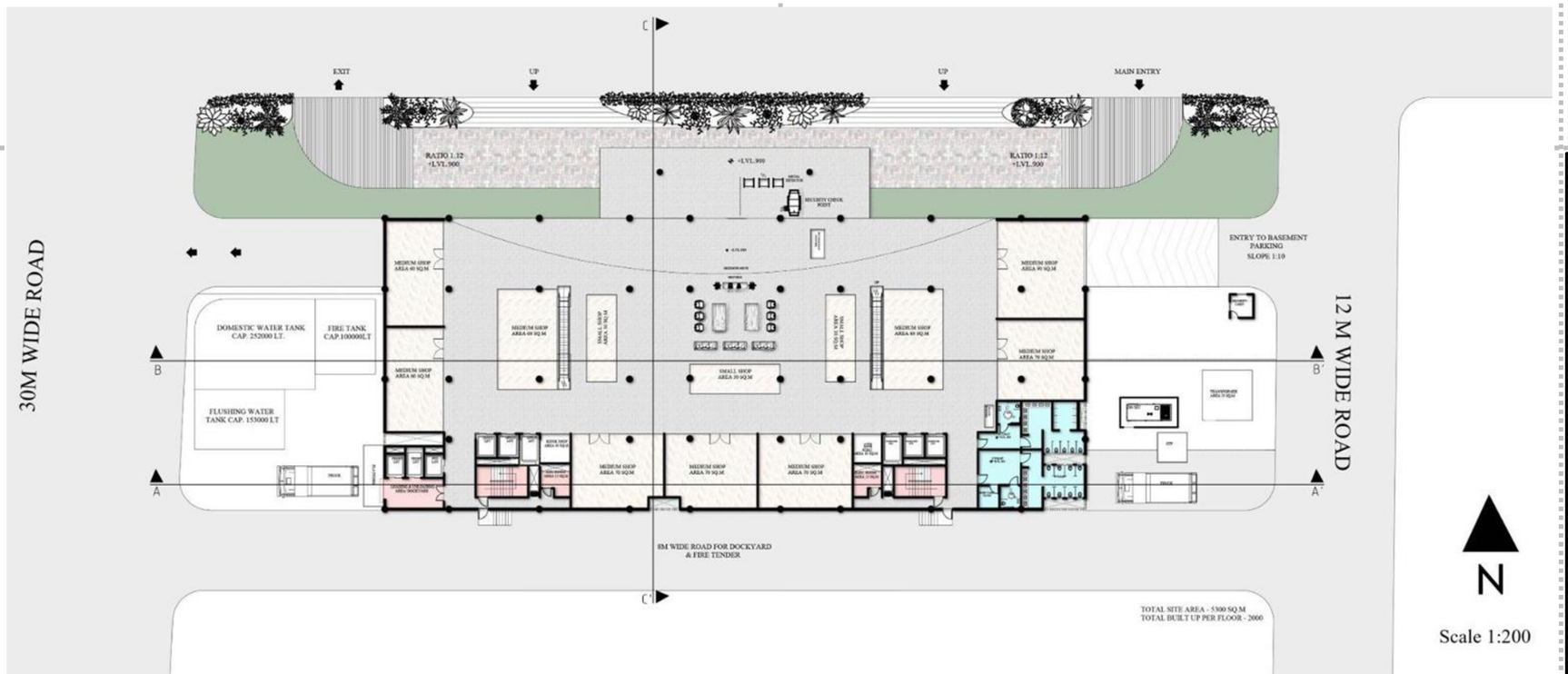
Proposed Orthopaedic Hospital and recovery centre at Udaipur

Sinhgad College of Architecture, Pune



SITE PLAN

Scale 1:250



Scale 1:200

Introduction:

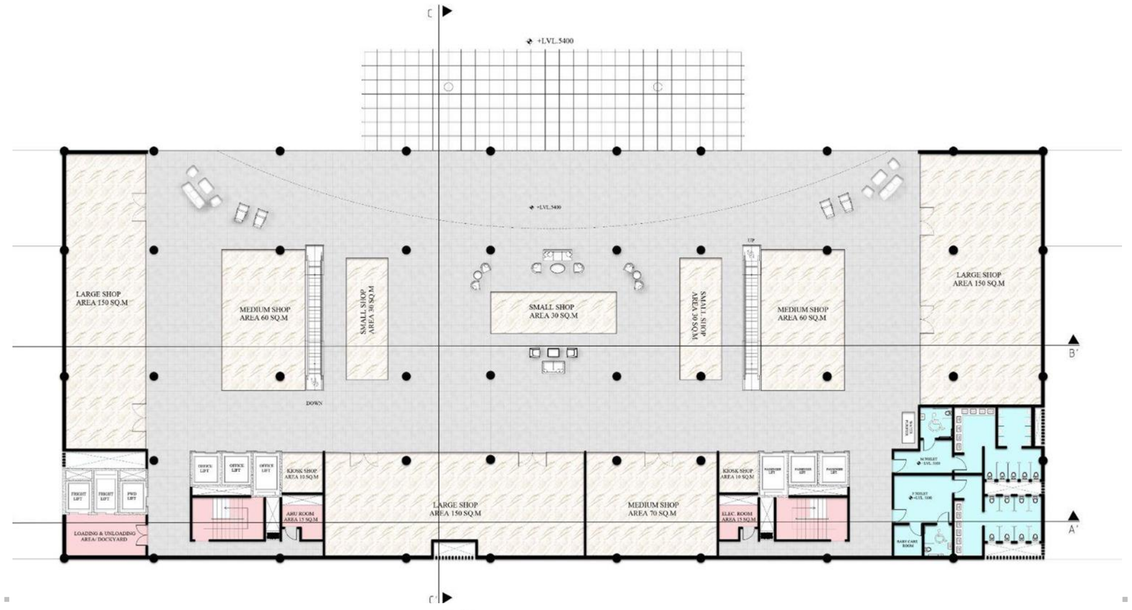
- Designing of progressively complex spaces and buildings in terms of area, a specific community, typology, function etc, with emphasis on either scale or complexity of the project, or both.
- Project could be evolved based on the current needs of the city and / or context responding to aspects like heritage and conservation, landscape and ecology, image and identity, etc.
- Development of building design program from not only client or user's requirements but also in response to context specific factors like socio-economic, socio-cultural, environmental etc.
- Introduction to develop a design philosophy/narrative as a thought process in design.
- Analysing activities around the buildings within a campus and understand the same in context to relation of built form and open spaces, elements of landscape, pedestrian and vehicular movement, their segregation, managing sloping sites, contours, etc.

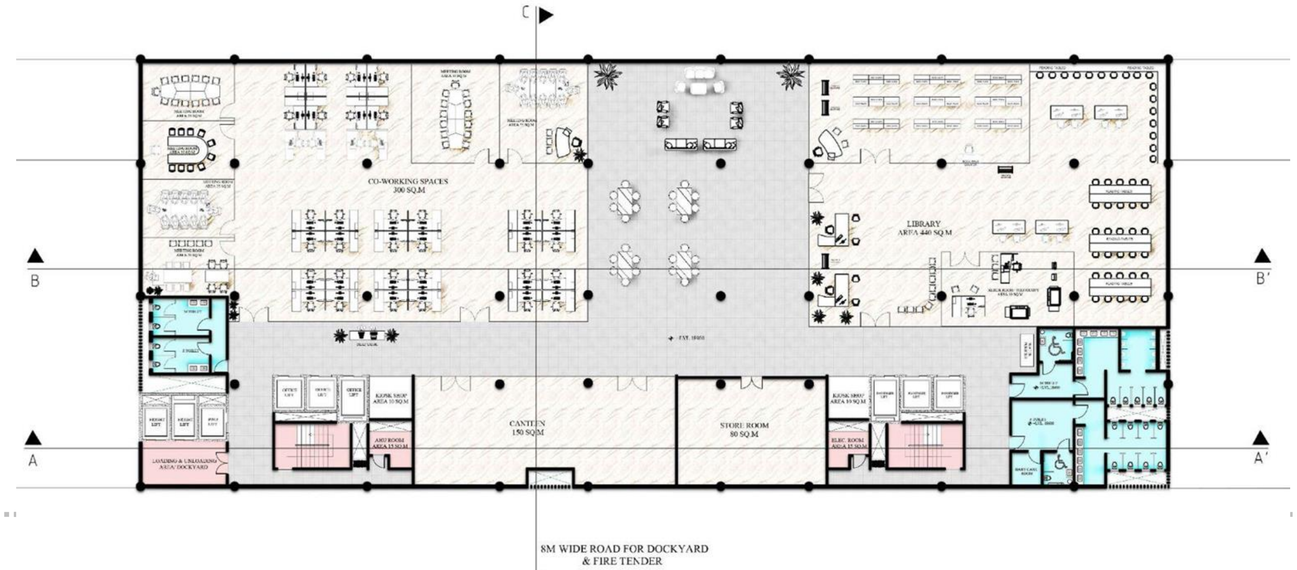
3rd Year B.Arch (C) TERM II 2022-2023

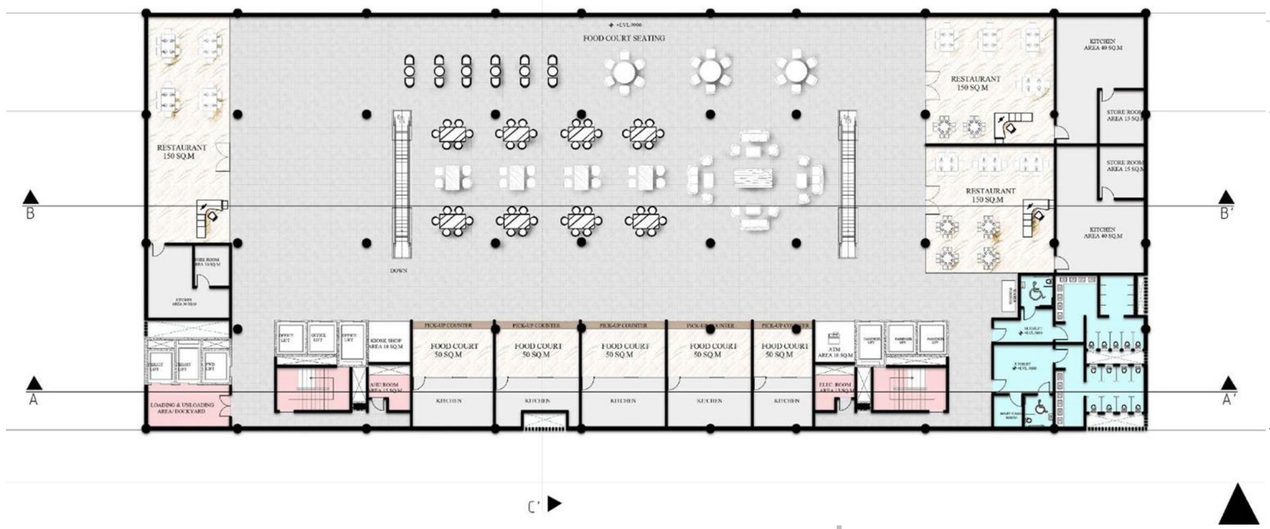
ARCHITECTURAL DESIGN V

MULTIPURPOSE COMMERCIAL BUILDING, BHOPAL

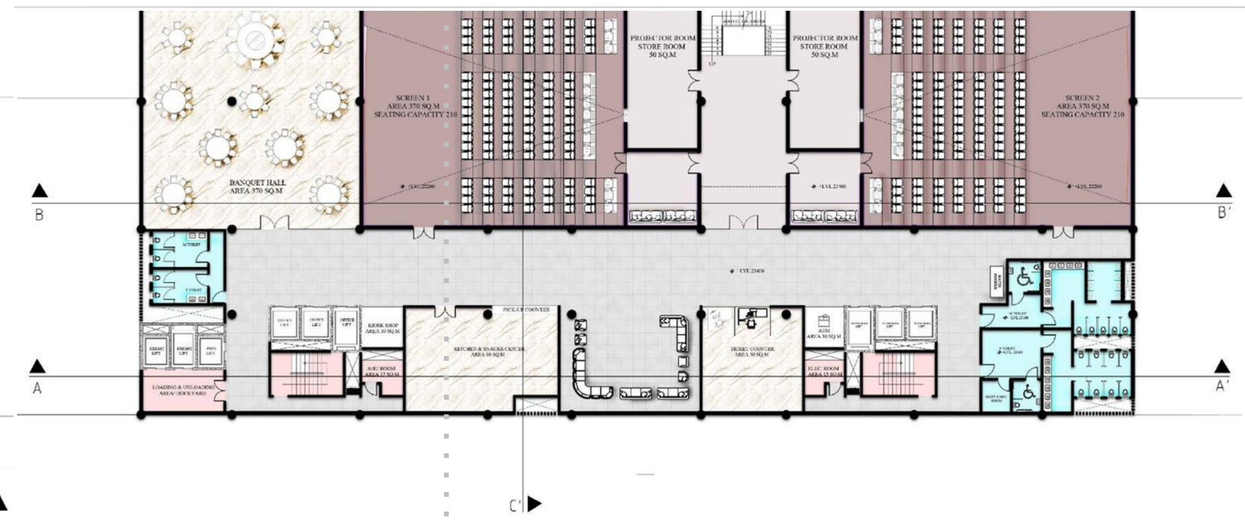
Sinhgad College of Architecture, Pune



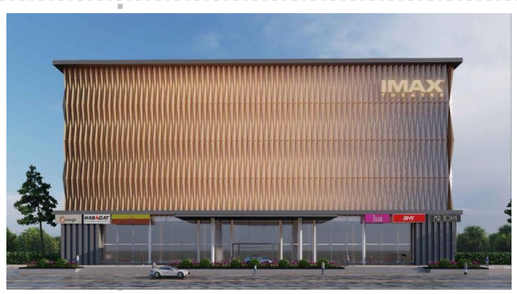




8M WIDE ROAD FOR DOCKYARD & FIRE TENDER











3rd Year B.Arch (C) TERM II 2022-2023

ARCHITECTURAL DESIGN V

MULTIPURPOSE COMMERCIAL BUILDING, BHOPAL

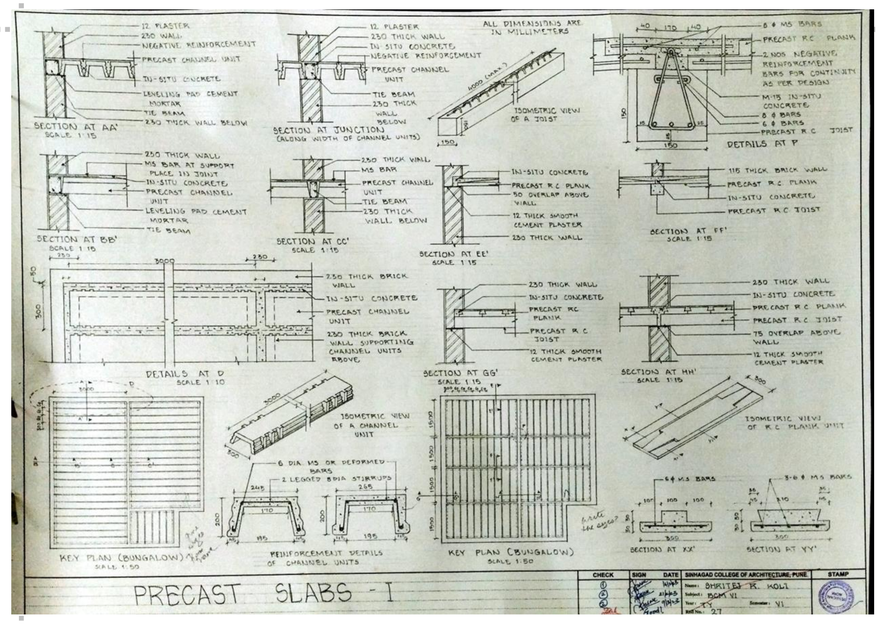
Sinhgad College of Architecture, Pune

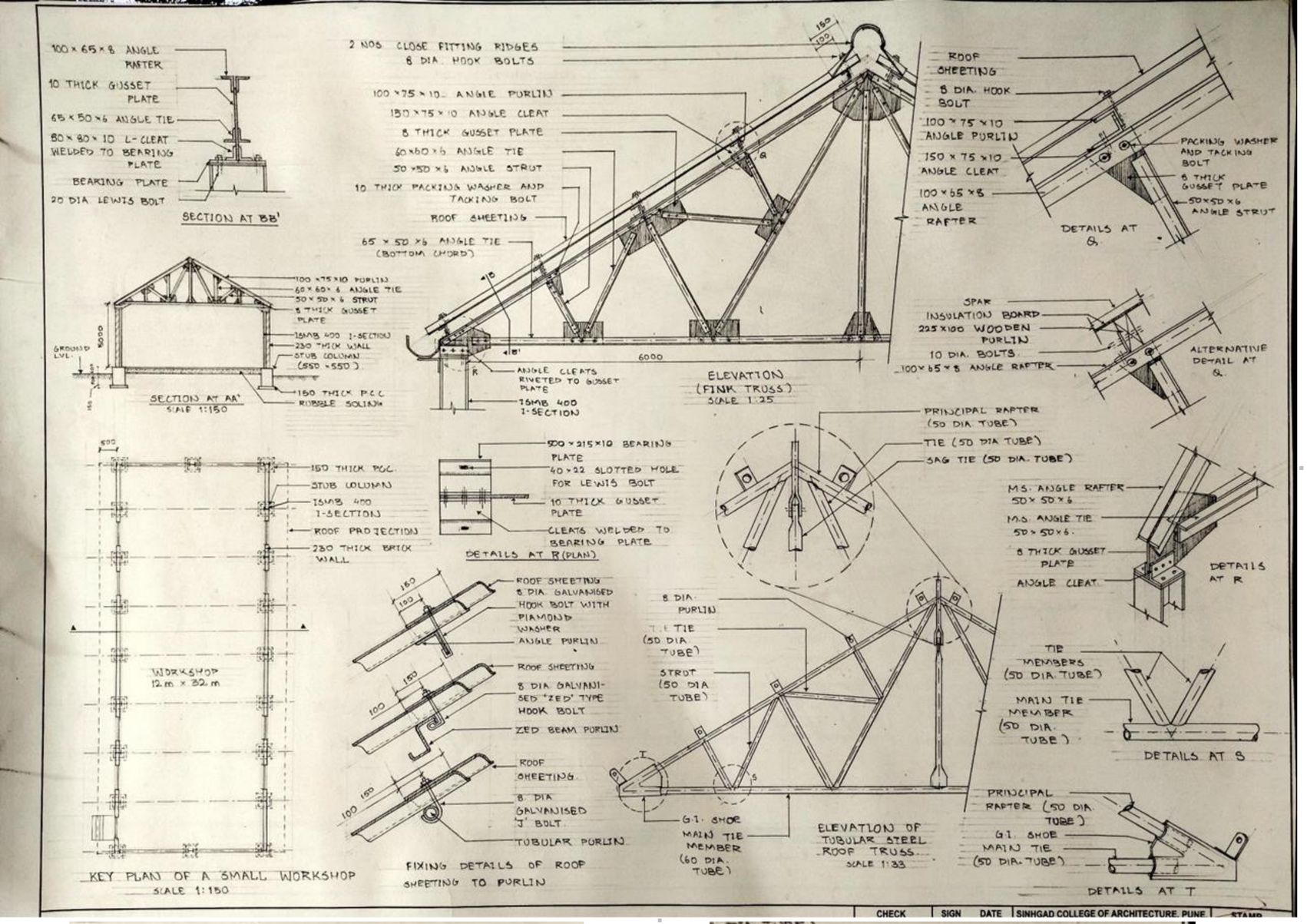
Steel structure construction

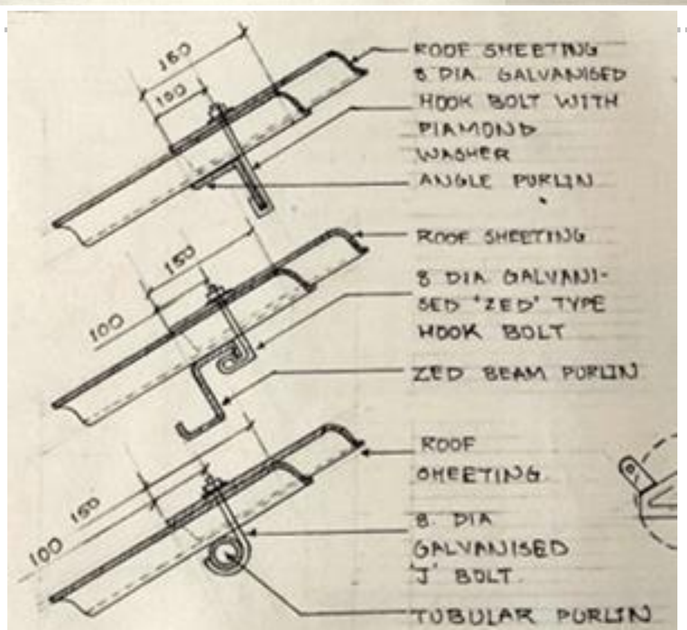
Understanding methods of construction of various components of steel structures; steel frame construction for multi-storey steel building.

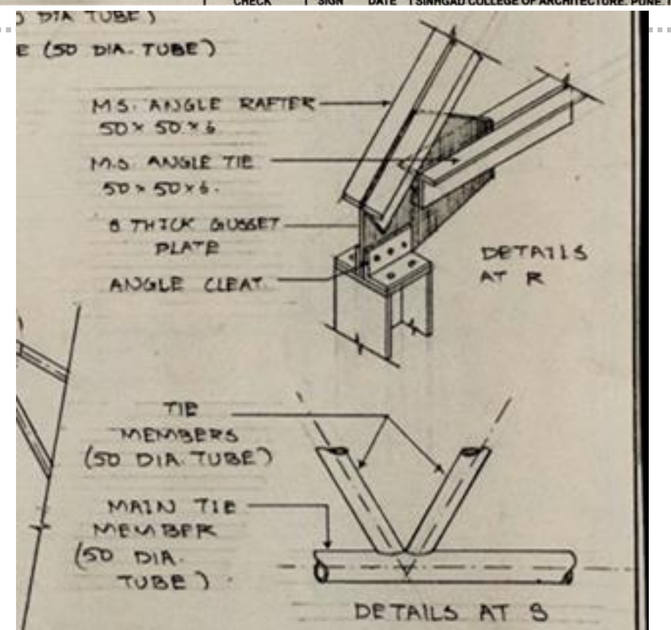
Construction details of assembly with stanchion, beams and metal deck flooring along with earthquake resistant features.

Moisture and fire protections in steel framed buildings







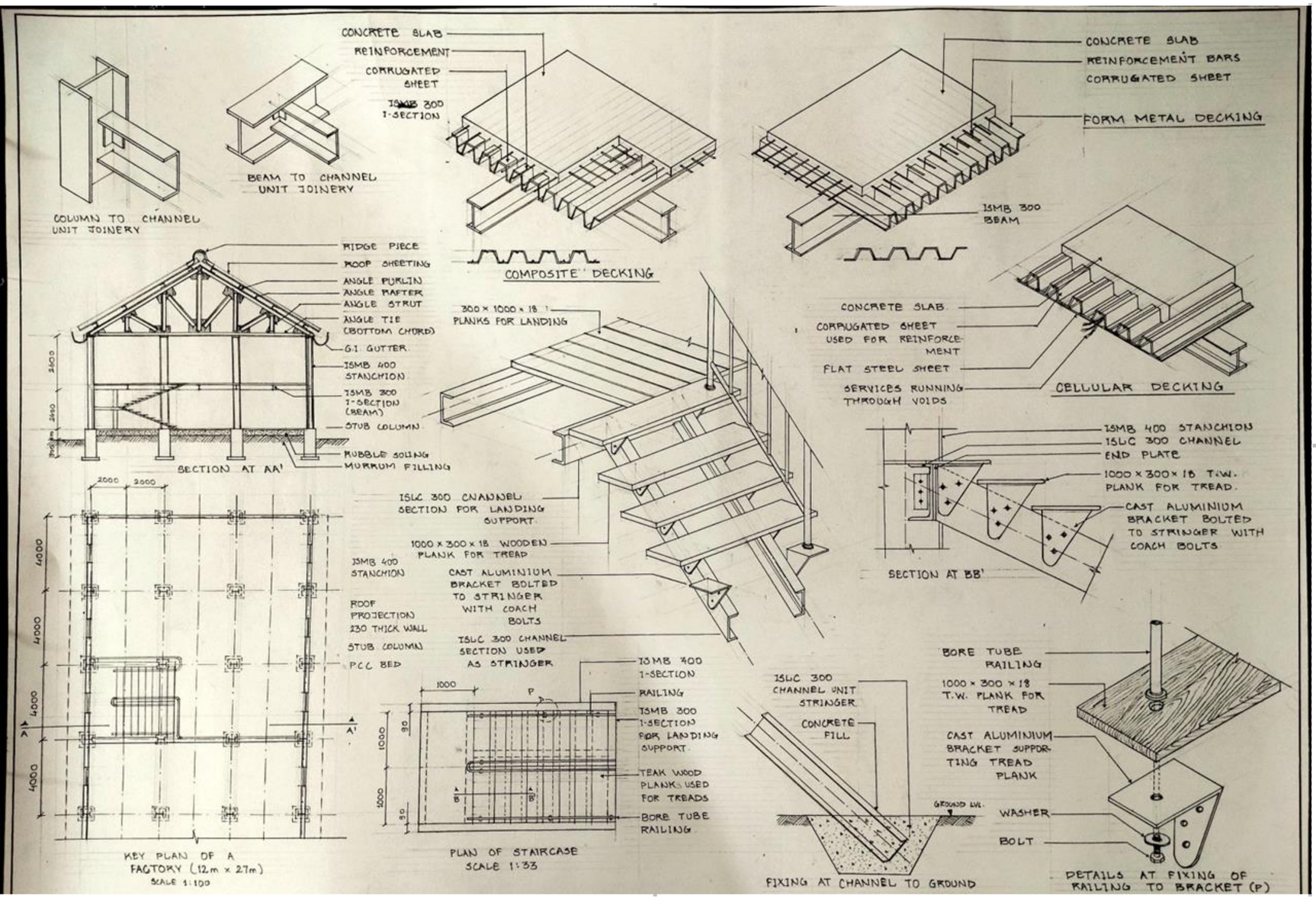


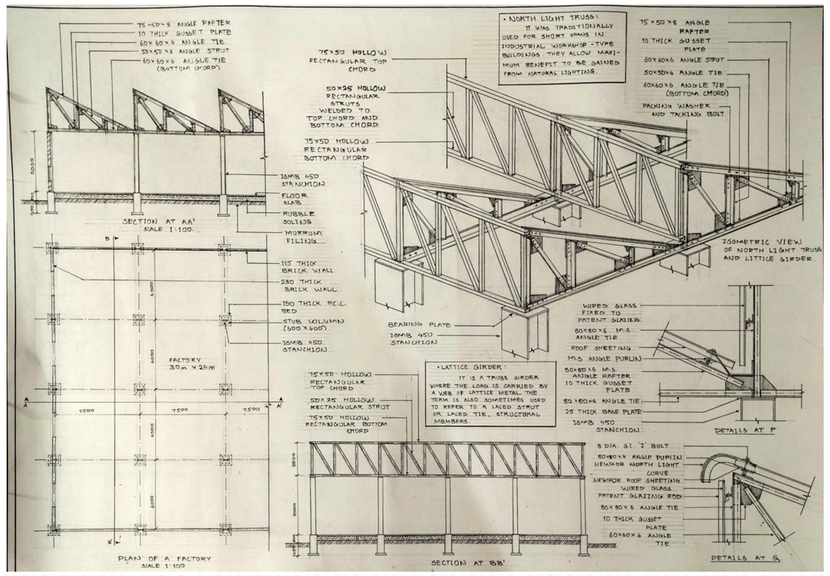
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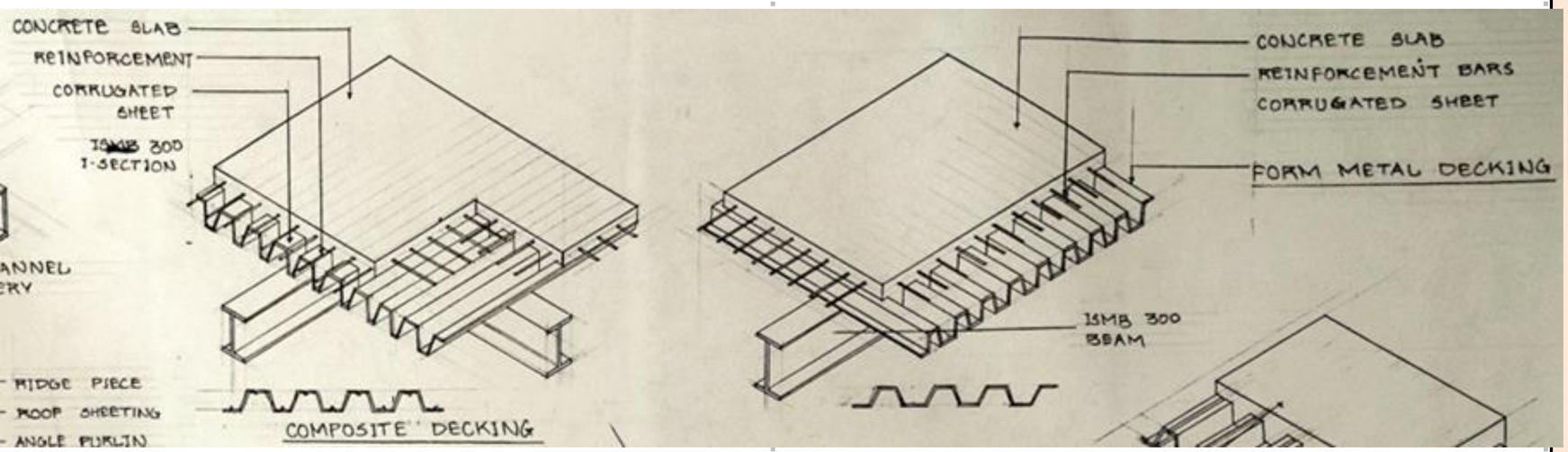
BCM VI

Precast slabs and Steel structures II

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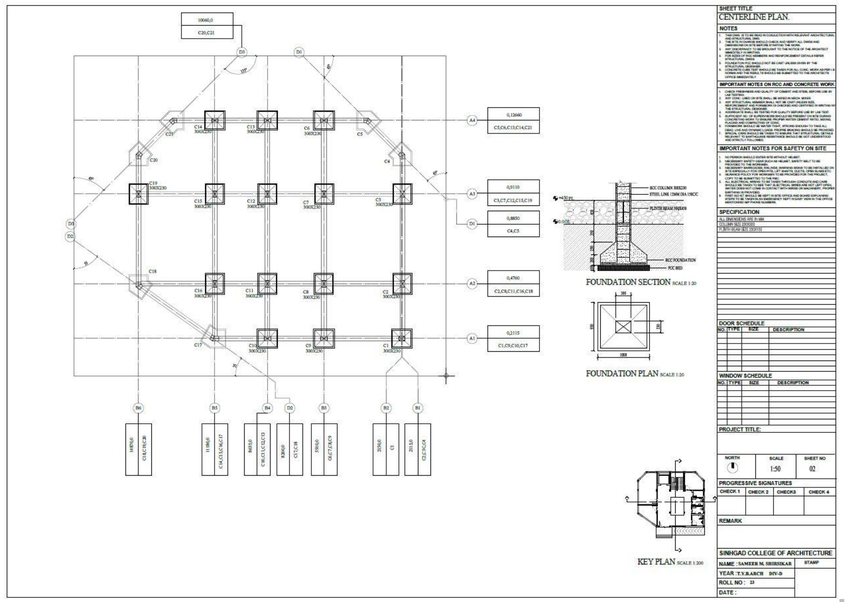


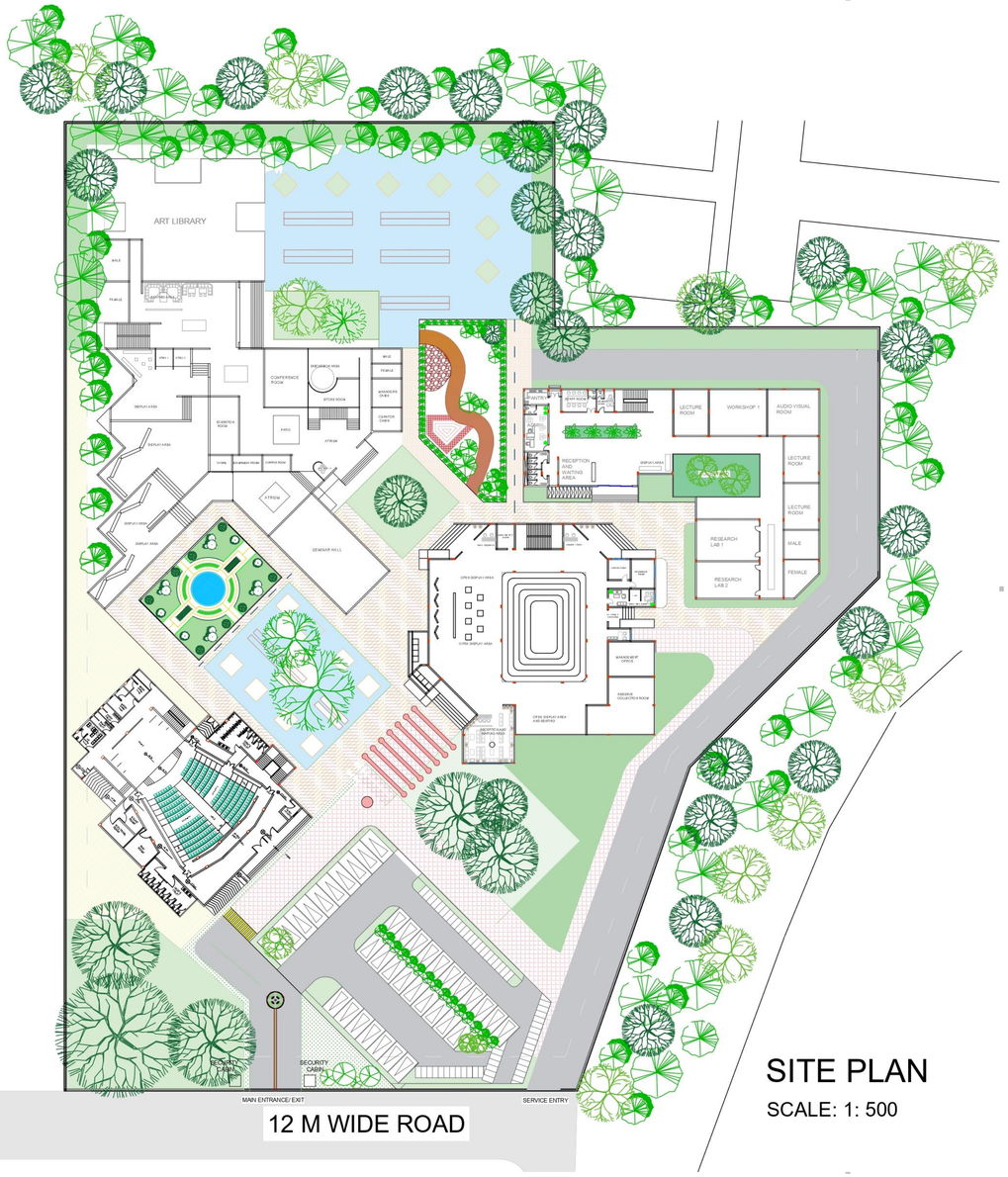
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BCM VI

Metal decking staircase and Steel structures

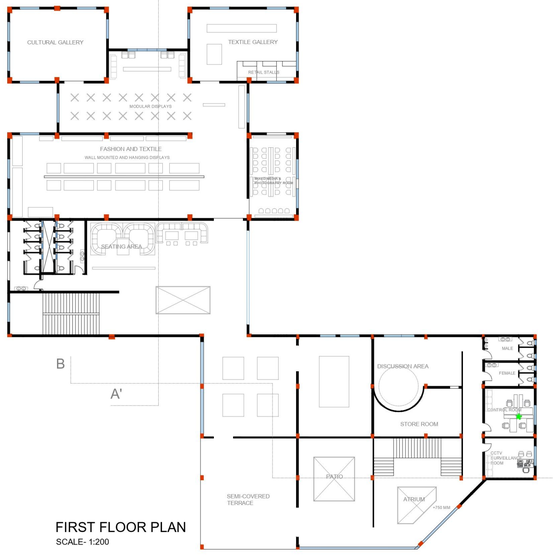
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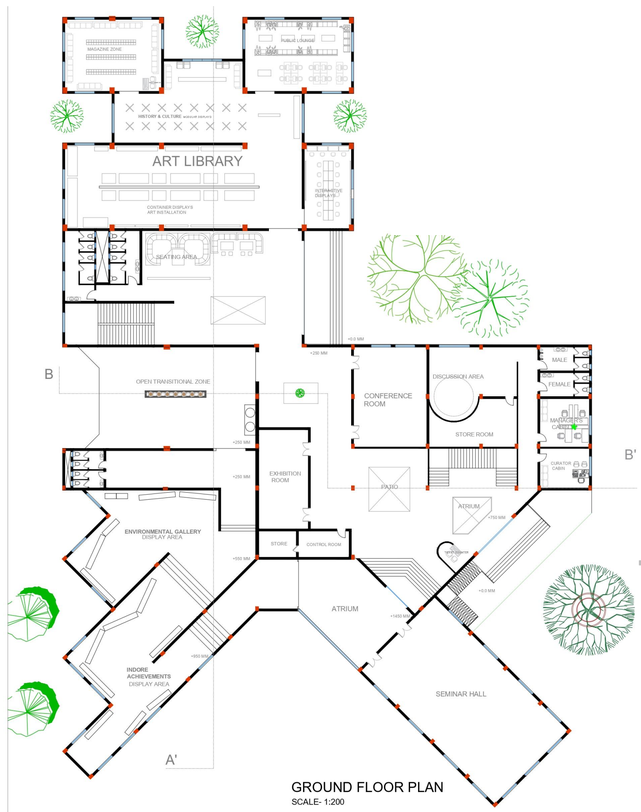
SITE PLAN

SCALE: 1: 500



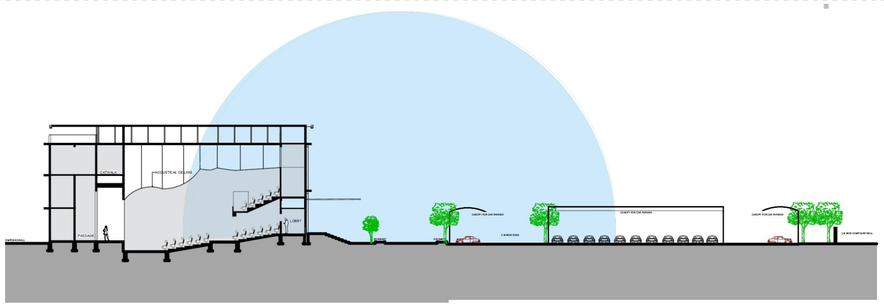
FIRST FLOOR PLAN

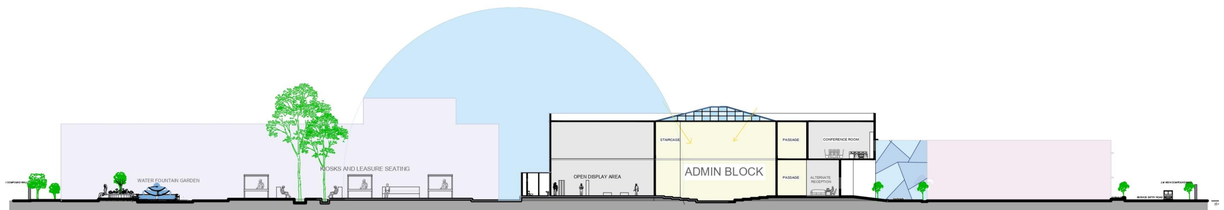
SCALE- 1:200



GROUND FLOOR PLAN

SCALE- 1:200





The city of Indore is selected for the urban design proposals and architectural interventions as per the syllabus requirements.

Students have been to the study tour to visit the place. They have identified the important places and landmarks in the city and visited respective places/buildings/monuments.

They studied and analysed the city based on the 7 parameters – Physical,social,economy,ecology,infrastructure, environment,institutinal aspects.

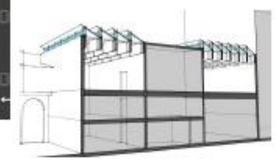
The students were expected to make a base map in the pretour report based on the secondary data which was collected through the authentic secondary sources.

They carried out primary survey during the study tour to check the authenticity of the secondary data . Problem and potential identification was the next step in design process which finally led to the proposals and architectural interventions for the city of Indore.





PROVIDING NORTH LIGHTING SKYLIGHT AND PLANNING GALLERIES IN A WAY THAT THERE IS AN ELEMENT OF SURPRISE.



The city level benefits of the given proposal.

4th Year B.Arch 2022-2023

ARCHITECTURAL DESIGN VII

URBAN DESIGN,INDORE

Sinhgad College of Architecture, Pune

FOODCOURT







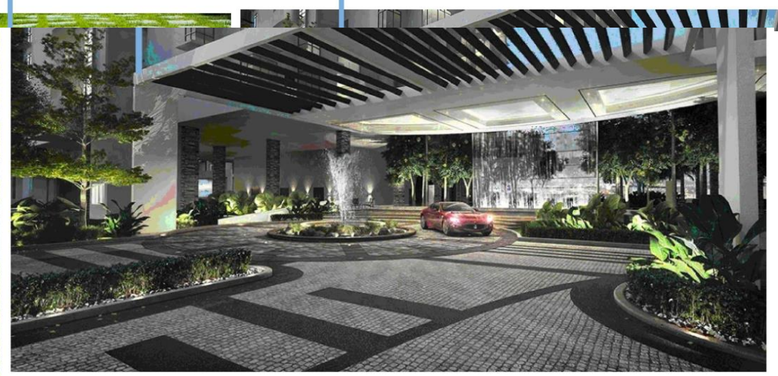
WOODEN PERGOLA AT
ENTRANCE TO ADMIN BLOCK

LANDSCAPING

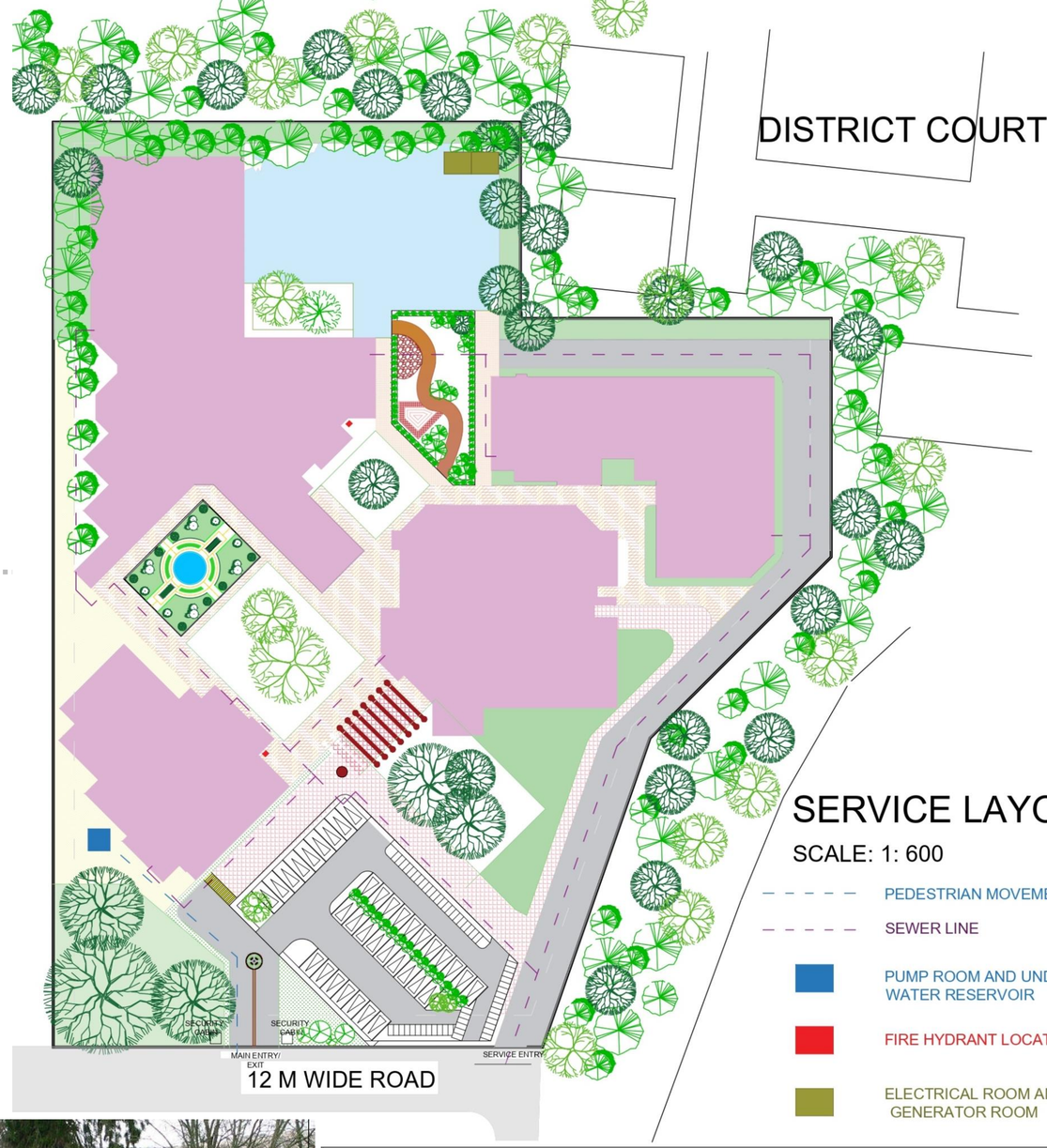
SCALE: 1: 600



TURF GRID GREEN PARKING



CIRCULAR DROP OFF POINT



SERVICE LAYOUT

SCALE: 1: 600

PEDESTRIAN MOVEMENT

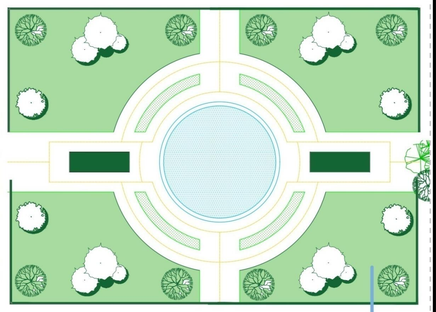
SEWER LINE

PUMP ROOM AND UNDERGROUN
WATER RESERVOIR

FIRE HYDRANT LOCATION

ELECTRICAL ROOM AND
GENERATOR ROOM





LAYOUT OF FOUNTAIN GARDEN

4th Year B.Arch 2022-2023

ARCHITECTURAL DESIGN VII

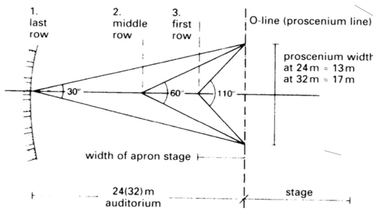
URBAN DESIGN,INDORE

Sinhgad College of Architecture, Pune

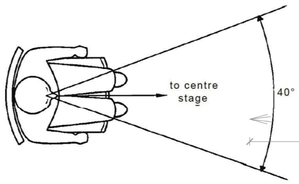
Project Details

Introduction:

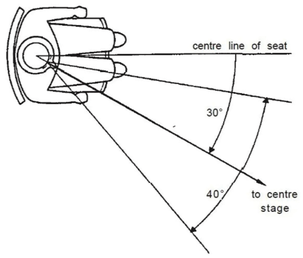
Design and construction of Auditorium (minimum capacity 350 with provision of a balcony and projector room in case of multiplex) along with required services.



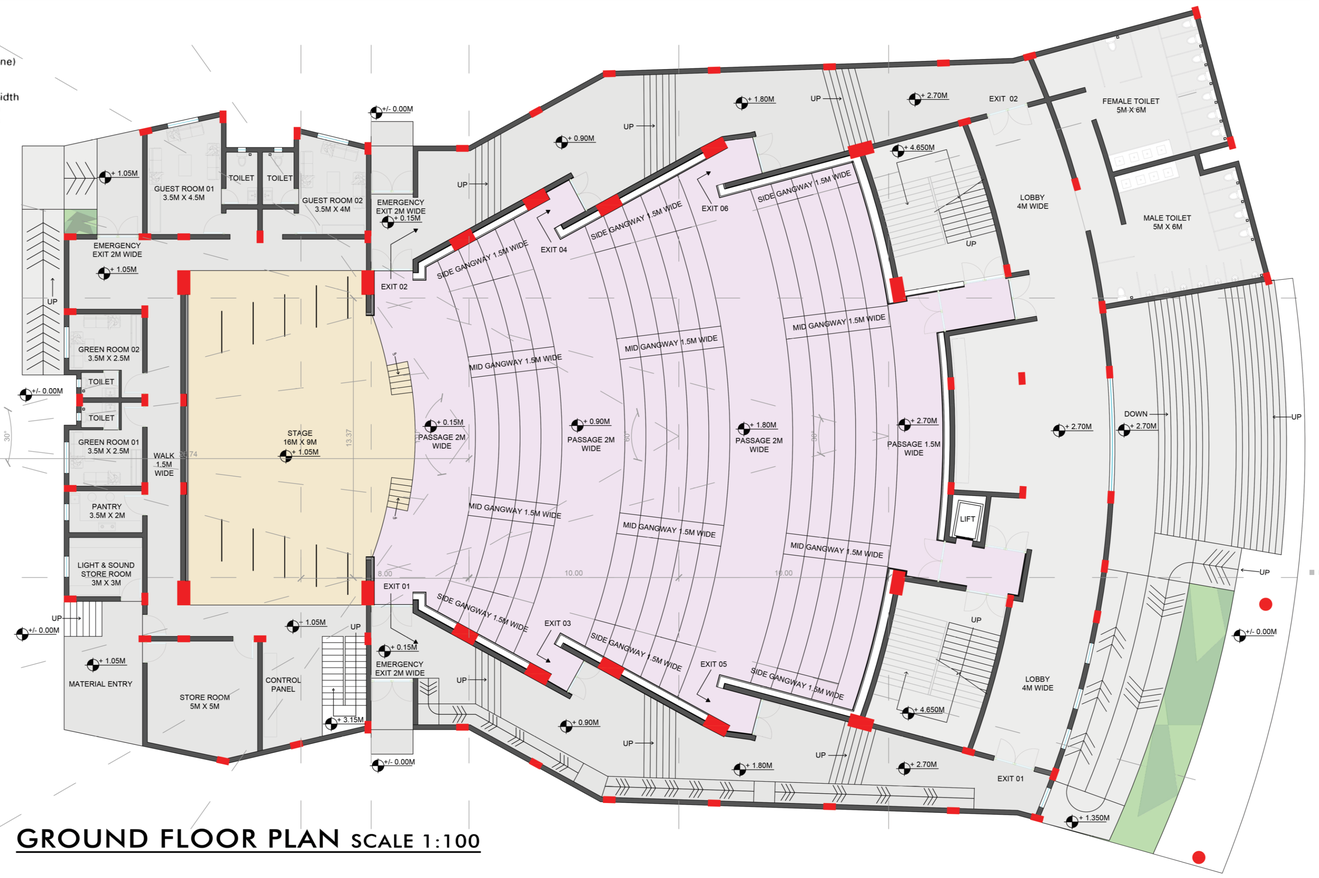
PROPORTIONS OF AUDITORIUM (AS PER ARCHITECTURAL STANDARDS)



ANGLE OF HORIZONTAL VISION 40 DEGREES

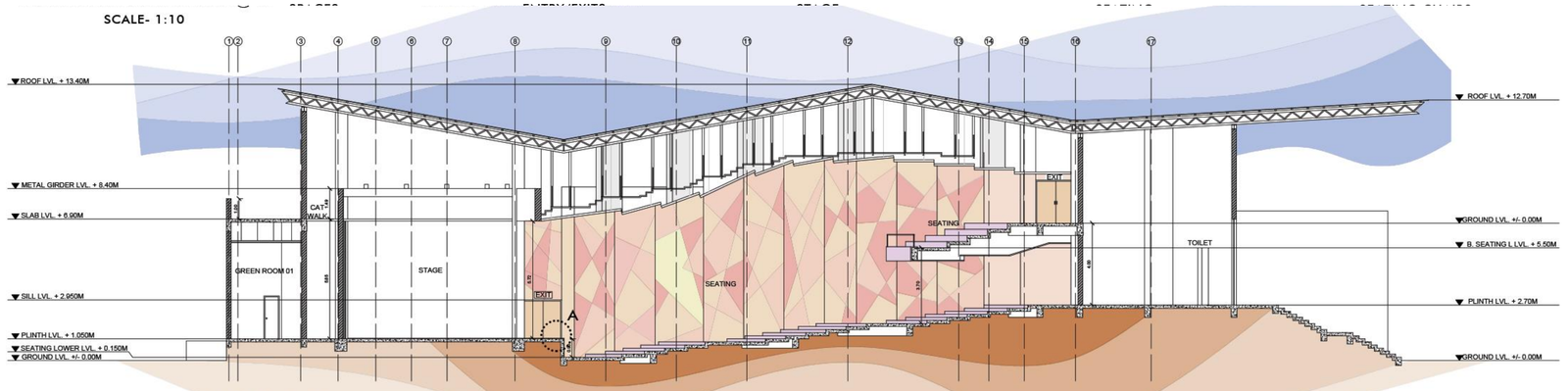


SIGHTLINES FOR SEATED AUDIANCE

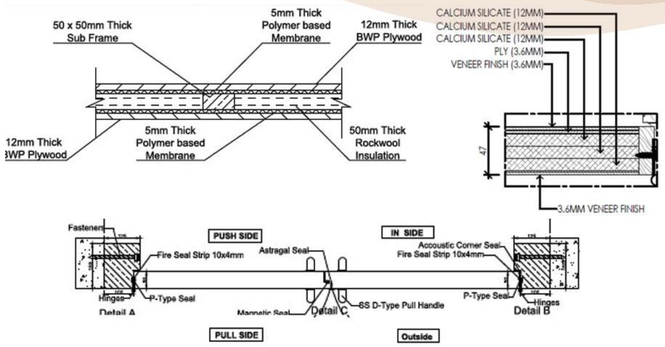


GROUND FLOOR PLAN SCALE 1:100

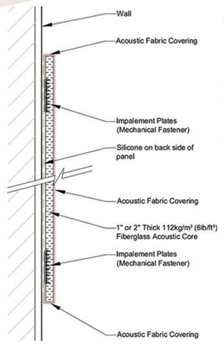
AUDITORIUM SPECIFICATIONS-



SECTION AA' SCALE 1:100



ACOUSTIC DOOR DETAIL



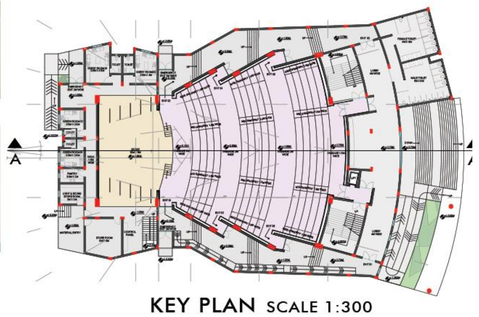
ACOUSTIC WALL DETAIL



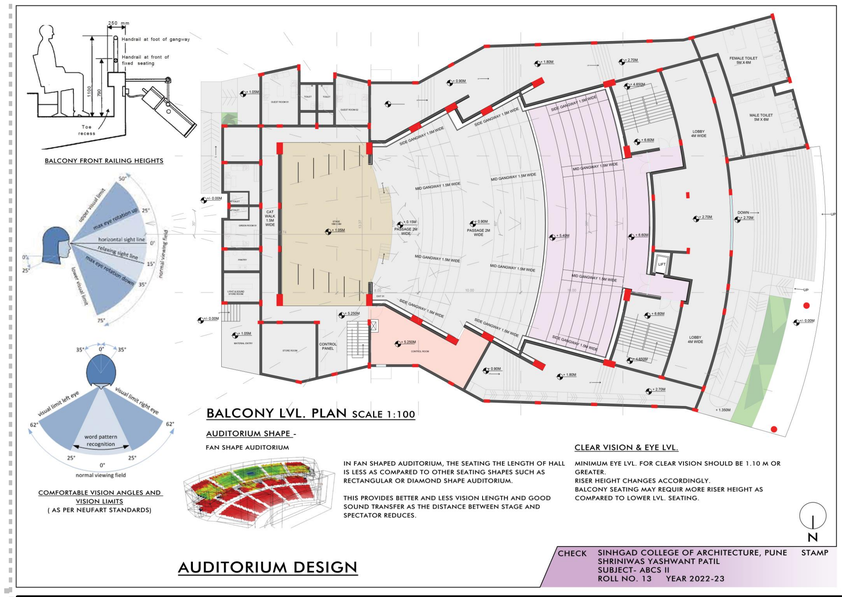
ACOUSTIC WALL PANELS



ACOUSTIC DOOR



KEY PLAN SCALE 1:300



4th Year B.Arch 2022-2023

ADVANCED BUILDING CONSTRUCTION AND SERVICES II

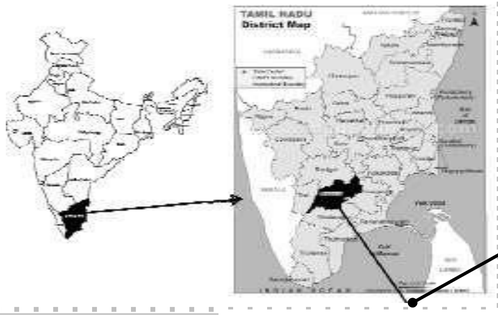
Auditoriums

Sinhgad College of Architecture, Pune

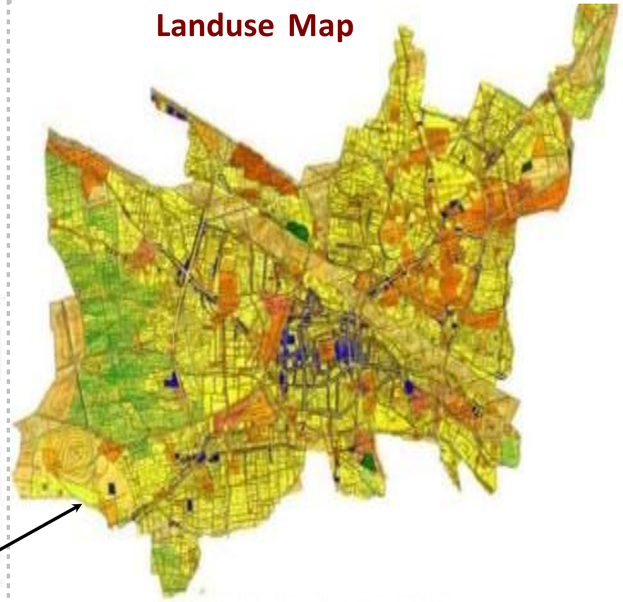
KNOW YOUR CITY.....

- Madurai is located in southeastern India, on the banks of a river vaigai. It is one of the 30 districts in Tamilnadu. In fact, the city serves as the district headquarters of the state. the geographical location of Madhurai is 9.91 N 78.1 E. It is located at an altitude of 100.58 meters above sea level.
- Madhurai one of the ancient cities of south India is also the Thrid largest in the state of Tamilnadu.
- A pre-urban nucleus around the Sri Meenakshi Amman temple was responsible for the growth and accretion of the urban structure and its development.

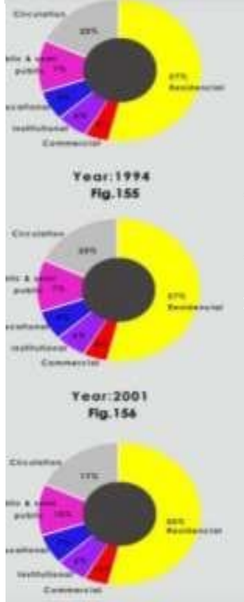




Landuse Map



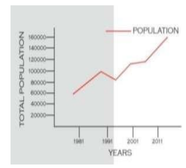
Madurai landuse map year-2011



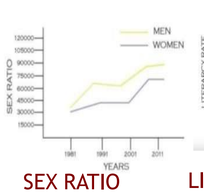
Demography

Total population

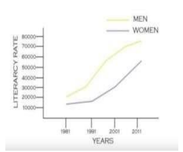
- 2011-818.9 person/km
- 2009-1287.3 person/km
- 1991-927.2 person/km
- 1981-893.5 person/km



POPULATION



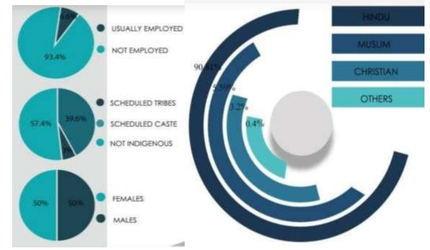
SEX RATIO



LITERARCY RATIO

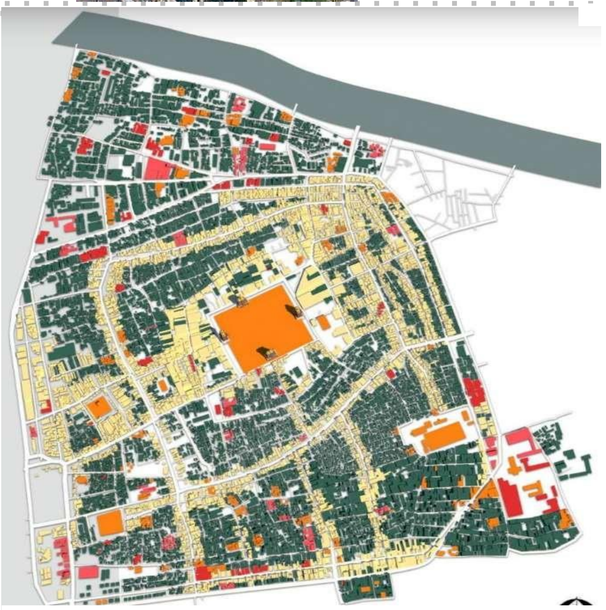
Growth Of population

The total population here was about 2.58 lakh. The female population growth rate of the district is 18.6%which is 1.5% higher than the male population growth rate of 17.1%. The general caste population has increased by16.4%; the Schedule caste population has increased by26.5%; the Schedule Tribe population has increased by 85.8% and the child population has increasedby6.3% in



Population density

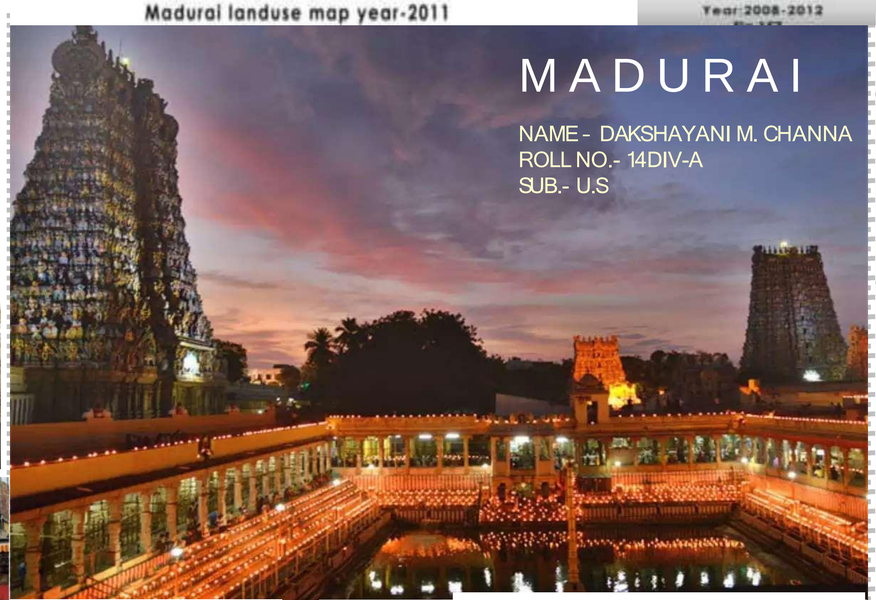
The population density of Madurai is 823 persons per square kilometer. The decrease in the population growth rate somewhere around 1981 and 2001 was because of the bifurcation of the Madurai area into Madurai and Dindigul in 1984 and subsequently part of Madurai into the Theni region in 1997. The intensified yearly population growth rate dropped from 4.10% in 1971-81 to 1.27% from 1991-2004. Currently. Madurai has a population growth rate of 17.84% and the number of people living in the city is growing.



Residence
Religious/ heritage
Public spaces/ semi public
Institutional
commercial
Open space/road



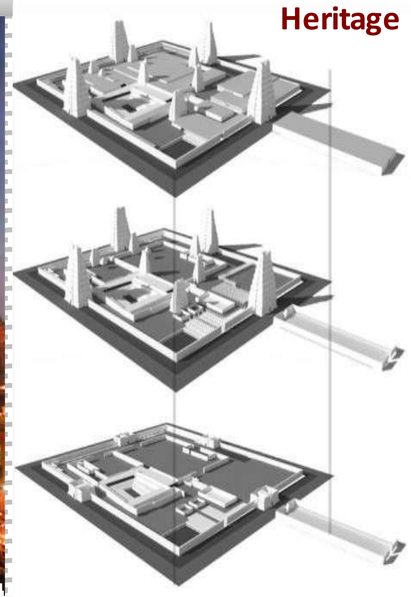




MADURAI

NAME - DAKSHAYANI M. CHANNA
ROLL NO.- 14DIV-A
SUB.- U.S

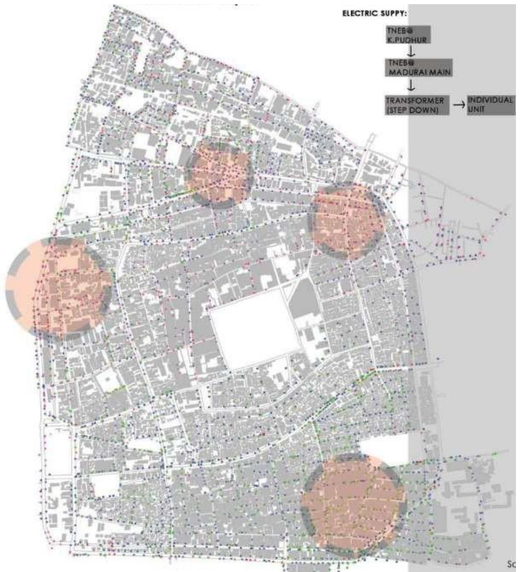
Heritage



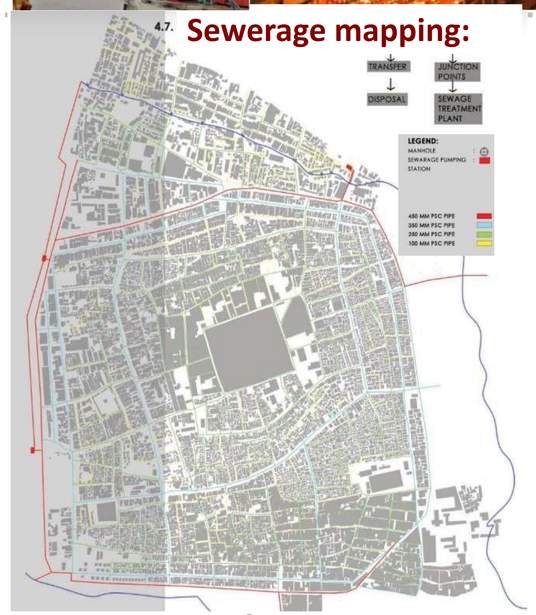




Electrical layout:



Sewerage mapping:



City bus service



4th Year B.Arch 2022-2023

URBAN STUDIES I

Know your City

Sinhgad College of Architecture, Pune

SITE LOCATION

The site is adjacent to the Mutha river, near the Z bridge, Pune.
It's around 1 km away from Fergusson College and Shivaji Nagar.







WHY THIS SITE?

- The site has colleges in the vicinity so the that user group could be targeted through this project.
- The site has Omkareshwar temple constructions.
- Has two metro station project under
- Has great potential for development.

ISSUE IDENTIFICATION:



Animals like buffalos, stray dogs, etc. are roaming along the bank resulting in unhygienic conditions in the area.



The existing steps leading towards the river on both sides are not in proper condition making them least used for sitting purposes in the evenings.



No traffic control leading to accidents

Poor condition of temple due to lack of supervision.





DEVELOPMENT STRATEGIES

Improving the current conditions would add value to the space and help bring a positive outlook about riverfront development in Pune. Such initiatives would contribute to the socio- economic growth of the city.

SUGGESTIONS:

- Defining the pathways and segregating them as per activities.
- Rethinking the current parking and developing the entrance to eliminate the current safety issues.
- Allotment for a special area for animals and defining their circulation pattern.
- Providing a connecting staircase to the above metro station- to invite people into the space.

DESIGN GUIDELINES:

In order to make this space socially interactive, a few guidelines could be proposed. This would increase the footfall in the area contributing to the communal and economic growth.



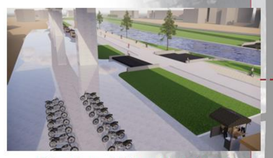
Defined cycling and walking tracks to avoid commotion.



Open gyms to aid and improve exercise.



Lawn and landscape along the pathway to add to the aesthetic as well as improving the micro-climate.



Relocation and allotment of disciplined parking space.



Pathway for all- including universal access.





Temporary food kiosks with seating spaces.

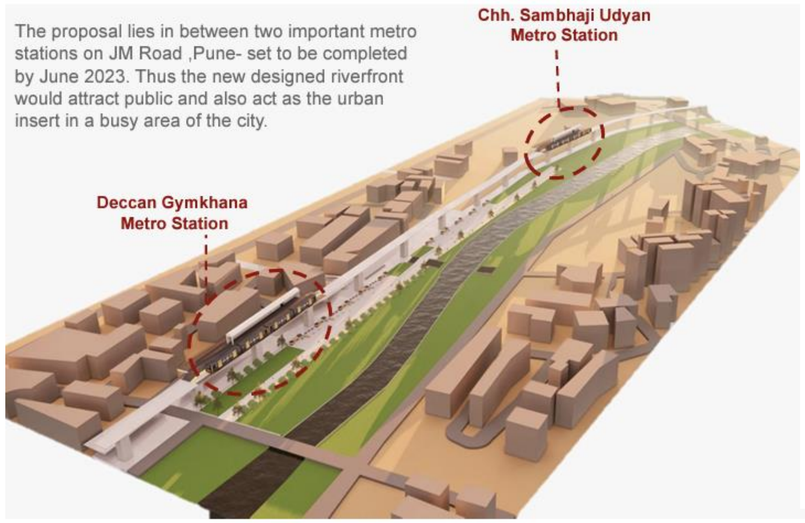


Development of existing stairs to preserve its value.



Provision of amphitheatre that would act as gathering and cultural space for the youth.

The proposal lies in between two important metro stations on JM Road ,Pune- set to be completed by June 2023. Thus the new designed riverfront would attract public and also act as the urban insert in a busy area of the city.



CURRENT URBAN ISSUES ABOUT RIVERFRONT DEVELOPMENT IN INDIA

1. **Punekars largely unimpressed by the ambitious River Front Development Project worth Rs 1450 Cr, here's why**



Pune's River Rejuvenation Project is aimed to be completed by 2025.
Photo : Mirror Now Bureau

Pune: Recently, Jal Shakti Minister Gajendra Shekhawat had declared that Pune's *River Rejuvenation Project* is aimed to be completed by 2025. The government also claim that the 44-km-long *River Front Development Project* will help to clean the Mula-Mutha rivers, and will develop the river banks to build creative public spaces.

2. **Explained: What is 'Arth Ganga', the govt's new model for the river's sustainable development?**



Boats docked along the banks of the Ganga river after a rise in the water level of the river following monsoon rains, at Sangam in Prayagraj, Saturday, Aug. 20, 2022. (PTI Photo)

PM Modi first introduced the concept during the first National Ganga Council meeting in Kanpur in 2019, where he urged for a shift from Namami Gange, the Union Government's flagship project to clean the Ganga, to the model of Arth Ganga. The latter focuses on the sustainable development of the Ganga and its surrounding areas, by focusing on economic activities related to the river.

4th Year B.Arch 2022-2023

URBAN STUDIES II

Identification of Urban Issues
Mula Mutha River

Student : Pranav S, Apurva P , Manaswi T, Prajakta S, Nirantari S
Faculty: Ar. Sejal Desarda, Ar. Manali Chandan

Sinhgad College of Architecture, Pune

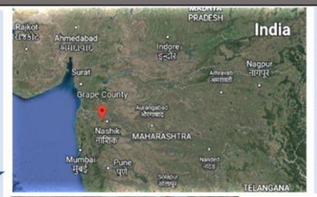
GRAPE COUNTY RESORT

KAMBALA I NASHIK I
19°57'36"N 73°36'54"

SVA GRIHA RATING - 5 STAR

ARCHITECT
Ar. Sanjay Patil
Ar. Shabbir Unwala

CLIMATIC CONDITION
The wet season is oppressive, windy, and overcast; the dry season is mostly clear; and it is hot year



Installation of **solar photo-voltaic system** of capacity 30 kw (more than minimum threshold limit as prescribed in SVAGRIHA i.e. More than 2.5 kw for this project).

Energy efficiency





Non-habitable spaces at an eastern side to get maximum light

Site area 21,433 sq.m

Built up area 1,475 sq.m

11 sky rooms 7 tents

Protection of 50 native trees - planted 538 new native trees – planted 6,437 shrubs

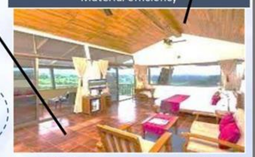
Waste efficiency



•Provision of vermi-composting pits on site to treat 30 cu.m. organic waste generated from site.

Refurbished wood for internal layer of roof

Material efficiency



Low energy Ceramic tiles

Rough shahabad , natural kota stone

Fibre cement boards for roof

Godhra bricks for west facing walls

Basalt stone for southern walls



Conservation of natural flora using 6 x 6 m grid paved by softscape & trees

Reduced urban heat land effect.

Water efficiency

sprinklers

Drip irrigation system



Only native & naturalized trees

Low-flow plumbing fixtures & aerators

No external water supply like local planning authority

CASE STUDY OF GREEN BUILDING

STE'S
SINHGAD COLLEGE OF ARCHITECTURE,PUNE
SUBJECT – ELECTIVE III DIV – 'C'

NAME SIGN STAMP
VAIBHAVI PAWAR
SAKSHI TAKAWALE

PMRDA

PIMPARI CHINCHWAD I PUNE I

DATE OF VISIT - 24/08/2022
TIME – 11:30 AM – 1:00 PM

OBJECTIVE - A VISIT TO PMRDA WAS ORGANISED TO DO A LIVE STUDY OF **GREEN BUILDING .**



ABOUT

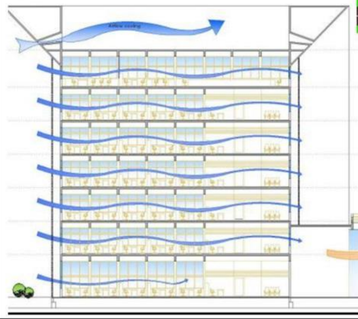
YEAR – 2013 TYPOLOGY – COMMERCIAL
HEIGHT – MID-RISE FLOORS - 7

GREEN BUILDING RATING SYSTEM - GRIHA CERTIFICATION- 5 STAR

CLIENT : PIMPRI-CHINCHWAD NEW TOWN DEVELOPMENT AUTHORITY
ARCHITECTS AND PMC: LANDMARK DESIGN GROUP
ELECTRICAL CONSULTANTS: FEDERAL ENGINEERING
PLUMBING AND SANITATION AND FIRE-SAFETY CONSULTANTS: MCCE
ENVIRONMENT AND ENERGY AUDIT: TERI
STRUCTURAL CONSULTANTS: GENSYS TECHNOLOGIES
LANDSCAPE ARCHITECTS: KSHITIJA KOLHATKAR
CONTRACTOR: VMM INFRASTRUCTURES PVT LTD

SPECIAL FEATURES

- **SEWAGE TREATMENT PLANT (STP)** HAS BEEN INSTALLED - TREATMENT OF WASTE WATER - USED FOR LANDSCAPING PURPOSES.
- **LOW FLOW WATER FIXTURES** - TO MINIMIZE THE WATER WASTAGE.
- MORE THAN 60% OF THE FURNISHED INTERIORS - **LOW ENERGY MATERIALS.**
- ENERGY EFFICIENT ARTIFICIAL LIGHTING SYSTEM, - **LED'S AND TUBULAR FLUORESCENT LAMPS**
- **MORE THAN 50% OF THE ANNUAL WATER DEMAND** - ACHIEVED THROUGH RAIN WATER HARVESTING.
- **MORE THAN 60%** OF THE BUILDING **SPACES** - ARE DAY LIT.



DESIGN APPROACH

1.EACH FLOOR CONSISTS OF OFFICE SPACES, MEETING ROOMS, CONFERENCE ROOMS ETC.



2.BUILDING IS PROPERLY ORIENTED TO AVOID THE EXCESS HEAT GAIN IN THE BUILDING.



PASSIVE STRATEGIES

THE BUILDING HAS BEEN DESIGNED FOR NATURAL VENTILATION, WITH PROPER ARRANGEMENT OF WINDOWS TO ENHANCE CROSS VENTILATION IN THE BUILDING. ALMOST 95% OF THE BUILDING AREA IS NON-AIR CONDITIONED FOR 1 AIR CHANGES PER HOUR.

3.THE EXTERNAL WALLS OF THE BUILDING COMPRISES OF FLY ASH BLOCKS WHICH UTILIZES RECYCLED MATERIAL.



4.TO REDUCE THE SOLAR GAINS THROUGH WINDOWS, EXTERNAL SHADING ELEMENTS IN THE FORM OF OVERHANGS, AND HIGH PERFORMANCE DOUBLE GLAZED WINDOWS HAVE BEEN PROVIDED IN THE BUILDING



Light shelf for enhancing daylight



SIGN 1 | SIGN 2 | STAMP

STE'S
SINHGAD COLLEGE OF ARCHITECTURE, VADGAON, PUNE.
NAME :- VAIBHAVI PAWAR ROLL NO:- 13
SUBJECT :- ELECTIVE III
SEMESTER :- VII DIV :- 'C'

Introduction:

- The subject of Electives has been introduced in syllabus with specific intention of study of a particular subject of student's liking in greater detail but in the larger context of overall scope of Architecture syllabus at undergraduate level.
- This will give students an opportunity to develop their skills in a subject they may opt,to make their career in future.
- To acquire knowledge on various Green Building Rating systems, General Awareness on ECBC, environmental legislation and so on..

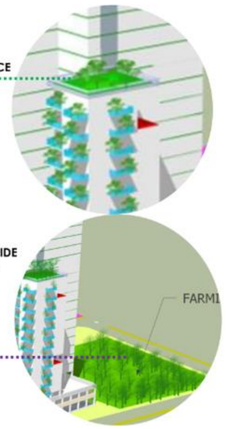
The assignments conducted :

1. Tutorials based on each unit.
2. Implement a case study of a thesis project that is a certified green building (IGBC, LEED, or GRIHA Certified).
3. IGBC rating system evaluation and documentation for your project.

Credit	Heading	Intent	Points Available	Points Attempted
ID Credit 1	Exemplary Performance	Provide design teams and projects an opportunity to be awarded points for innovative performance in green building categories not specifically addressed by the IGBC Green Homes® Rating System.	2	2

Compliance:





Producing or growing food in a city or area with high residents makes them self sustainable by producing their own food at some extent. It agricultural practices in urban area. It increases the availability of food for people in need or in unpredictable circumstances like 2019's covid pandemic situation . Also it supports and make efficient use of unused land and space.

PMRDA

PIMPARI CHINCHWAD I PUNE I

BENEFITS OF INCORPORATING GREEN BUILDING STRATEGIES –

- SOLAR SYSTEM HAS INSTALLED IN PMRDA WHICH CONNECTS TO THE MSEDCL'S POWER GRID



- THE PROJECT HAS BEEN DEVELOPED IN ACCORDANCE WITH GREEN BUILDING NORMS.
- THE BUILDING INCURS MINIMAL NEED OF USE OF ELECTRICITY FOR LIGHTING PURPOSE.
- IT HAS SOLAR PANELS INSTALLED AT VARIOUS POINTS IN ITS PREMISES.
- CUMULATIVE POWER GENERATION CAPACITY OF THIS PROJECT IS 140 KW.
- HALF OF THE POWER FOR LIFTS AND AIR CONDITIONERS IS GENERATED THROUGH SOLAR PANELS.

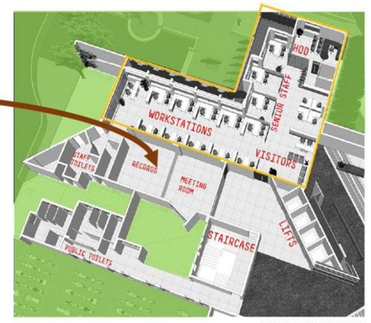
THE ENERGY FOOTPRINT IS SO LOW THAT THE ENTIRE BUILDING OF NEARLY 1.4 LAKH SQFT IS RUN ENTIRELY ON AN ONLINE 100 KW SOLAR PV SYSTEM.

- CURRENTLY, ONLY ONE WING OF THE BUILDING IS OCCUPIED BY PCNTDA OFFICE. HENCE, DURING SUMMERS, THE POWER GENERATED BY THE PROJECT IS SUFFICIENT FOR THE BUILDING.
- BEFORE CONNECTING THIS SYSTEM TO THE POWER GRID, THE PCNTDA USED TO PAY RS 2.75 LAKH TO 3 LAKH AS MONTHLY ELECTRICITY BILLS.

HOWEVER, AFTER CONNECTING TO THE POWER GRID, THE BILLS HAVE REDUCED TO RS. 10,000 TO 15,000.



TYPICAL FLOOR PLAN



TYPICAL DEPARTMENT MODULE

SIGN 1 | SIGN 2 | STAMP

STE'S
SINHGAD COLLEGE OF ARCHITECTURE, VADGAON, PUNE.
NAME :- VAIBHAVI PAWAR ROLL NO:- 13
SUBJECT :- ELECTIVE III
SEMESTER :- VII DIV :- 'C'

4th Year B.Arch 2022-2023

Elective- III (Green Building)

Sinhgad College of Architecture, Pune

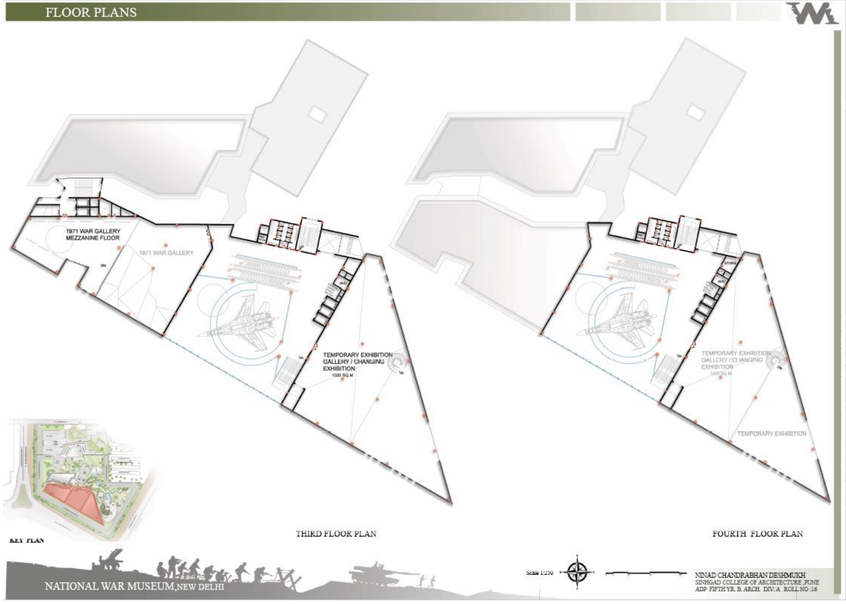
FLOOR PLANS



NATIONAL WAR MUSEUM,NEW DELHI

NINAD CHANDRABHAN DESHMUKH
SINHGAD COLLEGE OF ARCHITECTURE ,PUNE
ADP FIFTH YR. B.ARCH. DIV:A ROLL NO :16

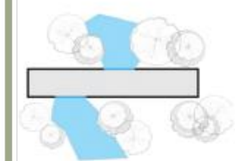
FLOOR PLANS



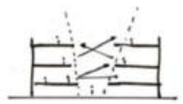
NATIONAL WAR MUSEUM,NEW DELHI

NINAD CHANDRABHAN DESHMUKH
SINHGAD COLLEGE OF ARCHITECTURE ,PUNE
ADP FIFTH YR. B.ARCH. DIV:A ROLL NO :16

d surprise the routes to connect the main blocks the unsettling nature of war.



Punctuating the gallery tubes to connect to the surrounding courtyards and converting linear introvert spaces to engaging extrovert spaces and depicting peace by connecting with nature.



Atrium: Provides visual connection between spaces.



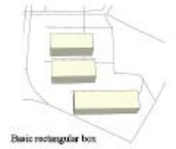
Atrium: Capped to trap heat in the extremely cold weather of Delhi



Courtyards: Allows Visual connection, Wind Flow



Concepr development



Basic rectangular box



Abstract the boxes , emptal stream

Cut the hall corner for achieving the sliced cone free outer side its Architecturally indicating the ponted of nature of war the war.

SITE PLAN

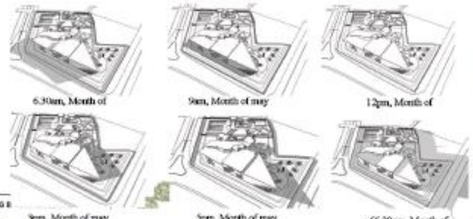


NATIONAL WAR MUSEUM,NEW DELHI

AREA CALCULATION

PLOT AREA : 26500 SQ.M
TOTAL BUILTUP : 13500 SQ.M.
FSI : 1:2

SHADOW ANALYSIS



EXISTING BARACK BUILDING
ENCHROCHMENT AREA
EXISTING BARACK BUILDING



Site entry



Entry plaza



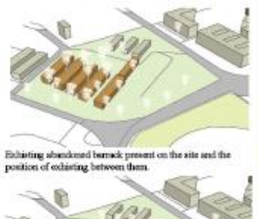
Outdoor spaces



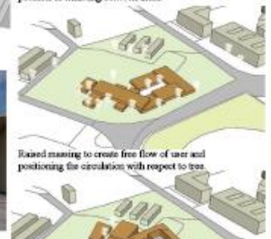
Top view

Scale 1:400

FORM DEVELOPMENT



Existing abandoned barrack present on the site and the position of exhisting between them.



Raised massing to create free flow of user and positioning the circulation with respect to tree



Integrating the functions according to user flow and to create a active socio cultural environment.



Orienting the seprate blocks around trees and axis to to circle road and create a conceptual form of massing.



Create three gallery wings n central atrium space seprate entry plaza to create dynamic space for the visitors with respect to tree.



Final form function and connecting spaces through green pocket with conceptual triangle form according to types of user circulation.



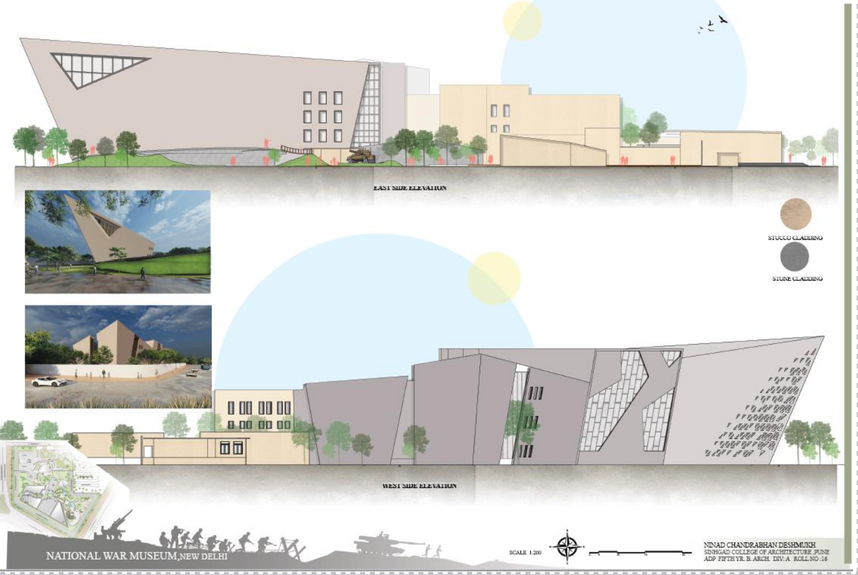
5th Year B.Arch (A) TERM II 2022-2023

ARCHITECTURAL DESIGN PROJECT

National War Museum, New Delhi

Sinhgad College of Architecture, Pune

ELEVATIONS

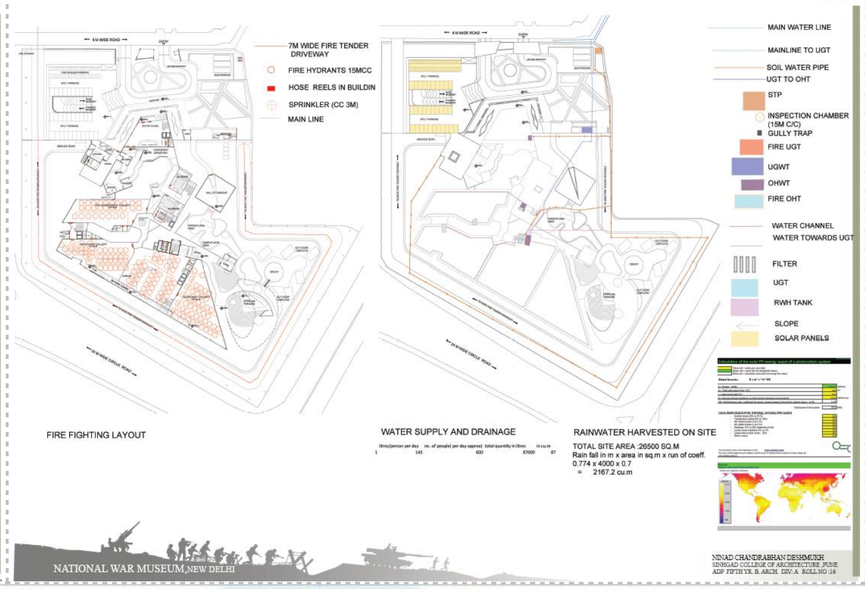


NATIONAL WAR MUSEUM,NEW DELHI

SCALE 1:200

NINAD CHANDRABHAN DESHMUKH
SINHGAD COLLEGE OF ARCHITECTURE ,PUNE
ADP FIFTH YR. B.ARCH. DIV:A ROLL NO :16

SERVICES



NATIONAL WAR MUSEUM,NEW DELHI

NINAD CHANDRABHAN DESHMUKH
SINHGAD COLLEGE OF ARCHITECTURE ,PUNE
ADP FIFTH YR. B.ARCH. DIV:A ROLL NO :16

LIGHTING LAYOUT



NATIONAL WAR MUSEUM,NEW DELHI

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SINHGAD COLLEGE OF ARCHITECTURE ,PUNE
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ELEVATIONS





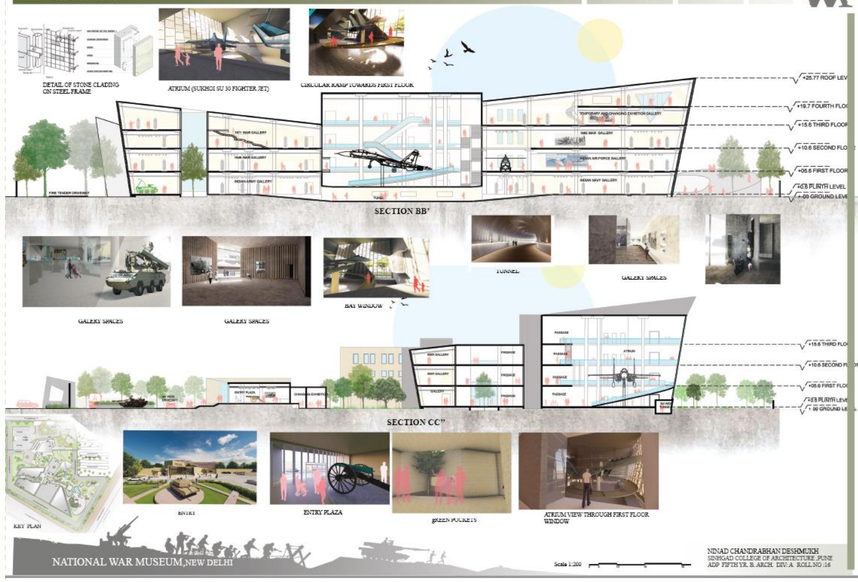


NATIONAL WAR MUSEUM,NEW DELHI

SCALE 1:200

NINAD CHANDRABHAN DESHMUKH
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SECTIONS



NATIONAL WAR MUSEUM,NEW DELHI

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5th Year B.Arch (A) TERM II 2022-2023

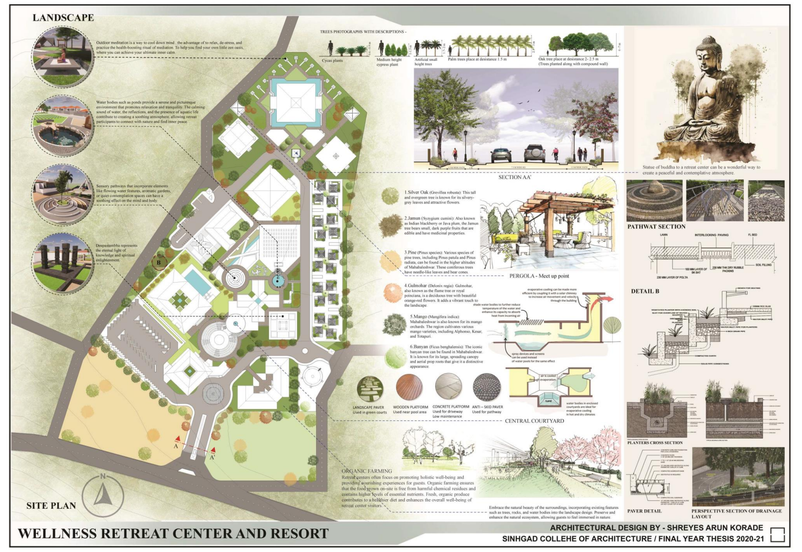
ARCHITECTURAL DESIGN PROJECT

National War Museum, New Delhi

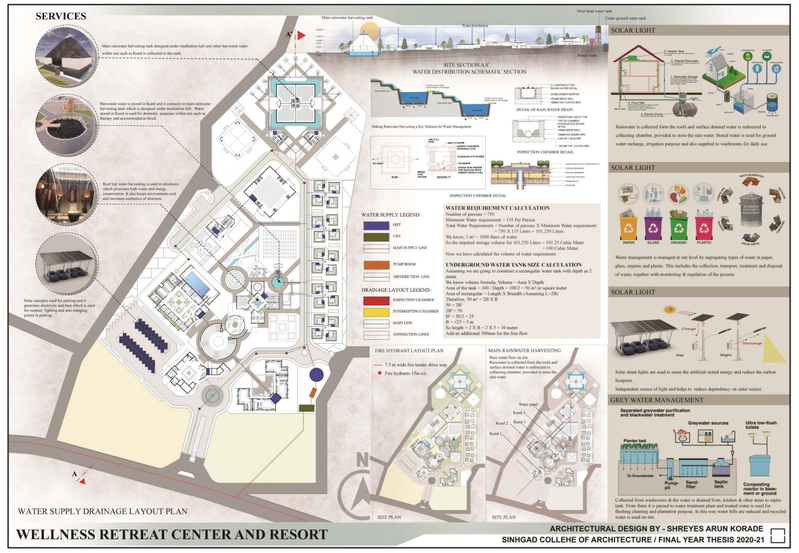
Sinhgad College of Architecture, Pune



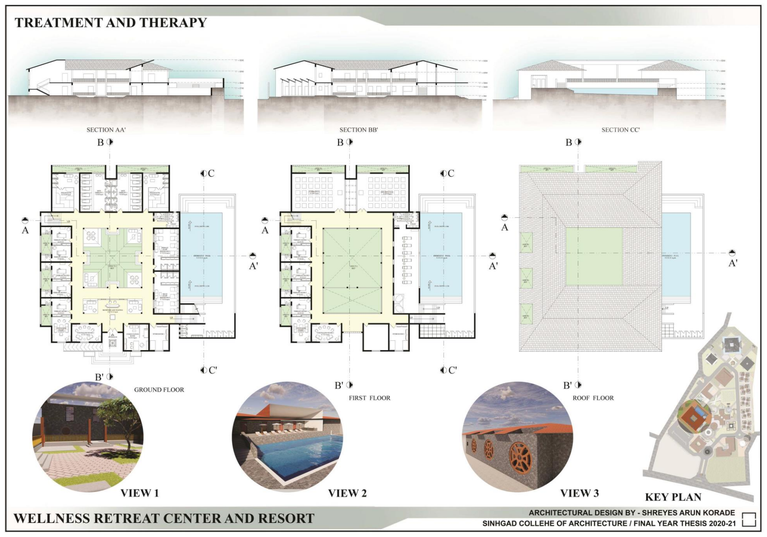
Master plan, Site plan and details



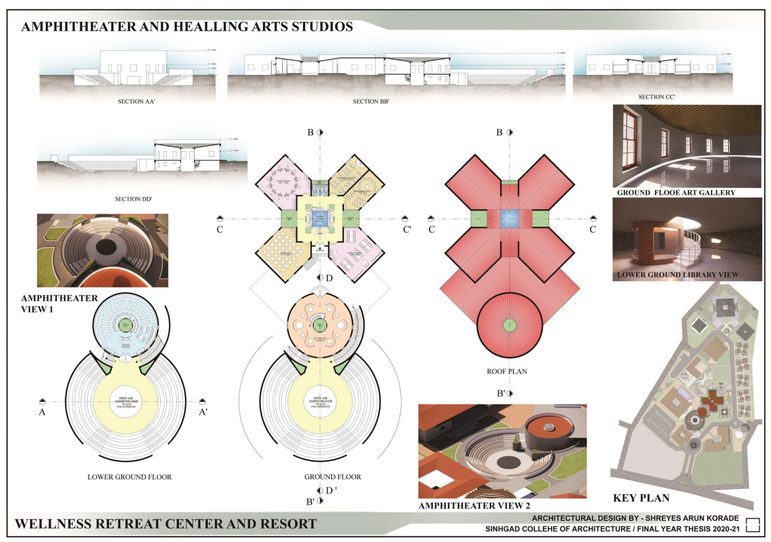
Landscape details



Services layout



Treatment and Therapy block



Amphitheatre and Healing block

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ARCHITECTURAL DESIGN PROJECT

WELLNESS CENTER AT GUREGHAR

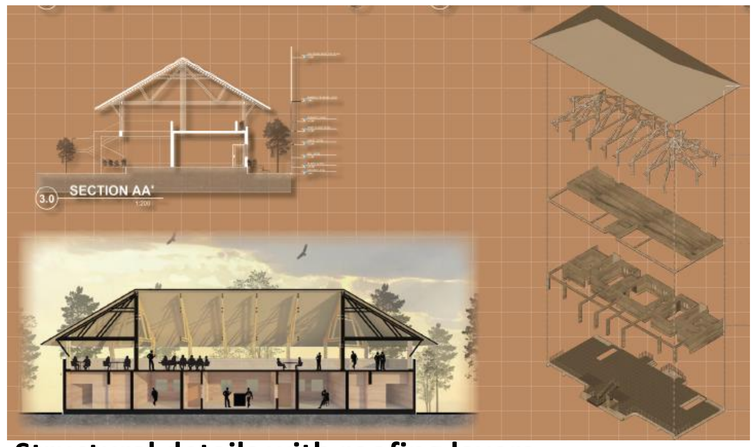
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View of the site and the partial views of the structures



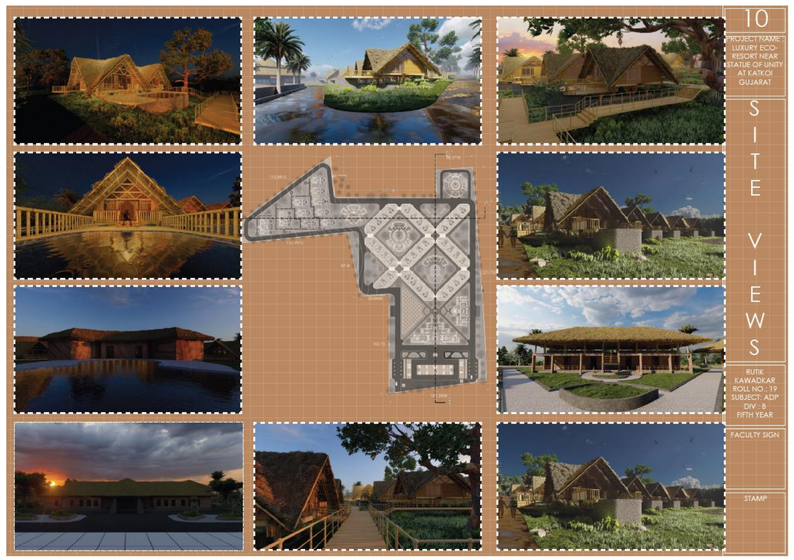
Site plan



Structural details with roofing layers



Building details



Site views

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ARCHITECTURAL DESIGN PROJECT

ECO RESORT AT GUJARAT

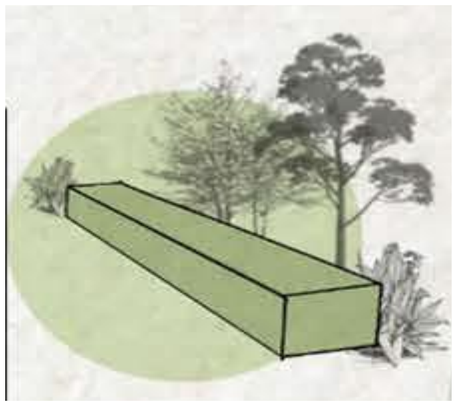
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SITE DEVELOPEMENT





SITE DEVELOPEMENT LAYERS







5th Year B.Arch (D) TERM II 2022-2023

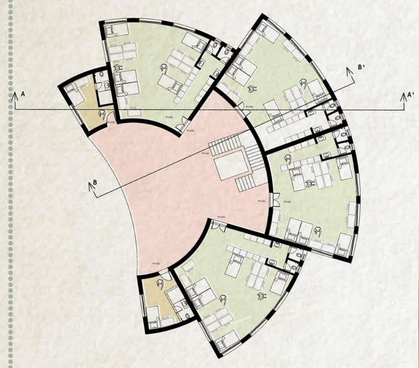
ARCHITECTURAL DESIGN PROJECT

Nirmiti, an alternative school in Nagpur

Sinhgad College of Architecture, Pune

RESIDENTIAL BLOCK

ALTERNATIVE UNCONVENTIONAL SCHOOL
HOSTEL BLOCK



GROUND FLOOR PLAN



VIEW



VIEW



SECTION AA'



SECTION BB'



ELEVATION A



VIEW



ELEVATION C



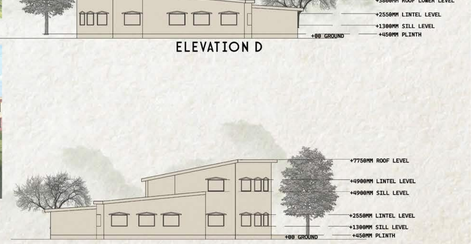
CONNECTED OPEN SPACE



ELEVATION D



HOSTEL PRIVATE GARDEN

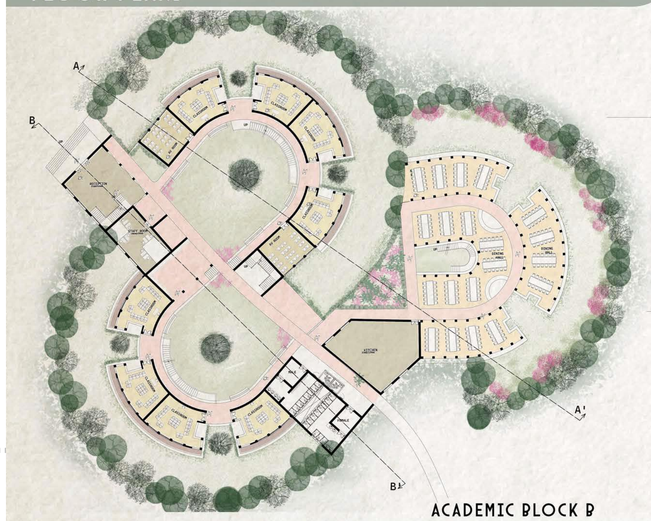


ELEVATION D



HOSTEL BLOCK

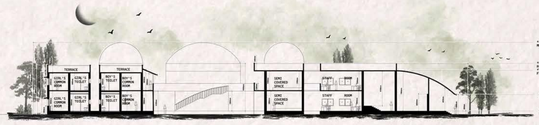
ALTERNATIVE UNCONVENTIONAL SCHOOL
FLOOR PLANS



ACADEMIC BLOCK B
(GROUND FLOOR PLAN)
SCALE 1:300



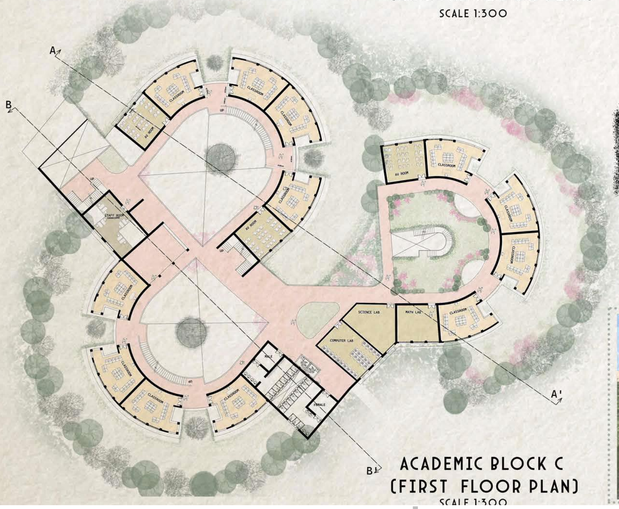
SECTION AA'



SECTION BB'



VIEW


A
A'
B
B'
STORE
KITCHEN
DINING
STAFF
WASH
CLASSROOM
STORE
WASH
CLASSROOM
STORE
WASH
CLASSROOM
STORE