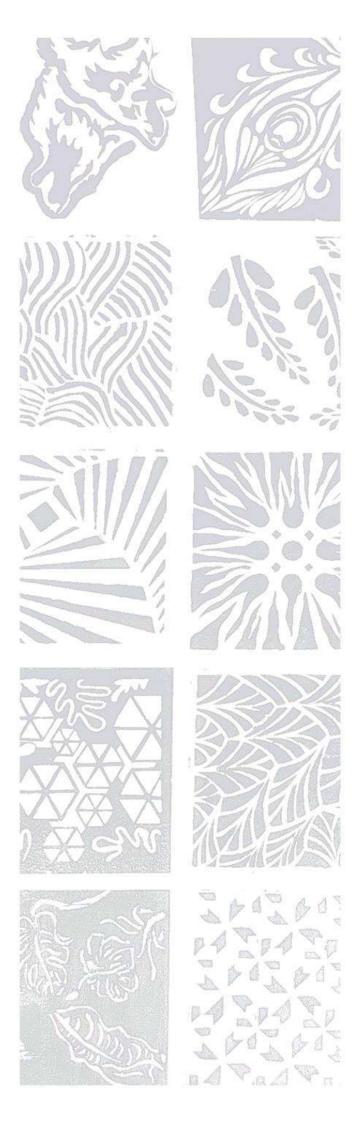


YOC 202-2023 DSCA DSCA



Semester S

Studio Coordinators

Semester 1: Bistro Design
The sites chosen for the bistro are:

Site A – Building Frontage

Architecture Block, Dayananda Sagar

Institutions, Bengaluru

Site area: 358 +81 sqm (including landscape)

Total capacity: 53 persons

Total Built-up-area (B.U.A): 165 sqm

Site B – Rock Garden

Dayananda Sagar Institutions, Bengaluru

Site area: 347 sqm

Total capacity: 65 persons

Total Built-up-area (B.U.A): 190 sam

Schedule of progress

- ➤ Briefing with regard to site and design requirements.
- ➤ Visit to site; necessary analysis and inferences.
- ➤ Live Case study Group work
- ➤ Literature Case study Group work
- ➤ Assimilation of literature/case study into maps and graphics
- ➤ Bubble diagram
- > Zoning
- ➤ Concept / Theme Exploring forms
- ➤ Single line plan
- ➤ Block Model
- ➤ Masterplan (+Roof plan), all floor plans with furniture layout
- ➤ Sections (2#)
- ➤ Elevations (4#)
- ➤ Detailed model
- > 3D views and details

21 ARC 11

ARCHITECTURAL DESIGN I

Ar. Chetan S Garalapur



Ar. Surabhi Moharir

Studio Faculty



Ar. Nikhil Ravindra



Ar. Shruthi A Murthy



Ar. Vani Krishnamurthy



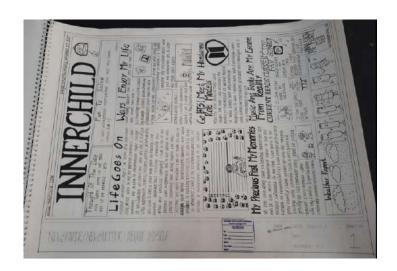
Ar. Gopi Krishna KV

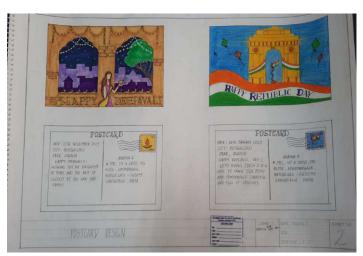


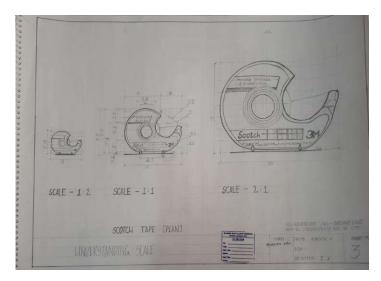
Ar. Chaitali Babar

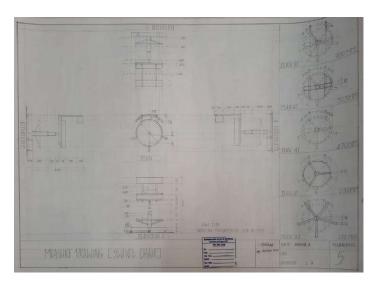
Architectural Design I Faculty: Ar. Nikhil Ravindra, Ar. Chetan S Garalapur, Ar. Shruthi A Murthy

Ananya A 1DC22AT009







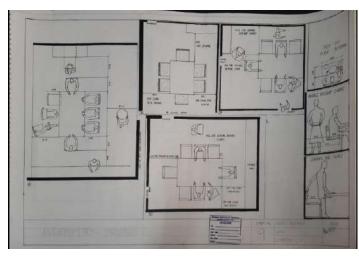


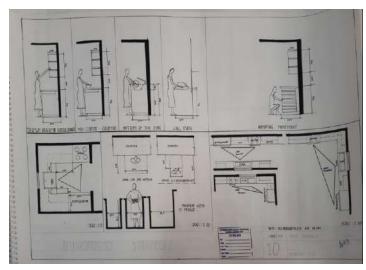


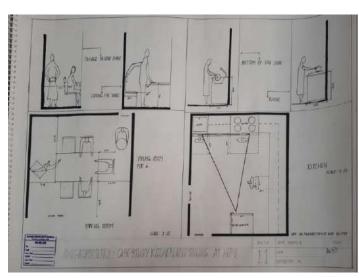


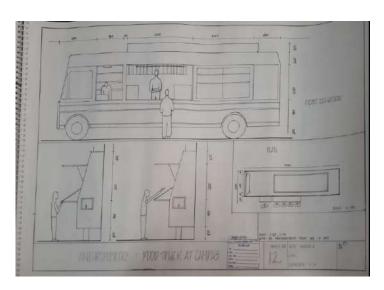
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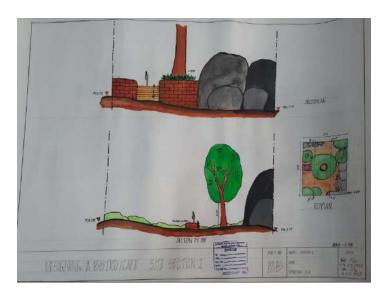


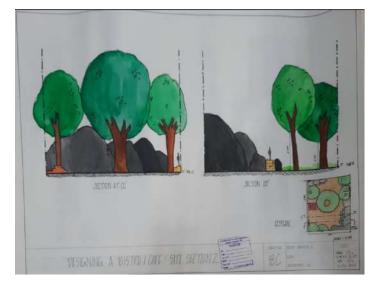


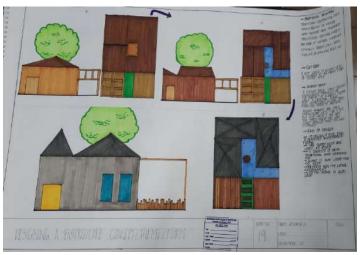










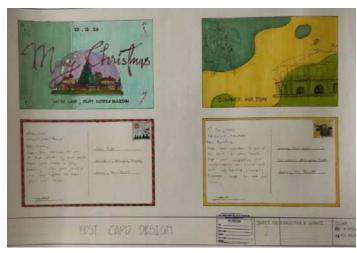




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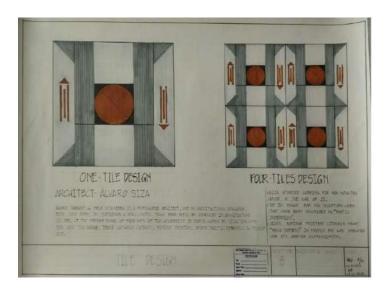
Baristha Bibav Gogoi 1DC22AT013

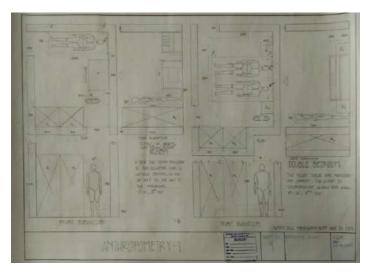




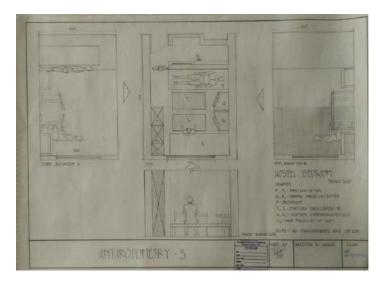


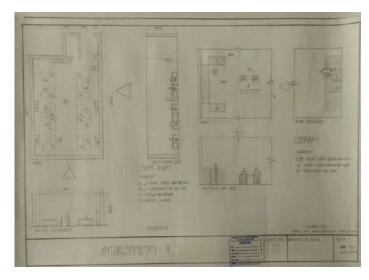


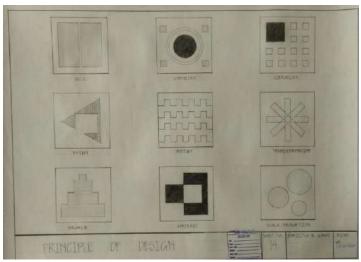


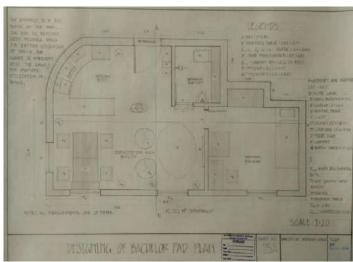


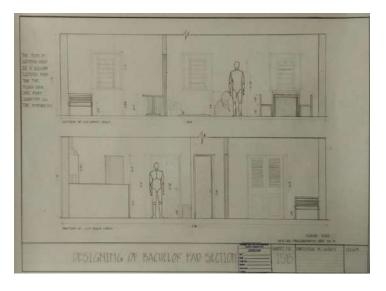
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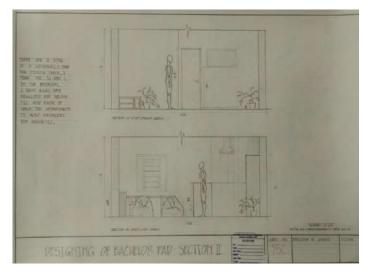


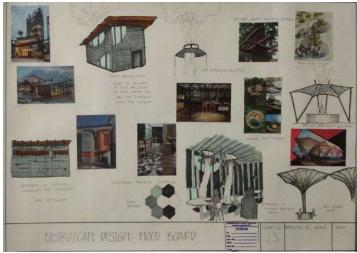






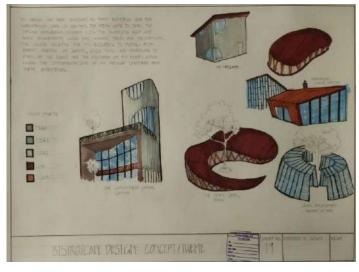




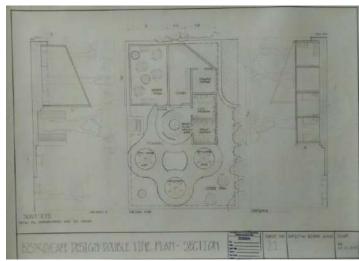


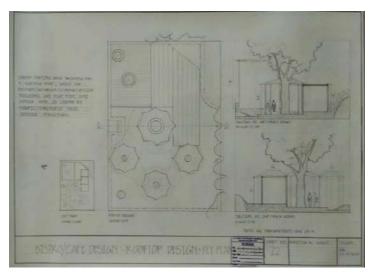










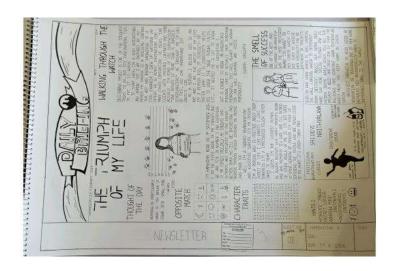


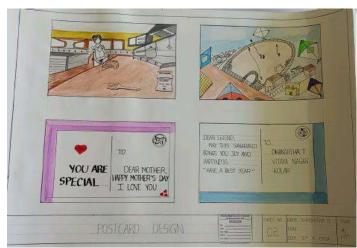


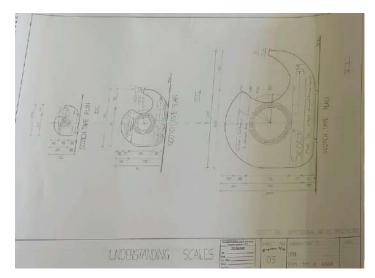


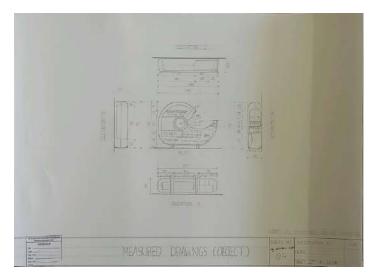
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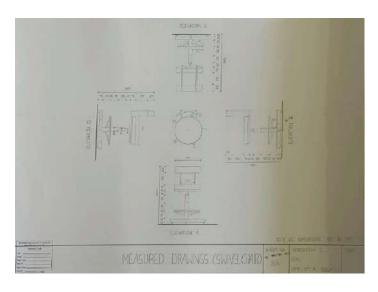
Harshitha S 1DC22AT026

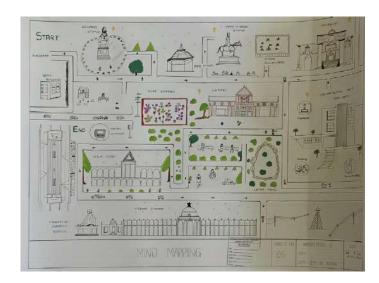




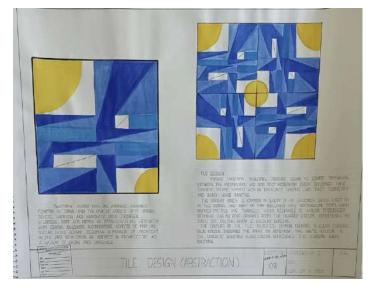


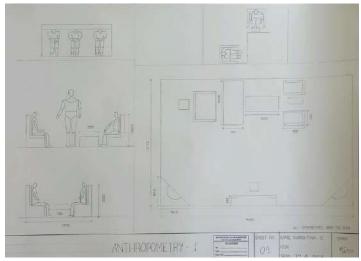


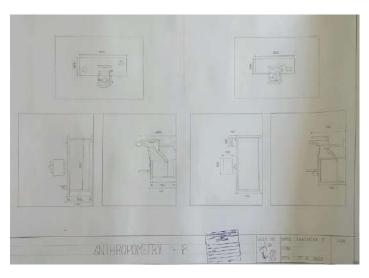


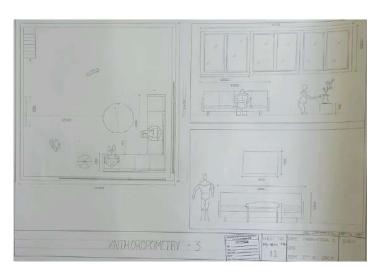


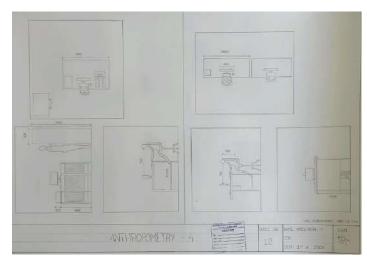


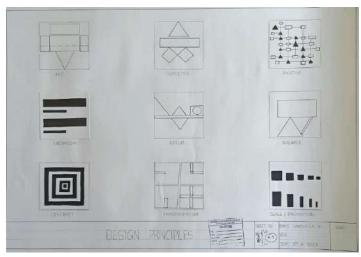




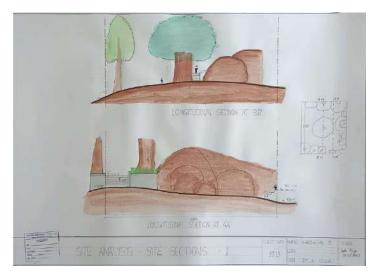


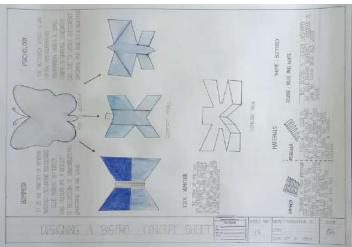


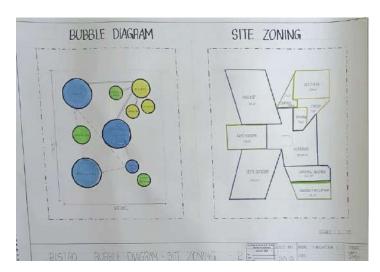


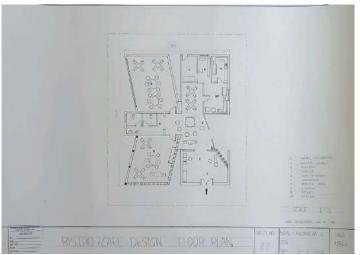


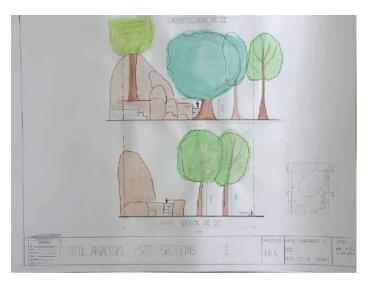


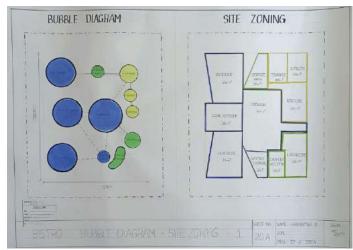


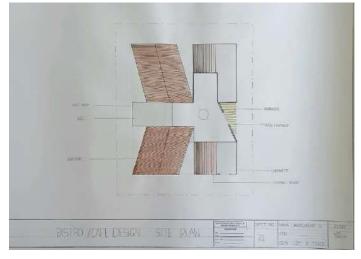










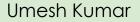




BASIC DESIGN AND VISUAL ARTS 21 ARC 15

Subject Faculty







Promod Stephen



Bhartesh GD

Course objectives:

- To encourage a critical orientation to design thinking and action.
- Develop observation skill in students towards design in various fields
- Appreciate art in various forms.
- Develop curiosity as how elements of design manifested in nature.

Definition of Art and role of Art in Society:

- Role and meaning of art, various types of arts-fine arts, performing arts, commercial arts, industrial arts, folk arts, abstract art, visual arts, spatial arts, temporal arts, pop art etc.
- Relationship of architecture with other arts like Painting and Sculpture.

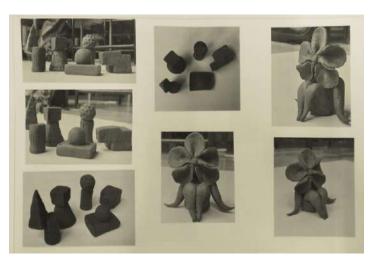
Principles of Composition:

- Elements of Design & Principles of Design.
- Principles of Aesthetics and Architectural Composition -1 - Unity, Balance, Proportion, Scale in Architectural composition.
- Illustrations and its application to the practice of design with historical as well as contemporary buildings.

Patterns

- Study of pattern: Natural, Manmade and Geometric patterns
- Recognizing patterns, analyzing ideas, synthesizing information, solving problems, and creating things involving the process of abstraction.
- Appreciation of use of patterns in design

Basic Design and Visual Arts Faculty: Artists Umesh K, Pramod Stephen, Bhartesh GD



Disha Konkankar 1DC22AT022



Kolagani Rajeshwari 1DC22AT030



Disha Konkankar 1DC22AT022



Disha Konkankar 1DC22AT022

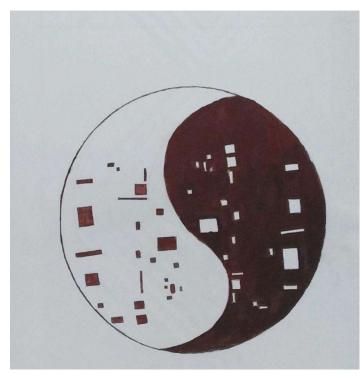


Wall Art by students of 1st semester

Basic Design and Visual Arts Faculty: Artists Umesh K, Pramod Stephen, Bhartesh GD



Nishchaya S. 1DC22AT044



Satwik S M 1DC22AT057



Ullas A H 1DC22AT077



Chaithra G 1DC22AT016





DSCA YEARBOOK 2022 - 23



Course objectives:

To introduce students to primary building materials and simple construction techniques as applicable to a low-rise building- three to four-storied contemporary building.

To develop an understanding of brick bonding, foundation details, external wall section with flat roof and parapet.

Materials and Methods in Building Construction 21 ARC 12 Subject Faculty



Ar. Vani Krishnamurthy



Ar. B.B. Prakash



Ar. Srimathi Raja



Ar. Pragathi Prassad S



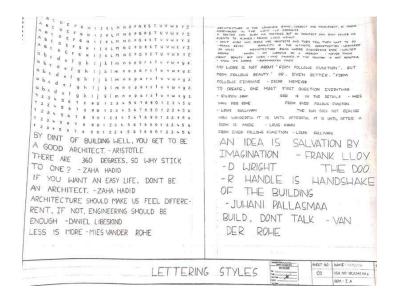
Ar. Ravindra Avinash

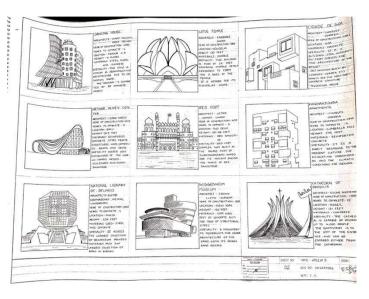


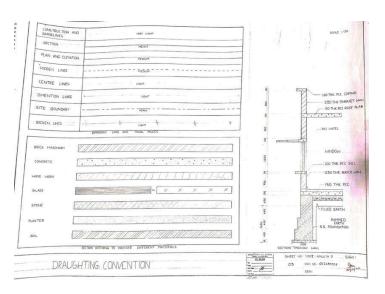
Ar. Chanchal Modi

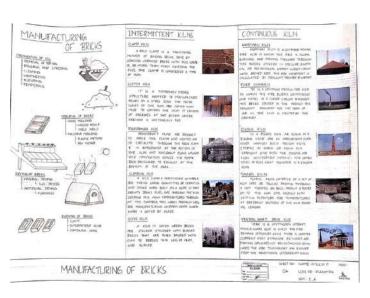
Methods and Materials in Building Construction - II Faculty: Ar. Vani Krishnamurthy, Ar. Srimathi Raja, Ar. Ravindra Avinash

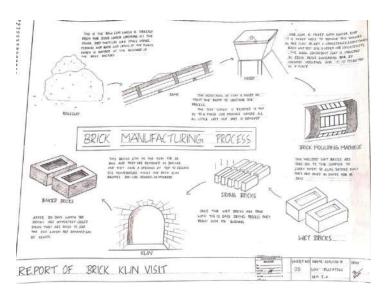
Amulya D 1DC22AT006

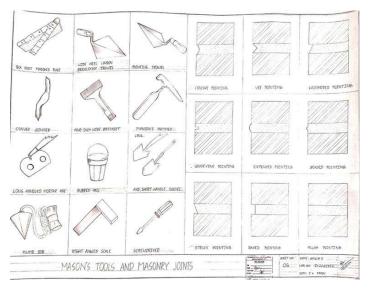


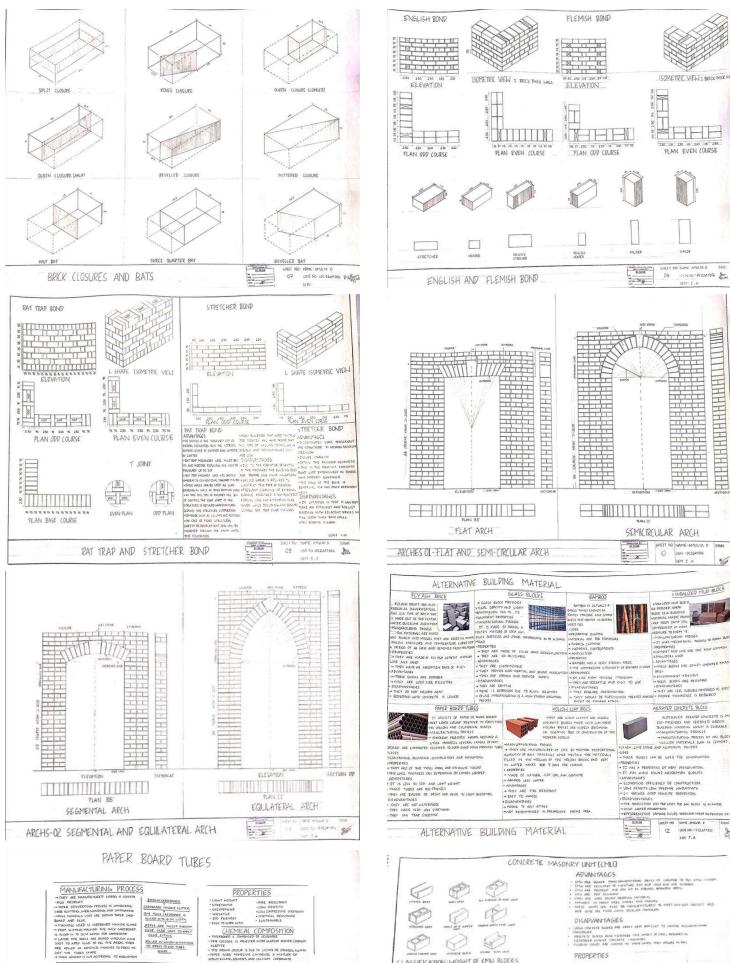














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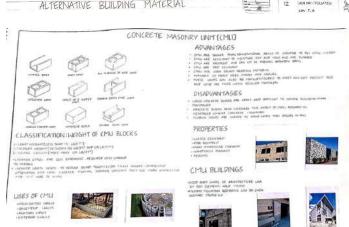
PAPER BOARD TUBE

ADVANTAGES

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LON COST

TOUGH AND MIRCT
RESETANT
- EASIER TO SENT
- LIGHT BLOCKING
- SUSTAINABLE AND
ECO FERENDLY

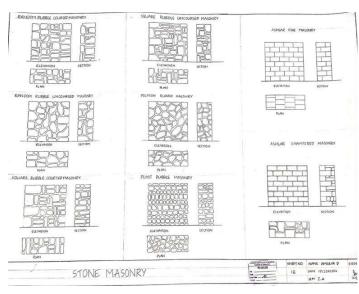
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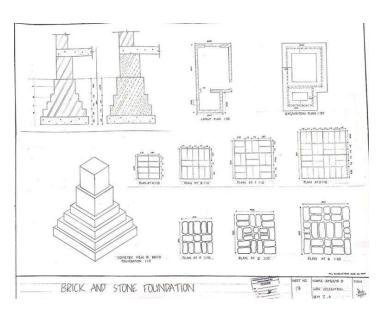


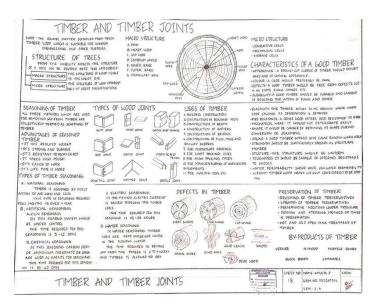
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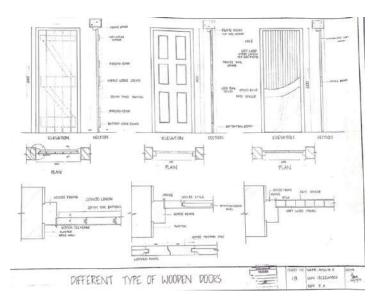
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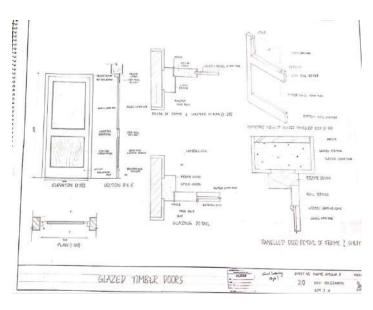






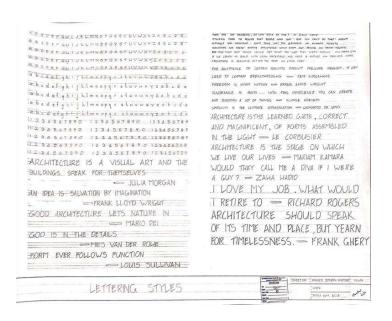


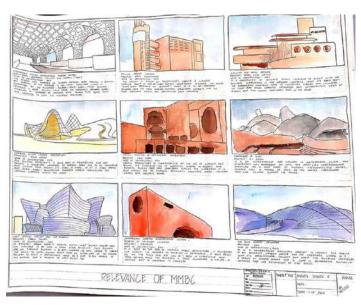


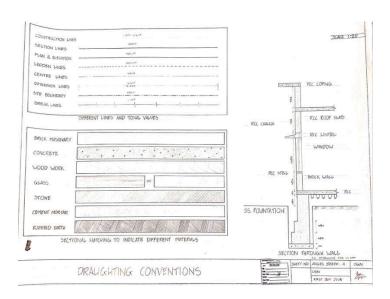


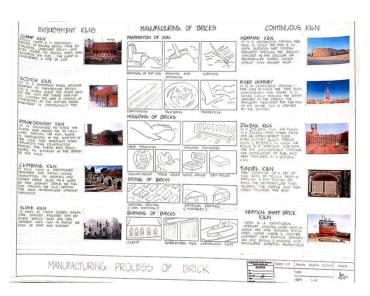
Methods and Materials in Building Construction - II Faculty: Ar. Vani Krishnamurthy, Ar. Srimathi Raja, Ar. Ravindra Avinash

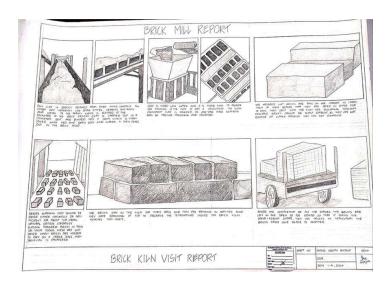
Anges Joseph Antony 1DC22AT010

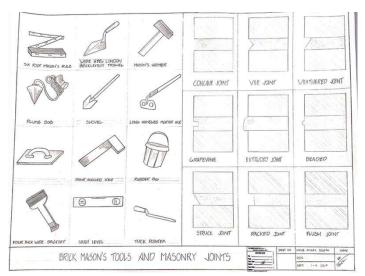


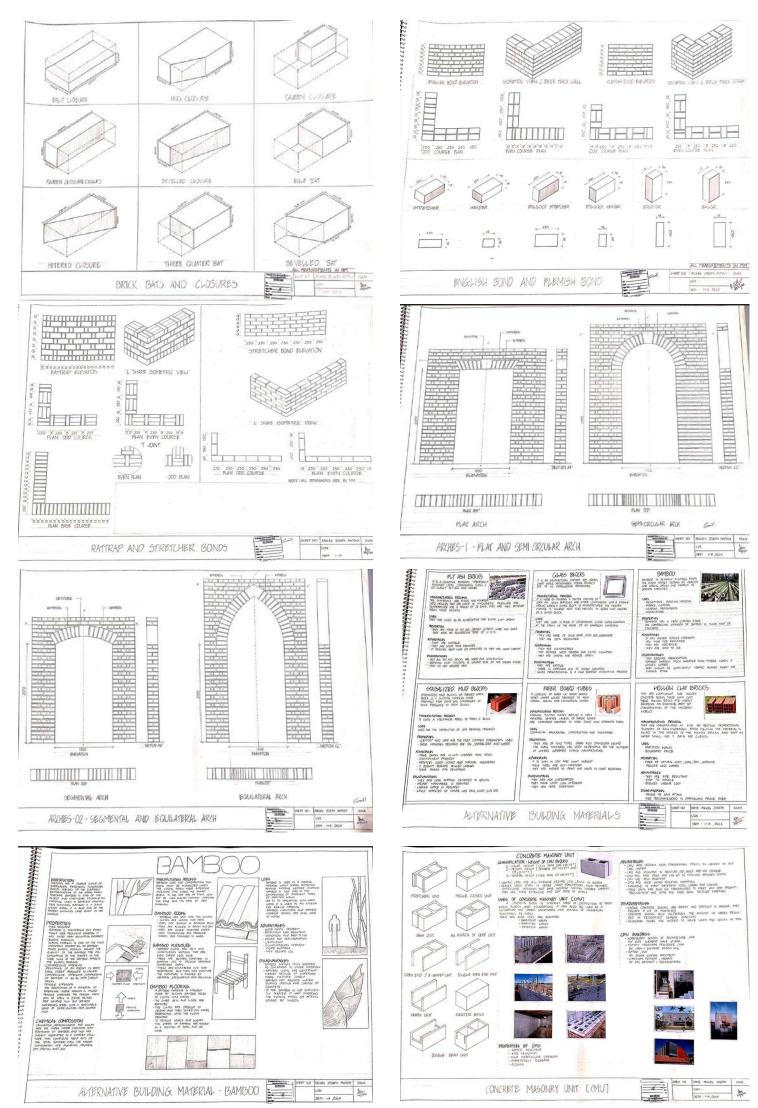


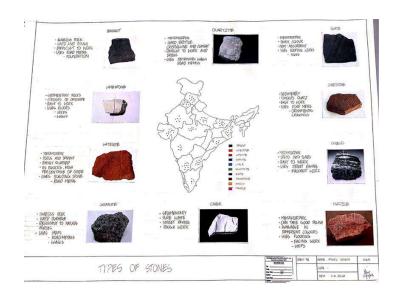


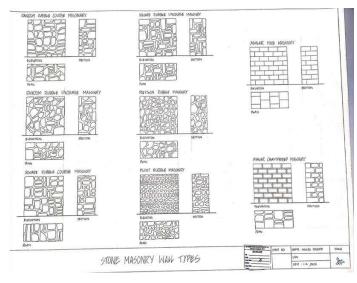


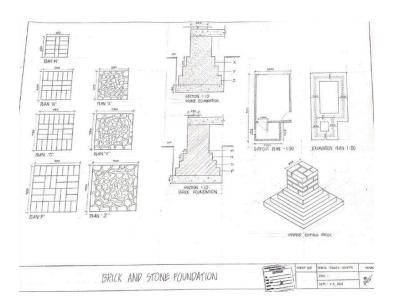


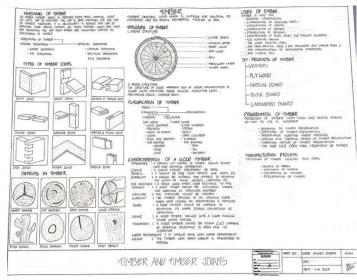


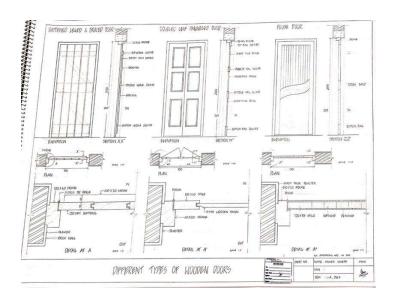


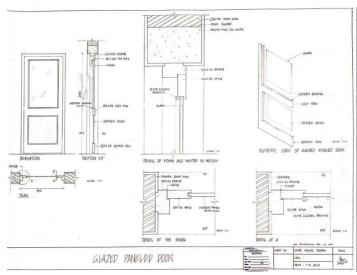






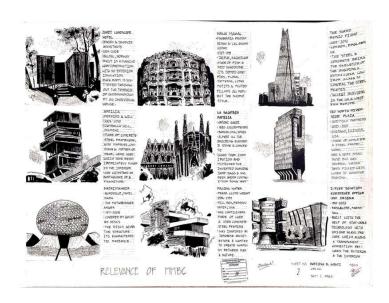


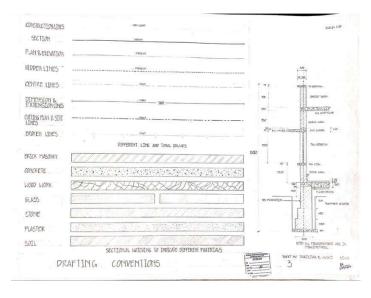


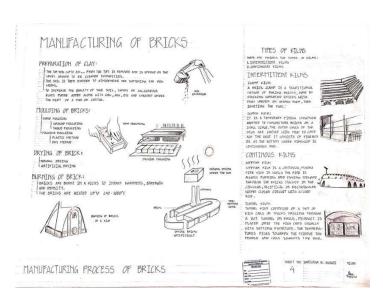


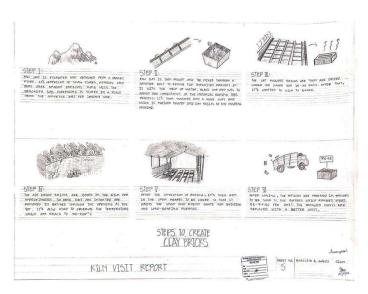
Methods and Materials in Building Construction - II Faculty: Ar. Vani Krishnamurthy, Ar. Srimathi Raja, Ar. Ravindra Avinash

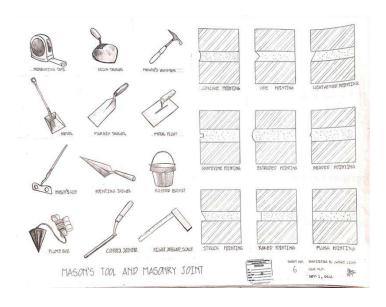
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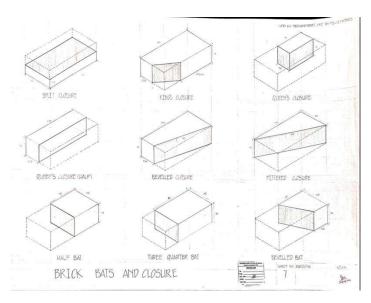


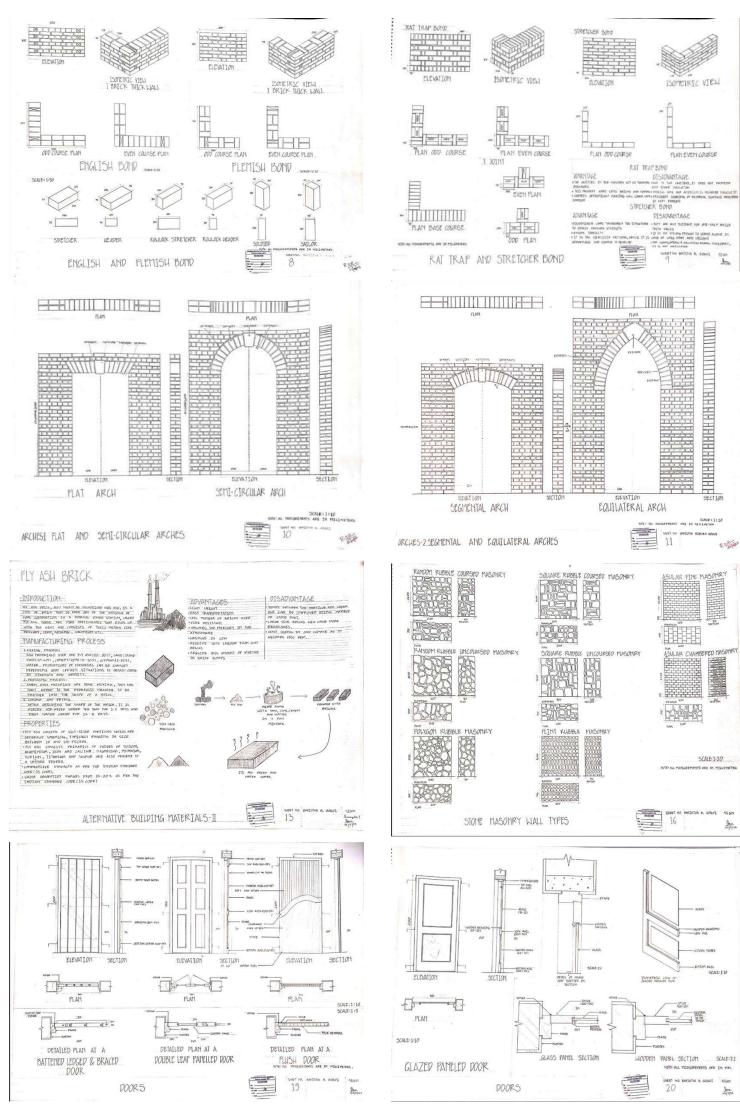






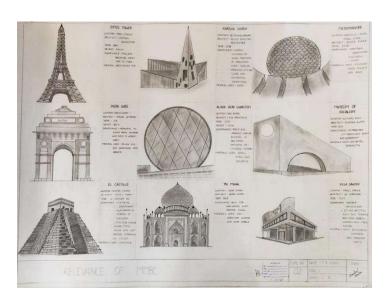


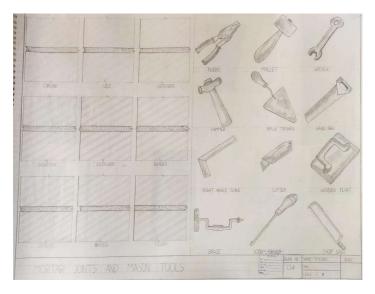


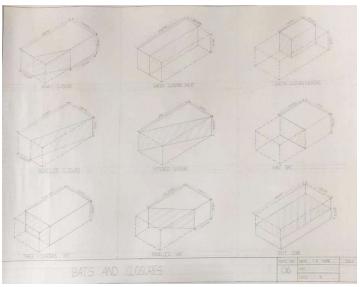


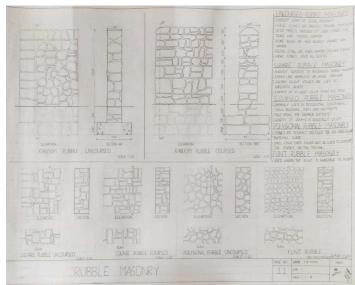
Methods and Materials in Building Construction - II Faculty: Ar. BB Prakash, Ar. Pragathi Prassad S, Ar. Chanchal Modi

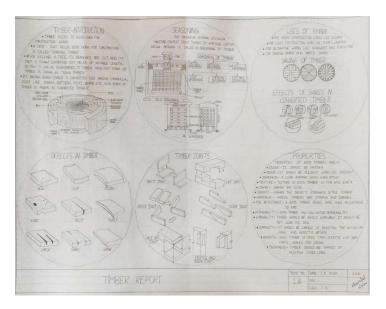
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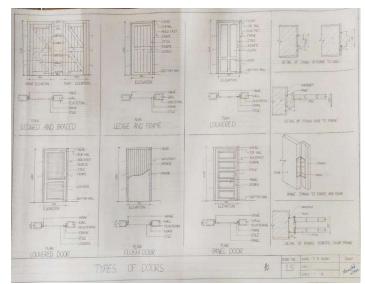






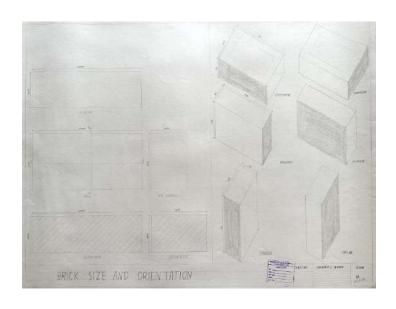


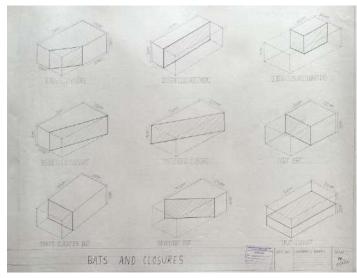


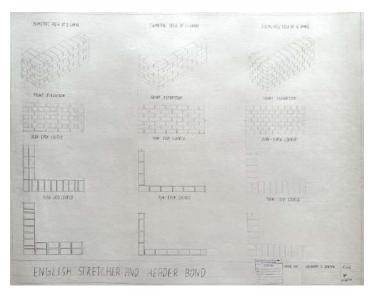


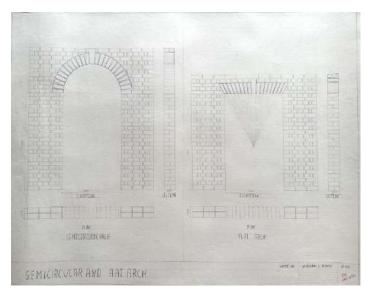
Methods and Materials in Building Construction - II Faculty: Ar. BB Prakash, Ar. Pragathi Prassad S, Ar. Chanchal Modi

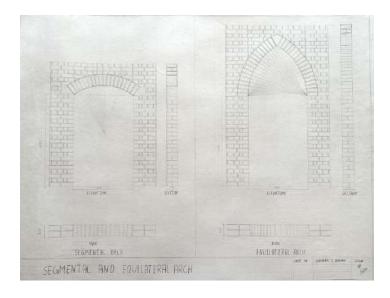
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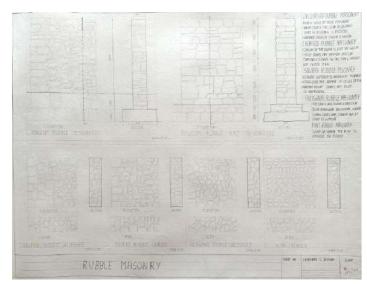






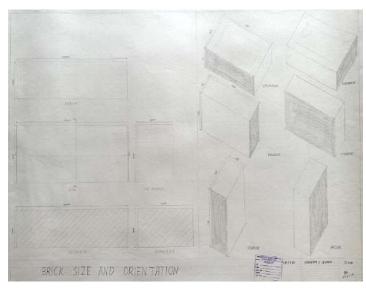


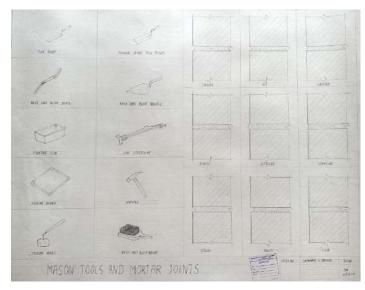


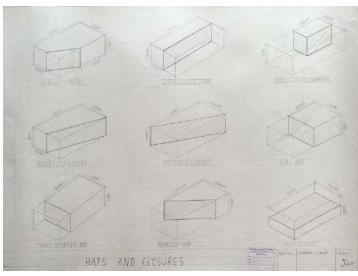


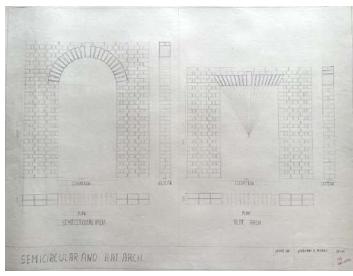
Methods and Materials in Building Construction - II Faculty: Ar. BB Prakash, Ar. Pragathi Prassad S, Ar. Chanchal Modi

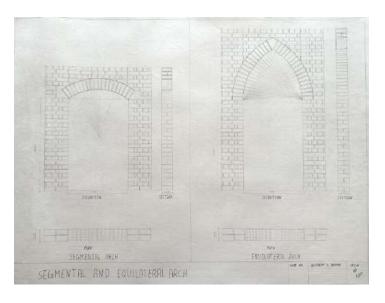
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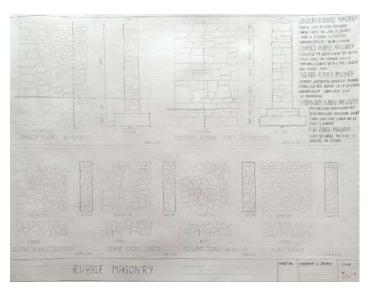


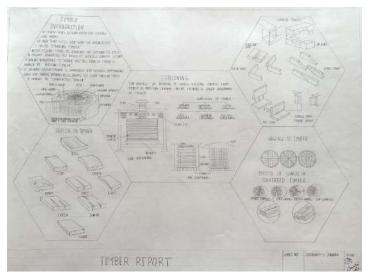


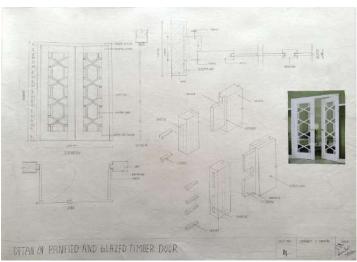


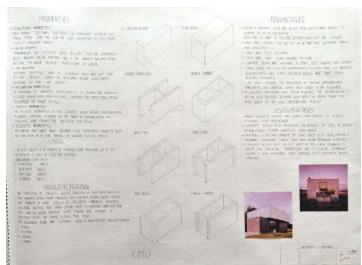


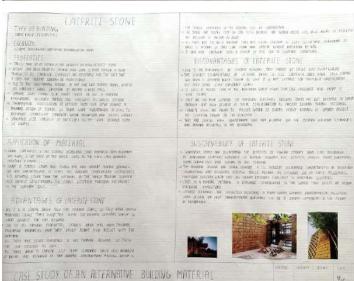


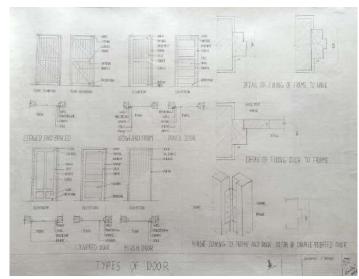


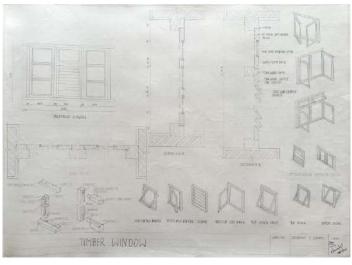


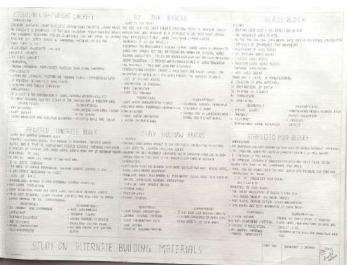












Course objectives:

To train the students to experiment and manipulate materials leading to creative exploration of forms.

Module 1:

- Generation of basic forms-cube, cone, dome and arch.
- Generating of organic and geometrical forms/objects

Module 2:

 Generation of forms & material exploration: hands on skill by using wood, bamboo, metal wire, thread, balsa wood, clothe, paper board etc

Module 3:

- Composite forms: Experimental form generation by combining various materials and shapes. (rods, pipes, slabs, etc.)
- Free Forms: Tensile structures, Funicular Shells using wood, fabric, plastic etc.

Module 4:

 Architectural forms: making of windows, wall doors, roofs, trees, shrubs, roads, vehicles etc.

Module 5:

Introduction to digital modelling like 3D printing and laser cutting.

Model Making Workshop 21 ARC 16

Subject Faculty



Ar. Gopi Krishna KV



SJ Bhaskar

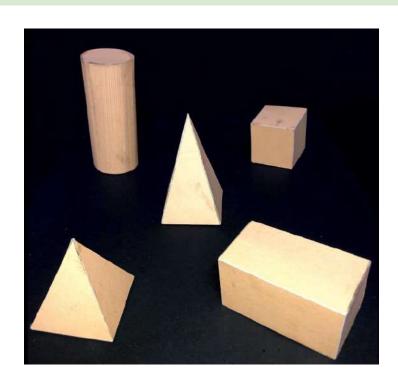


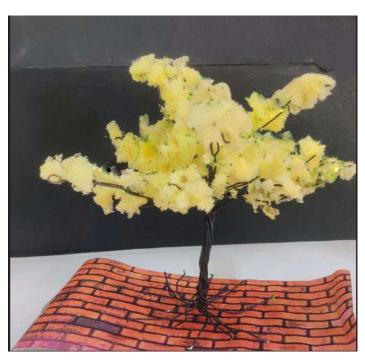
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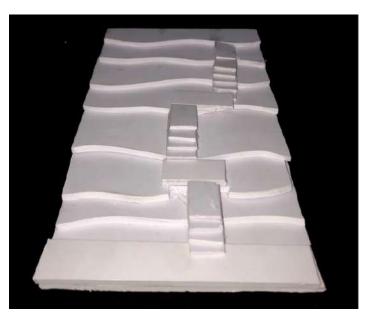
Ar. BB Prakash

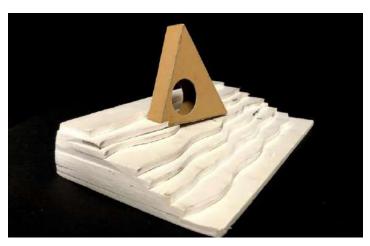
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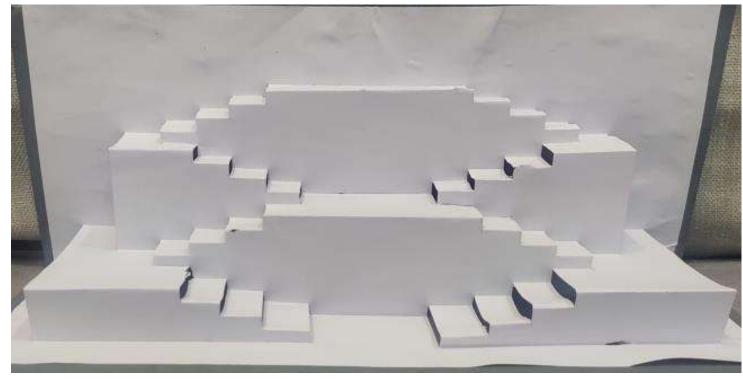


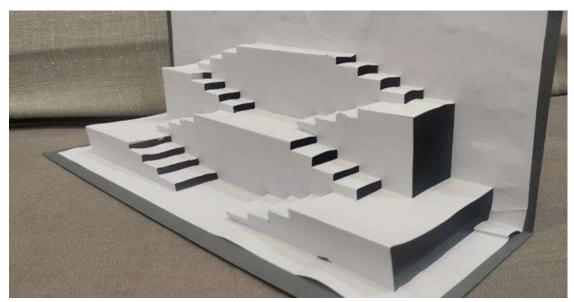




Pranav Arakere 1DC22AT049

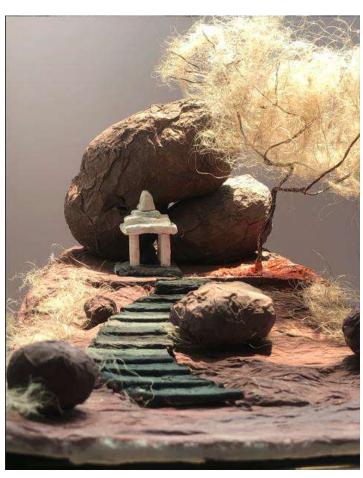


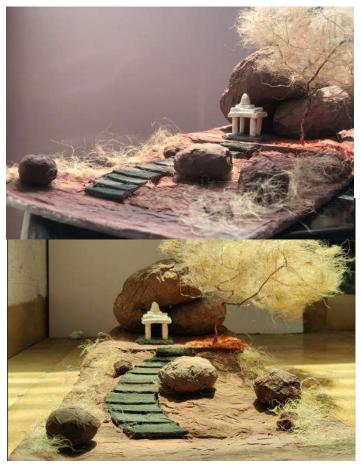


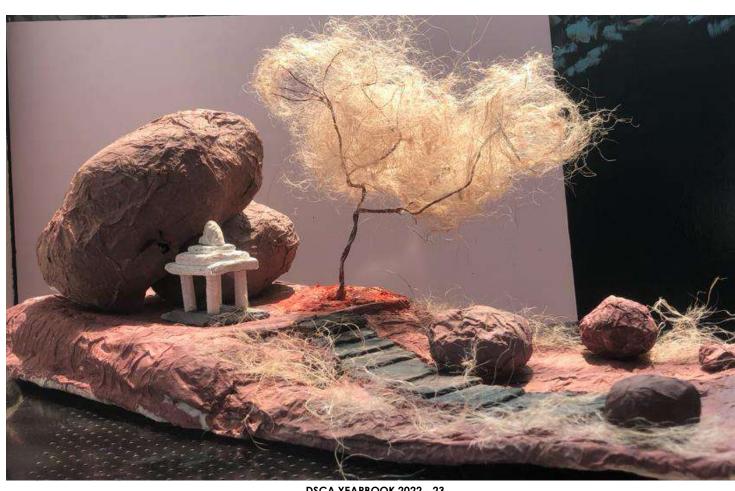


DSCA YEARBOOK 2022 - 23

Shubham S Jhadav 1DC22AT062

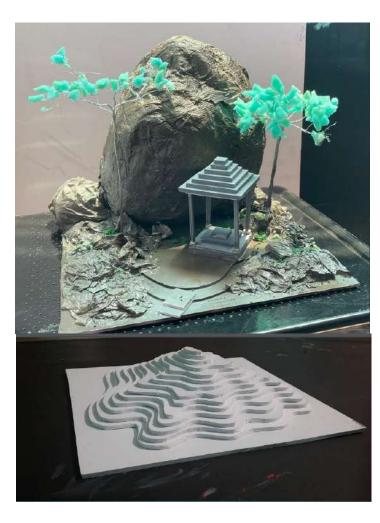


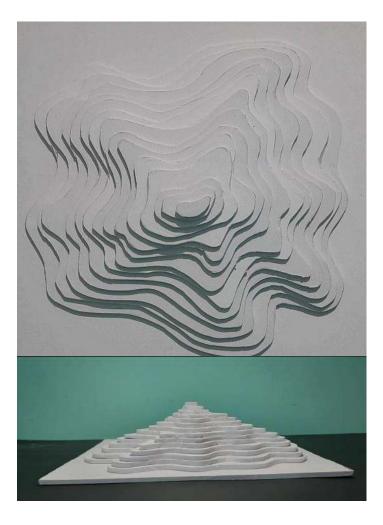




DSCA YEARBOOK 2022 - 23

Vyshnavy B 1DC22AT082













DSCA YEARBOOK 2022 - 23

TR Kushi 1DC22AT074







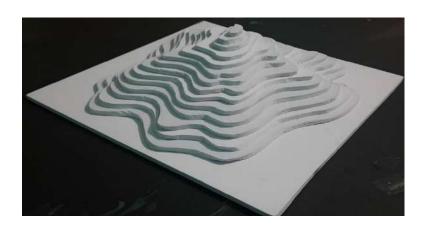




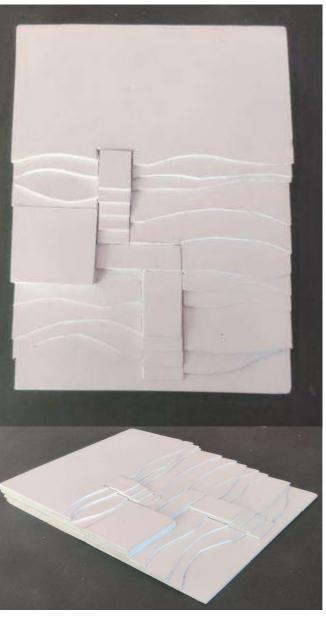


DSCA YEARBOOK 2022 - 23

Raju R 1DC19AT350

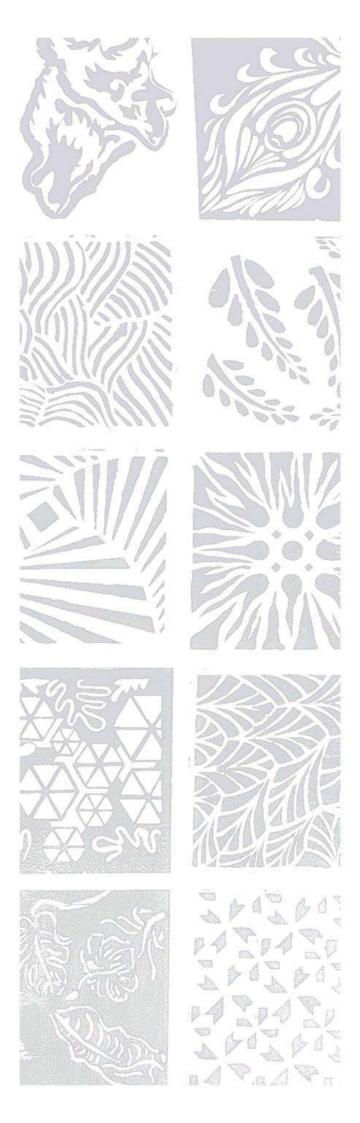








DSCA YEARBOOK 2022 - 23



Semester 2nd

Home is a place filled with coziness, affection, and warmth. A house will always have a special place in our hearts, and for Indians in particular, it is linked to family and close ties. A home is made up of places where individuals gather with their families and are at their most at ease. Despite the fact that people's lives are always changing, their homes store memories and give insight into the kind of people that reside there. Indians typically lived in joint families. Since there were many people living in the house, distinct rooms for various activities were required. Although there are various cultural, linguistic, climatic, and regional differences; there were few common things in the aesthetics of the homes. The central area of most homes was a courtyard; whereas gardens and study halls were a few other common spaces. These homes were built in a very sustainable manner using local building materials, Vaastu principles, and climate considerations. As they serve as the greatest guides for the construction customs of the era, our heritage and history offer a variety of types of architectural forms to interpret. A traditional Indian house also plays a significant role in family, festivals, and celebrations and unites everyone.

The sites chosen for the house design are: Site A – ITI Employees Layout, Near Mallathahalli Lake, Bengaluru Family type: NRIs (2 adults, 2 children, 1 pet)Total Site Area: 800 sqm Total Built-up-area (B.U.A): 300 sam

Site B – Mathias Nilaya, Rest House Road, Bengaluru Family type: Localities (Grandmother, 2 adults, 2 children, 1 pet)Total Site Area: 1000 sam Total Built-up-area (B.U.A): 350 sam

Note:

- Ground coverage: Maximum 30% of site area
- Must be a G+1 floors building
- Visit to site; necessary analysis and inferences.
- Concept / Theme Exploring forms
- Block Model
- Bubble diagram
- Zoning
- Single line plan
- Masterplan (+Roof plan),
- All floor plans with furniture layout
- Sections (2#)
- Elevations (4#)
- Detailed model & 3D views

Architectural Design II 21 ARC 21

Studio Coordinators



Ar. Nikhil Ravindra



Ar. Surabhi Moharir

Studio Faculties



Ar. Chaitali M Babar



Ar. Mythrayi Harshavardhan



Ar. Vani Krishnamurthy



Umesh K.



Ar. Pooja R Srinivas Ar Gopi Krishna

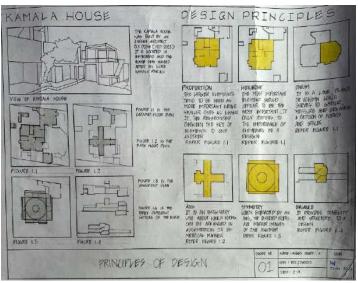


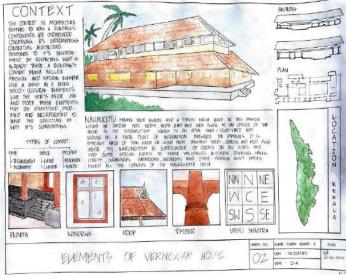


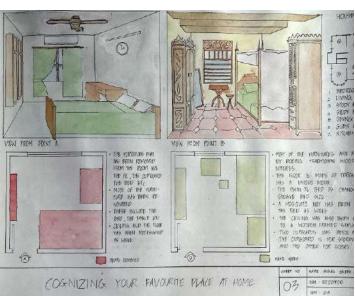
Pramod Stephen

Faculty: Ar. Nikhil Ravindra, Ar. Chaitali M Babar, Ar. Mythrayi Harshavardhan, Artist Pramod Stephen

Anges Joseph A 1DC22AT010

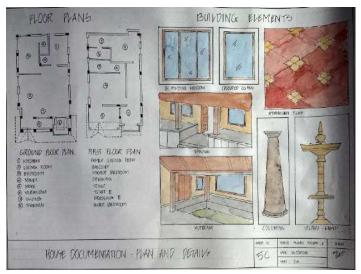






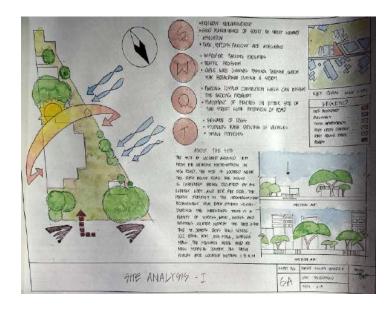


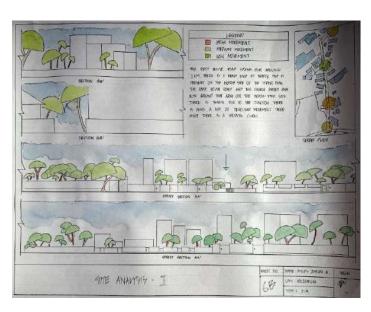


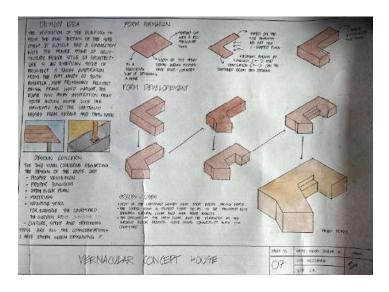


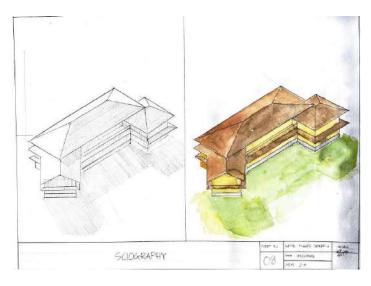
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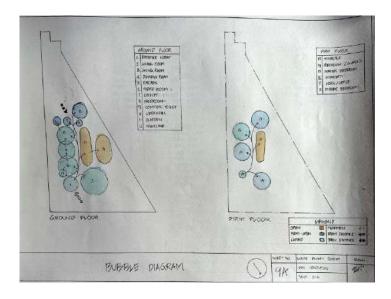
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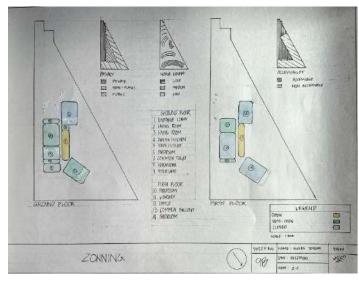








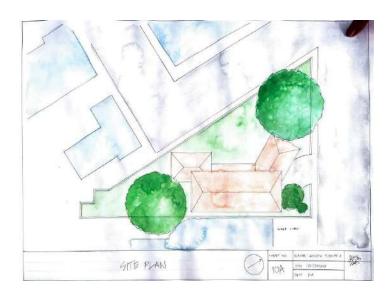


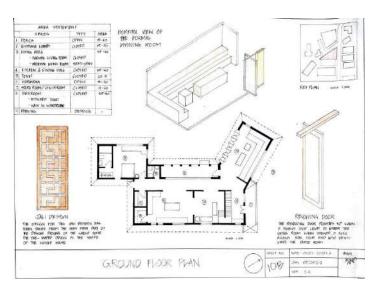


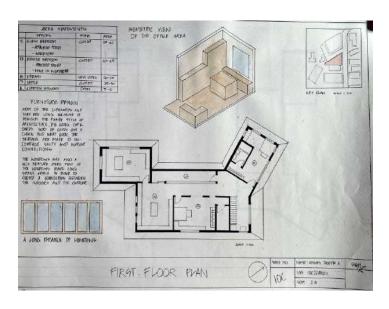
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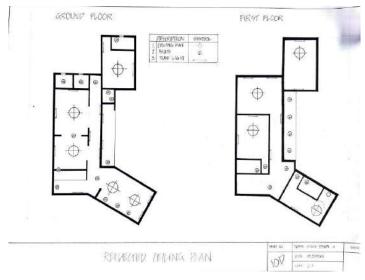
Ar. Mythrayi Harshavardhan, Artist Pramod Stephen

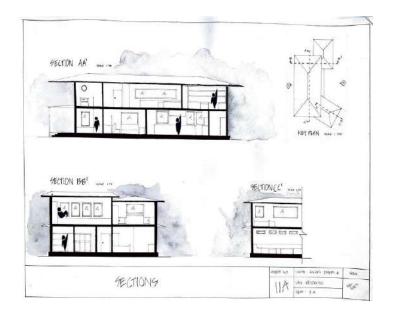
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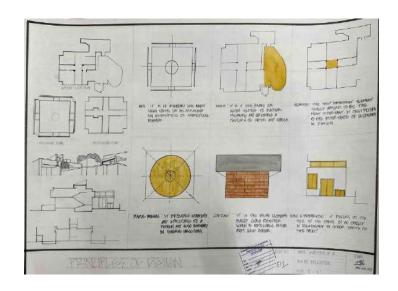


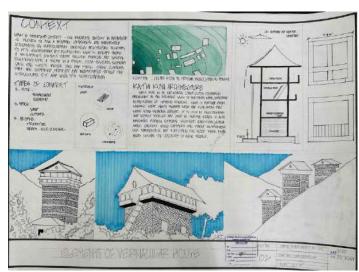


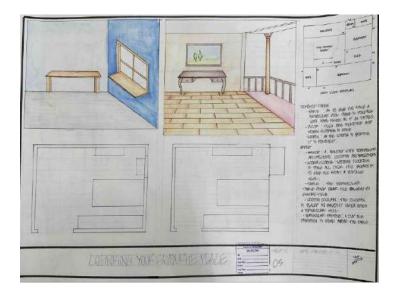
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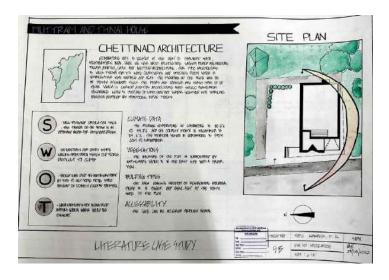
Karthik K. 1DC22AT028









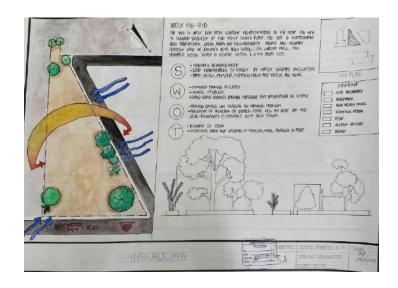


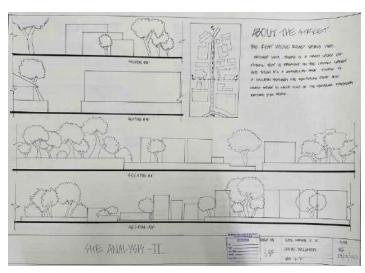


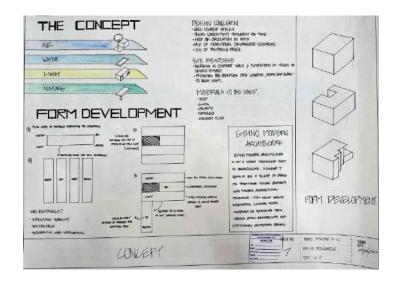
Faculty: Ar. Nikhil Ravindra, Ar. Chaitali M Babar,

Ar. Mythrayi Harshavardhan, Artist Pramod Stephen

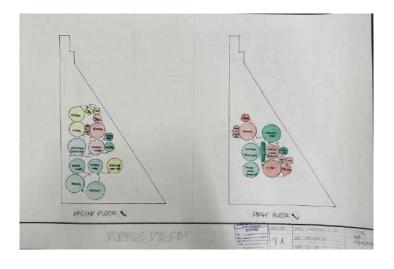
Karthik K. 1DC22AT028













Faculty: Ar. Nikhil Ravindra, Ar. Chaitali M Babar,

Ar. Mythrayi Harshavardhan, Artist Pramod Stephen

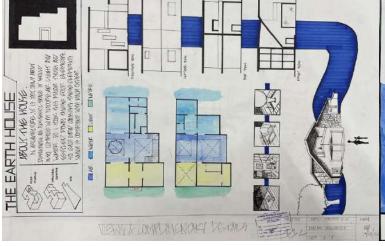
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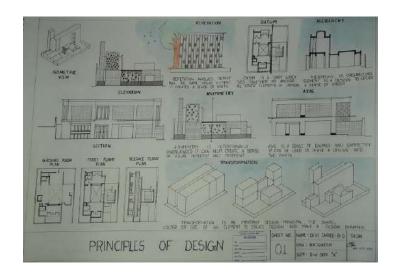


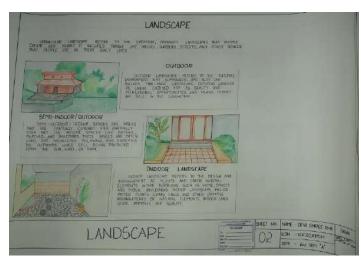


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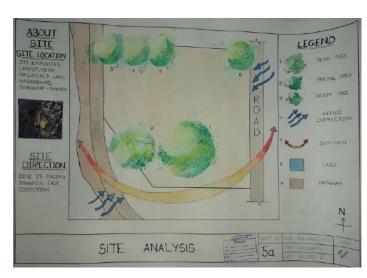
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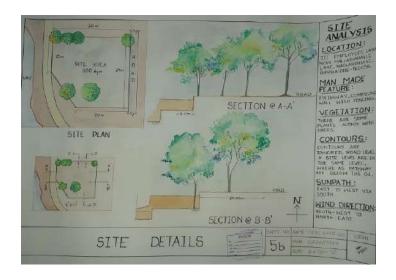
Devishree B.S. 1DC22AT019









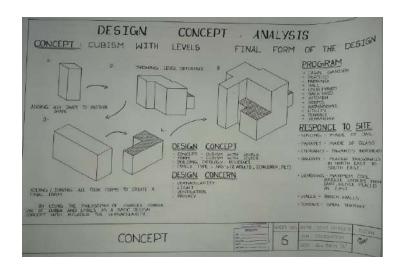


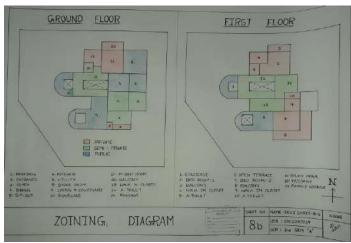


Faculty: Ar. Nikhil Ravindra, Ar. Chaitali M Babar,

Ar. Mythrayi Harshavardhan, Artist Pramod Stephen

Devishree B.S. 1DC22AT019

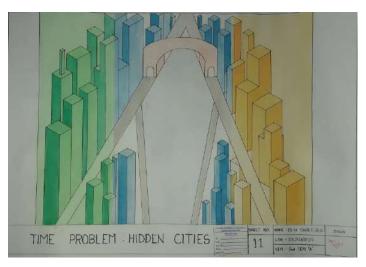












MMBC - II

OBJECTIVES

- To understand Roofing systems using Timber, Steel Truss and Concrete. Cement, Steel and Reinforced Concrete.

MODULES

- 1. Timber Roof Lean to roof, Collared Roof, King post roof, Queen Post Roof; details of joinery.
- 2. Steel Roof Types of Steel Truss Roofs and method of construction.
- 3. Cement: Types, applications, Tests laboratory and field.
- 4. Steel: Properties and uses of reinforced steel.
- 5. Concrete: Ingredients, grades, admixtures, properties, production, mix, proportioning and placing of concrete.
- 6. Reinforced Cement Concrete: Form work, placing, and compaction, curing of concrete, sampling and testing of concrete. Construction joints, expansion joints, finish in concrete, chemical admixtures.
- 7. RCC Foundations (Isolated footing) and Columns (Square and Round). Raft foundations, Grillage foundations and combined footing
- 8. Staircase: Anthropometry of stairs, types of Staircases.
- 9. Timber Stairs: Single and Double Stringer stairs: construction methods and joinery.
- 10. RCC Stairs: Waist slab, folded plate, stringer beam stairs, precast stairs: construction methods and joinery
- 11. Steel Stairs: Stringer stairs, Folded Type, Spiral stairs, Fire escape stairs: construction methods and joinery.
- 12. Composite Stairs: Brick/stone, Steel/Timber, Concrete/wood, steel/ glass: construction methods and joinery.

Materials and Methods in Building Construction 21ARC22

Subject Faculty



Ar. Chanchal Modi



Ar. Pragathi Prassad S



Ar. BB Prakash



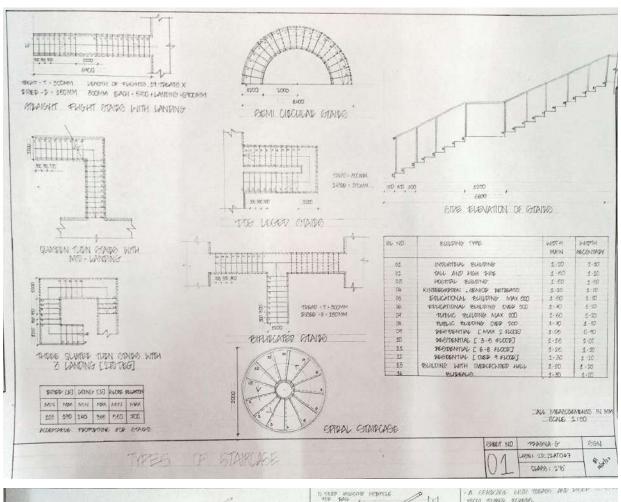
Ar Ravindra Avinash

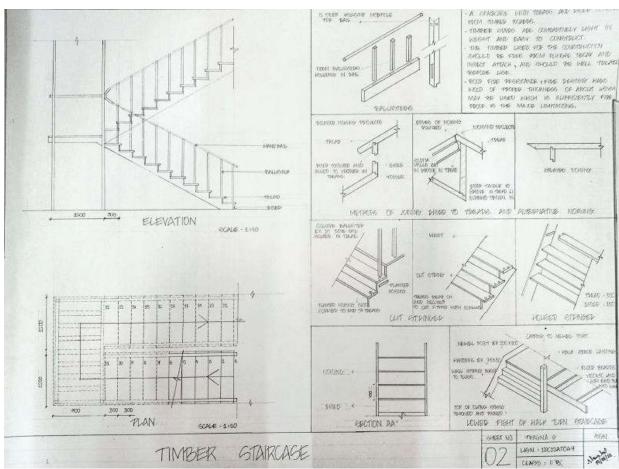


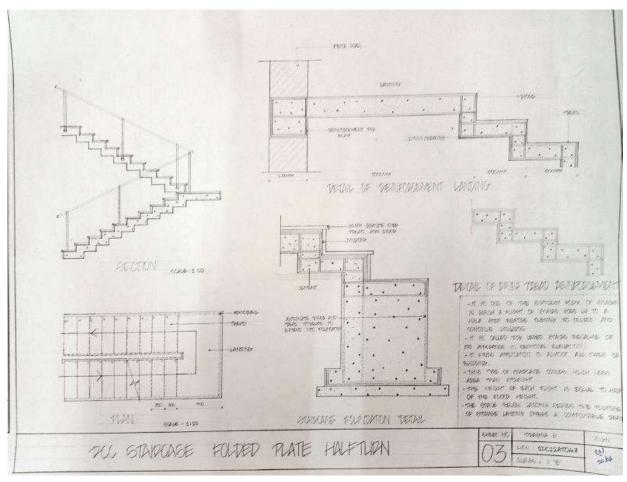
Ar. Vani Krishnamurthy

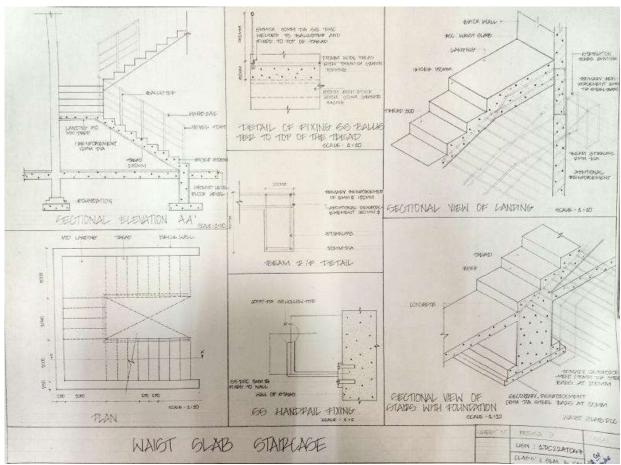


Ar. Srimathi Raja



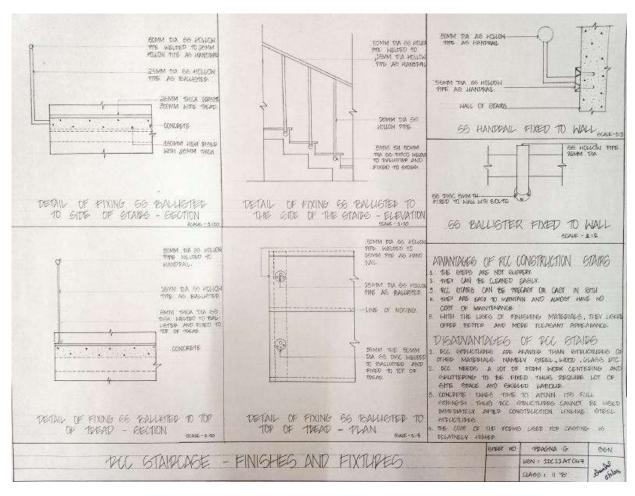


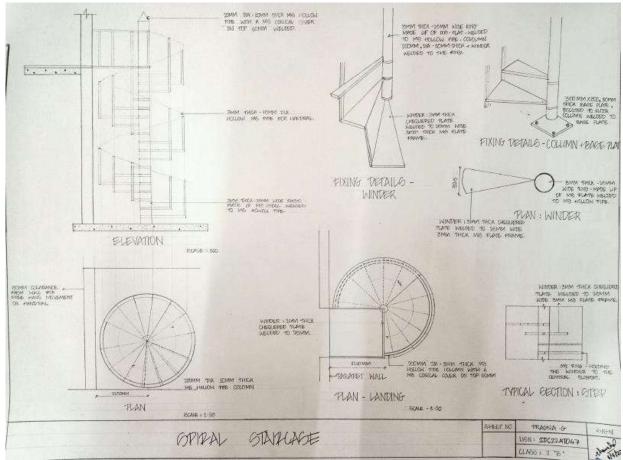


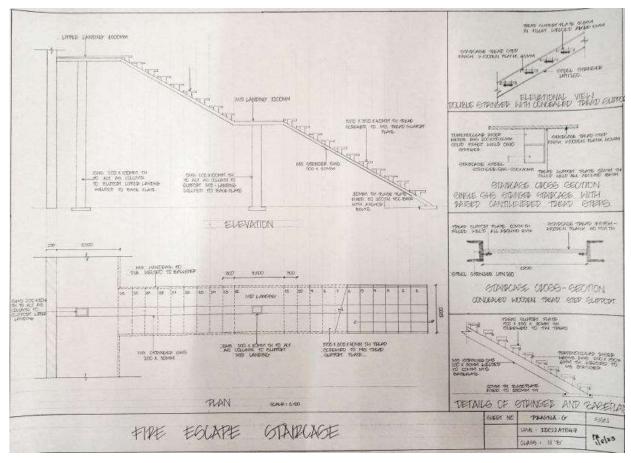


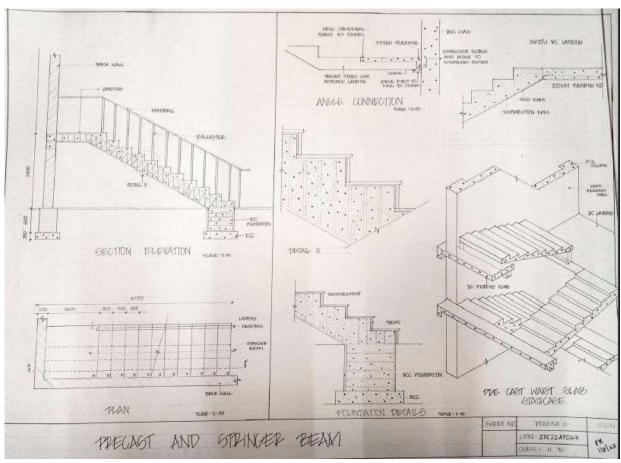
Material Study MMBC - II

Materials and Methods in Building Construction II Faculty: Ar. Chanchal Modi, Ar. BB Prakash, Ar. Pragathi Prassad S



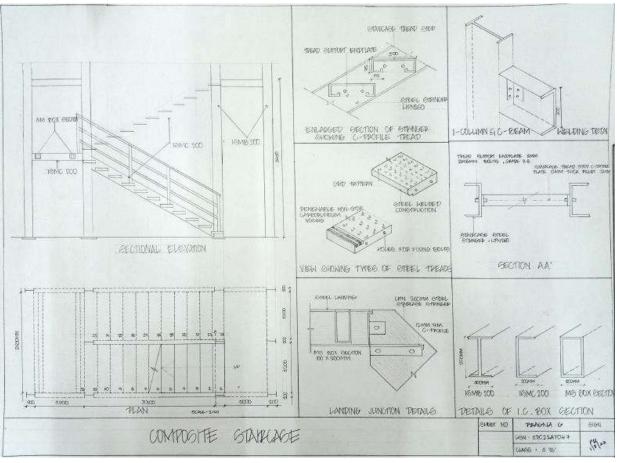


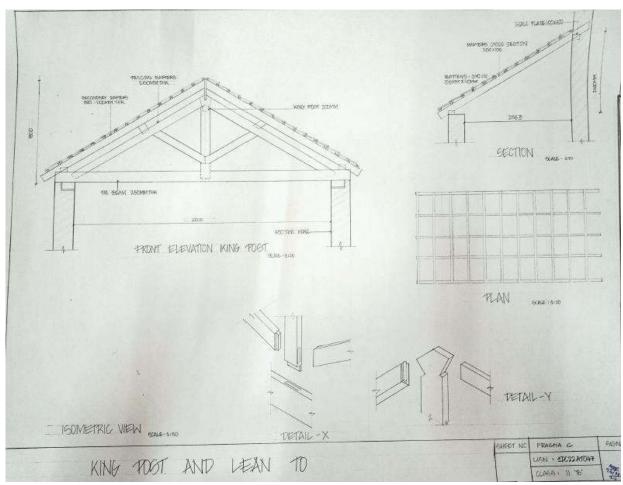


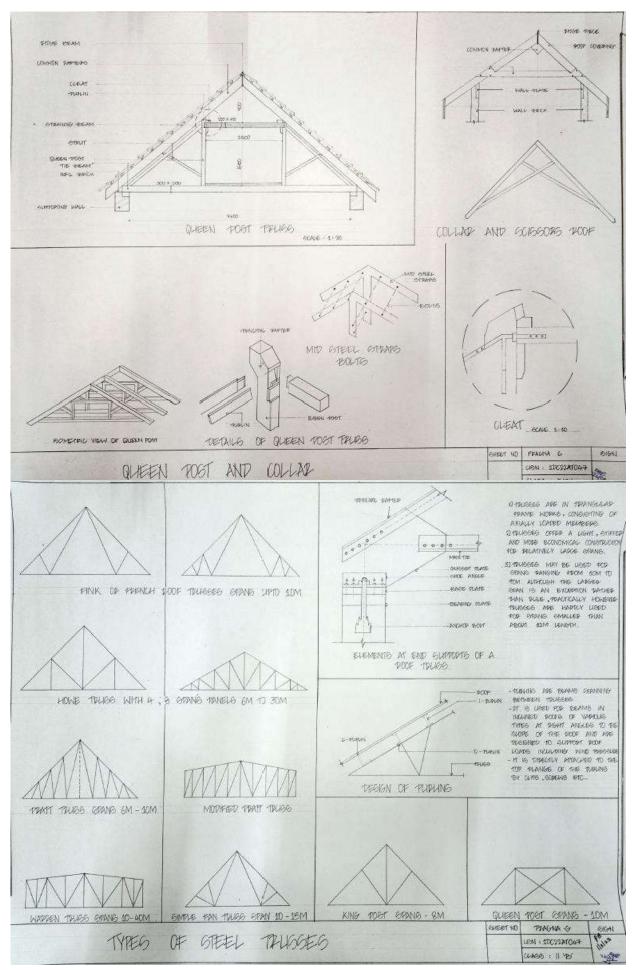


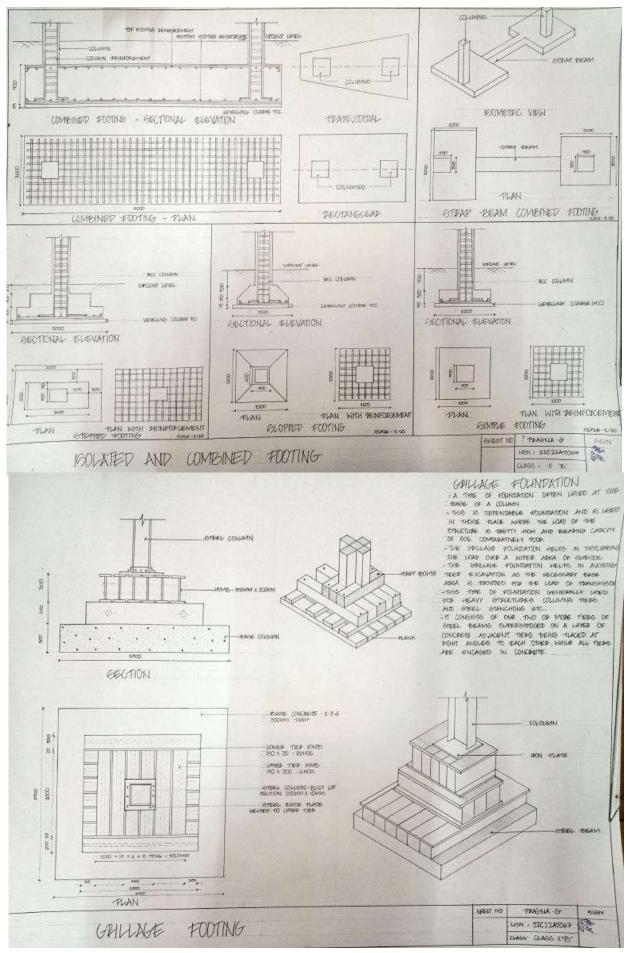
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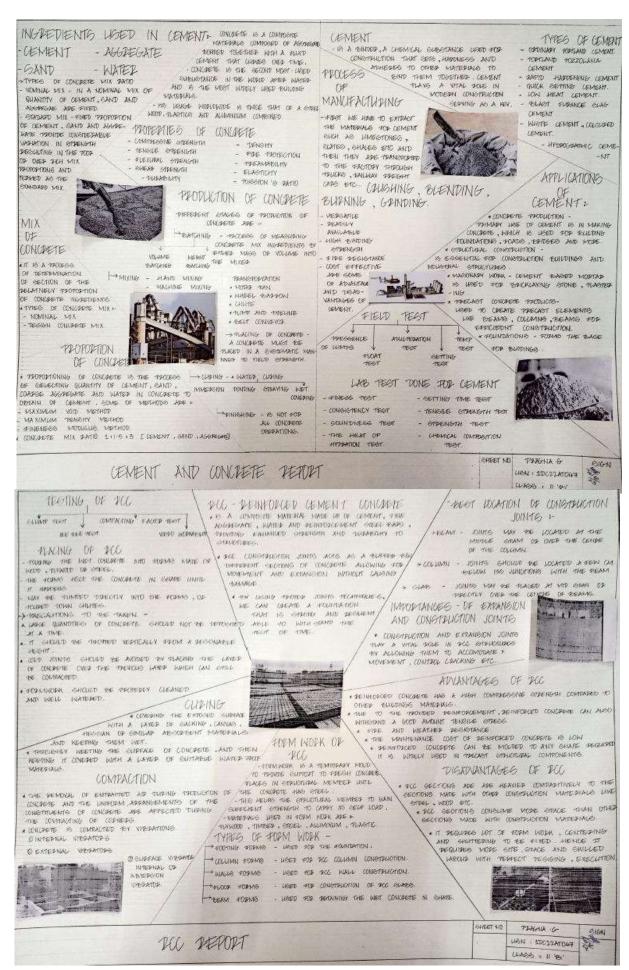
Materials and Methods in Building Construction II Faculty: Ar. Chanchal Modi, Ar. BB Prakash, Ar. Pragathi Prassad S











Architectural Graphics II 21ARC23

Course objectives:

To develop visual communication and representation skills and methods of presentation of spatial design through 3D drawing techniques.

MODULES:

- 1. 3D-Projections: exercises in 3D representation of exploded isometric and axonometric views of objects, furniture and built forms.
- 2. Development of surfaces for architectural roof forms, built enclosures and envelopes
- 3. Section of geometrical solids and construction of true shapes.
- 4. Interpenetration of geometric solids, combination of different forms in architectural compositions.
- 5. Introduction to perspective drawing: Its importance in architectural drawings, principles of perspective drawing, visual perceptions and its limitations.
- 6. Studies in perspective drawing: Understanding the importance and purpose of picture plane,
- station point, vanishing point, ground level, eye level, cone of vision and central line of vision -

their variations and resultant effects

- 7. One point perspective drawings: Exercises of perspective drawings of simple built forms, interior views of a room with furniture.
- 8. Two-point perspective drawings: exercises of perspective drawings of simple built forms, architectural elements. Interior views of a room with furniture.
- 9. Free-hand perspective drawings of architectural elements, built forms. Exercises of renderina

techniques showing light, shade and shadow on built forms.

10. Introduction to Sciography: Principles of shade and shadow constructions for geometrical solids, architectural elements and built forms.

Subject Faculty



Ar. Pallavi Mukopadhyay



Ar. Nirzari Mehta



Ar. Gopi Krishna KV



Ar. Pragathi Prassad S



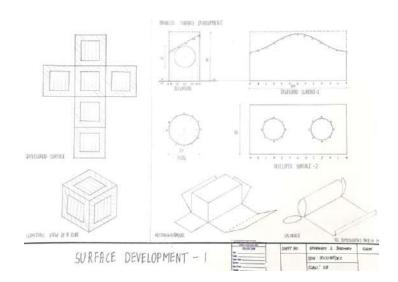
Ar. Chanchal Modi

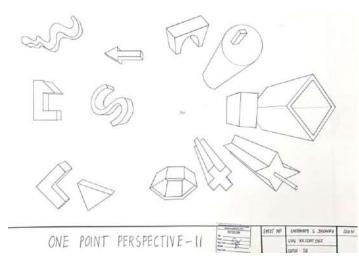


Ar. Shubham Kaushal

Architectural Graphics II
Faculty: Ar. Nirzari Mehta, Ar. Pragathi Prassad S,
Ar. Shubham Kaushal.

Shubham S Jadhav 1DC22AT062



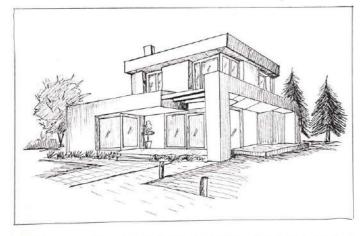








RENDERING-I

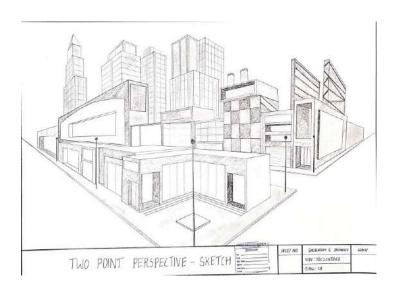


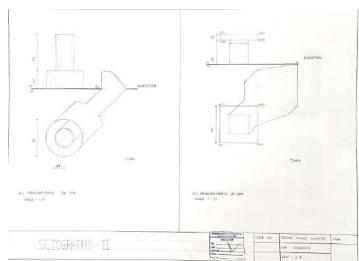
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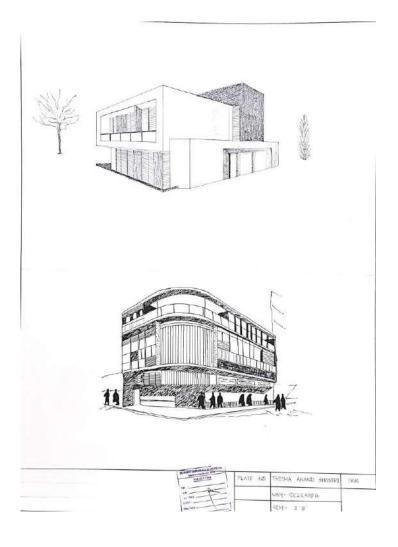
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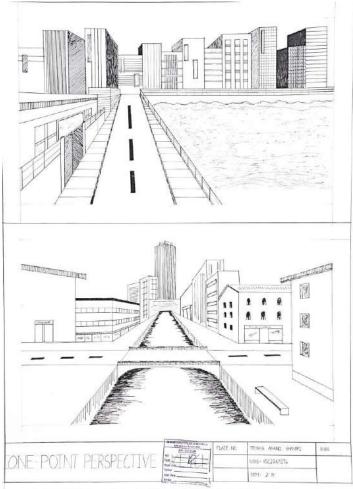
Architectural Graphics II Faculty: Ar. Nirzari Mehta, Ar. Pragathi Prassad S, Ar. Shubham Kaushal.

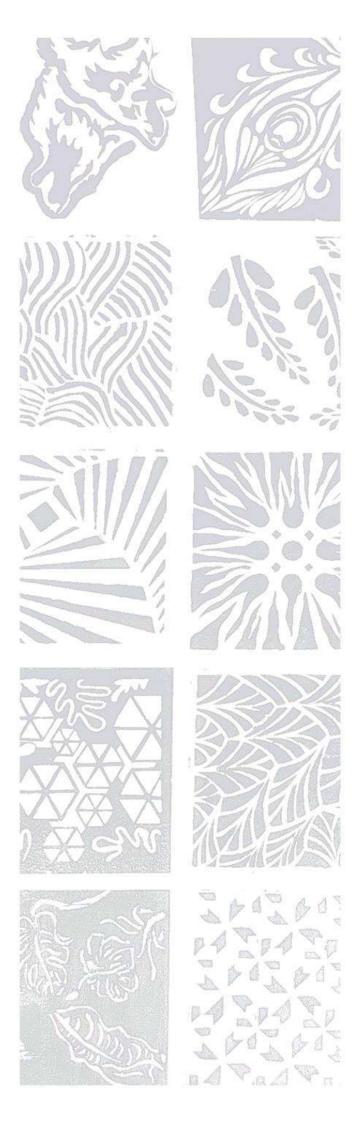
Shubham S Jadhav 1DC22AT062











Semester 350

Course Objectives:

- 1) To understand the different climatic zones.
- 2) To understand the different types of roofing systems
- 3) To understand how to tackle different types of topography and contours
- 4) To further develop various presentation skills

ARCHITECTURAL DESIGN III SUBJECT CODE 18ARC31

Studio Coordinators



Ar. Arun Chandhran



Ar. Nirzari Mehta

Studio Faculty



Ar. Sankara Sadhashivam



Ar. Ekta idnani



Ar. Preethi Revankar



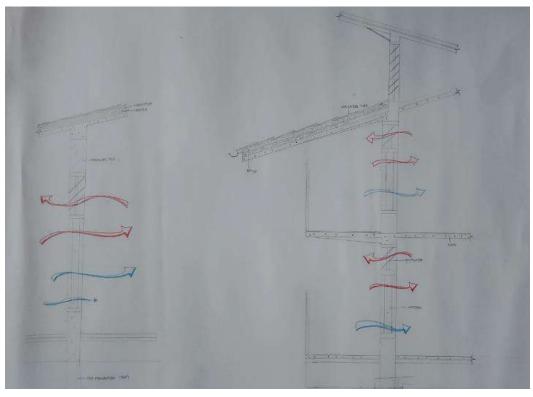
Ar.Kavita Pole

Akshaya 1DC20AT027

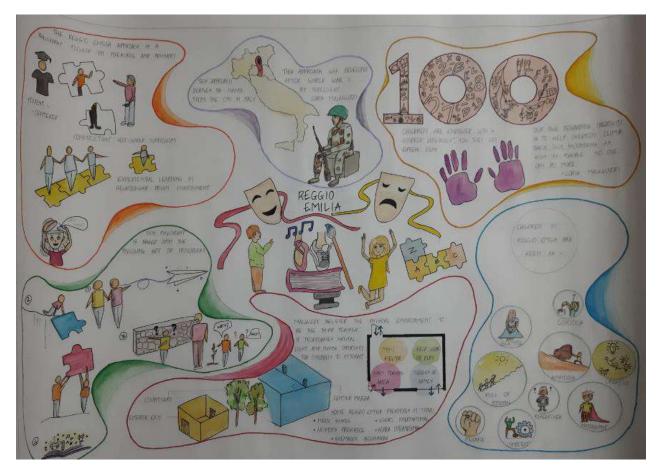


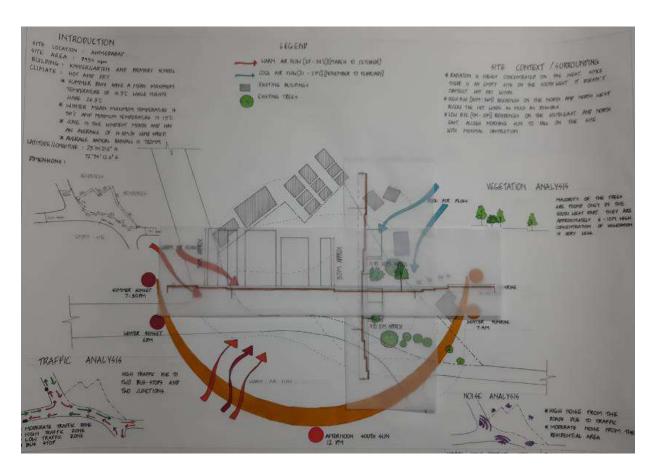


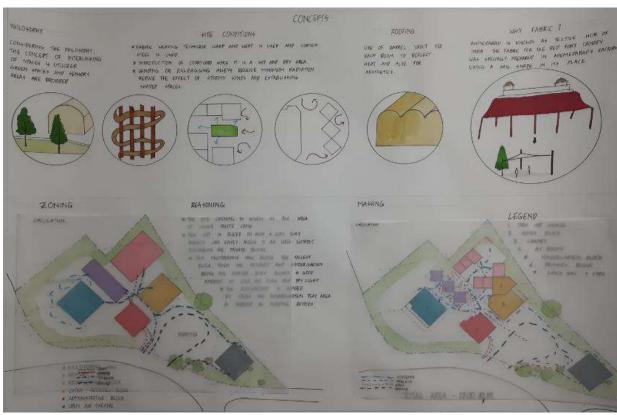




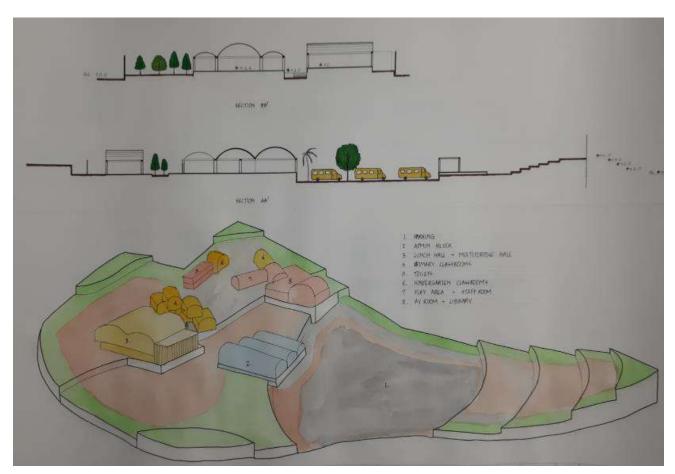






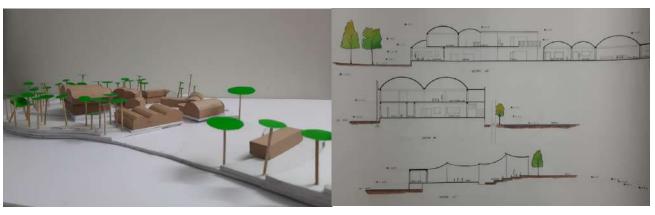


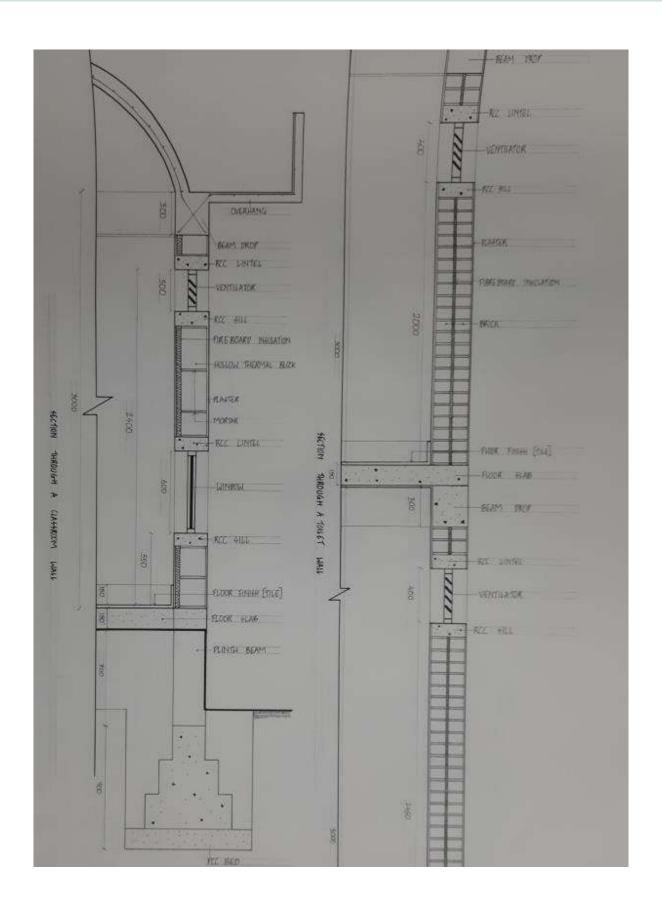




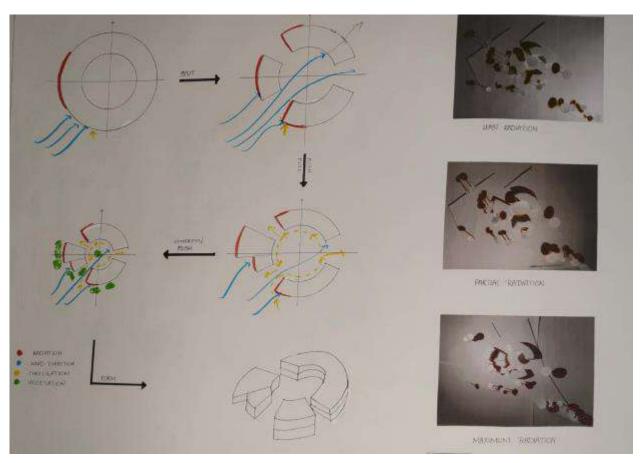








Neethu 1DC20AT027







3 rd Semester MMBC is largely about RCC structures, one way slab and two way slabs

The syllabus also deals with RCC domes and Vaults

Additionally toilet details and specifications Of materials are taught to the students

Site Visits are an essential part of learning in the third semester

MATERIALS AND METHODS OF BUILDING CONSTRUCTION V SUBJECT CODE 18ARC32 Studio Faculty

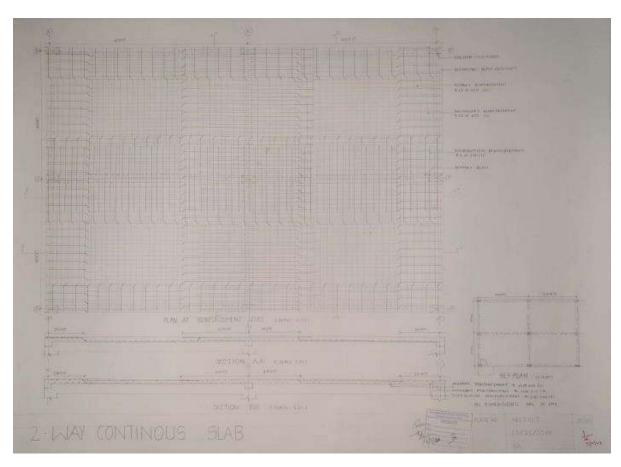


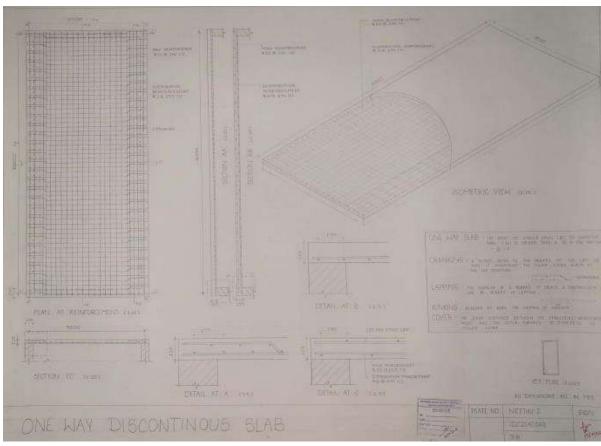
Ar. Tejas Karay



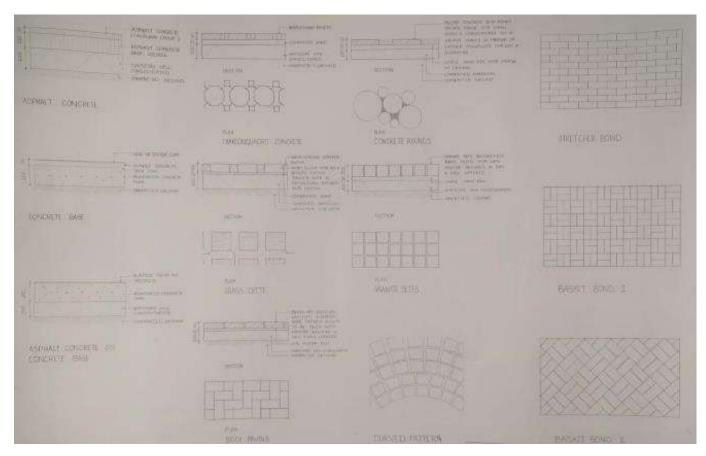
Ar. Dominic L Harper

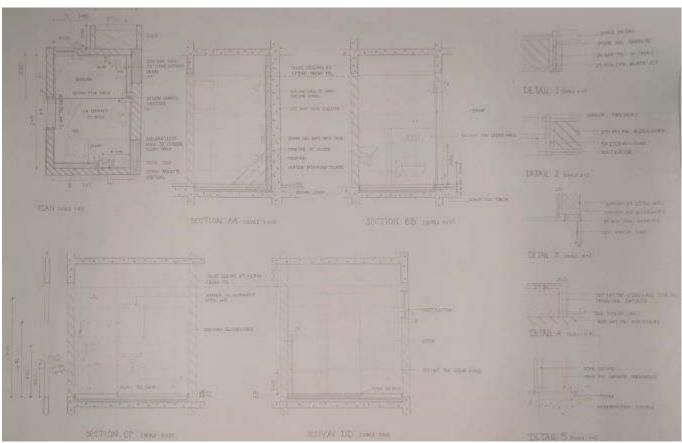
Neethu 1DC20AT053

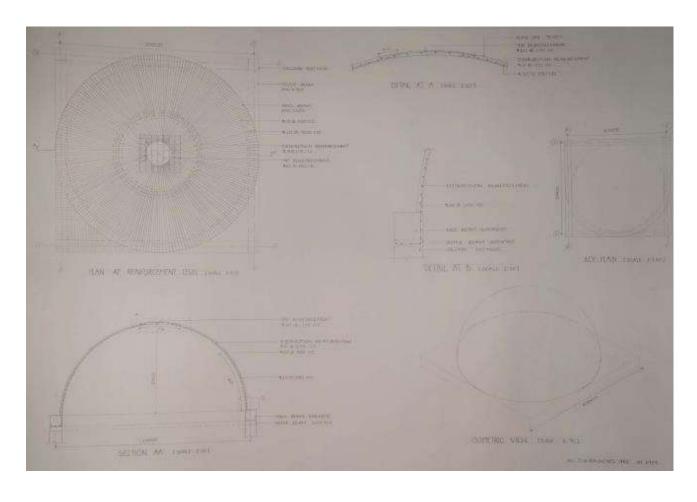


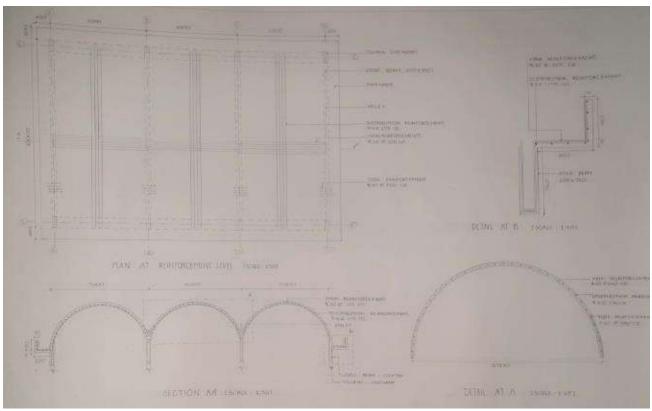


Neethu 1DC20AT053

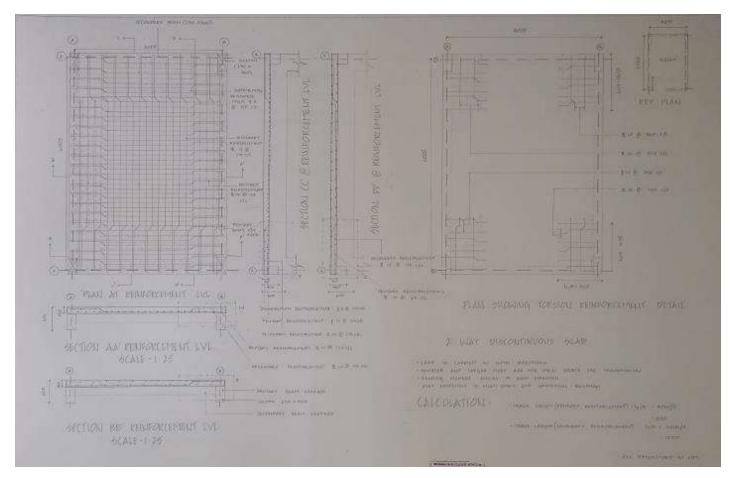


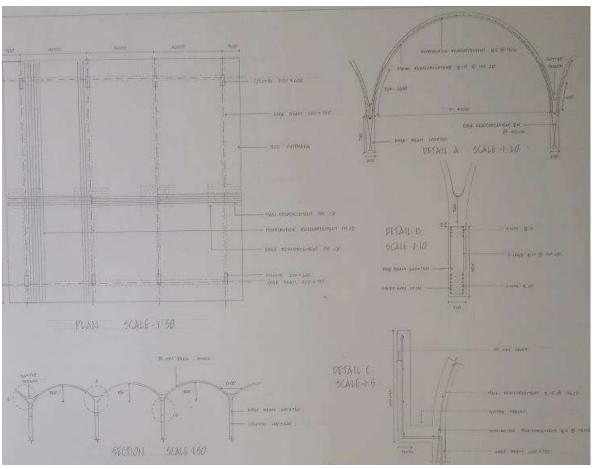




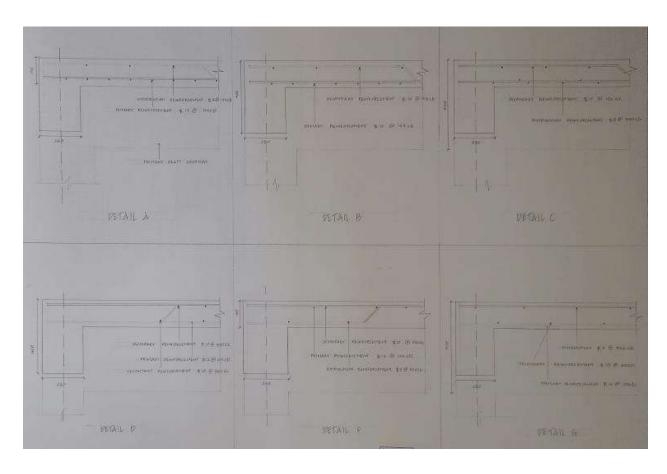


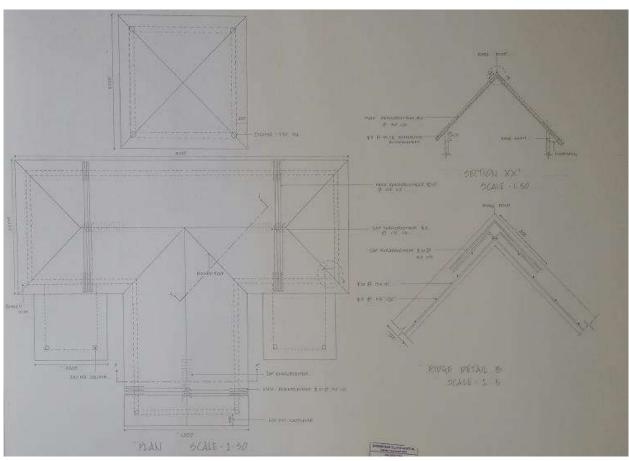
Israth k 1DC20AT037



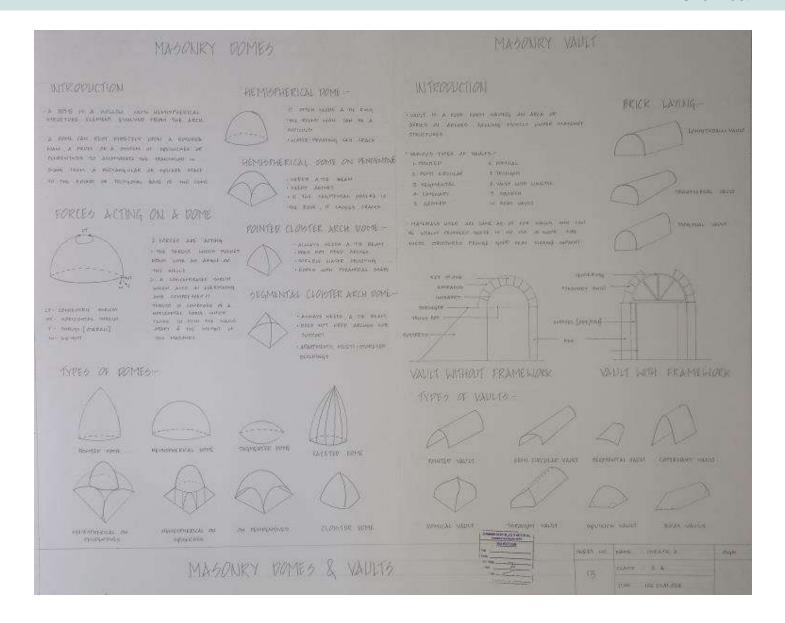


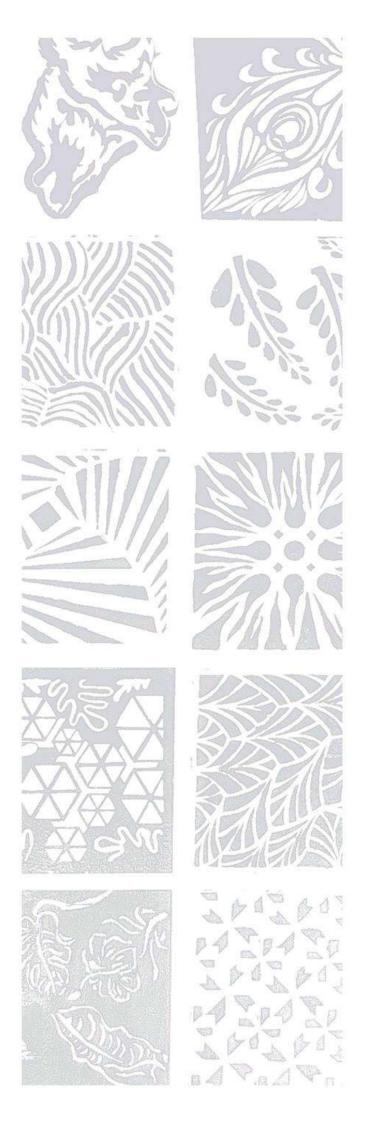
Israth k 1DC20AT037





Israth k 1DC20AT037





Semester 4th

Course Objectives:

- To understand the need for creating a sustainable living space which responds to a specific climatic context.
- 2) To understand the different typologies within the spectrum of housing
- 3) To identify and understand the role of services in the design of buildings; significance of material and construction techniques; climatic factors.
- 4) Introduction to bye laws and site planning.
- 5) To explore Computer Aided Design techniques (CAD) to generate drawings to better understand the overlay of different floor plan configuration
- 6) To understand the influence of socio-cultural, economic aspects such as LIG and MIG

ARCHITECTURAL DESIGN V SUBJECT CODE 18ARC41

Studio Coordinators



Ar. Arun Chandhran



Ar. Nirzari Mehta

Studio Faculty



Ar. Sankara Sadhashivam



Ar. Banu Chandrika



Ar. Kiran Baikidy

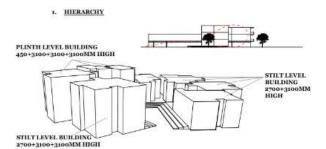


Ar. Jaypakash

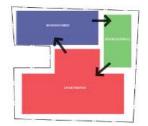
Diya Bijoor 1DC20AT027

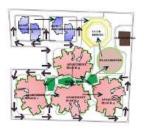


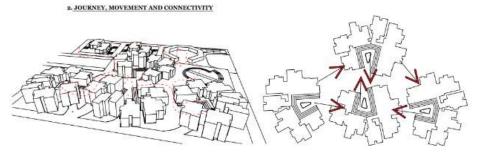
ZONING:



CONCEPT:

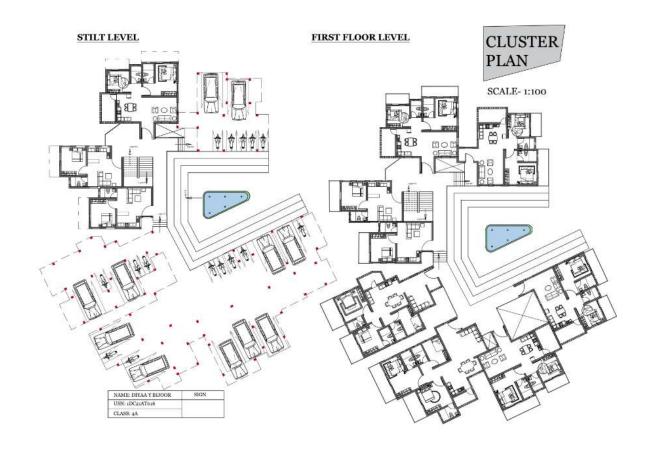






- HIERARCHY: BY PLAYING WITH HEIGHTS AND MAKING EACH BLOCK HAVE THREE DIFFERENT LEVELS.
 JOURNEY: A JOURNEY FROM ENCLOSED SPACE TO AN OPEN SPACE AND THEN TO A LARGER OPENING, THERE IS A CHANGE IN THE SURROUNDINGS, THE AIR MOVEMENT, THE FUNCTIONALITY.
 MOVEMENT, A LARGER OPEN SPACE TO A COMPACTED OPENING AND THEN TO THE RECREATIONAL SPACES.
 ALSO FROM A DECK TO GREEN SPACES AND THEN TO ROADS. MOVEMENT IS NOT OBSTRUCTED AND IS CONTINUOUS.
 CONNECTIVITY: ALL THE SPACES ARE CONNECTED BY MEANS OF ROADS OR PATHWAYS OR GREEN SPACES OR VISUALLY, MAKING IT SAFER AND A COMMUNITY BASED LIVING

NAME: DIVAA VIIIJOOR	MARCIN
USN: (DCIstATIO)6	
CLASS: 4A	



Diya Bijoor 1DC20AT027













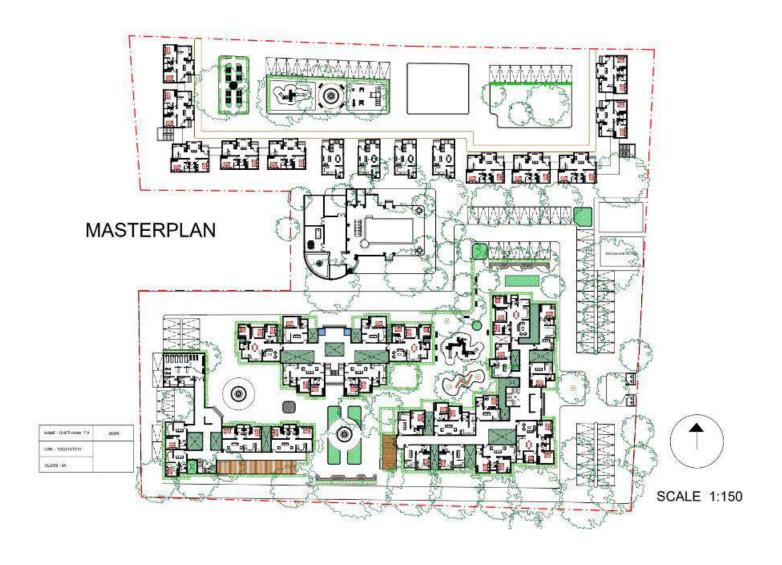






Chetana 1DC20AT027

AD IV





SITE SECTIONS SCALE 1:200

NAME: CHETHANA TIK	SIGN
USN: 10021AT010	
CLASS . 4A	

Faculty: Ar. N Arun Chandhran, Ar. Banu Chandrika

Ar. Kiran Baikidy

Chetana 1DC20AT027

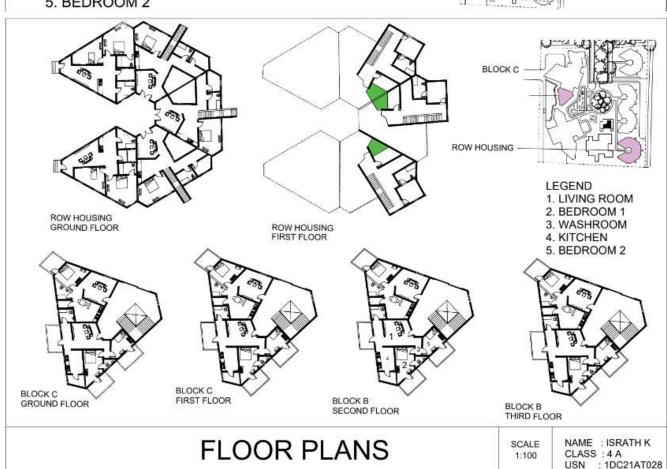


Faculty: Ar. N Arun Chandhran, Ar. Banu Chandrika

Ar. Kiran Baikidy

Chetana 1DC20AT027

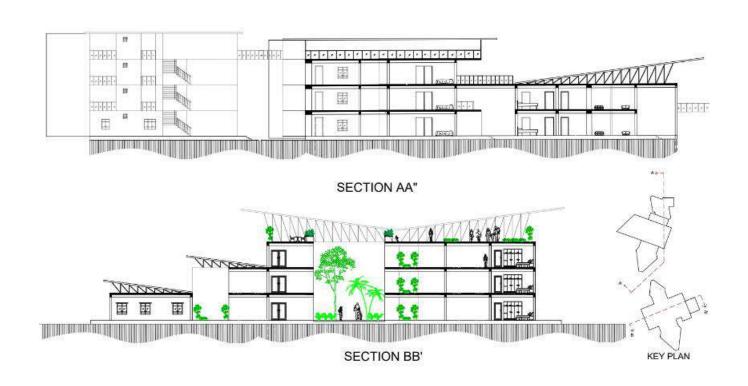


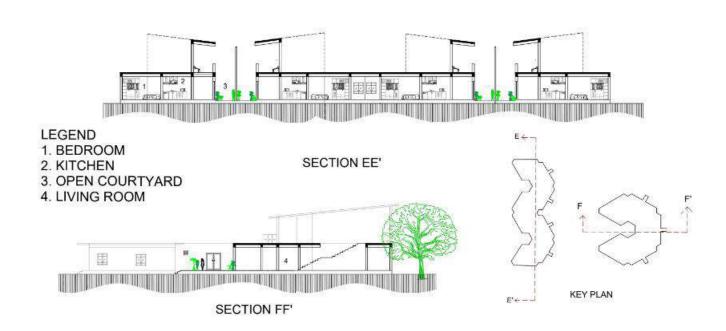


Faculty: Ar. N Arun Chandhran, Ar. Banu Chandrika

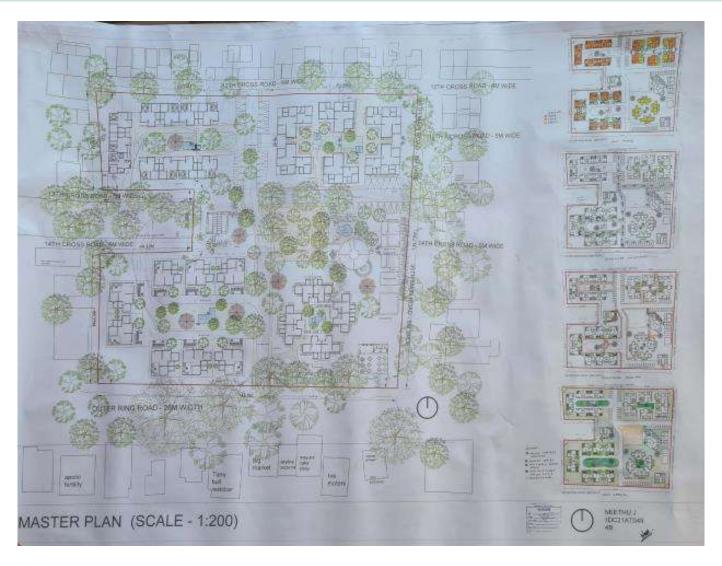
Ar. Kiran Baikidy

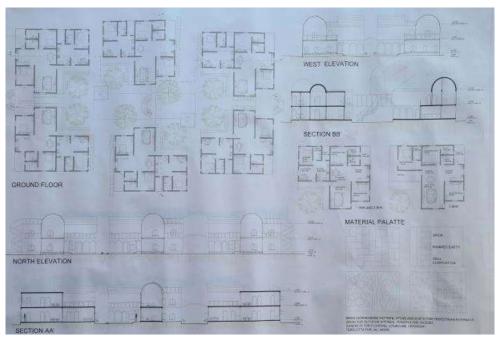
Israth 1DC20AT027





Neethu 1DC20AT027





4th Semester MMBC is largely about RCC structures

The studio was based on a practical/hands on or experiential learning approach by encouraging the students to build models for all the topics under the large RCC structures such as flat slab, waffle slab and two way slab.

The syllabus also deals with collapsible gate, rolling shutters and aluminium partitions

Large scale live models were constructed by the students using different materials and joinery detailing.

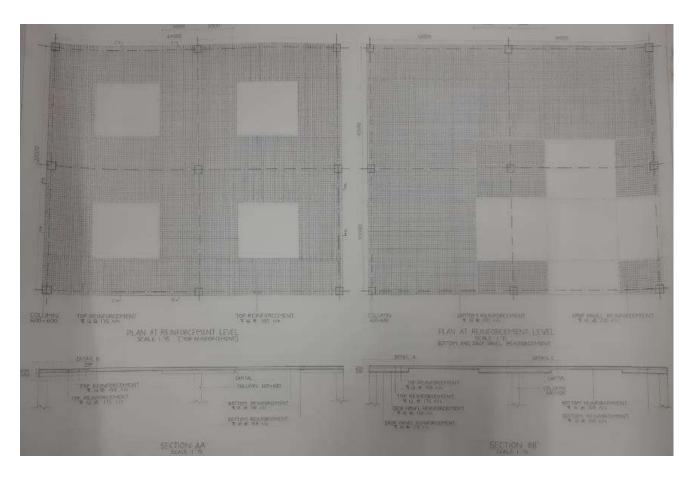
MATERIALS AND METHODS OF BUILDING CONSTRUCTION V SUBJECT CODE 18ARC42 Studio Faculty

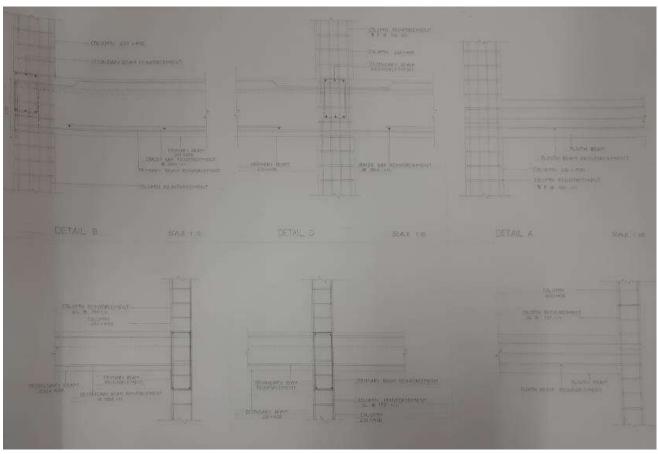


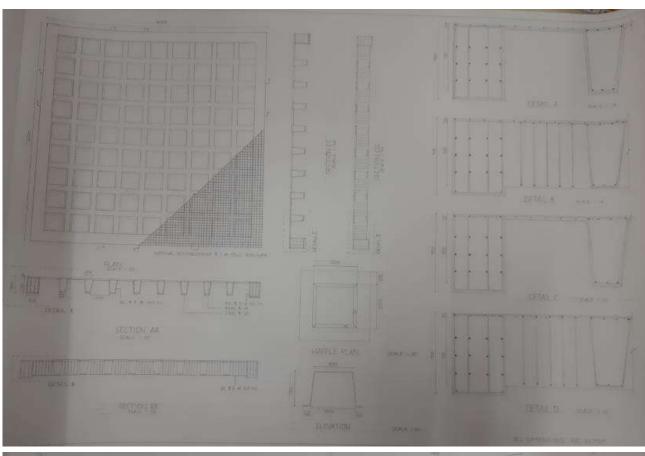
Ar. Tejas Karay

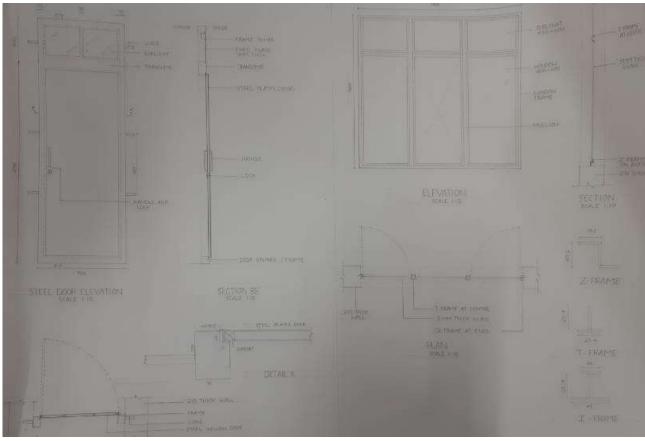


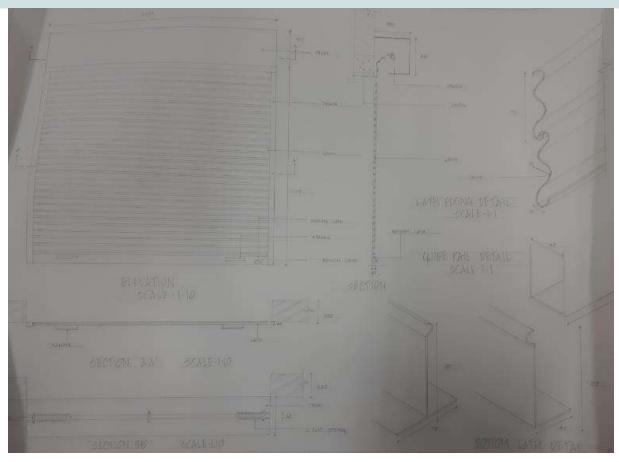
Ar. Dominic L Harper

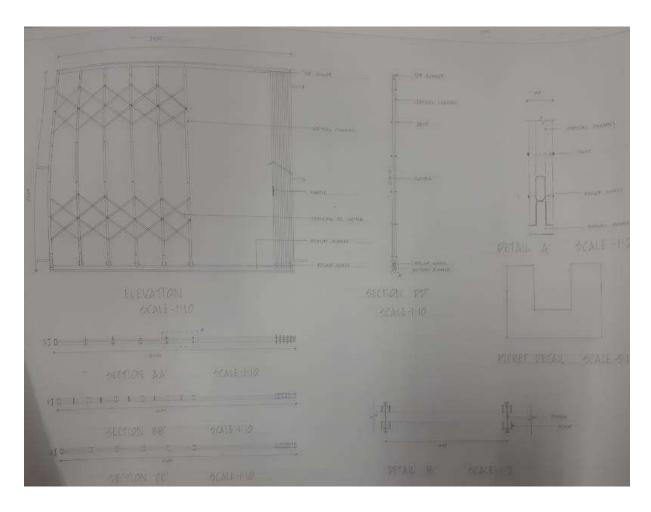


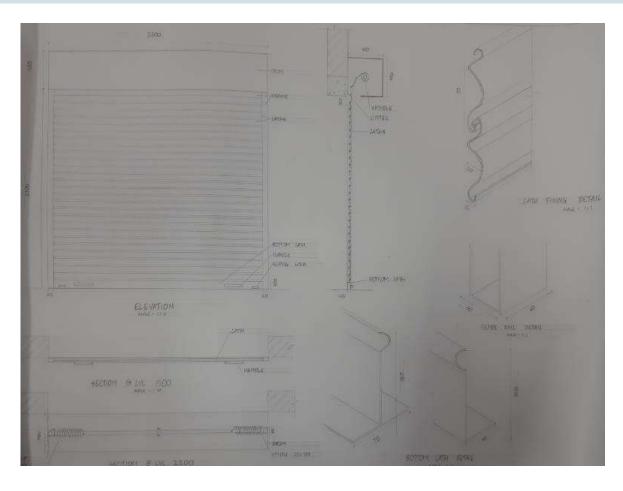


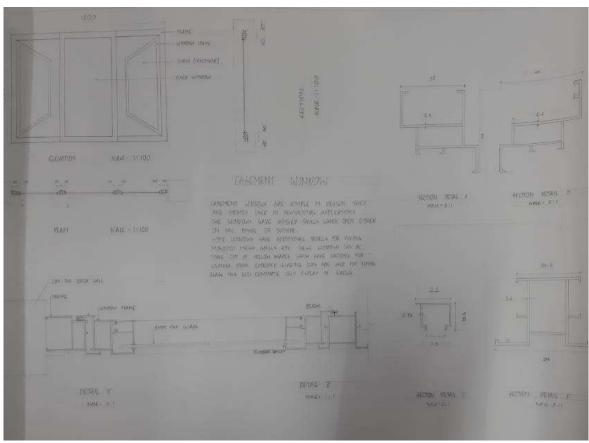












Course Objective

To familiarize students with the basic concepts of typography and layout design

To understand the different materials available in the market for product design

Introduction to 3d printing

Understanding the role of a theme, concept in developing once own unique style of design in the field of graphic/product design

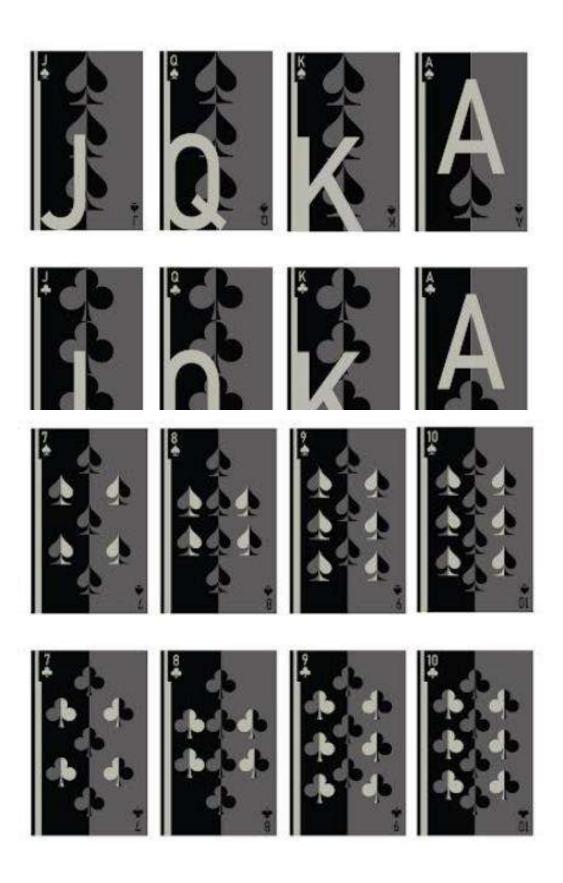
ELECTIVE Product design Graphic design

Studio Faculty



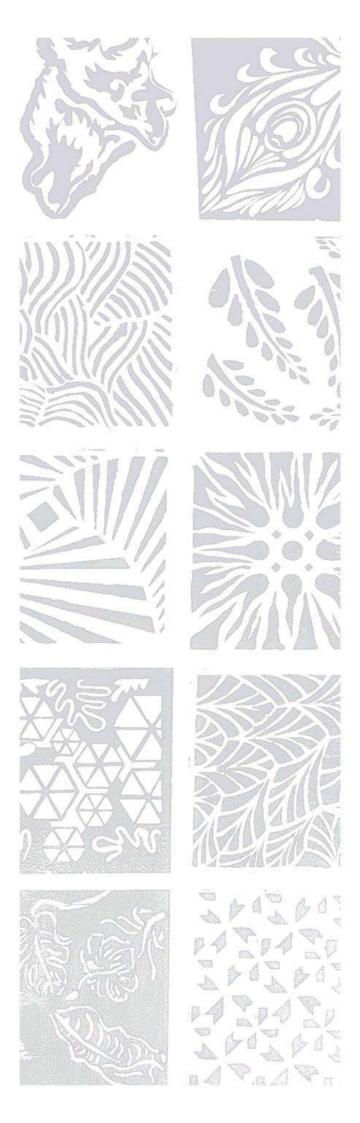
Ar. Arun Chandhran

Elective: Product design Faculty: Ar. Arun Chandhran



Elective: Product design Faculty: Ar. Arun Chandhran





Semester 5th

ARCHITECTURAL DESIGN V SUBJECT CODE 18ARC51

Studio Coordinators

Course Objectives:

- 1) To understand the need for creating architecture as an envelope to system dependent program.
- 2) To understand the use of technologies developed in other fields as a precursor to creating architecture.
- 3) To identify and understand the role of services in the design of buildings; significance of material and construction techniques; climatic factors.
- 4) Introduction to development Regulations (building byelaws and rules); circulation networks (people, vehicular access), site planning.
- 5) To explore Computer Aided Design techniques to generate drawings and models to better understand envelopes and systems in architecture.
- 6) To understand the (thematic) abstract character of architecture (symbolism, aesthetics, identity) in the public domain; influence of sociocultural, economic dimensions; user perception.



Ar. Dominic Harper



Ar. Shubham Kaushal

Studio Faculty



Ar. Vasavi Ranganathan



Ar. Preethi Revankar



Ar. Kiran Baikidy



Ar. Kavitha Pole



Ar. Sushmitha Paul

Faculty: Ar. Dominic L Harper, Ar. Kavitha Pole, Ar. Kiran

Baikidy, Ar. Sushmitha Paul

Harsh S Kothari 1DC20AT027



Faculty: Ar. Dominic L Harper, Ar. Kavitha Pole, Ar. Kiran

Baikidy, Ar. Sushmitha Paul

Harsh S Kothari 1DC20AT027

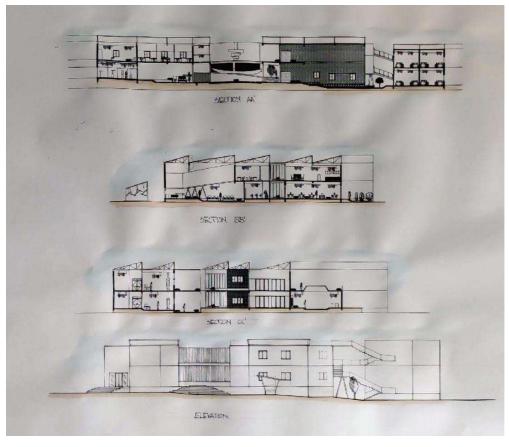


Faculty: Ar. Dominic L Harper, Ar. Kavitha Pole, Ar. Kiran

Baikidy, Ar. Sushmitha Paul

K B Lelith Aditya 1DC20AT030

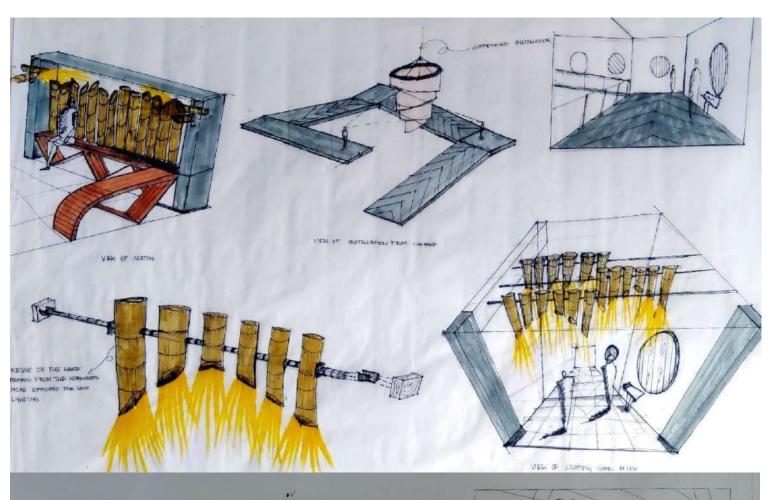


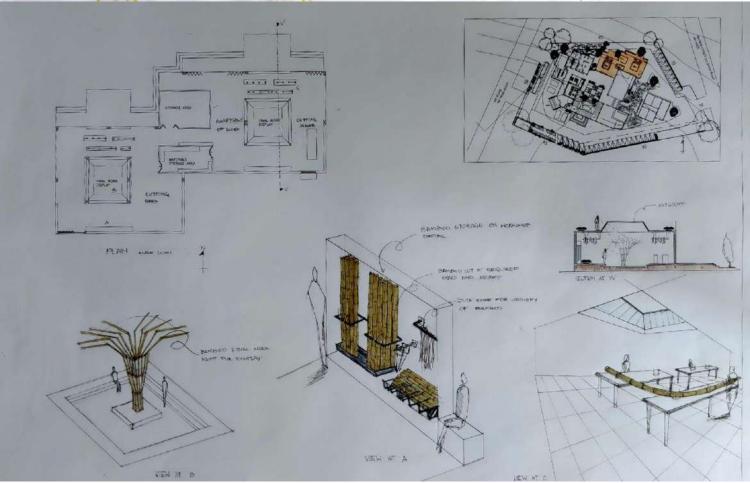


Faculty: Ar. Dominic L Harper, Ar. Kavitha Pole, Ar. Kiran

Baikidy, Ar. Sushmitha Paul

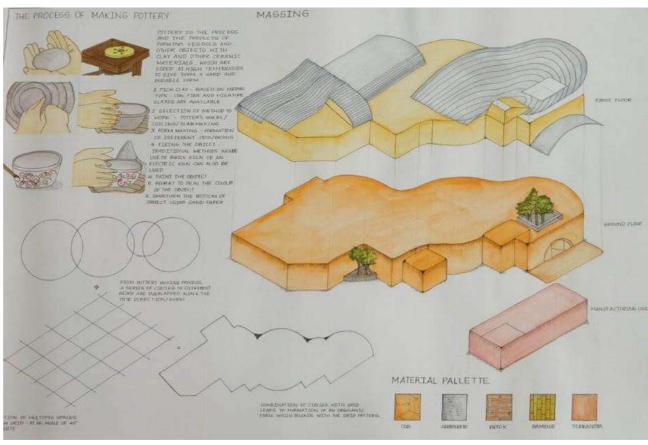
K B Lelith Aditya 1DC20AT030



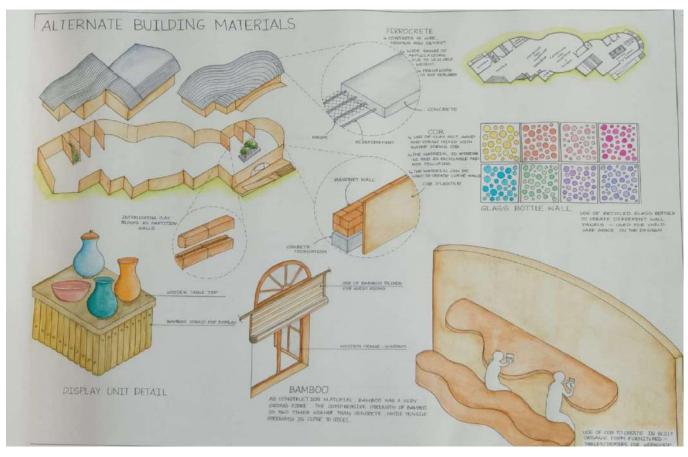


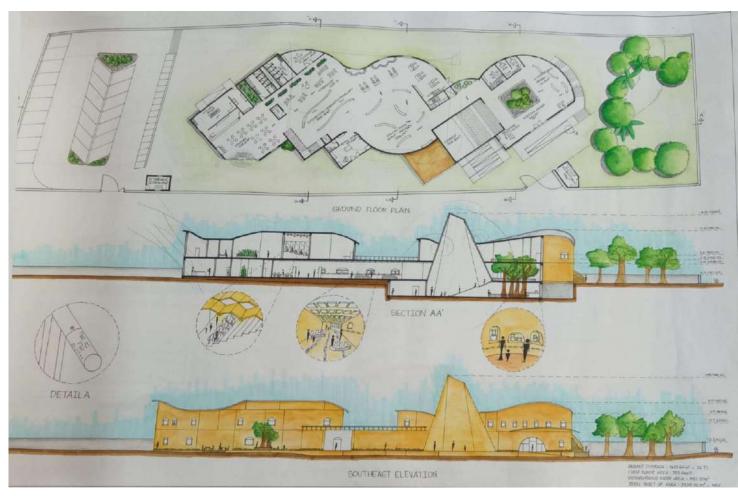
Manasvi M Shetty 1DC20AT038



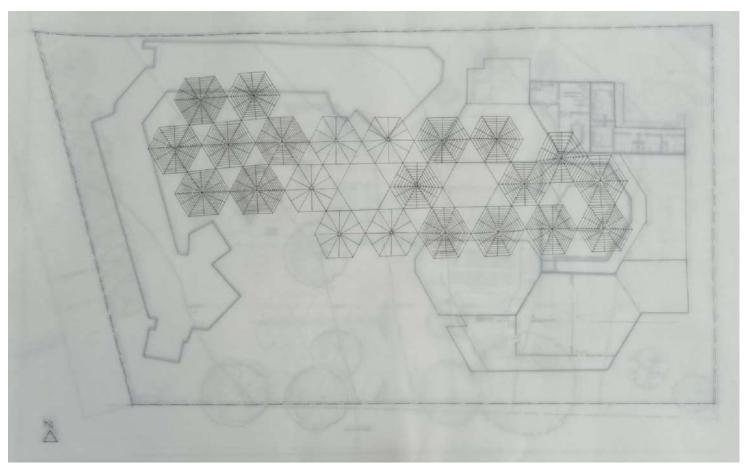


Manasvi M Shetty 1DC20AT038





M K Roopika 1DC20AT044





M K Roopika 1DC20AT044



5th Semester MMBC is largely about long span structures and plastic as a building material The large span structures include, steel trusses, portal frames and pre engineered buildings, shell structures including barrel shells, hyperbolic paraboloids and folded plate structures and geodesic domes and space frames. The topic concludes with tensile and pneumatic structures.

Plastic as a building material is the second topic of the semester and has components like adhesives and additives in building construction, waterproofing is the third and last topic of the semester.

The studio was based on a practical/hands on or experiential learning approach by encouraging the students to build models for all the topics under the large span structures heading. Large scale live models were constructed by the students using different materials and joinery detailing. Thus models for each subtopic like steel trusses, shell structures, space frames and tensile structures were constructed by the students.

A long span workshop with bamboo was also conducted by Er Manjunath BL. The students were taken to site visits to the nearby Kumaraswamy temple campus and KAVIKA factory campus for Trusses and Portal frames. They also had an around the campus introductory visit to understand the long span structures within the campus

MATERIALS AND METHODS OF BUILDING CONSTRUCTION V SUBJECT CODE 18ARC52

Studio Coordinators



Ar. Aparna Shastri



Ar. Dominic L Harper

Studio Faculty

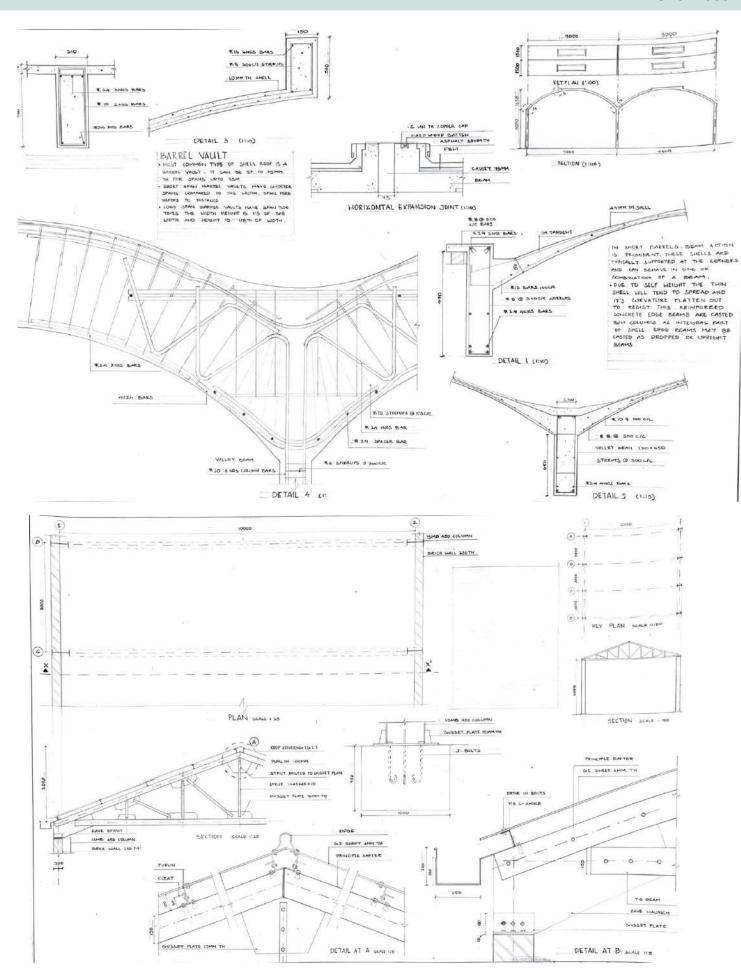


Ar. Surabhi Moharir

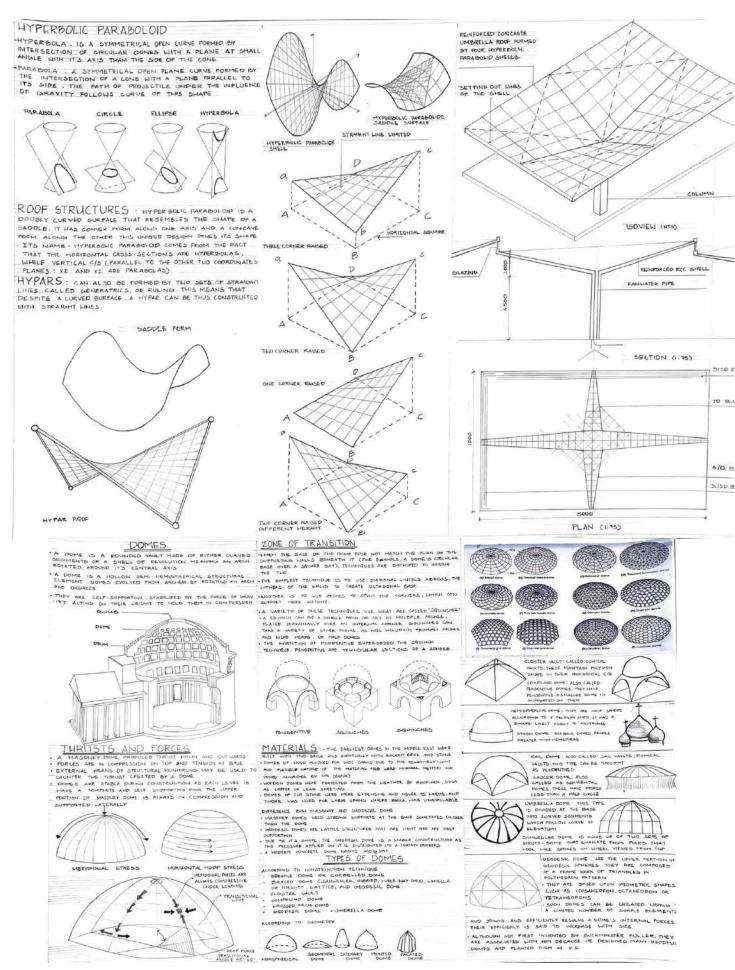


Ar. Divya S

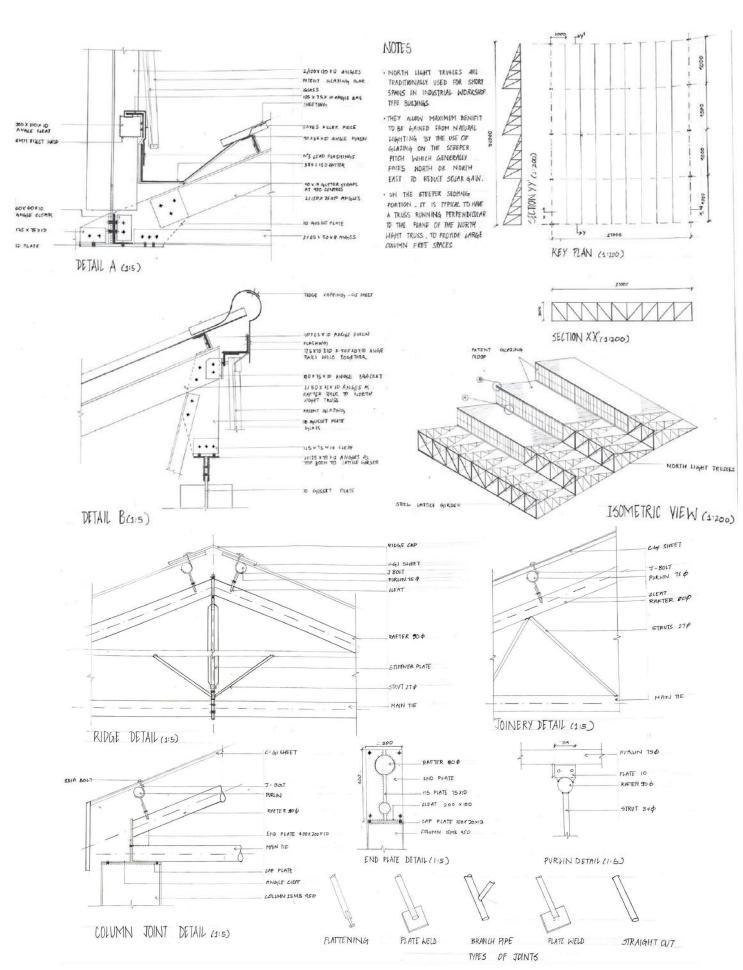
Kaarthik N 1DC20AT033



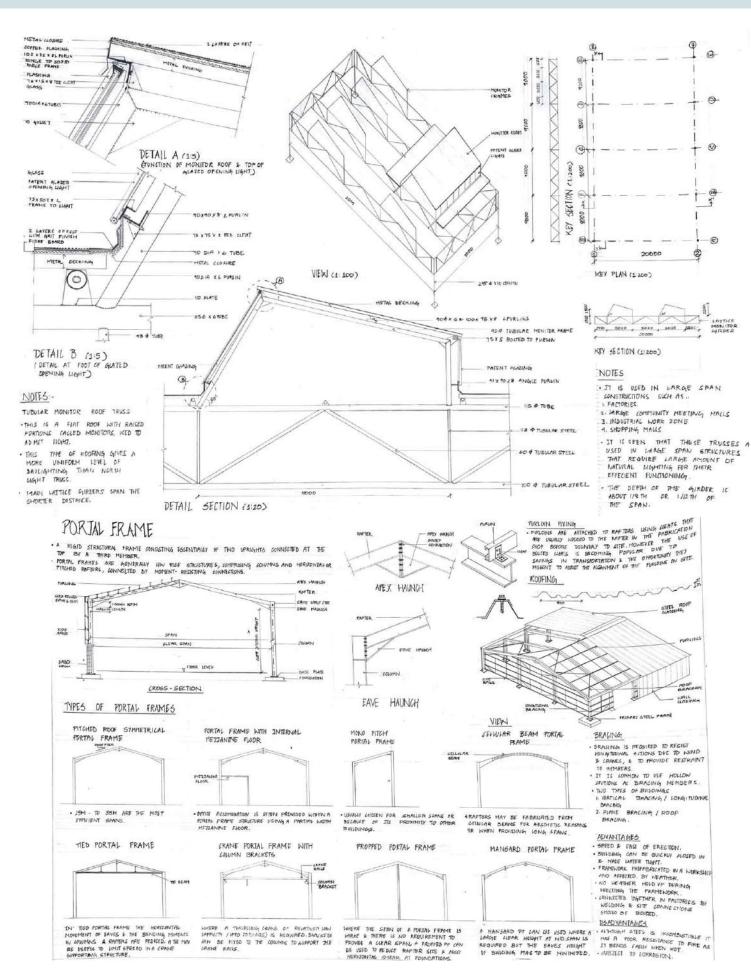
Kaarthik N 1DC20AT033



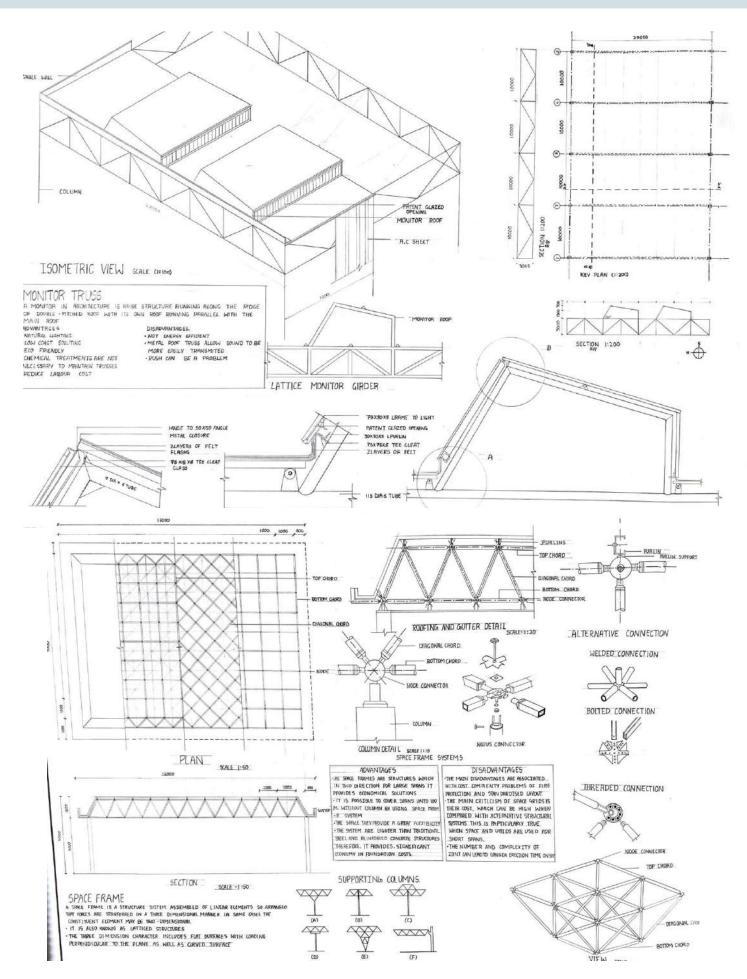
Likitha S 1DC20AT036

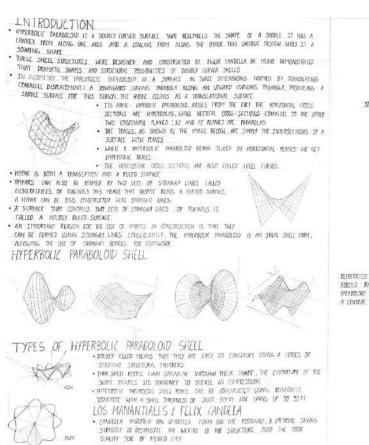


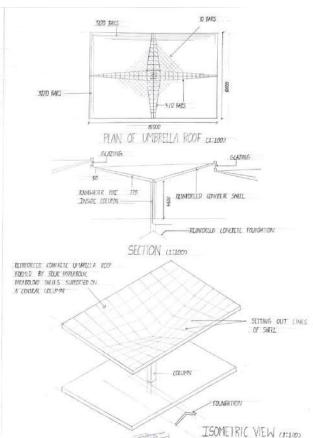
Likitha S 1DC20AT036

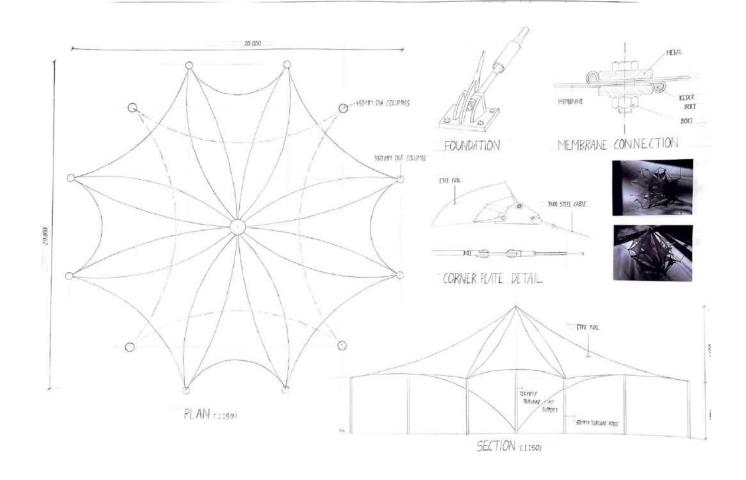


Darshan R S 1DC20AT015









Materials and Methods in Building Construction Faculty: Ar. Dominic L Harper, Ar. Surabhi Moharir

Students of 5B



SOCIOLOGY & BUILDING ECONOMICS SUBJECT CODE 18HUM56

Course Objective:

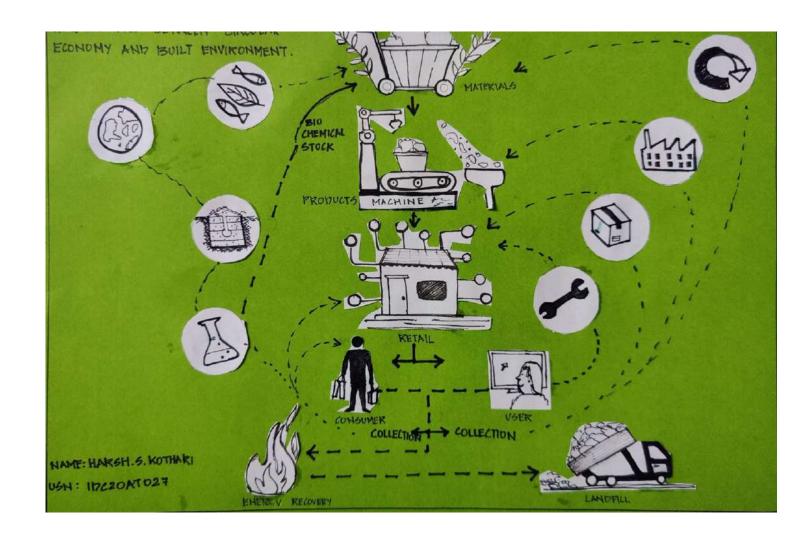
To familiarize students with the basic concepts of sociology and economics and their influence on architecture.

Studio Faculty



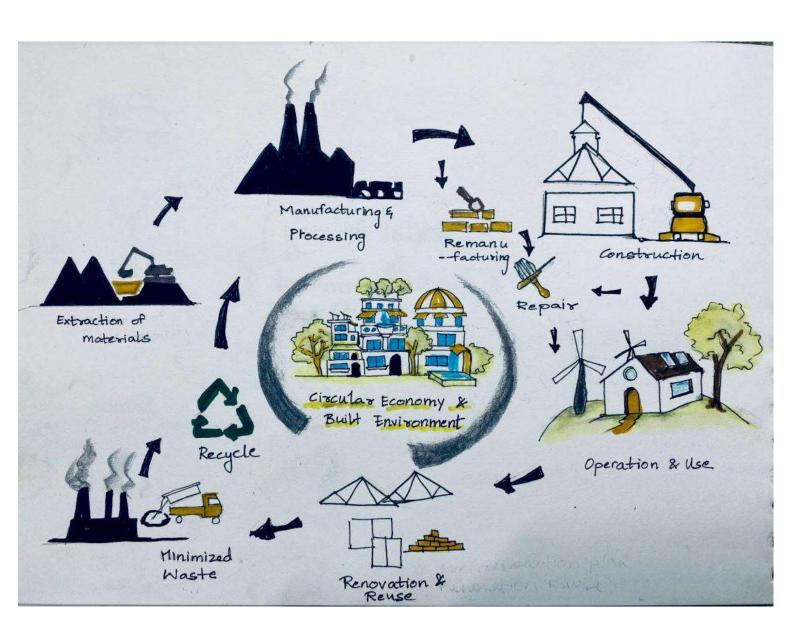
Ar. Nikhil Ravindra

Sociology & Building Economics Faculty: Ar. Nikhil Ravindra



Sociology & Building Economics Faculty: Ar. Nikhil Ravindra

Likitha S (USN)

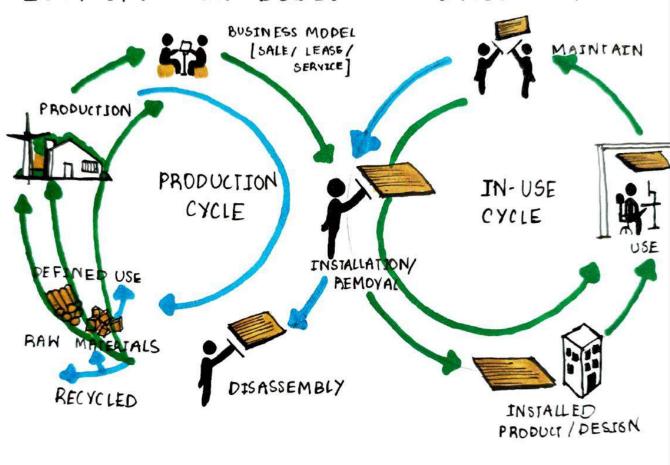


Sociology & Building Economics Faculty: Ar. Nikhil Ravindra

Ritu Kaiwar 1DC20AT058

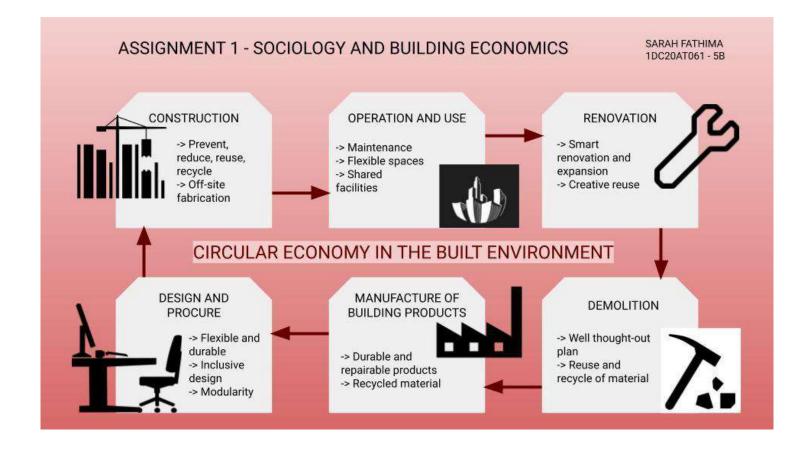


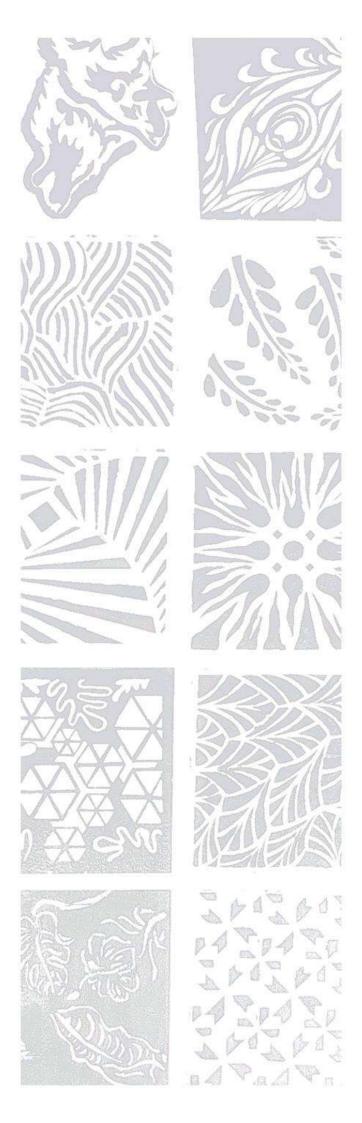
RELATIONSHIP BETWEEN CIRCULAR ECONOMY AND BUILT ENVIRONMENT



RITU KAIWAR 10c20ATO58 V'B' Sociology & Building Economics Ar. Nikhil Ravindra

Sarah Fathima 1DC20AT061





Semester 6th

18 ARC 6.1 ARCHITECTURAL DESIGN VI Even Semester Major Design Project Institute of Integrated Urban Water Management (IUWM), Bengaluru

Course objective (as per syllabus)

 To enable the students to integrate design with history, theory, building construction and material science in a more informed way.
 Outline:

To understand the role of built environments of increasing complexity by:

- a) Intrinsic factors: Size, volume, levels, functional spaces or zones, structural possibilities
- b) External factors: site, approach, traffic, ecology, services
- c) Constraints: bye-laws, budget, ideology, attitudes
- d) Create an 'Identity' to the Campus through integration of the above.

Studio Aim:

To focus on Campus Design Principles and Key considerations like site studies, Landscape strategies to

address the ecological issues, Architectural vocabulary - Buildings that promote Intellectual and social

exchange, understanding and planning for site services, sustainable development strategies - response to and

responsible use of energy and natural resources etc

Studio objective:

Understanding the importance of sites topography and context, to anticipate, propose and design appropriate

functions based on the site understanding and analysis.

The design proposal would be a resultant understanding and the identification of the ecological issues that persist in the locality.

ARCHITECTURAL DESIGN I SUBJECT CODE 21 ARC 11 A Division Studio Coordinators



Ar.Dominic Harper

Studio Faculty



Ar.Steny John



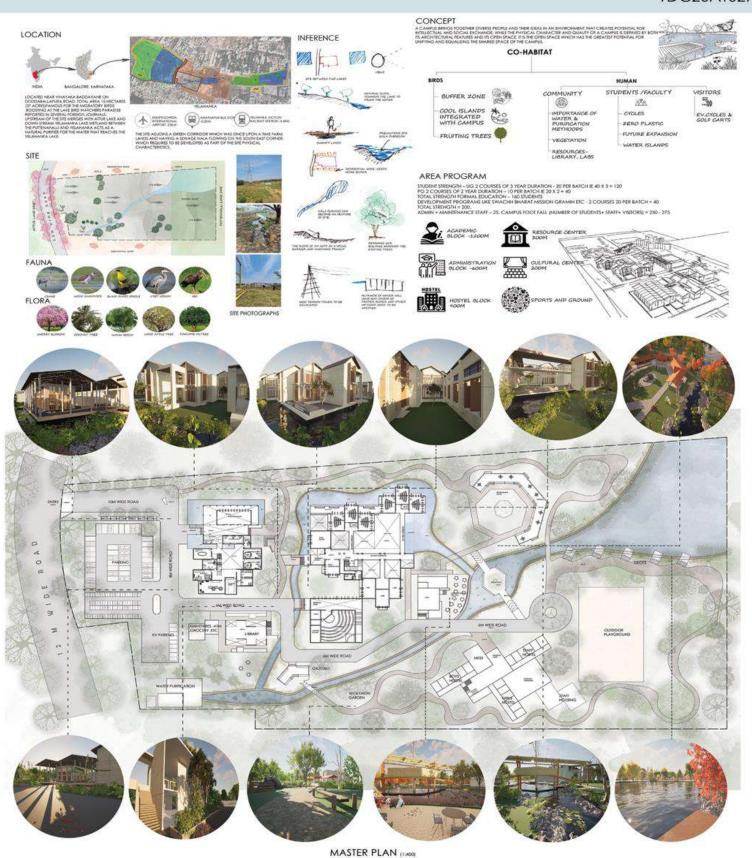
Ar.Kavita Pole



Ar. Vasavi S R

AD VI

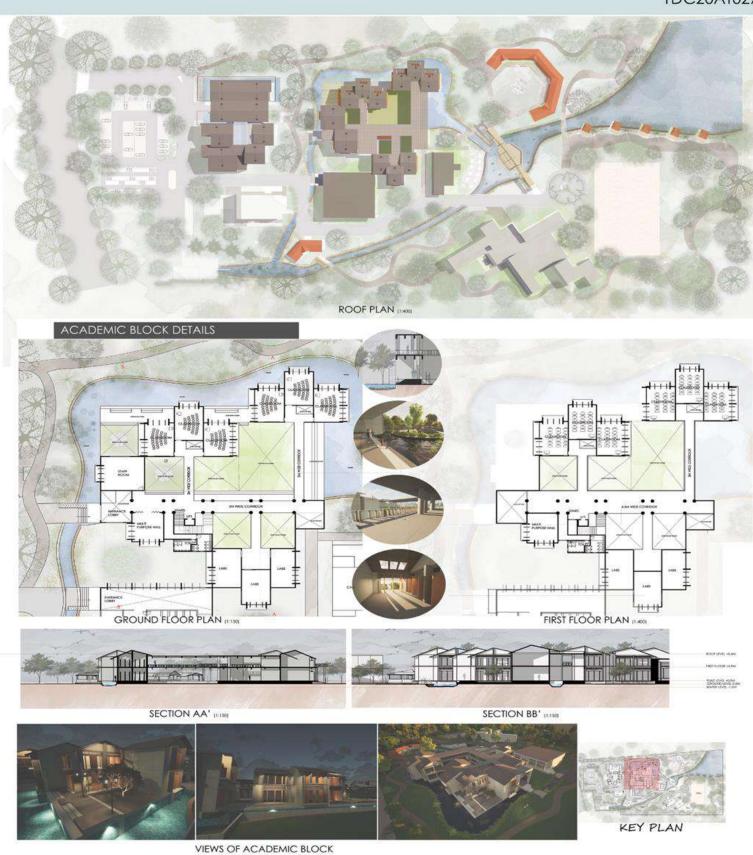
Architectural Design Studio VI Faculty: Ar. Dominic Leonard Harper





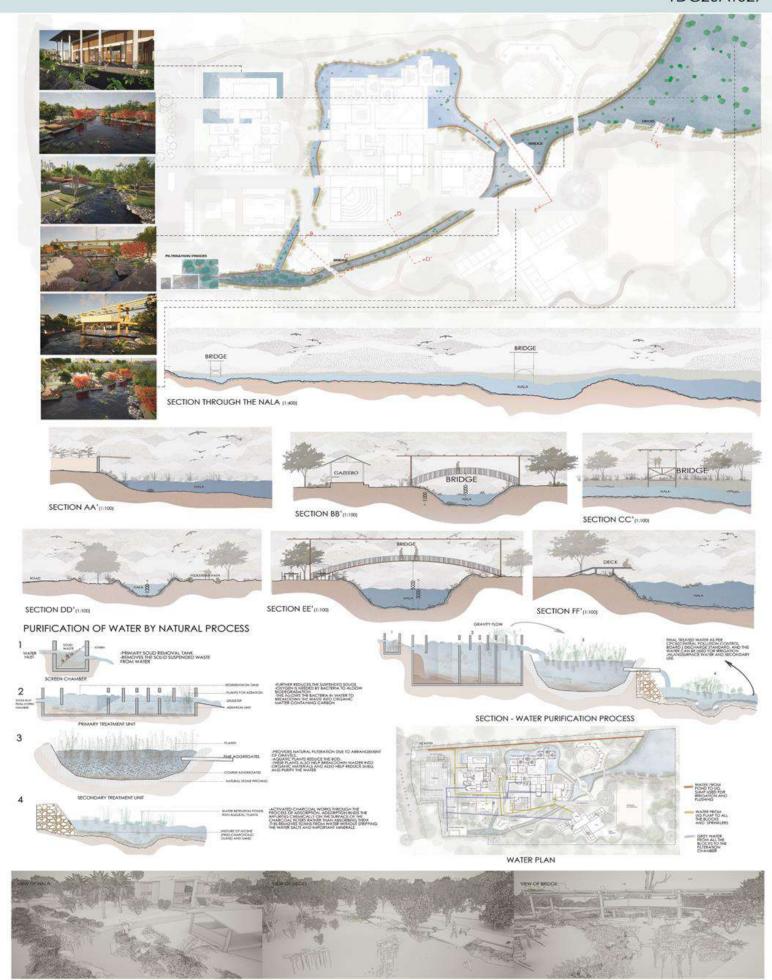
EXTERIOR VEW OF ACADEMIC

Architectural Design Studio VI Faculty: Ar. Dominic Leonard Harper









KAARTHIK N 1DC20AT033



KAARTHIK N 1DC20AT033



KAARTHIK N 1DC20AT033



INSTITUTE OF INTEGRATED URBAN WATER MANAGEMENT (IUWM), YELAHANKA, BENGALURU- ARCHITECTURE DESIGN-VI

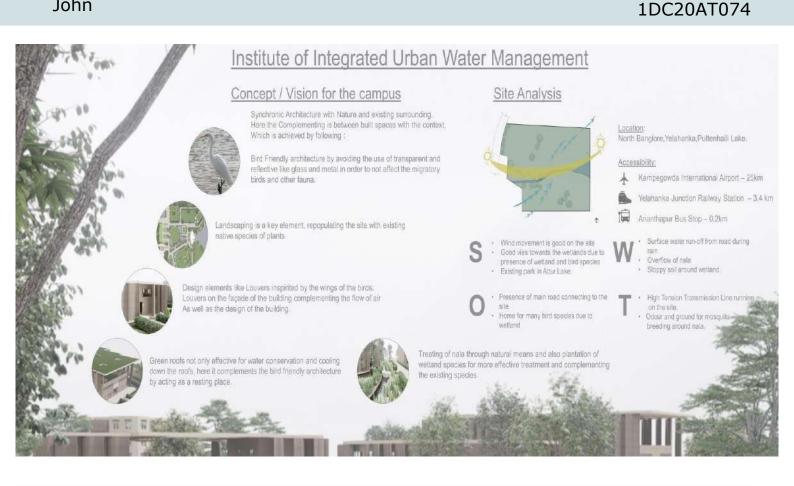
KAARTHIK N 1DC20AT033

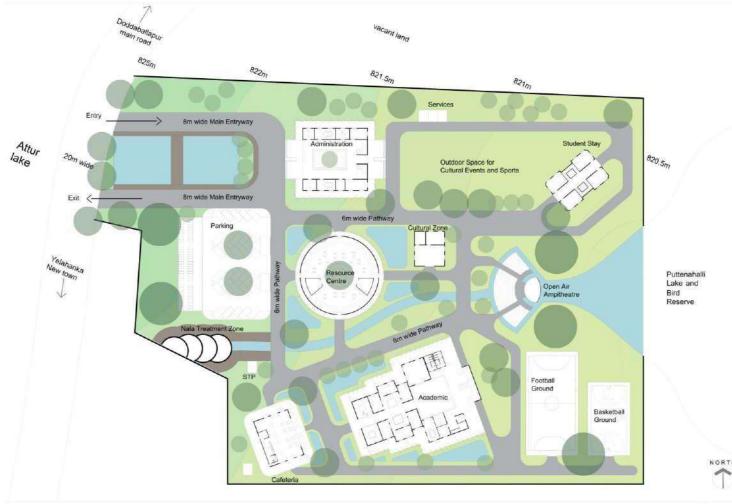


AD VI

Architectural Design Studio VI Faculty: Ar. Steny K Tharun J

John





Master Plan (Ground

CAMPUS DESIGN

Architectural Design Studio VI Faculty: Ar. Steny K

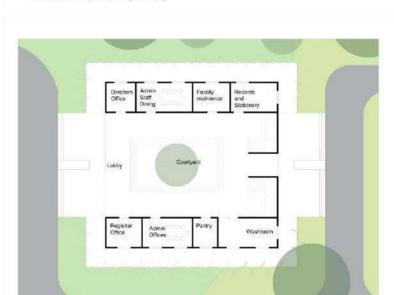
John

AD VI





Academic Section (1:200)



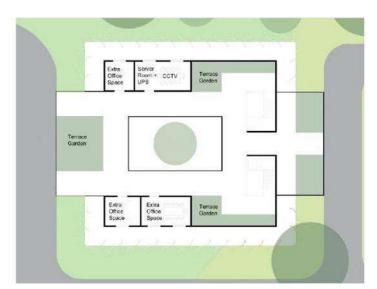
Admin Plan (Ground Level) (1:150)





Academic Plan (First Level) (1:200)





Admin Plan (First Level) (1:150)



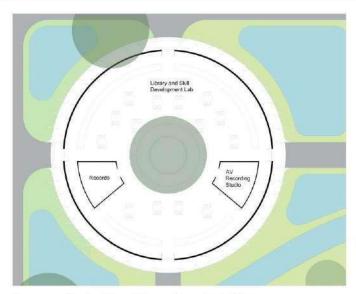


CAMPUS DESIGN

Architectural Design Studio VI Faculty: Ar. Steny K

John

AD VI



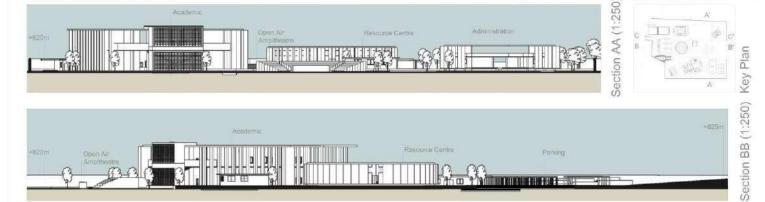
Resource Centre Plan (Ground Level) (1:150)













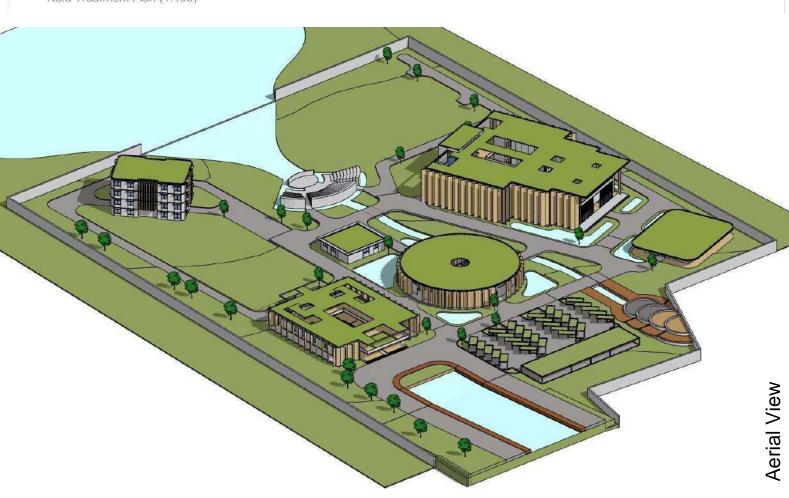
CAMPUS DESIGN

Architectural Design Studio VI Faculty: Ar. Steny K

John

AD VI



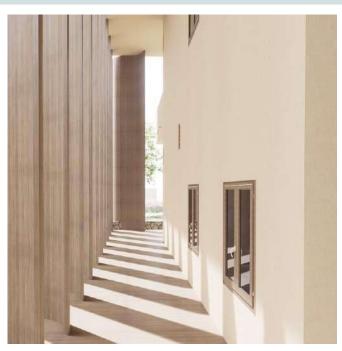


CAMPUS DESIGN

Architectural Design Studio VI Faculty: Ar. Steny K

John

AD VI



















18 ARC 6.1 ARCHITECTURAL DESIGN VI Even Semester Major Design Project Design brief Architectural Design - 18 ARC 61

Studio Mentor- Dhruva Prasad Session: March-July 23 (Even Sem) Studio Faculty-Ar. Ekta | Ar. Kushi | Ar. Litty | Ar. Shubham Studio: 6th sem 'B' Section

"Earth and sky, woods and fields, water bodies and rivers, the mountain and the sea, are excellent schoolmasters, and teach some of us more than what we could learn from books." Introduction

India is likely to face a major challenge in the management of freshwater in view of rapidly rising population and increasing agricultural, industrial and other requirements. As the economy of the country is currently witnessing rapid growth, management of freshwater resources becomes all the more important. A series of actions that are necessary for a long-term solution of the problem are suggested with a view that scarcity of freshwater does not become a hindrance in national economic development and food security.

The Methodology to be followed here is:

- Think and Understand
- 1) Understanding Site Study and the Process.
- 2) Site Study through primary and secondary survey and analysis
- 3) In Depth understanding and site analysis
- 4) Analysis here talks about different layers and aspects of the site and surrounding like the physical aspects ie. Relief, Buildable slopes, Hydrology, Demographics and social connections, Flora Fauna, Morphology, Activity Mapping, etc. This also talks about the tangible and intangible aspects of all the aspects.

Site Area- Master Plan Level - approx 35 acres. Campus -approx 6 Acres.

Built Up- 30-35% considering the eco sensitive area and NGT Lake Buffer. - Hardscape and transition area to be limited to 10%- various other combinations of materials and techniques will be appreciated which encourages water percolation and reduces the need of the hardscape area.

ARCHITECTURAL DESIGN I SUBJECT CODE 21 ARC 11 A Division Studio Coordinators



Ar.Shubham

Studio Faculty



Ar.Litty Salas



Ar. Shruti A Murty



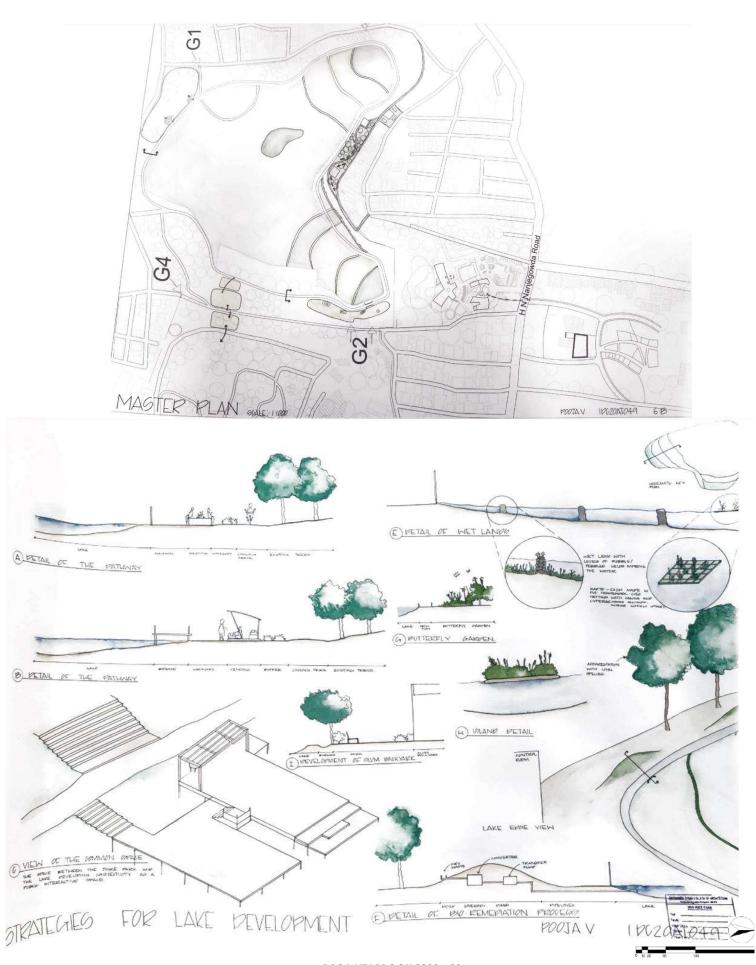
Ar. Khusi Rai



Ar. Ekta Idnany

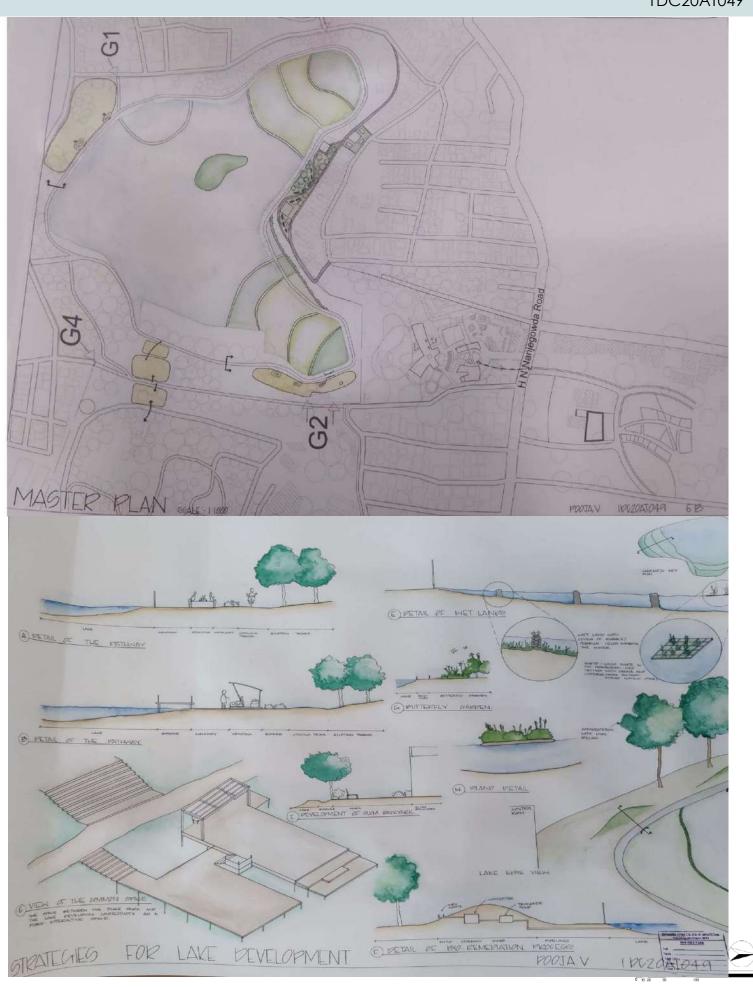
Subject Name

Faculty: Ar. Shubham Kaushal

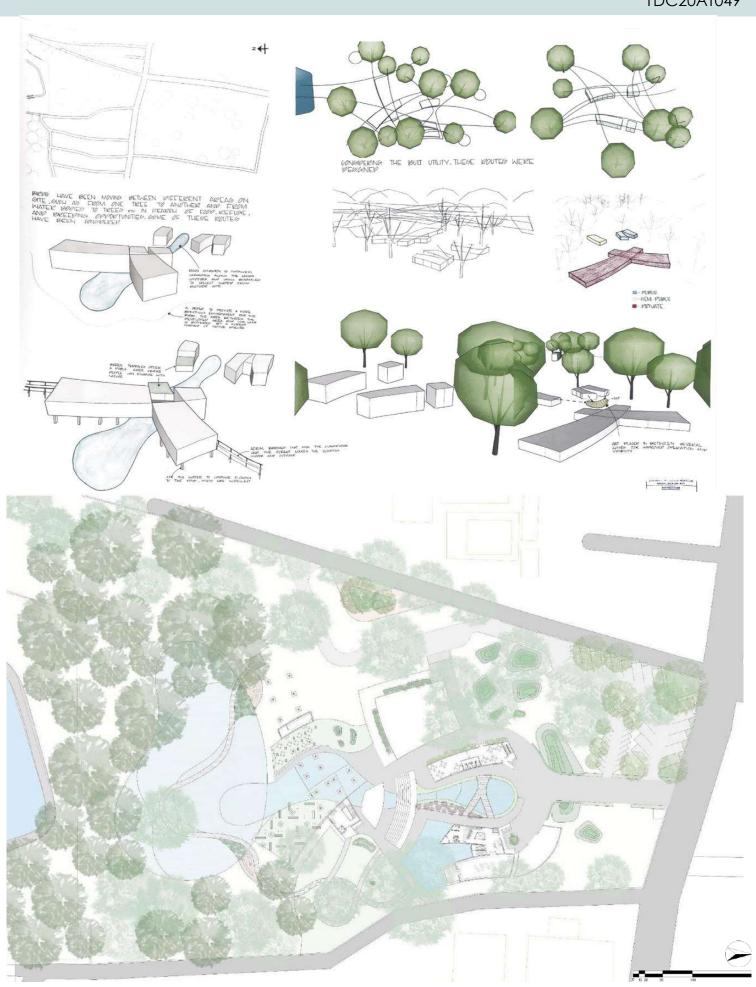


Subject Name

Faculty: Ar. Shubham Kaushal

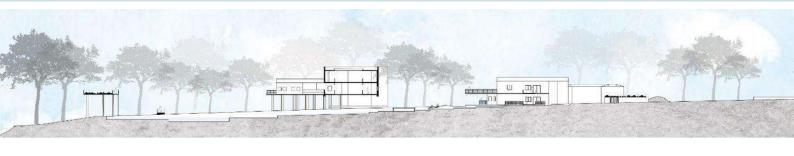


Subject Name Faculty: Ar. Shubham Kaushal

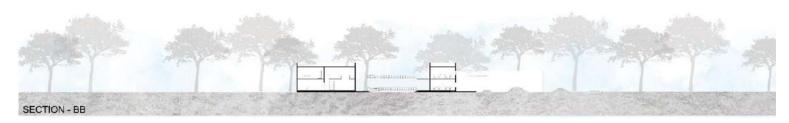


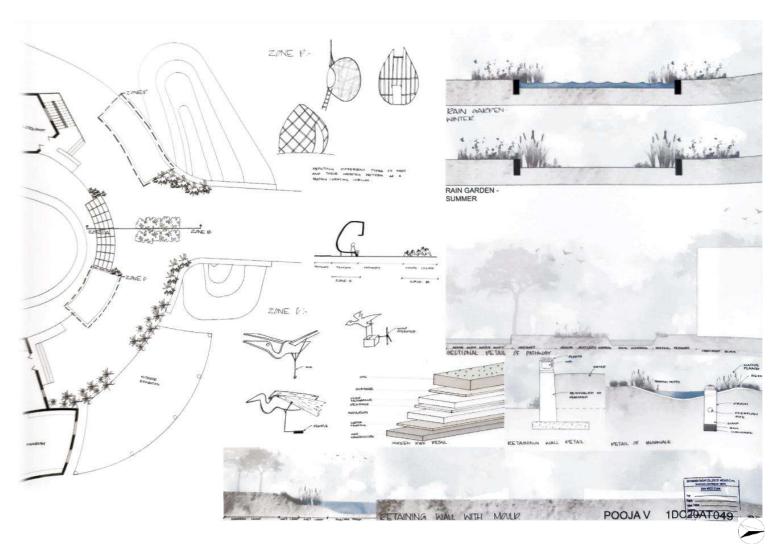
Subject Name

Faculty: Ar. Shubham Kaushal

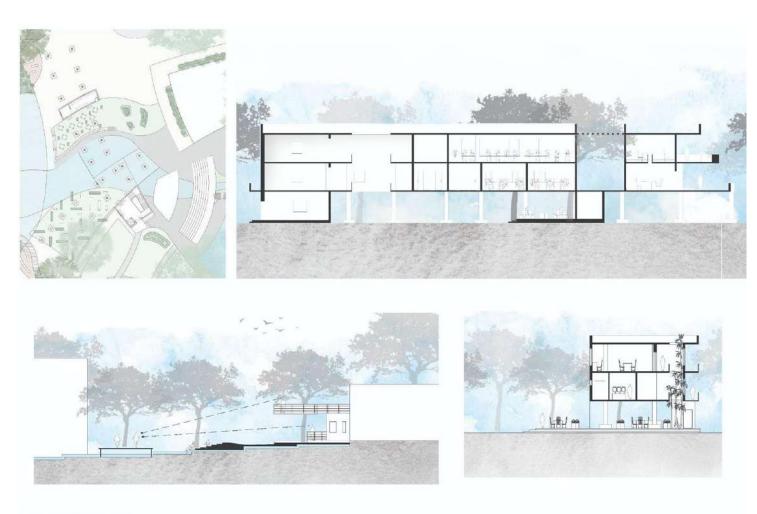




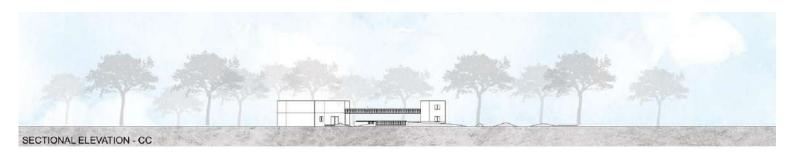




Subject Name Faculty: Ar. Shubham Kaushal



MAIN BLOCK





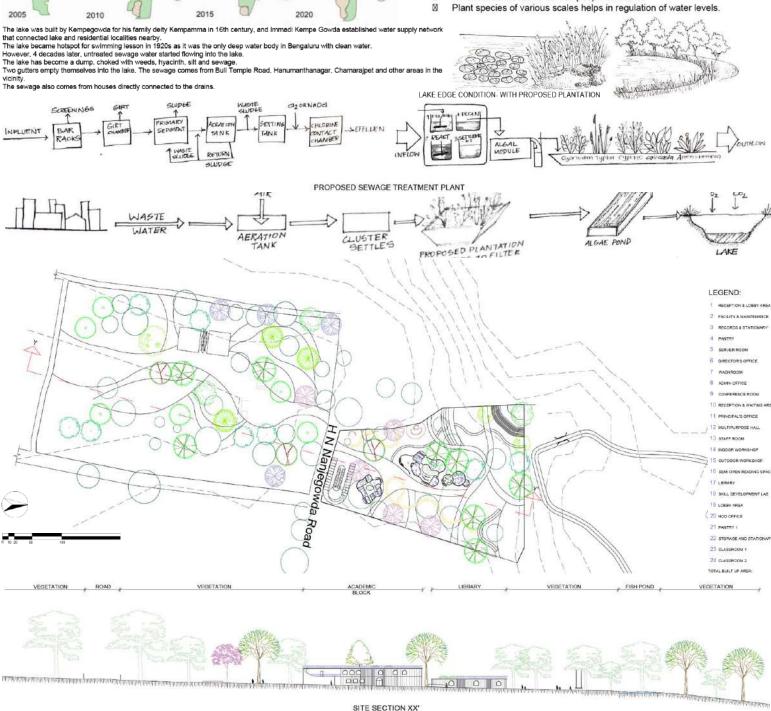
Subject Name Faculty: Ar. Shubham Kaushal

Manasvi M Shetty 1DC20AT038

Strategies for lake development and restoration Steps to treat and maintain the Lake:

- Only treated sewage will enter the lake combined with wetlands and algae ponds.
- Distillation to enhance storage capacity and also to remove contained sediment.
- Wet dredging to remove deposited sediments.
- Remove macrophytes (covered on the water surface) regularly.
- Vegetation, reeds and leaves of native species can be proposed at the lake. edge- filters the lake along with crating pathways.
- No direct connection between people and lake.







TITLE: CAMPUS DESIGN

AD VI

Subject Name

Faculty: Ar. Shubham Kaushal

Manasvi M Shetty 1DC20AT038

Urbanization has taken a heavy toll on many of Bengaluru's lakes and Kempambudhi kere is no exception.

- Once serving as a lifeline that developed the city around it has seen a lot of changes throughout the decades
- Despite of all the changes that the lake has gone through, it still attracts birds, though the percentage of these birds is less in the city

Little grebe Little cormorant Indian spot billed duck Purple moorhen (M) Black winged stilt (M)





- Introducing native flowers and fruits on to the site benefits various bird species
 - Various types of flower gardens are provided to the site that attracts various insects on which several insectivorous birds feed
- A fish pond is added to the site that consists of native fish species such as mrigal and rohu which serves as food for various aquatic and migratory birds.





GROUND FLOOR- ACADEMIC BLOCK

FIRST FLOOR- ACADEMIC BLOCK

GROUND FLOOR- ADMIN BLOCK

GROUND FLOOR- LIBRARY



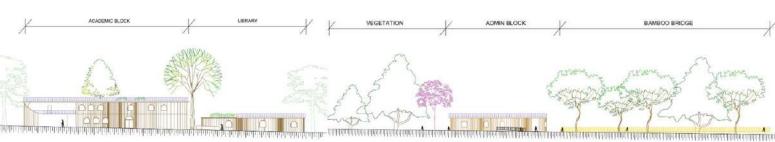
ACADEMIC BLOCK- SECTION AA'

իննահահանամանան հայտանին հիրաբարարի ինչև բարարարության և բարարարության հայտանի հայտարան հայտարան հայտարարարությ



ADMIN BLOCK- SECTION CC'

LIBRARY-SECTION BB'



ELEVATION- ACADEMIC BLOCK AND LIBRARY









DSCA YEARBOOK 2022 - 23

ELEVATION- ADMIN BLOCK





TITLE: CAMPUS DESIGN

AD VI

Subject Name Faculty: Ar. Shubham Kaushal

Manasvi M Shetty 1DC20AT038



















OBJECTIVE: To acquaint the students with construction practices pertaining to structural glazing,

Metal Cladding and roofing systems and to study constructional systems and detailing of alternative material doors, windows and partition.

OUTLINE:

- 1) Glass as a building material: Glass manufacturing in various types like plate, tinted, decorative, reinforced, laminated glass block, fiberglass, glass murals, partially colored glass, etching of glass and its applications in building industry for both exteriors and interiors. Glass fabrication techniques, fiber reinforced composite materials and products.
- 2) Frameless glass doors and windows and partitions: Fixing and fabrication details.
- 3) Structural Glazing and cladding: Fixing and fabrication details.
- 4) Point supported glazing: Fixing and fabrication details.
- 5) Introduction to metal cladding: ACP, Aluminum louvers; Fixing and fabrication details.
- 6) Metal cladding of facades and building envelopes: Fixing and fabrication details.
- 7) UPVC, PVC & Doors and windows and partitions (Detailing and study of joinery).
- 8) Wooden sliding and folding doors and partitions: Principles and methods of construction and detailing.
- 9) Steel sliding and folding doors and partitions: Principles and methods of construction and detailing.
- 10) Aluminum sliding and folding doors and partitions: Principles and methods of construction and detailing.
- 11) Skylight in steel and glass: Principles and methods of construction and detailing.
- 12) Alternative wall technologies: Sandwich panel walls, PUF panels etc.

MATERIALS AND METHODS IN BUILDING CONSTRUCTION-VI SUBJECT CODE 18ARC62

Studio Coordinators



Ar.Dominic Harper

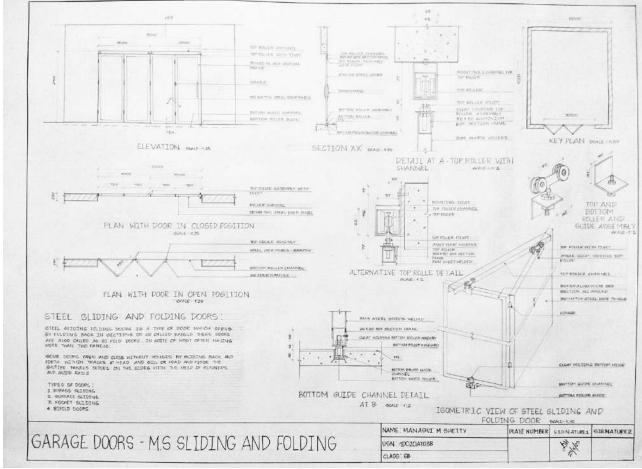
Studio Faculty

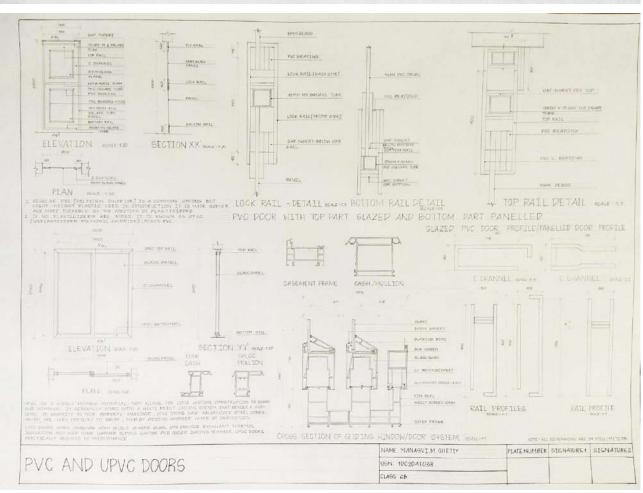


Ar.Surabhi Moharir

Subject Name:Materials and Methods in Building Construction Faculty: Ar. Dominic Harper , Ar. Surabhi Moharir

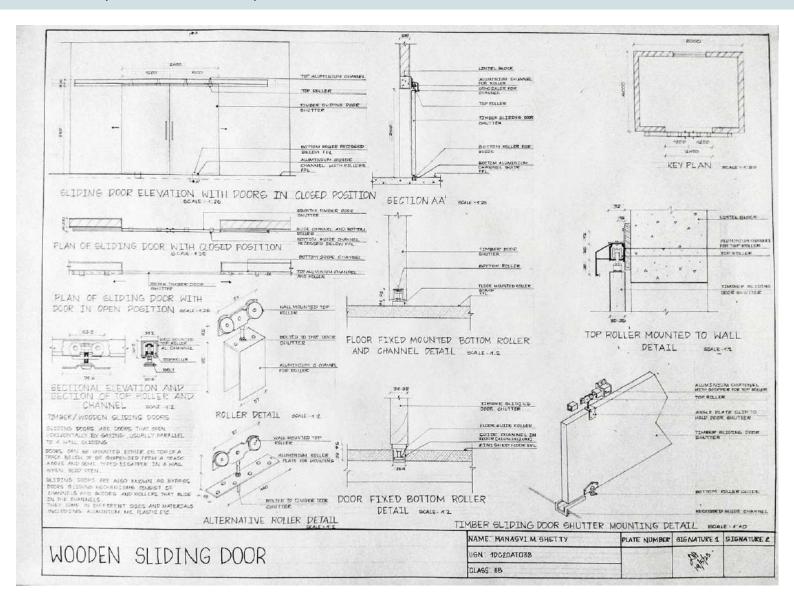
Manasvi M Shetty 1DC20AT038





Subject Name:Materials and Methods in Building Construction Faculty: Ar. Dominic Harper , Ar. Surabhi Moharir

Manasvi M Shetty 1DC20AT038



1 OBJECTIVE:

- 1. To introduce the students to the discipline of Landscape Architecture.
- 2. To advance analytical and planning skills for Architectural project sites.
- 3. To develop design skills for small landscape projects.

Course Outline:

Introduction, design philosophies and contemporary approaches to landscape architecture and

design are reviewed through various landscape design projects over time while modules on site analysis, site planning, elements of landscape architecture and landscape design process are supported with theoretical inputs.

Mode of study:

- i. Lecture component: Various landscape design projects to explain the design philosophies, theoretical aspects of site analysis and site planning, element of landscape architecture and design process will be delivered as lecture component.
- ii. Literature study: Exercise on 'relating architecture and landscape' may be undertaken as a

literature study exercise.

iii. Studio component:

18ARC66 – LANDSCAPE ARCHITECTURE

Studio Coordinators



Ar. Vasavi S R



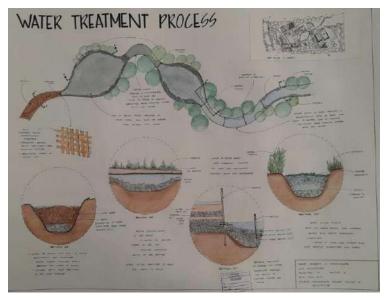
Ar.Shubham Kaushal

CAMPUS NALA EDGE

18ARC66 – LANDSCAPE ARCHITECTURE Faculty: Ar. Vasavi S R

Anagha Chinchalkar 1DC20AT003







LANDSCAPE DESIGN

18ARC66 – LANDSCAPE ARCHITECTURE Faculty: Ar. Vasavi S R

Ayan Kumar 1DC20AT009

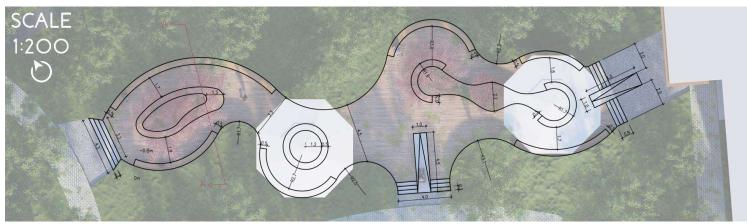


The landscape embodies a versatile haven, catering to relaxation, productivity, and connectivity, all while prioritizing inclusivity and ensuring accessibility for everyone.

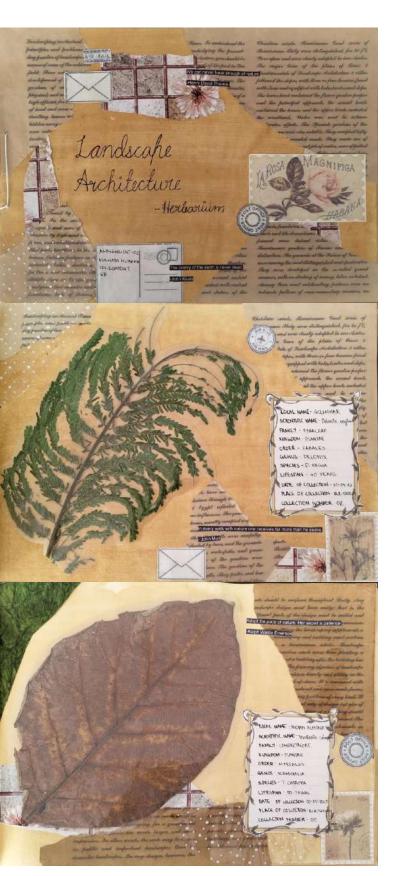




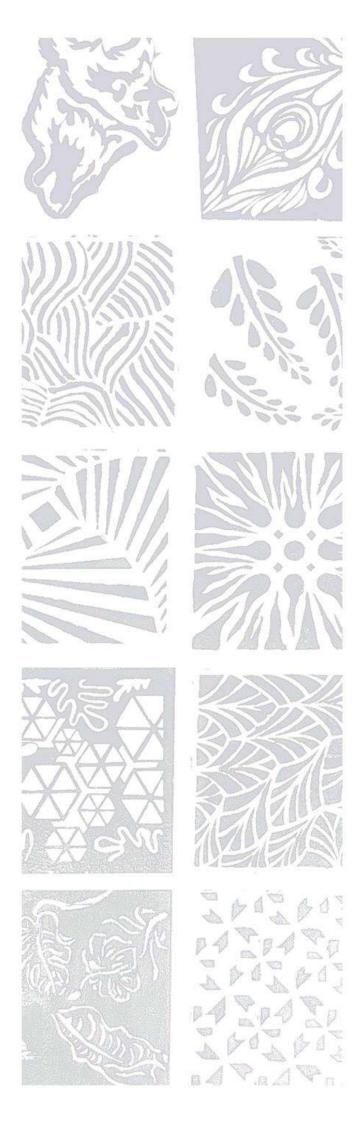




18ARC66 – LANDSCAPE ARCHITECTURE Faculty: Ar.Shubham Kaushal







Semester

Ramanagara - The city and town

Ramanagara, the district was carved out of the erstwhile Bengaluru district in 2007, which

comprises of Ramanagara, Channapatna, Kanakpura and Magadi taluks. a subdivision of a

district; a group of several villages organized for revenue purposes. Ramanagara is a town and a

city municipal council in Karnataka. It is also the headquarter of Ramanagara district. The

town was known as Shamserabad at the ruling time of the Tippu Sultan. It was then called

Closepet, after Sir Barry Close in pre-independence time period. It was renamed Ramanagara by

the former chief minister of Karnataka state Mr Kangal Hanumanthayya. The district has a

population of nearly 11 lakhs (10,82,739) according to Census 2011 and is about 50 km from

Bengaluru and Bangalore-Mysore State Highway No.17. The average rainfall is 622.80 metres

above sea level and 931.58 mm annually.

Economy

Ramanagara is well known for its sericulture and is nicknamed Silk Town and Silk City. The silk

produced in this region forms the input for the famous Mysore Silk. Ramanagara is the largest

market for silk cocoons in Asia. 50 tonnes of cocoons a day arrive at the town. Ramanagara also

has extensive granite quarry sites.

Ramanagar district is famous for traditional toys and cultural activities and is the largest market in Asia.

Ramanagara district can be reached by road from Karnataka and Karnataka State Road and Train within one hour. The nearest airports in Mysore and Kepegowda International Airport are about 85 km away. Ramanagar district has modern office

buildings such as Panchayat Bhavan, Kandaya Bhavan, Mini Vidhana Soudha, Taluk Office, Deputy Commissioner's Office, Sub-Deputy

Offices, Police Department and District Court, and Police Buildings.

Industrial Area

The Bidadi Industrial Area of Ramanagar District has manufacturing units for Toyota and Coca-Cola and includes a 1400 MW gas-based power plant.

Tourism

The famous Hindi film SHOLAY has been shot around these hills and so is the name Sholay hills. The magnificent stones of the pig-gundi reserve forest in Ramanagar are very old and famous for their landscape. Ramdevara Betta, Revanna Siddheswara Betta, Kangal Anjaneya Swami, Sri Brahmana Theertha Brindavan, Sri Ranganathaswamy Temple, Maganchanbele Dam, Harobele Dam Chunchi Falls, Kanakapura, Mekedatu, Savandurga, Thippagondanahalli Reservoir, Janapada Loka are famous.

ARCHITECTURAL DESIGN I SUBJECT CODE 21 ARC 11

Studio Coordinators



Ar Anshu Darbari



Prof Aurobindo Gupta

Studio Faculty



Ar Sudeep Bhoopalam



Ar Sindhu Jagannath

OBJECTIVES

- 1. To understand the subject of Architecture as an integrated field which works in tandem with Technology, Design, Economy, Ecology, Geography and Sociology etc.
- 2. To rethink architecture as a man-made ecosystem, which is self-contained and sustainable.
- 3. To be able to identify and augment the right set of knowledge kit (from the learnt courses and electives) that will steer the approach to the brief in a strong direction

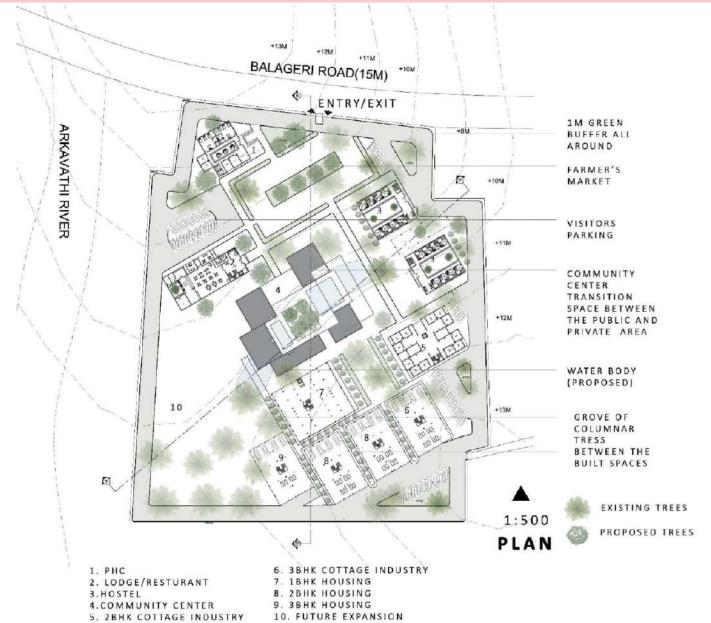
AD VII C

Architectural Design

Faculty: Ar Anshu Darbari, Prof Arobindo Gupta, Ar Sudeep

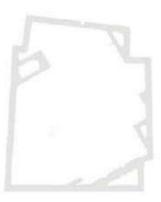
Bhoopalam, Ar Sindhu Jagannath

YASHASWINI L GOWDA 1DC19AT101





BUILTUP -GROUND COVER -



VEHICULAR PATHWAY - 6M WIDE



EXISITING
VEGETATION COCONUT TREE



PROPOSED VEGETATION -EX.COLUMNAR TREES

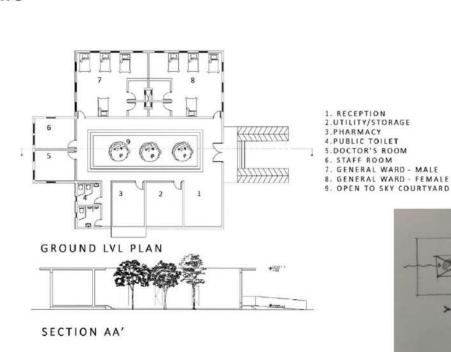
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Architectural Design

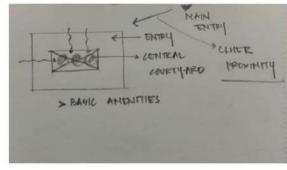
Faculty: Ar Anshu Darbari, Prof Arobindo Gupta, Ar Sudeep Bhoopalam, Ar Sindhu Jagannath

YASHASWINI L GOWDA 1DC19AT101

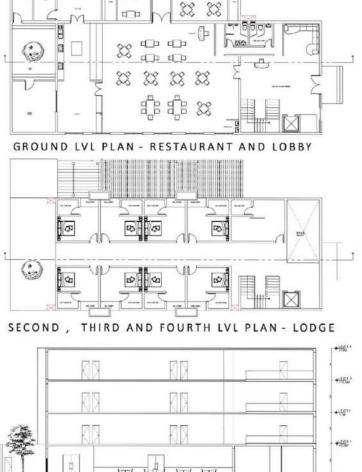
PHC





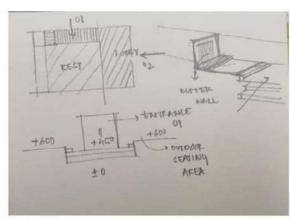


RESTAURANT / LODGE



ਸ਼ਰ ਮੈਜੈਰ ਸ਼ਰ ਸ਼ਰ







VIEW

AD VII C

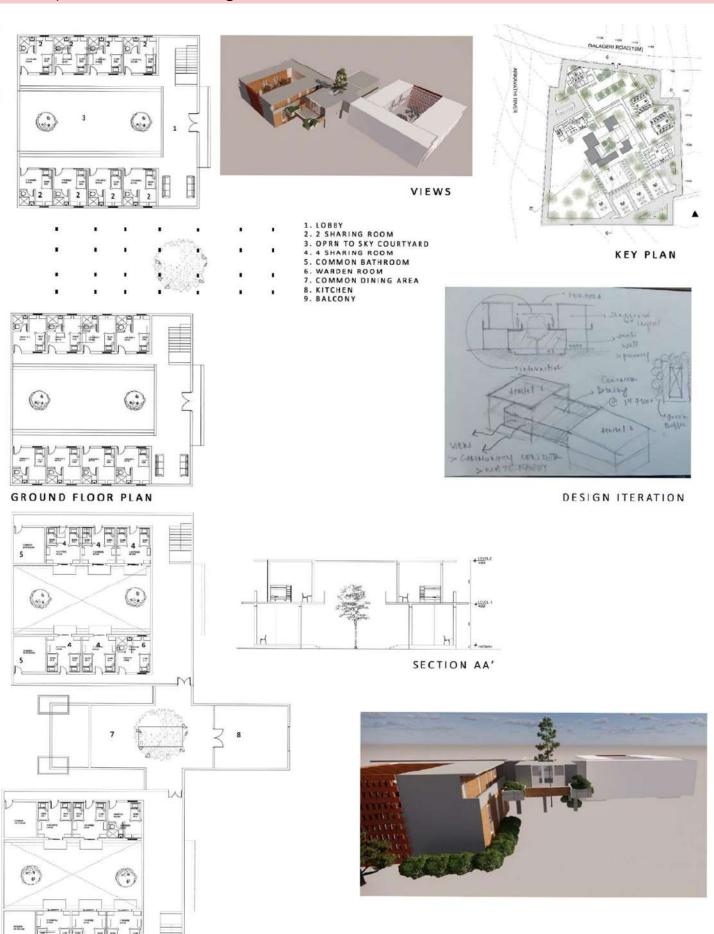
Architectural Design

FIRST FLOOR PLAN

Faculty: Ar Anshu Darbari, Prof Arobindo Gupta, Ar Sudeep

Bhoopalam, Ar Sindhu Jagannath

YASHASWINI L GOWDA 1DC19AT101



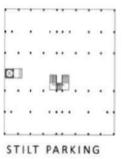
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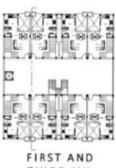
Architectural Design

Faculty: Ar Anshu Darbari, Prof Arobindo Gupta, Ar Sudeep Bhoopalam, Ar Sindhu Jagannath

YASHASWINI L GOWDA 1DC19AT101

PLANS 1:200



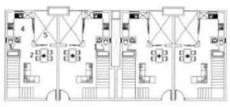


KEY PLAN

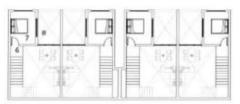


THIRD LVL

FOURTH LVL



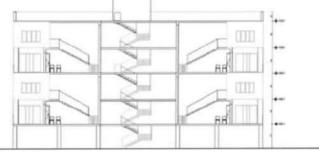
FIRST AND THIRD LVL FLOOR PLAN



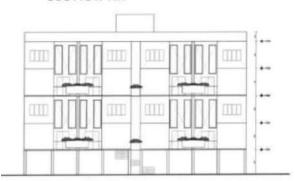
SECOND AND FOURTH LVL FLOOR PLAN

- LIVING ROOM DINING ROOM COMMON BATHROOM
- KITCHEN
- DOUBLE HEIGHT SIT OUT MEZZANINE FLOOR
- BEDROOM 1 SIT OUT BELOW

HEZ PLIN



SECTION AA'



ELEVATION

DESIGN ITERATIONS





VIEWS SCALE 1:100

AD VII C

Architectural Design

Faculty: Ar Anshu Darbari, Prof Arobindo Gupta, Ar Sudeep

MEZZANINE FLOOR

11.BALCONY 1 12. BEDROM 2 13. STUDY 14. SIT OUT BELOW

15. BALCONY 2 16. BEDROOM3 17. COMMON BATHROOM

18. TERRACE

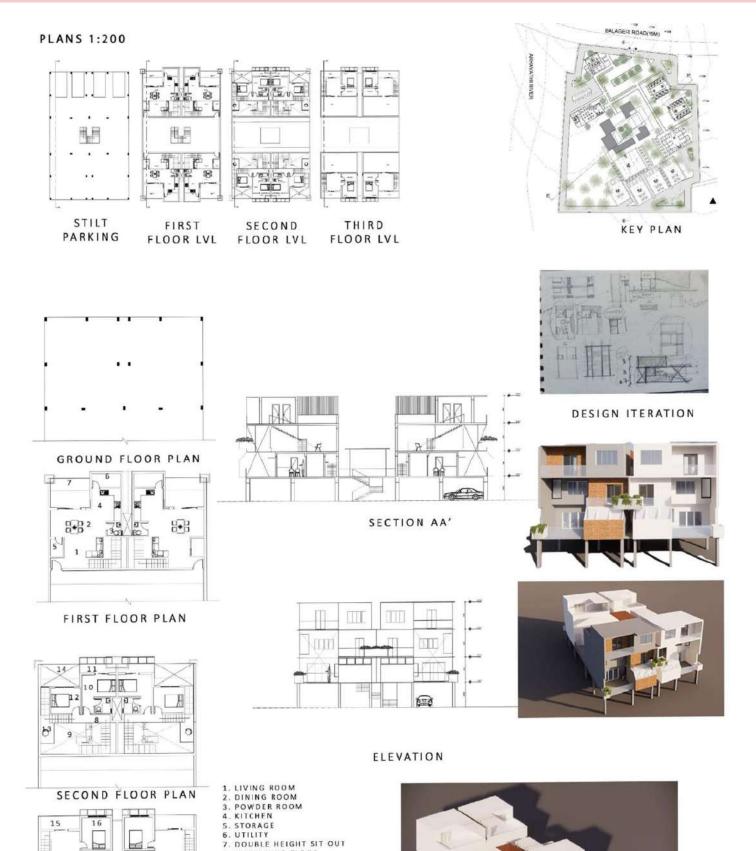
9. DOUBLE HEIGHT 10.BEDROOM 1 WITH BATH

17

THIRD FLOORPLAN

Bhoopalam, Ar Sindhu Jagannath

YASHASWINI L GOWDA 1DC19AT101

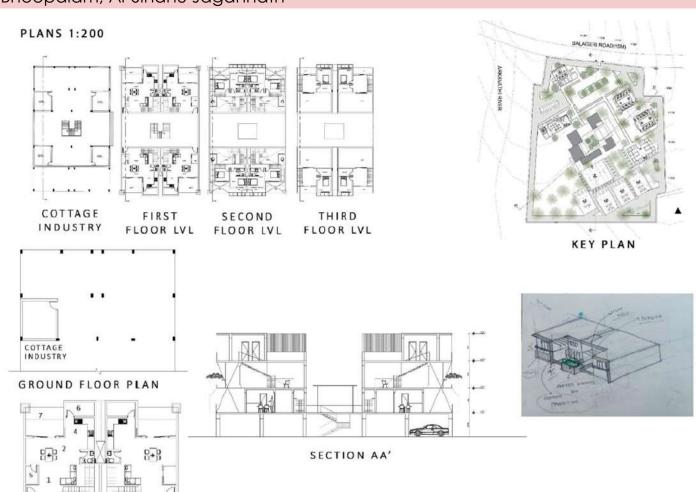


AD VII C

Architectural Design

Faculty: Ar Anshu Darbari, Prof Arobindo Gupta, Ar Sudeep Bhoopalam, Ar Sindhu Jagannath

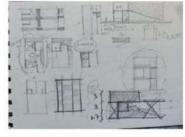
YASHASWINI L GOWDA 1DC19AT101



FIRST FLOOR PLAN







DESIGN ITERATIONS



16. BEDROOM3 17. COMMON BATHROOM

18. TERRACE

THIRD FLOORPLAN 12. BEDROM Z 13. STUDY 14. SIT OUT BELOW 15. BALCONY Z

- LIVING ROOM
- 2. DINING ROOM 3. POWDER ROOM
- 4. KITCHEN 5. STORAGE 6. UTILITY
- 7. DOUBLE HEIGHT SIT OUT 8. MEZZANINE FLOOR
- 9. DOUBLE HEIGHT 10 BEDROOM 1 WITH BATH 11.BALCONY 1





VIEWS

AD VII C

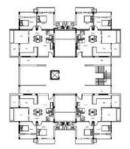
Architectural Design

Faculty: Ar Anshu Darbari, Prof Arobindo Gupta, Ar Sudeep

Bhoopalam, Ar Sindhu Jagannath

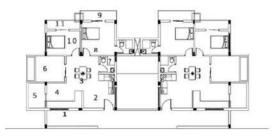
YASHASWINI L GOWDA 1DC19AT101



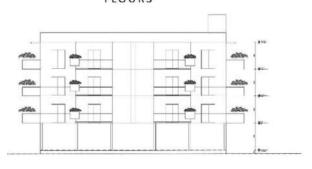


1:200



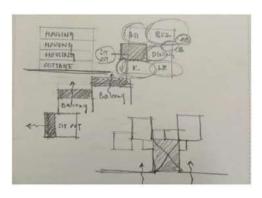


SIMILAR LAYOUT PLANS FOR FIRST , SECOND AND THIRD FLOORS



ELEVATION

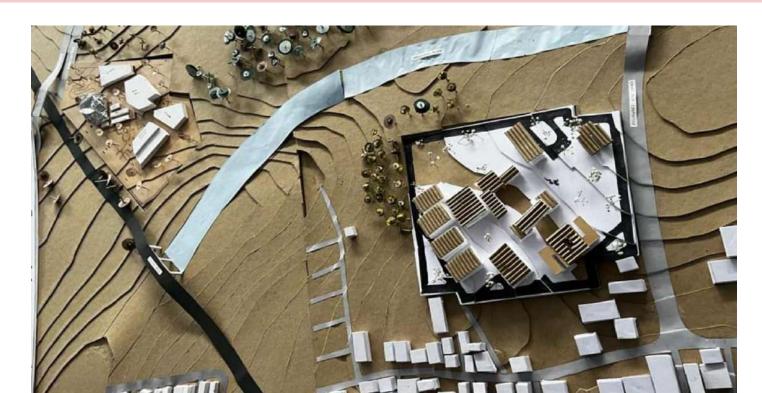




DESIGN ITERATION



Faculty: Ar Anshu Darbari, Prof Arobindo Gupta, Ar Sudeep Bhoopalam, Ar Sindhu Jagannath YASHASWINI L GOWDA 1DC19AT101

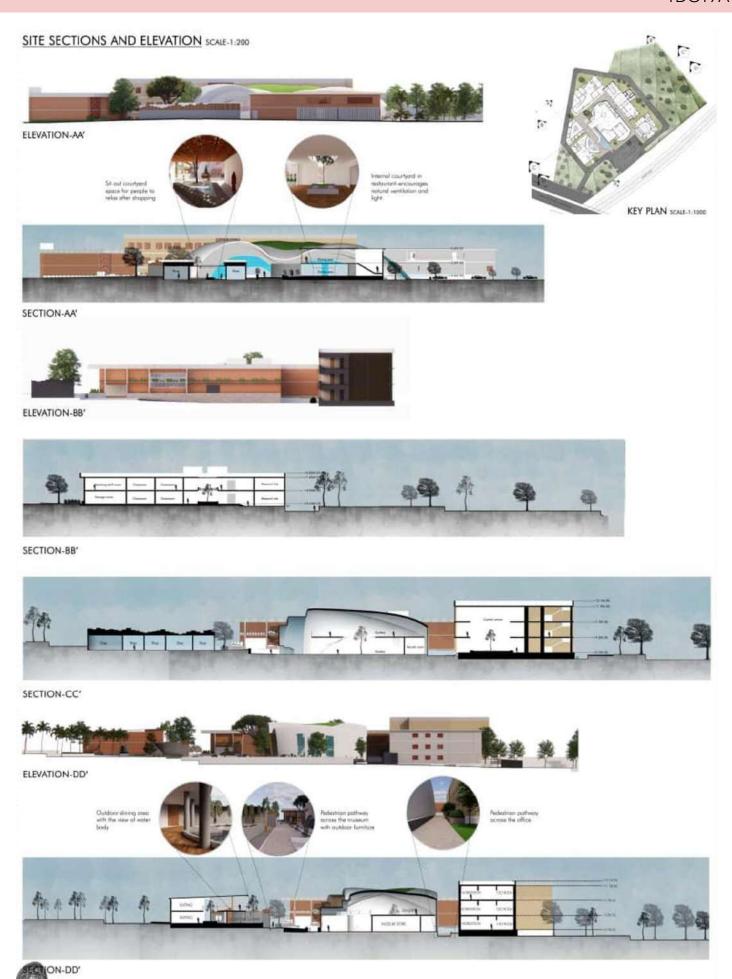












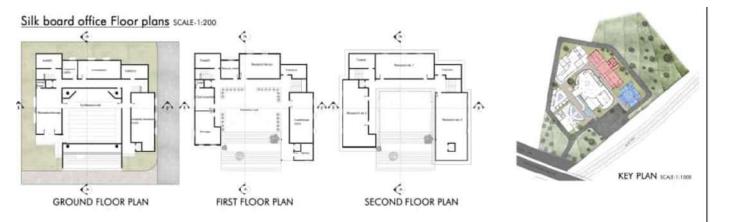




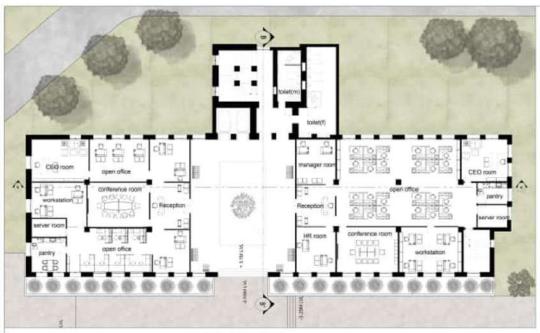
Retail Shop Floor plan SCALE-1:100



Tushar Setiya 1DC19AT005



Retail office Floor plans SCALE-1:100



GROUND FLOOR PLAN

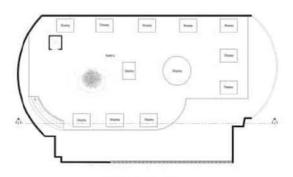


Tushar Setiya 1DC19AT005

Museum Floor plans SCALE-1:200



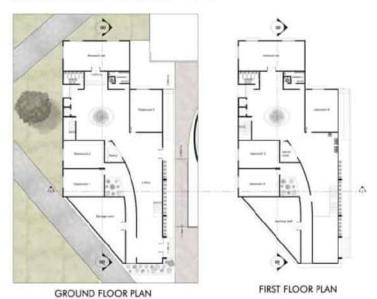
GROUND FLOOR PLAN



FIRST FLOOR PLAN



Research Institute Floor plans SCALE-1:200



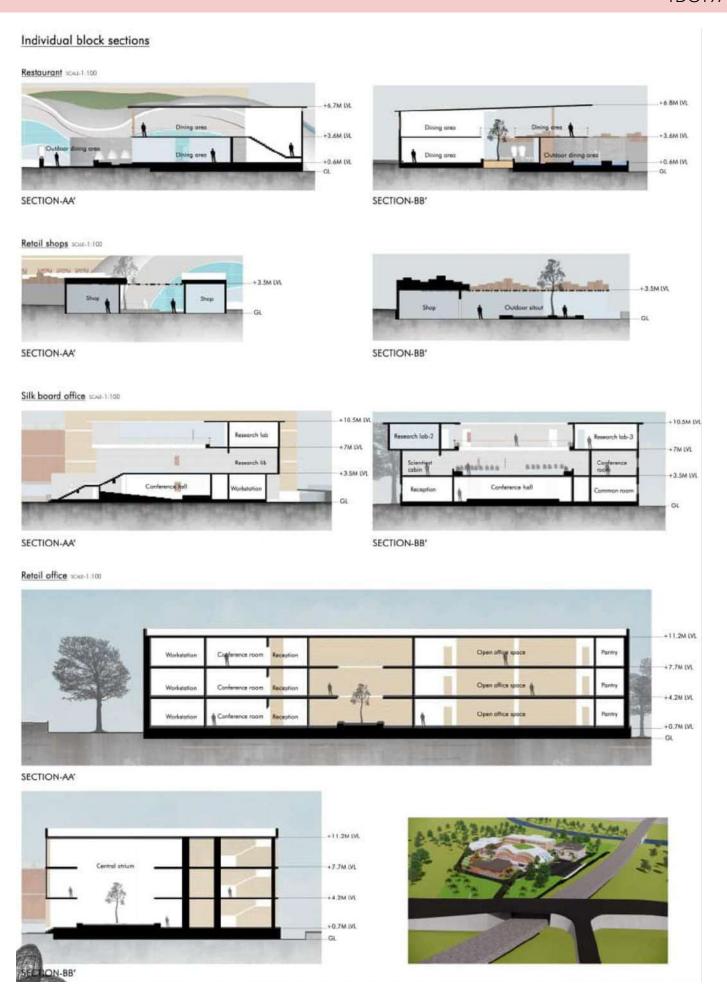






Site model





AD VII C

Architectural Design

Faculty: Anshu Darbari, Arobindo Gupta, Sudeep Bhooplam, Sindhu Jagannath





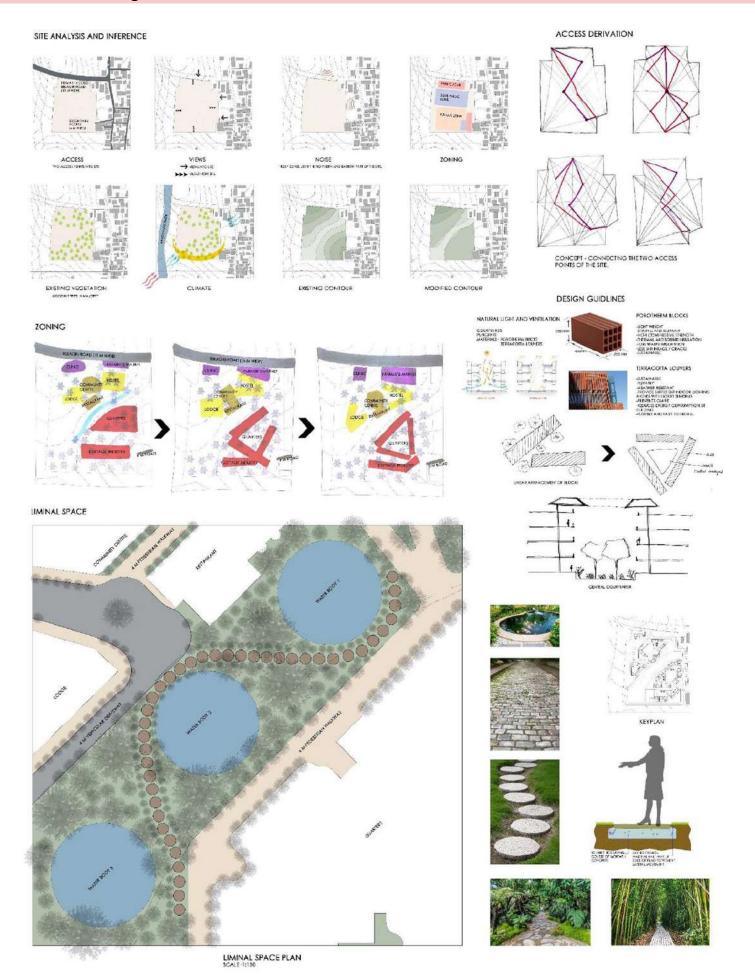






Faculty: Anshu Darbari, Arobindo Gupta, Sudeep Bhooplam,

Sindhu Jagannath



AD VII C

Architectural Design

Faculty: Anshu Darbari, Arobindo Gupta, Sudeep Bhooplam,

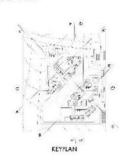
Sindhu Jagannath











ROOF PLAN

SECTION IF

Faculty: Anshu Darbari, Arobindo Gupta, Sudeep Bhooplam,

Sindhu Jagannath



2 BHK BLOCK

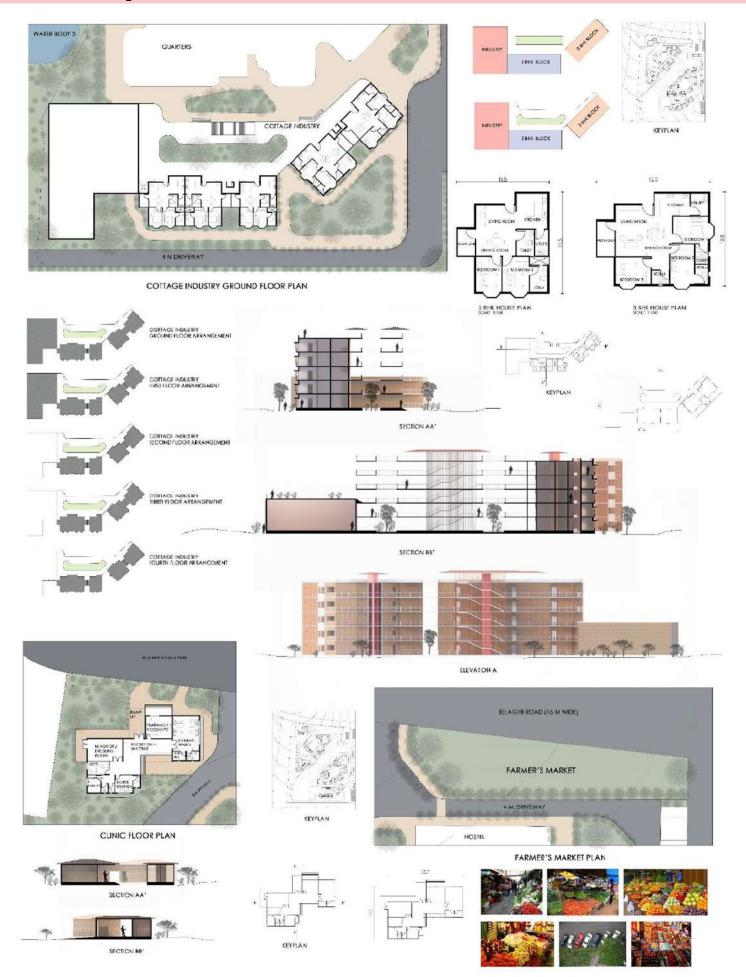
1 BHC HOUSE PLAN

1



Faculty: Anshu Darbari, Arobindo Gupta, Sudeep Bhooplam,

Sindhu Jagannath

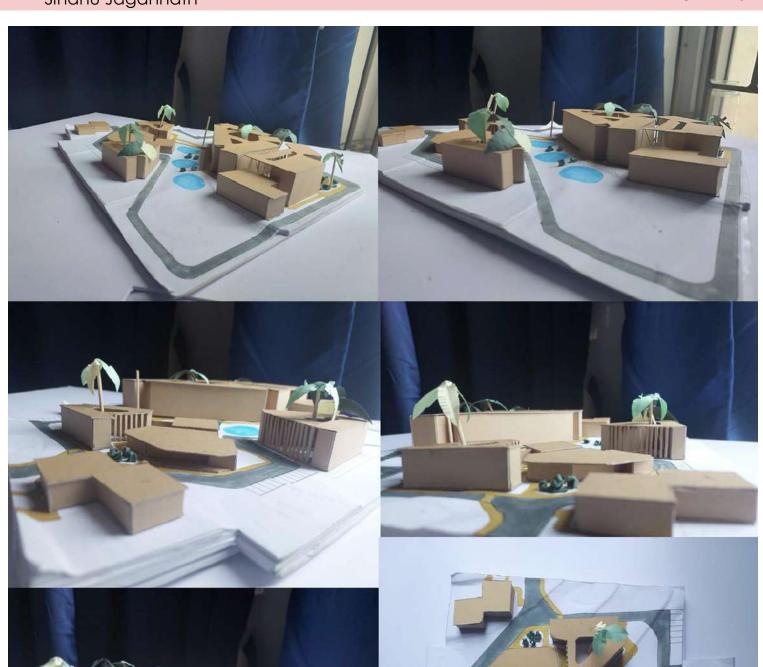


Faculty: Anshu Darbari, Arobindo Gupta, Sudeep Bhooplam,

Sindhu Jagannath



Faculty: Anshu Darbari, Arobindo Gupta, Sudeep Bhooplam, Sindhu Jagannath



Design Brief

Enhance the experience of the users by adding Liminal spaces to existing identified cultural hubs

Integrate the performative aspects of architecture into the design

To generate and iconic architectural addition to enhance and boost the cultural identity of the cisty.

To generate the form that can link the past to the future. The form generated to pay homage to the existing structure of while at the same time be compatible to the present context.

ARCHITECTURAL DESIGN 7 SUBJECT CODE 21 ARC 11

Studio Coordinators



Ar Aparna Shastri

Studio Faculty



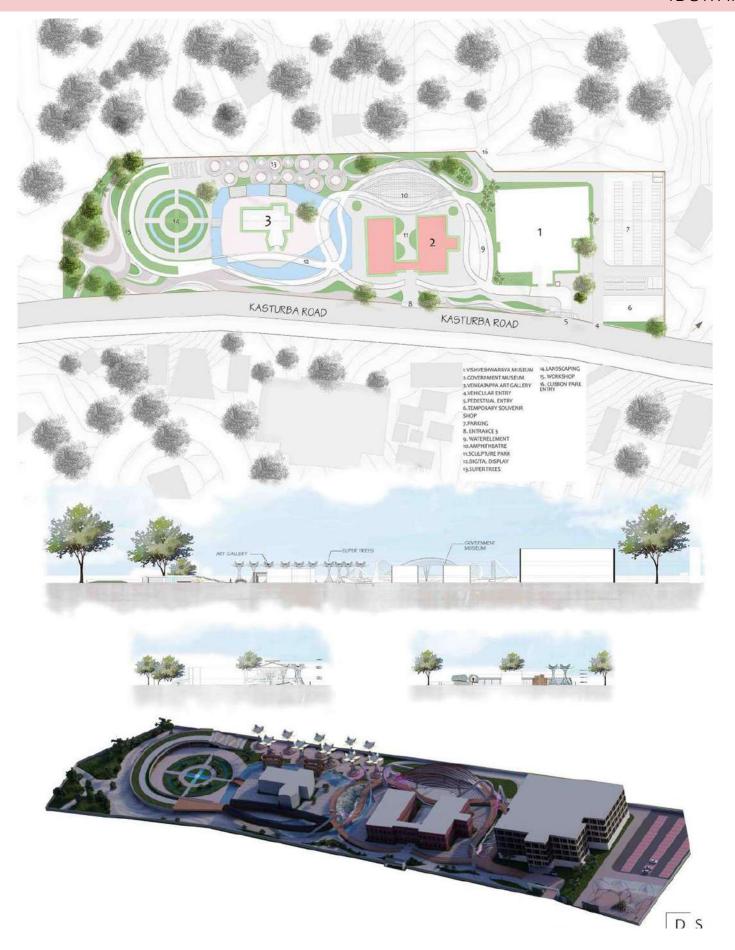
Ar Vinay Shekhar



Ar Madan Kumar

Architectural Design Faculty: Ar Aparna Shastri, Ar VInay Shekhar, Ar Madan Kumar

Kruthi Rasayam 1DC19AT039



Architectural Design Faculty: Ar Aparna Shastri, Ar VInay Shekhar, Ar Madan Kumar

Kruthi Rasayam 1DC19AT039

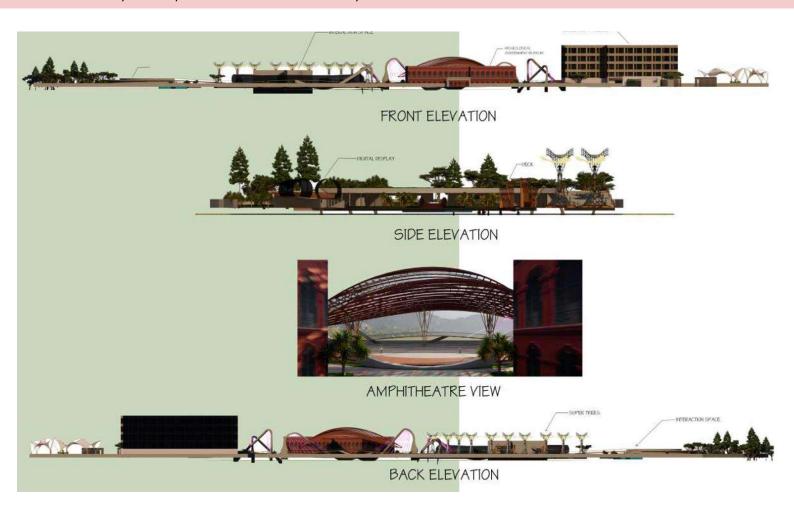


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A geometrical intervention rooted in the contemporary

Architectural Design Faculty: Ar Aparna Shastri, Ar VInay Shekhar, Ar Madan Kumar

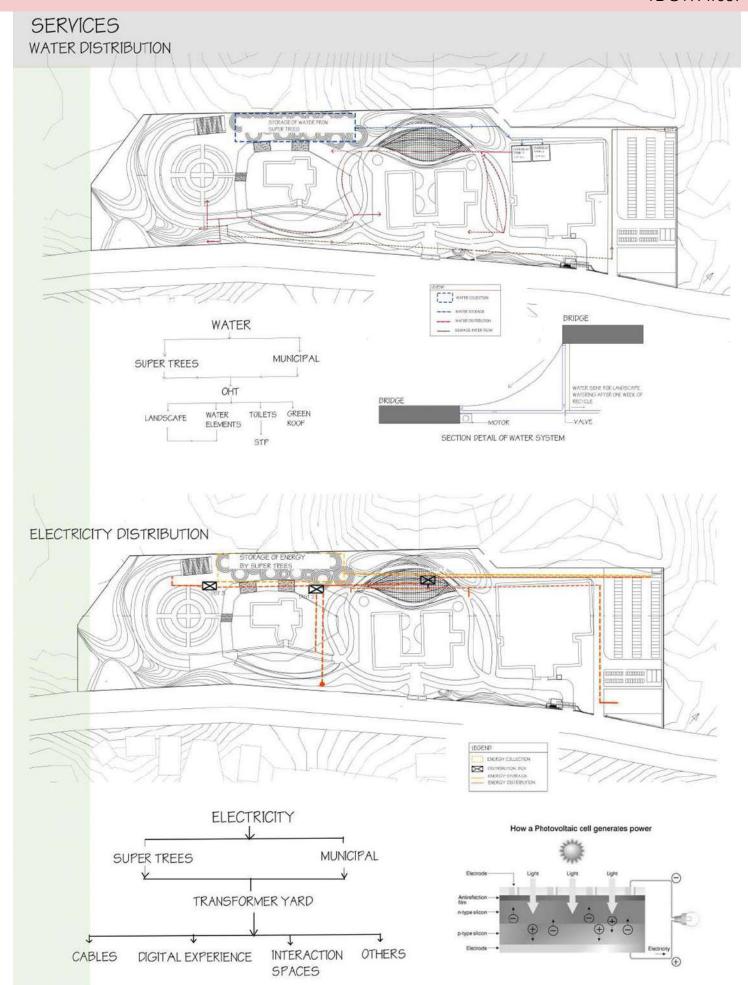
Kruthi Rasayam 1DC19AT039





Architectural Design Faculty: Ar Aparna Shastri, Ar VInay Shekhar, Ar Madan Kumar

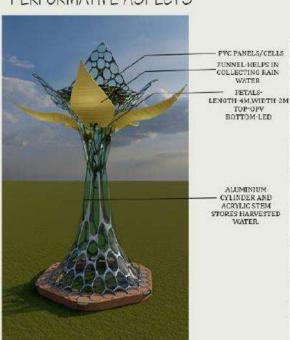
Kruthi Rasayam 1DC19AT039



Architectural Design Faculty: Ar Aparna Shastri, Ar VInay Shekhar, Ar Madan Kumar

Kruthi Rasayam 1DC19AT039

PERFORMATIVE ASPECTS



SUPER TREE HEIGHT-10M



CYLINDRICAL WATER STORAGE



PVC CELLS/PANELS



SUPERTREES ABSORBS THE SUN'S RAPIATION AND CAPTURES HEAT AND LIGHT IN ORDER TO PRODUCE SOLAR ENERGY REQUIRED TO CREATE AN ENVIRONMENT WHERE PEOPLE CAN PARTAKE IN VARIOUS ACTIVITIES TAKING PLACE ON SITE

1 SUPER TREES

PETALS OF THE STRUCTURE FORM A SLOPE-ALLOWS FOR RAIN WATER TO FLOW INTO THE CYLINDRIGAL STEM. THE STEM ACTS AS A STORAGE UNIT FOR THE RAIN WATER FROM WHICH IT CAN BE FILTERED AND LIGED.

DETWEEN THE PETALS ARE LONG THIN SEPALS WHICH IN TURN ACT AS SPOTLIGHT WITH LEP AT THE TIP.

THE BODY OF THE SEPAL IS COAFED WITH ORGANIC PHOTOVOLTAIC SHEET.

TOP-CPY OR OSC ABSORBS SUILIGHT AND TRANSMIT ELECTRICAL CHARGES.

THE STAMEN OF THE FLOWER IS DEPICTED BY THE SOLAR CELLS PRESENT IN THE CENTER ON THE TREE WHICH ARE CONNECTED TO AN INNER CYLINDRICAL ROD WHICH TRANSPORTS THE SOLAR ENERGY UNDERGROUND FROM WHERE IT CAN BE STORED OR DISTRIBUTED.



PYC CELLS/PANELS CONVERTS SOLAR ENERGY TO ELECTRICAL ENERGY, SUNLIGHT IS ADSORDED WHICH CHANGES ANGLES AS THEY FOLLOW THE SUN PATH.

OPV-TYPE OF SOLAR CELLS WHICH ABSORBS SUNLIGHT AND INTURN CONVERT INTO ELECTRICAL CHARGES

THE RAIN WATER COLLECTED IS STORED IN A PIT UNDERGROUND WITH A LAYER OF PLASTIC TRAMPAULIN SHEET WHICH PREVENUS IT FROM SEEFING INTO THE SOIL.

CALCULATIONS-

1. PHOTOVOLTAIC SOLAR CELLS - NUMBER OF PHOTOVOLTAIC CELLS IN ONE STRUCTURE=80 ENERGY PRODUCED BY 80 CELLS =7600 WATTS FER STRUCTURE:

EFFICIENCY IS IS CONSIDERED 40% BASED ON THE FIELD GUIDE -TOTAL ENERGY PRODUCED BY THE STRUCTURE =40% OF 7600= 3040 WATTS

TOTAL NUMBER OF STRUCURES ON SITE=10

TOTAL ENERGY PRODUCED = 10X3040=30,4000 WATTS= 30.4 KW

2. ORGANIC PHOTOVOLTAIC (OPV)

AREA OF ONE PETAL-2X4-8 SQM

NUMBER OF PETALS IN ONE STRUCTURE=6 NUMBER OF PETALS IN 10 STRUCTURES=6X10=60

AREA OF 60 PETALS= 8X60= 480 SQM = 480 KW

EFFICIENCY IS 20% OF 480= 96KW

3 PHOTOVOLI AIC CELLS+OPY=96+30.4= 126.4 KILOWAI 15 PRODUCED FER DAY

TOTAL STORAGE CAPACITY OF SUPER TREES-LOWER DIA OF CYLINDER-OM LIPPER DIA OF CYLINDER-OM HEIGHT OF THE CYLINDER-7M YOLUME FER TREE-95.3 M°3

VOL FOR 10 TREES WITH EFFICIENCY= 60% OF TOTAL = 5.71,800L





2.KINETIC PAVEMENTS/PANELS

TOTAL NUMBER OF PANELS PRESENT =2860

1 FOOT STEP= 15 JOULES OF ENERGY
CONSIDERING 350 STEPS PER PERSON, TOTAL ENERGY PRODUCED
BY KINETIC PAVEMENTS PER DAY= 6.5 KW

TOTAL ENERGY PRODUCED ON SITE- 126+6.5-132.5 KW PER DAY

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M Adit 1DC19AT041i

liminal space

BRIEF

[BRIDGING THE GAP]

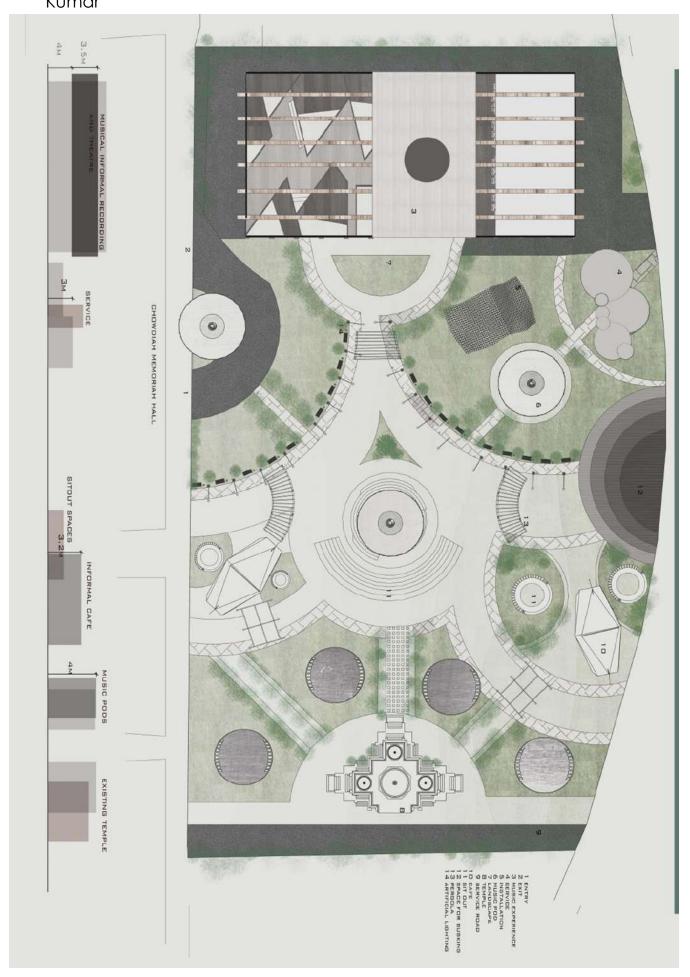
Enhance the experience of the users by adding liminal spaces to existing identified cultural hubs

Integrate the performative aspects of architecture into the design Generate an iconic architectural addition to enhance and boost the cultural identity of the city

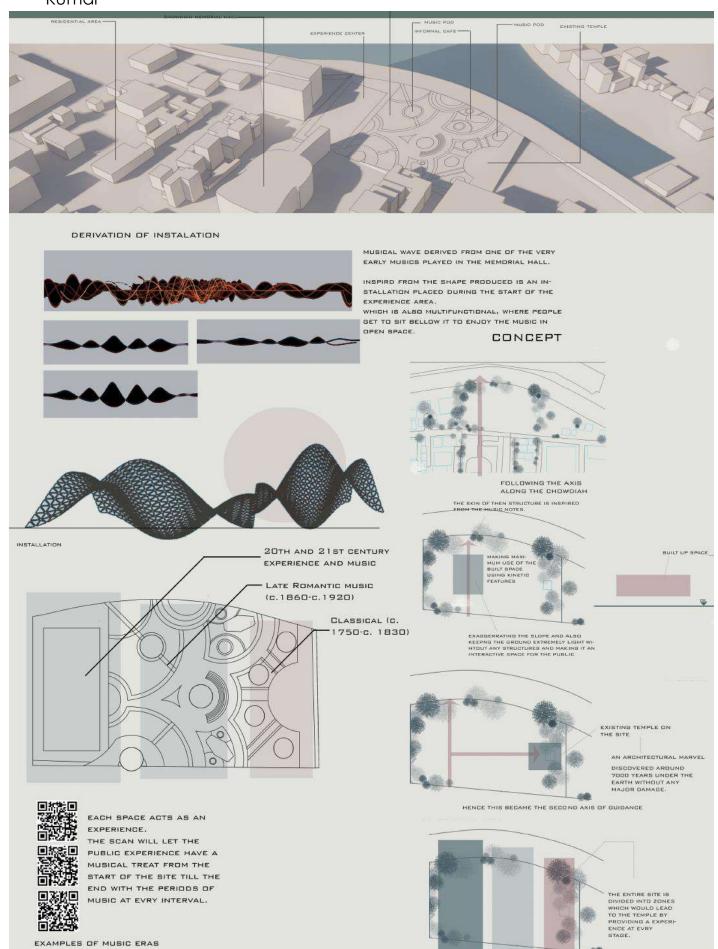
Have generated a form that can link the past to the future. the form generated will have to pay homage to the existing structure while at the same time be relevant to the present context.



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Architectural Design Faculty: Ar Aparna Shastri, Ar VInay Shekhar, Ar Madan Kumar



AD VII B

Architectural Design Faculty: Ar Aparna Shastri, Ar VInay Shekhar, Ar Madan Kumar

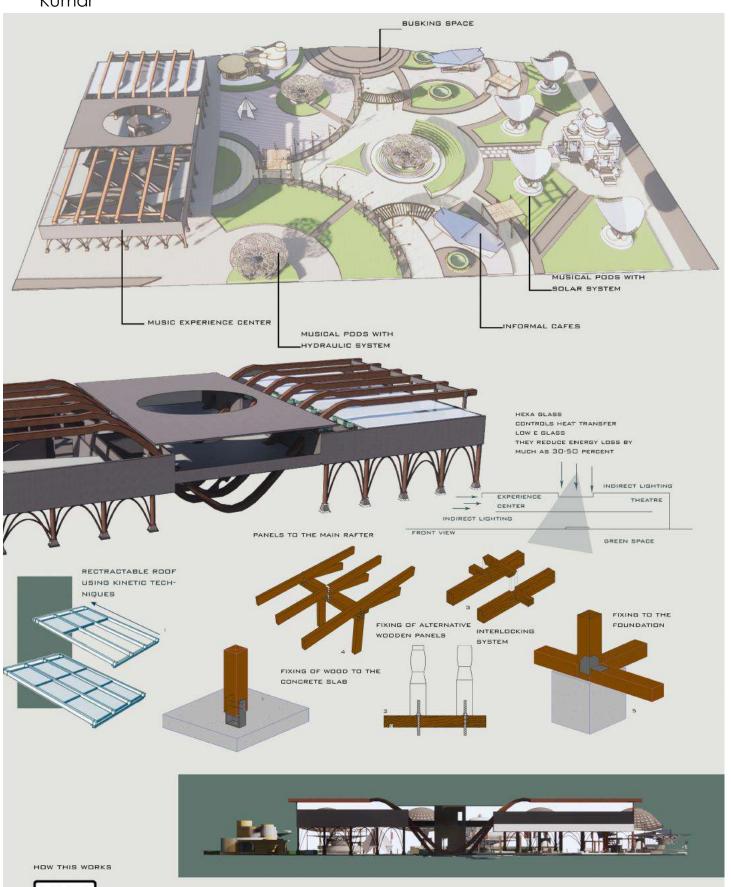


THIS SCANNER AT EVERY POD WITH SOLAR AND HY-DRAUIC SYSTEM WILL OPEN TO AN LINK THAT WILL CONNECT YOU TO THE KIND OF SONGS ONE WILL EX-

PERIENCE

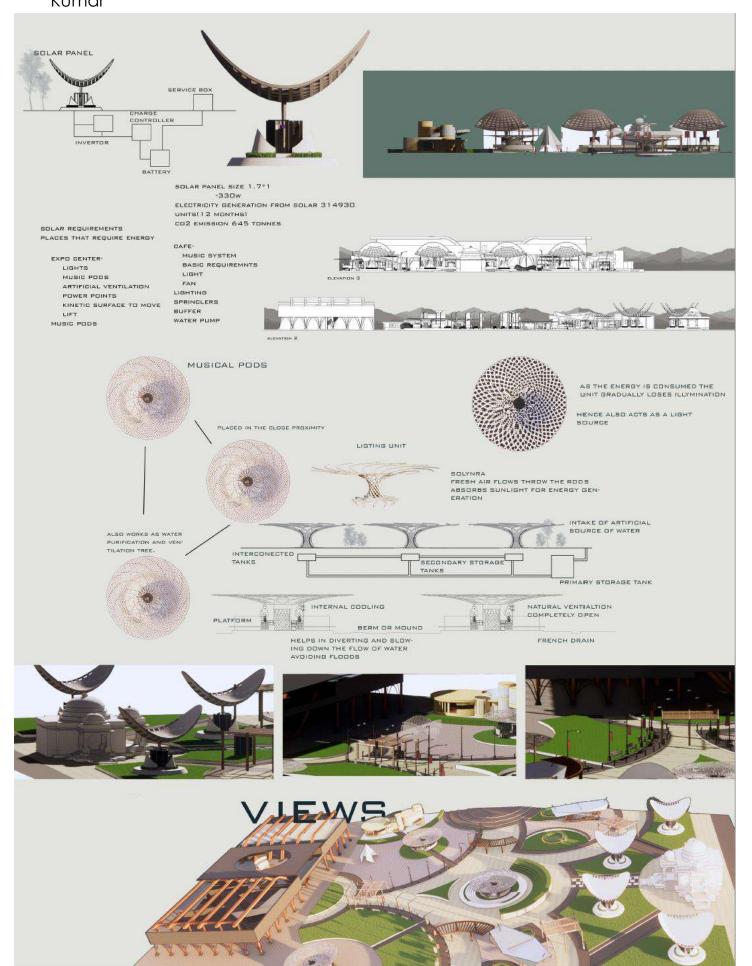
AD VII B

Architectural Design Faculty: Ar Aparna Shastri, Ar Vlnay Shekhar, Ar Madan



AD VII B

Architectural Design Faculty: Ar Aparna Shastri, Ar Vlnay Shekhar, Ar Madan Kumar



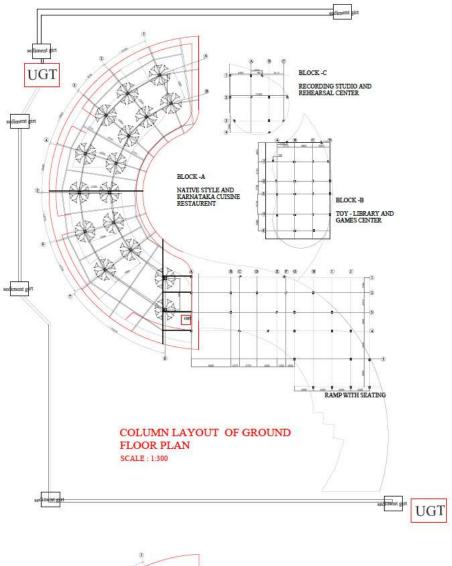
Creative explorations in contemporary form and **functions**

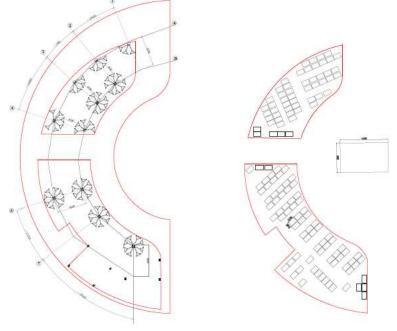
AD VII B

Architectural Design Faculty: Ar Aparna Shastri, Ar Vlnay Shekhar, Ar Madan

Hritik Raj 1DC19AT003

Kumar





SOLAR PANEL LAYOUT

BLOCK -A

- 1. TREE COLUMN [4 x250 mm dia M.S Hollow cylindrical sections
- 2. secondary struts of 200 mm
- 3.BASE DIM. 600 X600
- 4.TOTAL SPREAD OF 4.35M Dia
- 5. TOTAL SPAN = 20M
- 6. NO. OF COLUMNS = 16



VIEW OF THE COLUMN LAYOUT

RAIN WATER HARVESTING rain water harvesting tank and its capacity

the gradient of the site is 14 M. formula to calculate the amount of water is

AX R X Co. efficient.

A =area of surface.

R. amt. of water (Rain) in mm

Co. cff. of the material or reduction loss =20% banglore rain fall per annual of 10 years. 970 MM. Area: $1409 + 821 + 143.27 + 272.35. + 300 = 2,945.62 \text{ M}^2$ 970 x 2,945.62 x 80% x. $\frac{1}{96}$ = x.=23810 liter \approx 25,000 lit. \approx 50,000 lit. note : 20% of evaporation charges and 2 times a week is 96 divisions 2 U. G. T provided = 4m x 4m x 2

32 cum = capacity of 30,000 lit x 2

= 60,000 lit capacity for every 4-3days
O. H T = DIM. = 2M X2M X 2M = 8 cum = 8,000 lit of fresh water

TOTAL ROOF AREA =600 Sqm

CALCULATION

TOTAL No. of PANELS = 135 each has the capacity to produce 900 watts per day (8-10 hrs of sunlight

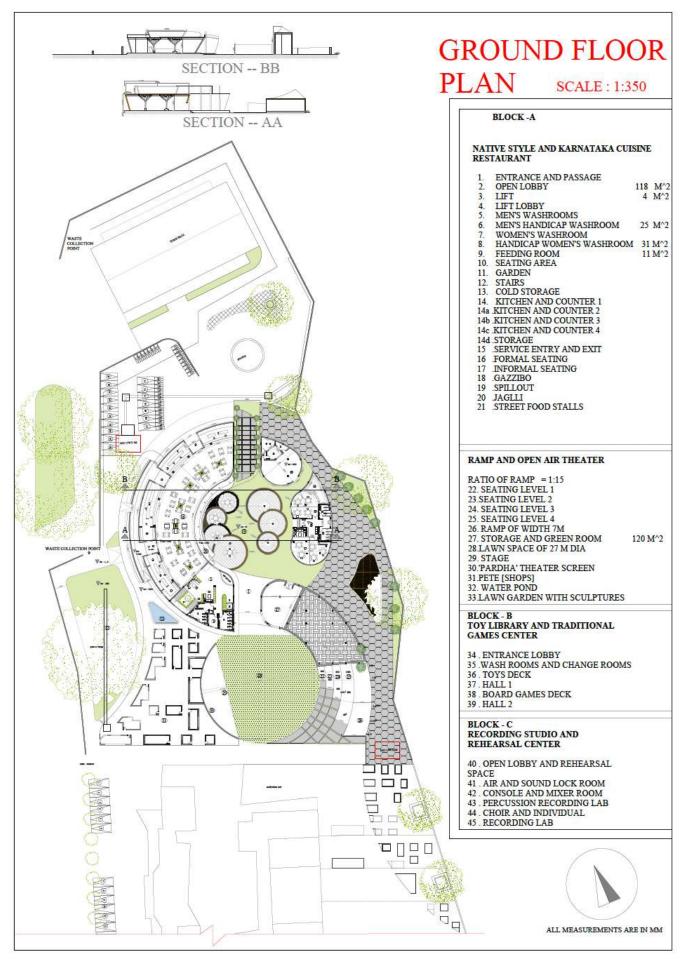
= 900 X 135 =121,500 watts = 121.5kvh

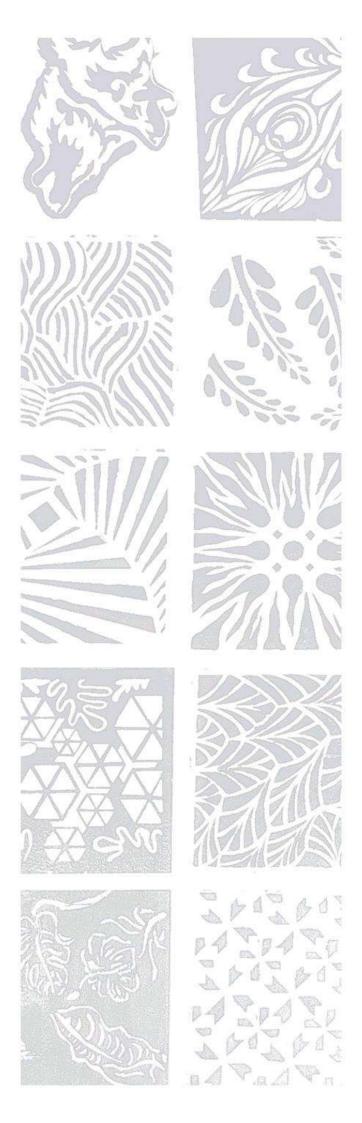
Proposed building being a restaurant uses 50 watts per Sqft.

TOTAL BUILT SPACE ~ 23000 Sqft 22000 X 45 = 990,000Watts=990 kwh Architectural Design Faculty: Ar Aparna Shastri, Ar VInay Shekhar, Ar Madan

Hritik Raj 1DC19AT003

Kumar





Semester

Identity and the city
The notion of place and placelessness in urban intervention
INTRODUCTION

Edward Relph in his seminal book place and placelessness talks about how indispensable place is in the human life experience. In his pursuit of a better and deeper understanding of place, the geographer identified different modes of spatial experience, namely pragmatic space, perceptual space and existential space which he equates with instinctive, bodily and immediate experiences and another set of spatial experiences that are cerebral, ideal and tangible which he then equates with the planning space, cognitive space and abstract space. According to Relph all these modes of spatial experiences are not mutually exclusive but part of the holistic human experience of a place [Seamon & Sowers, 2008]

JOHNSON MARKET

Extensions to the old Bangalore Pete and the growing population mandated the formation of newer markets towards the end of the 19th Century. Named after a former British civil servant, Johnson Market was initially called Richmond Town Market since it served that locality. Close on the heels of the Russell Market, built in 1927 and City Market in 1928, Johnson Market was established in 1929. It was commonly referred to as Russell Market's "poor cousin".

The land where Johnson Market was formed is said to have been a huge horse shelter belonging to Aga Ali Asker, a rich businessman (from Persia) who owned large tracts of land around Richmond Town. Asker's home 'Arab Lines' was located right opposite Fatima Bakery. Situated at the junction of Hosur road and Leonard lane, Johnson market is now facing an existential crisis due to the upcoming metro line on Hosur road, and the metro station situated opposite to the market.

OBJECTIVES

Enhance the identity and legibility of the place through interventions

- Identify and address the needs of the informal city through socio-economic, socio-cultural interventions
- Identify lacunae in existing amenities and infrastructure and suggest solutions.

APPROACH

Studying the city through the lens of the various dimensions of urban design the students will collect and analyse the data with respect to these dimensions namely.

- Morphological Dimension
- · Social Dimension
- Functional Dimension
- Temporal Dimension
- Environmental dimension
- Perceptual or Visual Dimension

The two verticals of the studio would be:

- To understand the various data collection, mapping, surveying techniques and using them rigorously to derive maps, sketches, graphs and other pictograms Info graphics to analyze and infer the spatial patterns, the socio-economic and socio-cultural aspects and the historical aspects.
- The second aspect would be to propose interventions that could be under the verticals:, redevelopment proposals or adaptive reuse or urban inserts.

ARCHITECTURAL DESIGN VIII -SEC B SUBJECT CODE 21 ARC81

Studio Coordinators



Ar. Aparna Shastri

Studio Faculty



Ar. Sheeraz Zaidi



Ar. Madan Kumar



Ar. Raveena Nayar

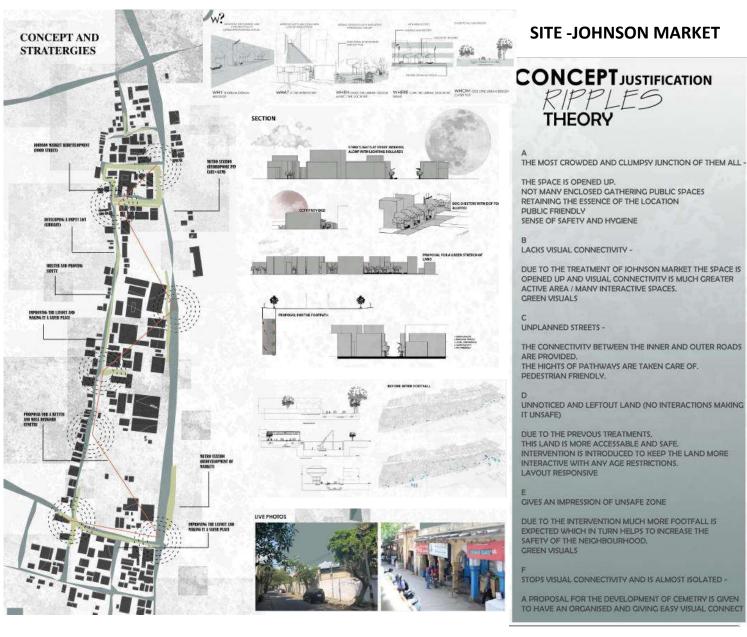


Ar. Veena Choudhary

ARCHITECTURE DESIGN STUDIO VIII

Faculty: Ar.Aparna Shastri, Ar. Sheeraz Zaidi, Ar. Madhan Kumar, Ar. Raveena Nayar, Ar. Veena Choudhary

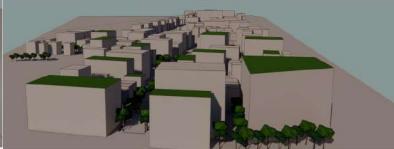
M. Aditi 1DC19ATO41



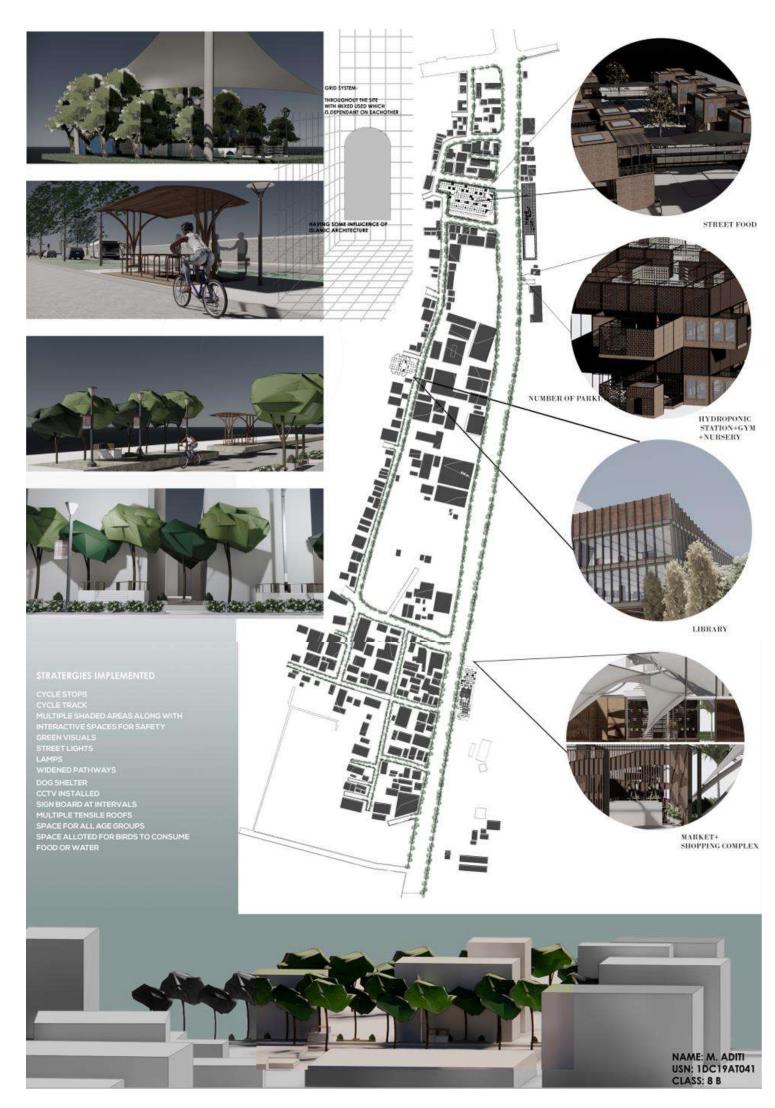


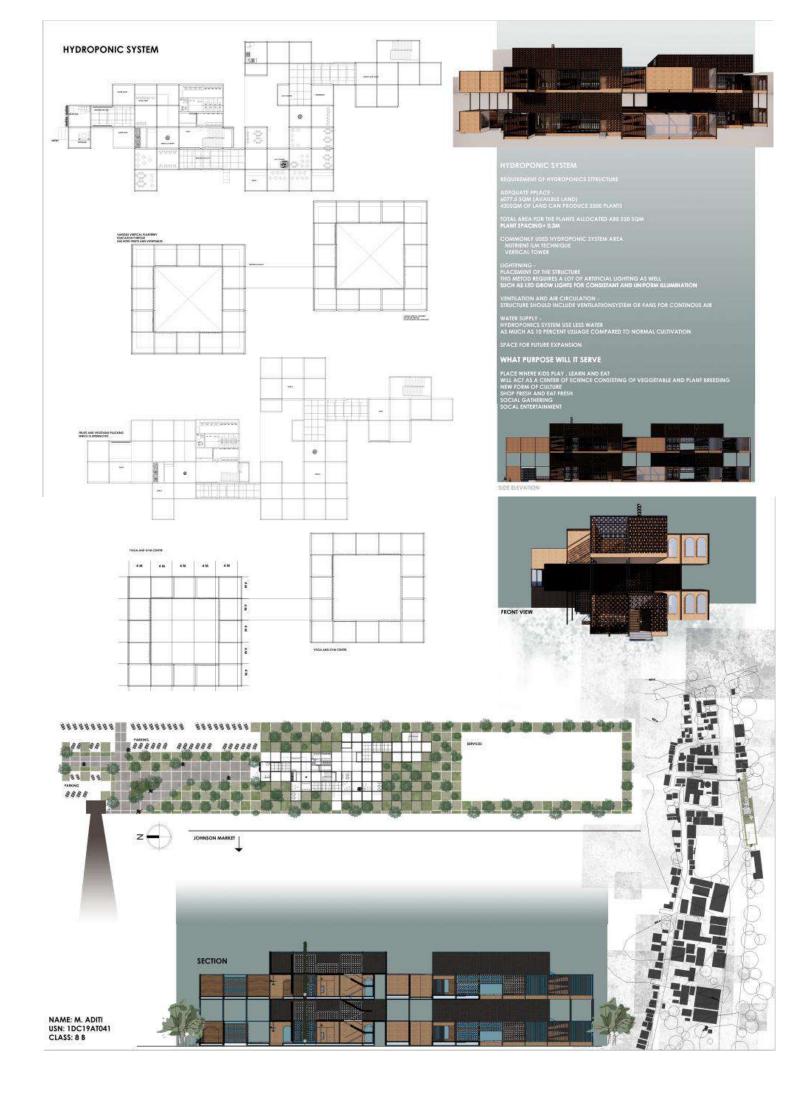


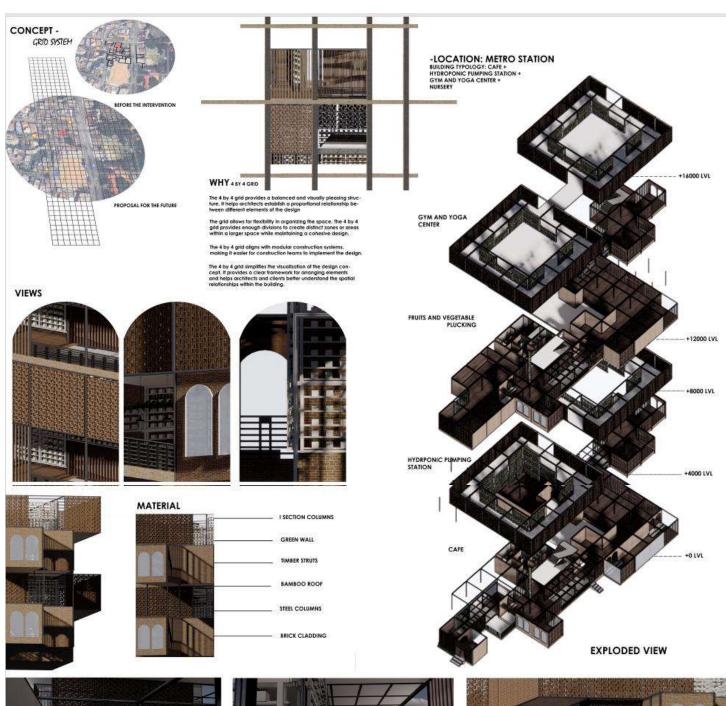




IDENTITY OF THE CITY - JOHNSON MARKET





















ARCHITECTURE DESIGN STUDIO VIII Faculty: Ar. Aparna Shastri, Ar. Ar. Sheeraz Zaidi, Ar. Madhan Kumar, Ar. Raveena Nayar, Ar. Veena Choudhary

Anikethan S J 1DC18AT005

3. SARAKKI MARKET DESIGN CONSIDERATIO ree Space available djacent to the main Road Shall Accommodate 250 approximate Vendors Parking space Circulation space for people to move about Total area = 1800 sqm Area for shops = 800 sqm Area for circulation = 600 sqm Area for Parking = 400 sqm











SITE -BANASHANKARI MARKET

Banashankari Street Market:

The Banashankari street market is an informal market of vendors that stretches from the Kanakapura road and the Subramanyapura road junction just after the Banashankari TTMC up to the Sarakki market. The market that initially came up to serve the temple needs is now a permanent feature along the stretch. One of the most chaotic street stretches of Bengaluru, this stretch houses a Bus terminus and TTMC, a metro station, the entryway to the Banashankari temple, the designated Banashankari and Sarakki market areas. Owing to its proximity to the peri-urban areas in comparison to KR Market, a part of it also functions as wholesale а market for the surrounding neighbourhood vegetable vendors.





5. TEMPLE COMPLEX

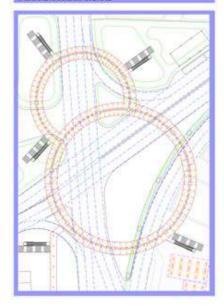
DESIGN CONSIDERATIONS

- Temple is THE Identity of the place
 Hapazard Market place around is kills the 'Calm' a
 Temple is meant to have
 The Temple complex can be designed more effective.

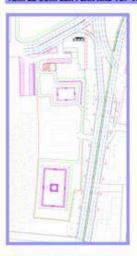


- Separate Entrance to the Temple Fence the Footpath Green Spaces at the Temple Comp Redesign the Temple comptex Accommodate Market and Parking Try to bring a bit of calm in the oth wishbourhood
- AREA PROGRAM

1. BANASHANKARI SIGNAL



TEMPLE COMPLEX PLAN AND TOP VIEW







TEMPLE COMPLEX PLAN AND TOP VIEW





1. BANASHANKARI SIGNAL

DESIGN CONSIDERATIONS

- · Sarakki signal pushing the traffic north increasing the pressure on Sarakki market junction and the Banashankari signal.

 • 2 signals in less than 100m wreck havoc.
- No right turn allowed from the Kadirenahalli cross road.
 • Very unsafe for pedestrians.

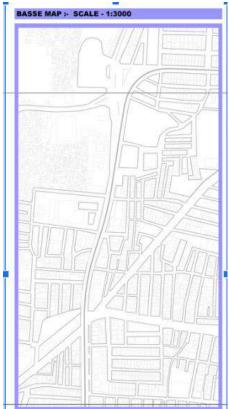
DESIGN PROGRAM

- Skywalk shall connect all corners of the Junction
 Shall connect the bus stops & metro
 The skywalk shall have seating spaces
 Escalators to move up and down

DESIGN CONSIDERATIONS

- Design consideration
 Safety of pedestrians neglected currently
 The location is a fantastic place for people watching
 Metro and bus stop are gate disconnected currently





Enhancing human experience of city Place making in dense Urban Fabric INTRODUCTION

Cities are places, where people live, form communities, and establish their own identities. With urban growth and development most of the cities in India are experiencing chaos and bottle neck in few of the existing nodes and junctions due to unplanned and uncontrolled growth of both population and built density. For such junctions and nodes, the Identity with which it was conceived is lost. The new identity should enhance human experience, which is one of the contemporary theories of urban design. However, most of the Junctions and Nodes have reduced to just a chaotic traffic junction particularly Outer ring road and highway junctions in Bengaluru cities.

SILK BOARD JUNCTION - A STUDY , ANALYSIS AND ARCHITECTURAL PROPOSAL

Bangalore city that we now best known for the Information Technology industry and start-ups, and for gardens for ages can well be the Silk City of India. Bengaluru-Mysuru corridor is indeed dotted with the key players of the value chain of the silk industry. In 1948 Central Silk Board was established under the Ministry of textiles, it has its regional office working at Bangalore at this junction, and the junctions own its name from this building. The the Silk board junction is that it is an important road junction in Bengaluru City on the Outer Ring Road - Hosur Bengaluru highway junction. This place is also called Madiwala; a washer mans community settlement with one the biggest lake of Bangalore in its vicinity. It is an important landmark for travelers, cabs and those new to Bengaluru as they enter from Tamil Nadu and Kerala using Hosur Road. It is also a well-known bus stop to travel out of Karnataka. The Silk Board junction acts as a gateway to the two important IT clusters in Bangalore-the Outer Ring Road cluster(Marathahalli, Whitefield and Bellandur) towards the east and Electronic City to the south. This place and its surroundings have a rich historic cultural importance as described by many stone inscriptions found near the place.

The proximity to these two major hubs in the city, known as the "IT capital of India", has led to bottleneck of vehicular movement at the junction. In 2017 the Flyover was made operational near to ease the traffic, but it became futile as it intensified the bottleneck effect. Past two and half years the junction is experiencing the disturbance from the Metro-phase two construction activities too., Enhancing human experience in such situation is a challenge. This studio aims to realise the placemaking opportunities in the neighbourhood area around this Junction and propose possible interventions which either aids the existing activities to perform better or new activities which could thrive here and bring considerable human experience into neighbourhood.

OBJECTIVES

Architectural interventions, which have an ability to shape an apt Urban fabric through design solutions.

Place making elements, which aims to reintroduce the identity of this area through its contextualization.

Designed public spaces that can be used for various activities such as open-air markets, performance venue, and leisure space.

Re-aligning, re-imagining the existing transportation networks. All four of them together will enhance the Human experience.

ARCHITECTURAL DESIGN VIII SEC A SUBJECT CODE 18ARC81

Studio Coordinator



Ar. Kalpana Manchali

Studio Faculty



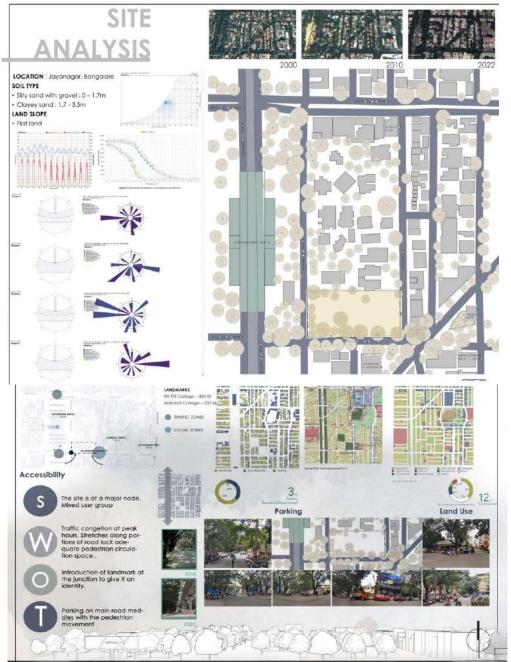
Ar. Bhavesh Mehta



Ar. Sindhu Jagannath

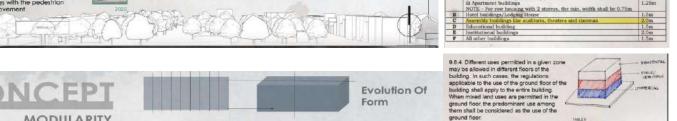
ARCHITECTURE DESIGN STUDIO VIII Faculty: Prof Kalpana Manchali, Prof Bhavesh Mehta, Ar. Sindhu Jagannath

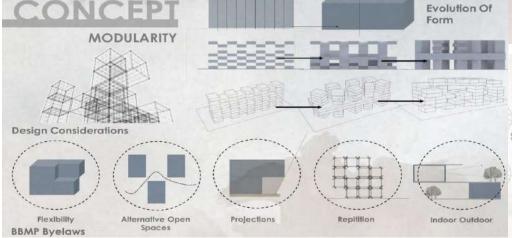
Harini B 1DC19AT030



SPACES	Qły.	Area per unit (sqm)	Total Area(so m)
COMMERCIAL ACTIVITIES		-	
CLOTHING STORE	4	150	600
JEWELERY STORE	2	250	500
FURNITURE STORE	1	500	500
ELECTRONIC GADGET STORE	2	200	400
TOTAL			2000
MULTIPURPOSE SPACE	1	800	800
HEALTH AND FITNESS			
MEDITATION CENTER	2	150	300
YOGA CENTER	2	150	300
AEROBIC CENTER	2	150	300
AEROBIC CENTER HEALTHY EATERY CENTER	1	300	300
MINASIUM	1	150	150
TOTAL			1350
EATERY/FOOD COURT			
TAKE AWAY DINE IN	2	250	500 500
DESERT BAR	1	150	
CHAT CENTER	3	150	150 450
UTCHEN + UTILITY + STORAGE	2	600	1200
COMMON SEATING AREA		600	600
TOTAL			2950
STUDIO'S			
PAINTING STUDIO	4	150	600
DANCESTUDIO	5	150	750
MUSIC STUDIO	4	200	800
CRAFT/ MOULDING	4	150	600
REHTAL STUDIO	7	150	1050
CO WORKING SPACE	3	150	450
TOTAL			4250
GAMING STATION	1	1500	1500
COMMUNAL SPACES ATM + PHARMACY	2+1	200	1000
5-LISPARY + CAFE	1	250	250
STAFF ROOM (100 sqm)	2	200	400
SERVICES		700	700
STORE ROOM	1	500	500
TOILETS			640
TOTAL			16540
Misc. 10%			1654
GRAND TOTAL			18194
	ea(Sam)		
TOTAL BUILT UP AREA SITE AREA	18194		

AREA PROGRAM









FAR - 4: 5152.44 X 4 = 20609.76 sqm

- The massing becomes very dense. Very less porosity thereby reducing daylight and natural ventilation.
- In order to provide porosity, the height needs to be varired. Increase in the height leads to increase in setback area according to byelaws. Thus, it becomes very difficult to achieve FAR 4 in the given site.



FAR - 3: 5152.44 X 2.5 = 12881.1 sqm

- It provides an ideal condition for providing more porosity to the structure at the same time help in mutual shading and regulating the direction of wind flow with the help of staggering of masses.
- Proportion of height and setback is appropriate in this case.



- In this case, massing with better porosity can be achieved that help in receiving daylight and also help in natural ventilation.
- But more porosity leads to more terraces and less mutual shading since the availability of mass is less.

MARCH EQUINOX SOUTH FACADE **DECEMBER SOLSTICE** SOUTH FACADE

These spaces can be used where the user activity is restricted to certain timings

Since this face is exposed to maximum daylight - service core can be provided in order to avoid heat gain into the space

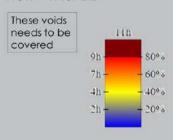
NORTH FACADE

Cut out needs to be provided in the upper blocks to allow daylight in since it's a terrace

These dull lit spaces can be used for theatres or shops that require artificial lighting

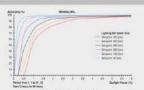
Daylight reaches into interiors during summer

NORTH FACADE



Daylight should neither be too much nor too less; a certain optimal level should be reached as both conditions are uncomfortable for the user, Poor daylight will lead to poor visual comfort and, which, in turn, will comfort and, which, in turn, will prompt occupants to switch an electric lights. The excessive use of artificial lighting will not only lead to higher electricity consumption, but also generate additional internal heat gains, which, in turn, will require more energy to cool the building. Excessive daylight on the other hand will produce more giore.

The curves give the level of autonomy of daylight, for given lighting set points, according to the daylight factors during one whole year. The percentage refers to the autonomy of daylight during the whole year, from 9 a.m. to 6 p.m.



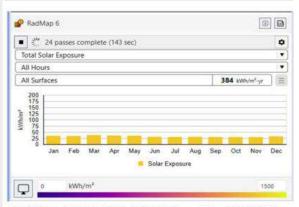
number Fernemented daylight area breek third Sector This

Openings for daylight should be close to the ceiling as it ensures maximum penetration, limited heat gains, and glare control. The space depth should not generally exceed 2.5 times the floor to lintel height. Figure 4.4 illustrates this design

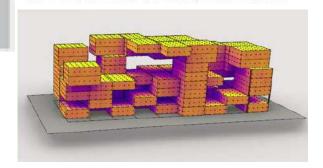
Directions: Usually, daylight is available up to 6 or 8 metres from the window. For good daylight, the visual light transmittance (VLT)6 of the glazing should be high, in most cases, the VLT of clear floot glass is high. A balance has to be made in the daylight entering the building and the heat. This can be further controlled by the use of external movable shading (refer Section 4.6).
The room finishes, i.e., ceilings, walls, etc., should be white or in light shades as light

shades reflects light.

For achieving good daylight, the building should be linear-shaped (14–18 m width8) in which the longer sides are oriented towards the north and south and the windows are provided only on the north and south façades.



TOTAL SUN EXPOSURE, ALL HOURS



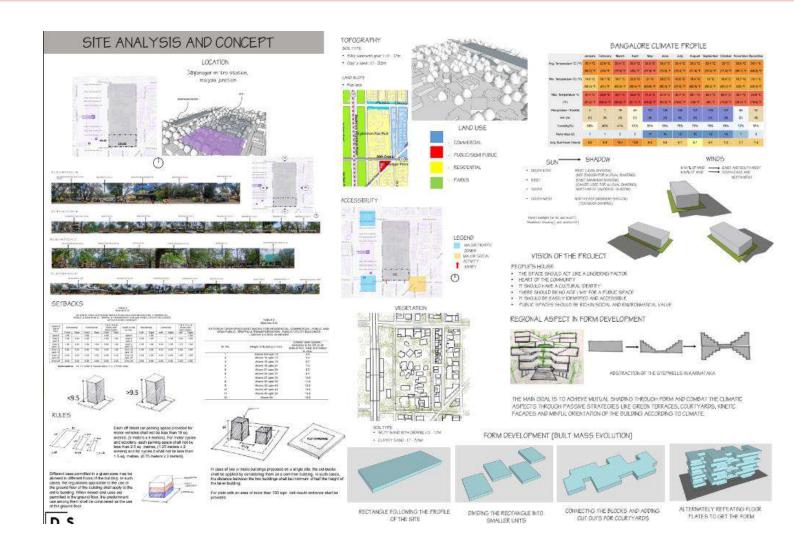




Section DD'

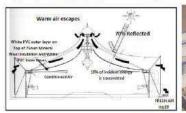
ARCHITECTURE DESIGN STUDIO VIII Faculty: Prof Kalpana Manchali, Prof Bhavesh Mehta, Ar. Sindhu Jagannath

Bhoomika M Araga 1DC19AT015





THERMAL BEHAVIOUR OF TENSILE FAÇADE AND ROOF









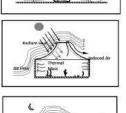






ECBC GUIDELINES

WALL ASSEMBLY - AUTOCLAVED AFRATED CONCRETE BLOCKS ROOF ASSEMBLY - OVERDECK EXTRUDED POLYSTYRENE





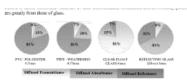




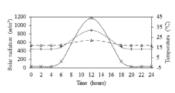
THERMAL BEHAVIOUR OF THE BUILDING

The thermal optical properties of a material distinguish its radiant behaviour within the thermal spectrum). The percentage of light transmittance in coated woven fabric typically ranges between 0 to 20%, with a transmittance of up to 50%, allowing daytime mechanical lighting to be dramatically riduced or climinated. Glass tends to have much higher solar transmittance and lower reflectance than that of fabric membranes). This results in the tendency of fabric membrane properties to change more significantly at higher angles of solar incidence.









- ---- solar radiation - * ground level resultant temperature
- Trnsilr fabric external envelope can achieve U-Values up to 0.18 for virtually any building, overcoming the thermal limitations previously associated with tensile fabrics.



















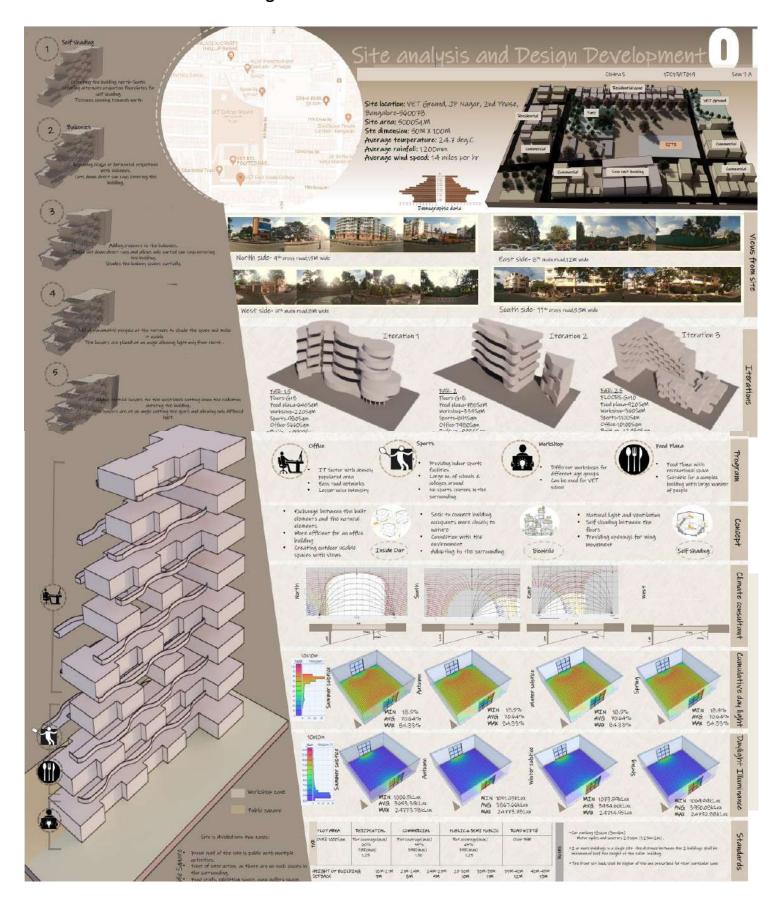
SITE - Silk board Junction - Neighbourhood

SIMULATIONS SUN HOURS (RADIATION INTENSITY) DAY LIGHTING - SHADOW MASK AND ORIENTATION 10,00 AM 12.00 FM NORTH SIDE 2.00 FM EAST SIDE INFERENCES • the Bibliotic Delivation is easy—west please begins the indecental projections are received most sunlight aloads it is also sworks the ricor planes below it. • purple stander scalarize the same south-place is selected and variety-place receives persisted sublicities. • purple that any industrial the industrials in the south-place received persisted sublicities. • purple that any industrial resolution is the south-place received industrial that the place place place industrial that the place is completely short a number of the place industrial that ind WEST SIDE USEFUL DAYLIGHT ILLUMINANCE (DYNAMIC DAY LIGHTING INDEX) INFERENCES SOUTH WING OF THE BUILDING WEST WING OF THE BUILDING EAST WING OF THE BUILDING VIEWS OF THE BUILDING PARAMETRIC FAÇADE DESIGN A timelih facadh le a eyetim of timeland fábric or finxibh minisram matinal that acte ae a encond ekin to a building'e 3 1 1 5

ARCHITECTURE DESIGN STUDIO VIII Faculty: Prof Kalpana Manchali, Prof Bhavesh Mehta, Ar. Sindhu Jagannath

Chitra B. 1DC19AT030

SITE - Silk board Junction - Neighbourhood





INTRODUCTION

In an increasingly urbanised world, architecture plays a vital role in shaping and influencing the complex urban environment (the design of cities) and creating meaningful places that enrich the lives of people. It is important to understand the many scales at which architecture can engage with the urban context, from building on the unique local character/form to enhance public spaces to urban development projects (infrastructure/transport interchanges/terminals) that impact larger geographic regions beyond the city. The Studio intent is to introduce the discipline of urban design (interdisciplinary premise, scope, techniques and best practices) and understand architecture as a part of implementing urban design projects, from gathering insights into urban fabric to understanding how communities use spaces.

OBJECTIVES:

- (a) To introduce the key components, terms, actors, processes and aspects of urban environment and their inter-relationships; to explore specific themes/issues such as public spaces, physical infrastructure, socio-cultural aspects (heritage, gender, urban growth, informality, place identity, collective memory, walkability, livability, zoning regulations) and the role of architecture in shaping the urban fabric
- (b) To learn basic methods/techniques to read, analyse and interpret (mapping, diagramming and theoretical premise) the dynamics of the urban environment.
- (c) To create/design architecture that responds to the specific demands of the urban context; understand the processes that impact architecture and the implications of design decisions on the larger context.

Stage 2:

Each group was asked to study urban areas with a river and facing similar challenges to Ramnagara. They studied one Indian and one international city each. They had to emphasise how these urban areas faced the challenges for their layer of study. They had to arrive at conclusions and inferences at a group level.

Stage 3:

The students were asked to arrive at individual conclusions and inferences based on their understanding of the urban context.

Stage 4:

The students were asked to develop a matrix at the macro, meso and the micro level interventions needed based on their individual conclusions and inferences.

Stage 5:

The students were allotted research articles to study and arrive at conclusions and inferences for riverfront development. The students were asked to form groups of four and conduct a riverfront development for a river length of 2 km and a depth on each side of about 100 mts on each side or as available. They were instructed that:

- Demolishing existing structures for riverfront development would not be allowed.
- Minimal built intervention.

Stage 6:

The students were asked to revisit the macro, meso and the micro level interventions proposed by them for Ramanagara town.

ARCHITECTURAL DESIGN VIII SEC C SUBJECT CODE 18ARC81

Studio Coordinator



Ar. Arobindo Gupta

Studio Faculty



Ar. Anshu Darbari



Ar. Sudeep Bhoopalam

ARCHITECTURE DESIGN STUDIO VIII Faculty: Ar. Arobindo Gupta, Ar. Anshu Darbari, Ar. Sudeep Bhoopalam

Tushar Sethiya 1DC19AT095

Matrix of Macro, Meso & Micro level

	Definition	Justification for site	Architectural intervention
Macro level	Macro-level are often used in fields which describe large- scale trends and patterns that affect entire societies or global systems.	The percentage of vegetation is relatively less across the city. It lacks social and cultural interaction at public spaces. Hence, intervention at multiple spots of the city will enhance the social and ecological dimension.	Social gathering or recreational space like parks, market place, etc. for the people.
Meso level	Meso level are intermediate or middle-range level of analysis, situated between mocro and micro levels. It focuses on the interactions between individuals, groups, or organizations within a particular social context.	The old BM road has high inflow and outflow of crowd. The stretch is heavily crowded an peak days and lacks facilities like public toilets, seating area, recreational space, vegetation, etc.	Providing these interventions like public toilets, seating area, recreational space, vegetation, etc. at street level will bring awareness among the people and increase social interaction.
Micro level	Micro level refers to the detailed study and analysis of a site or location at a small scale, focusing on specific features, details, elements, and characteristics of the site alone.	The site is located at the junction of old bm road, where it has high inflow and outflow of people. It has existing vegetation on site. It is easy for people to locate and interact.	A park-bazoar hybrid which includes a market place, public toilet and park. This intervention serves people to interact, socialize and spend leisure time. This is to provide social gathering and recreational space at micro level scale.



Macro level intervention

There are multiple sites choosen around the city which are favarable for proposing social gathering or recreational spaces like parks and markets.

The city lacks public parks and vegetation which is a drawback both in social and ecological dimension of the city. Hence, proposing parks and markets around the city will increase chance of socio-cultural interaction and vegetation of the city.

The site locations are mostly surrounded by residential houses with major arterial roads connecting the site for ease of occessibility.











Analysis For Kengal Hanumanthaiah Circle

- The Statue at the Kengal Hanumanthaiah circle acts as a Round-about and also as one of the major landmarks in Ramanagara,
- -Most of the shaptronts have encroached most part of the pedestrian path.
 -The Kengal Hanumanthaiah circle is one of the busiest and crowded junctions of Ramanagara town because of the Trisection of Old-BM road, Bridge and

- Total ROW-Right of way for Kengal Hanumanthaiah Circle is 31.4m.

 -Due to the extended shopfronts, the vendors sit on the pedestrian pathway.

 -Most of the commercial buildings have basements, which may be hazardous during overflow of river/ flood.



Traffic zones based on land use





The Old BM Road, arterial road joins the bus stand and railway station on either end, making it the most value generative stretch, in terms of economy, religious movement and land use.

The Old BM Road bridge (8 m), acts like the only commercial collector path to the other bank of river Arksvellh. The hawker activity makes it insufficient for two-way movement, Lacks better connectivity to distribute the concentration

The pedestrian traffic is dependant on the commercial use of the space. Since the old BM road is a busy market place the footfall is higher than that of highway stretch.

The park-bazaar hybrid

See Area +1.05 ocre (4250 sq.m) Location - Near kengal hunumenthal junction FAR + 1.50 Ground čoverage - 647.55 sq.m Tatal bullt-up area - 1389.2 sq.m

This intervention helps to revive the greenery of the city by providing park, it provides a space to spend laisure time by the side of the river. The market complex is built to relocate the enchachers from the bridge of all BM road and to relocate the temporary stores which are accupied on the pedestrian pathways which blocks the traffic and movement of the people.

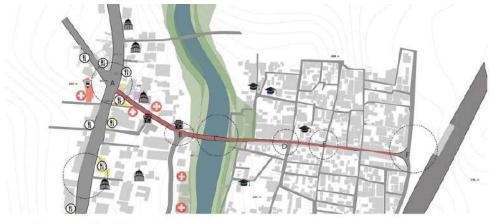
The people can easily access the site as it is located on the junction of old BM road. The site is provided with minimal parking area, hence there is no blockege of triffic on the road. It provides space for social interaction and space to spend leisure time at the park.

1 Market shops -1346.65 sq.m 2 Public toilet -42.55 sq.m -1389.2 sa.m

Hawkers, Vegetable market







Major Hot-spots of old BM road



highway

People use one side of it as vegetable market. The howkers can be relocated so the bridge is less crowded to avoid traffic.



When designing a small commercial area, it's essential to create a functional and affractive space that meets the needs of businesses.



The railway station road has buildings which are over 60-70 years, that can be restored or renovated. The buildings facing these two roads or in the closer proximity are informal spaces.



This intersection point has a lot of potential for social engagement since it is near to the community and railway station.



Meso level intervention

It is a street intervention for old BM road as it is the centre market street of ramanagara city. It was initially the old bangalore-mysore highway but now it has become peoples market street where daily household items and other shopping commodities are sold. With multiple shops on the strech there lies temples, small-scale silk factories, residential houses and complex buildings.

BY providing various street amenities like public toilets, pedestrian pathways, parking area, vegetation, dustbins and street lamps, will help develop the street and enhance the social and functional aspect of the street. This will help city develop at meso level.



Traffic zone

The site is around the traffic zone as it is the circle with maximum footfall.



Existing Vegetation

Retaining the existing vegetation and building around it.



INTERACTIVE SPACES

Being a commercial, cultural and religious hub, there is an influx of pedestrian traffic which needs to be regulated at intervals. These intervals can improve the social aspect.



RECREATIONAL SPACES

Lat of public means a lot of activities which includes various age groups and with designated spaces with landscape to conduct activities.



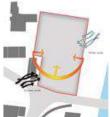
HAWKERS

The hawkers can be provided with sheltered pods or can be relocated to complex.



SEATERS & PATHWAYS

As there is high influx of people public seaters are provided for resting with pedestrian pathways for easy movement.



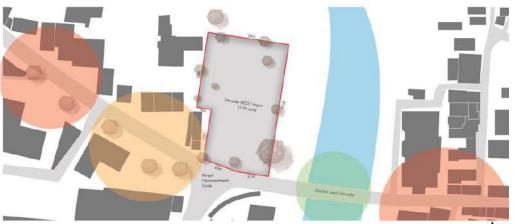
Climate analysis

The maximum heat gain is towards the south with winter winds from the east and summer winds from south-west.

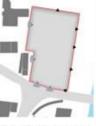


Topography

The site is almost flat with gradual slope towards west with 0.5m drop.



SITE PLAN



Noise & view analysis

Major noise is from the junction and the building adjecent to the site. Best view is towards the river.



Access & Road wide

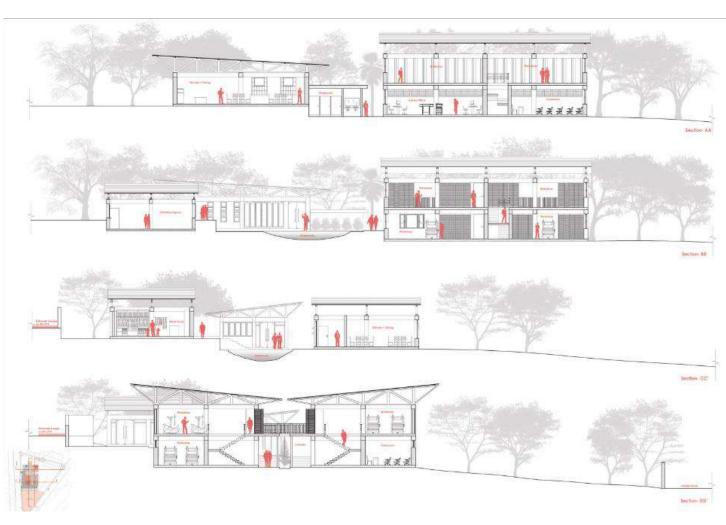
There is only one access to the site from the main juntion with the road wide of 12m

ARCHITECTURE DESIGN STUDIO VIII Faculty: Ar. Arobindo Gupta, Ar. Anshu Darbari, Ar. Sudeep Bhoopalam

Samyabrato Dey 1DC19AT079

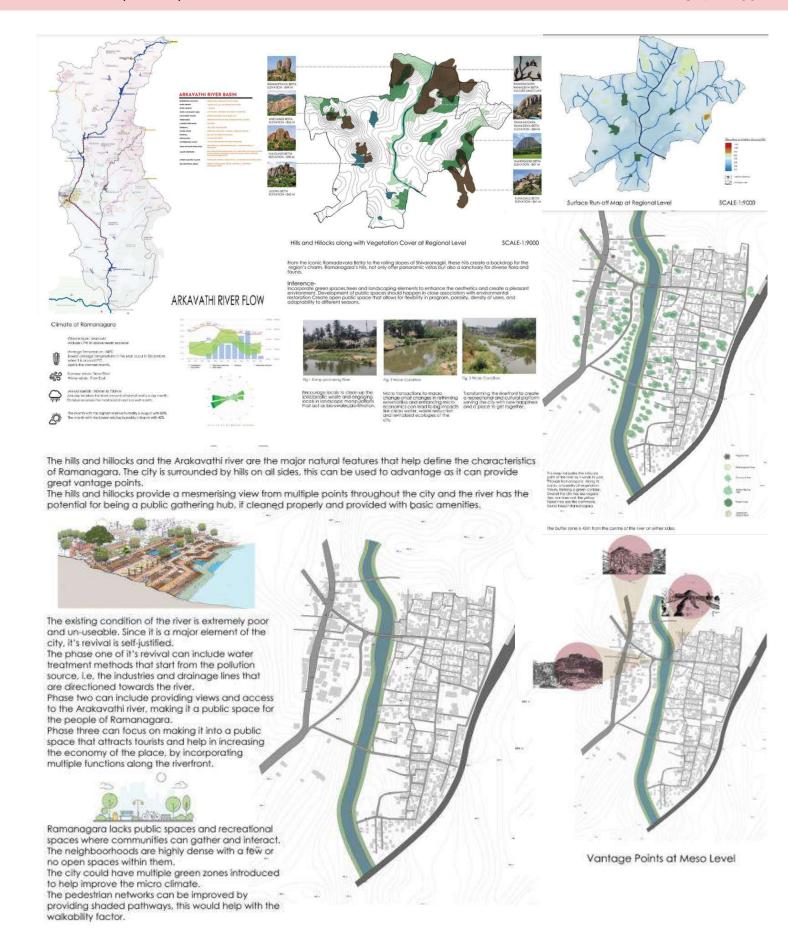


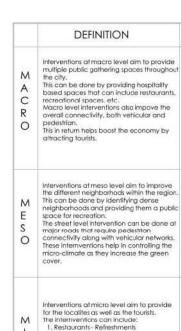




ARCHITECTURE DESIGN STUDIO VIII Faculty: Ar. Arobindo Gupta, Ar. Anshu Darbari, Ar. Sudeep Bhoopalam

Vindhya A H 1DC19AT100







JUSTIFICATION

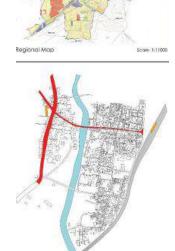
Providing multiple recreational spaces and green spaces throughout the city can help in increasing the micro-climate of the region. The neighborhoods being dense have a few or no open spaces for the citizens. This would be a good use of urban vacant spaces. The program proposed at the vacant sites can focus on:

1. Restaurants
2. Recreational spaces
3. Tourism Providing multiple recreational spaces and



Providing multiple recreational spaces and green spaces help in controlling the micro-climate and provide a public space within a neighborhad.

The Balageri Road requires an internvention as it connects to the site from the previous project that is in a residential neighborhood that could use a green public place. The site could use an internvention that also connects it to the riverfront development.



Mesa Scale Map

General Index

Interventions at micro level aim to provide for the localites as well as the tourists. The internventions can include:

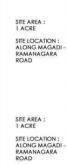
Fast Food Fine Dining 2. Recreation - Community parks Community gardens

3. Tourism - Lodges Information Centres



The proposal at this site of 1 acre would be a combination of a fast food restaurant with a fine diring area. Ramanagara has many small scale

reamanagara nos many small scale por testaurants that only localities would go to, for a tourist, they'll have to travel to Channapatho for a good restaurant, providing a restaurant at this site is also beneficial for the public coming to the admistrative zone, if would also be helpful for the officials in the administrative zone.



C R

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SITE LOCATION : ALONG BENGALURU - MYSORE HIGHWAY

SITE AREA:



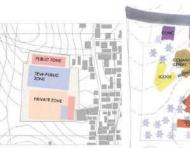
SITE LOCATION: CLOSE TO RAMANAGARA RAILWAY STATION



SITE AREA: SITE LOCATION : ALONG BENGALURU - MYSORE HIGHWAY



SITE LOCATION: BALAGERI ROAD











Existing condition of Arkavathi River



Fig.1 Dump yard along River

Encourage locals to clean up the solid/plastic waste and engaging locals in landscape manipulations that act as bio-swales bio-filtration



Fig. 2 Water Condition



Micro transactions to macro change-small changes in rethinking externallities and enhancing micro economics can lead to big impacts like clean water, waste reduction and revitalized ecologies of the alty. Transforming the riverfront to create a recreational and cultural platform serving the city with new happiness and a place to get together.

AREA PROGRAM

5lte area - 1 acre = 4046.86 m2

Road width - 40m

Allowable FAR - 2 (Semi-public utility)

Permissible Built-up – Site area x FAR = 4046.86 x 2 = 8093.72 m2

Allowable Parking – 25 % of site area =

Allowable Ground Coverage - 15% of site

No. of floors - G+2 = 4+4+5 = 13 m high

Setback - 5 m on all sides

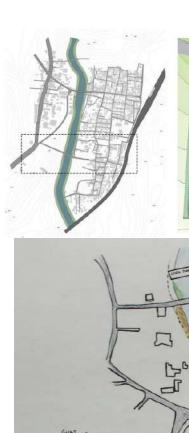
Restaurant Area Program

1. Kitchen - 250 m2

2. Storage – 80 m2 3. Dining – 800 m2

3. Drilling - 8.00 mi2 m2 4. Restrooms - 1.80 m2 5. Circulation (built-1.5%) - 200 m2 6. Park / Open Spaces - 1.565 m2 (2435-870) 7. Circulation (unbuilt-1.0%) - 870 m2 8. Parking (with circulation) - 1.012 m2

Ground floor - 500 m2 First floor - 650 m2 Second floor - 400 m2 TOTAL built with circulation = 1550 m2 TOTAL unbuilt with circulation = 3447 m2









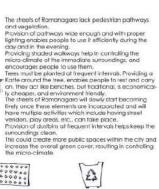
KATTE FOR PEDESTRIANS TO REST



SHADED WALKWAYS WITH PERGOLA



LIGHTS ON WALKWAYS THAT SERVE BOTH PEDESTRANS AND VEHICLES, LIGHT AROUND POLE WITH PERFORATED COVERING



DUSTBINS ON WALKWAYS TO KEEP THE SURROUNDINGS CLEAN



SECTION THROUGH MARKET



ROOF PLAN

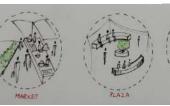


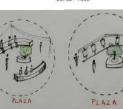




VIEWS ZONING SECOND FLOOR STORAGE

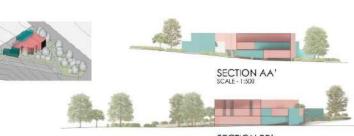
SITE PLAN SCALE - 1:500







WASHROOMS DINING AREA



SECTION BB'

DSCA YEARBOOK 2022 - 23

Man Man Man Man Man