PORTFOLIO (2021-2022)



SRM INSTITUTE OF SCIENCE & TECHNOLOGY

DEPARTMENT OF ARCHITECTURE



MESSAGE

students journey of learning and discoveries of their academic path in the year 2021-2022. Our faculty is a community of dedicated scholars and teachers whose research expands the boundaries of our knowledge and imagination and their teaching prepare students for wide ranging careers and lifelong learning. Our goal is to equip learners with usual skills and knowledge they need to succeed though. The portfolio follows the pedagogical approach includes both comprehensive in class instructions and the field experiential learning providing students with ample hands on practical experience and skills.

I invite you to explore the Student's Portfolio 2022 to learn more about the brilliant learning environment at the Department of Architecture.

Dr. PRADEEPA C
HoD. DEPARTMENT OF ARCHITECTURE

MESSAGE

STUDENTS ARCHITECTURE PORTFOLIO is the academic collection of the students – 2021 – 2022. This is a collection of work on the qualitative and quantitative analysis and research with the guidance of the faculties attained in the previous semester.

Students Architecture Portfolio – 2021-22 is also focuses on the research, innovation, sustainable solutions of design problems presented to students with direction and encouragement from HoD and Faculties – Department of Architecture.

We wish to present you to take you on a aspiring journey of the architectural works of our brilliant minds.



Ar. POOJA KRIPANITHI
STUDENTS PORTFOLIO COORDINATOR

DEPARTMENT OF ARCHITECTURE

UNDERGRADUATE

The school offers the Bachelor of Architecture (B.Arch.) program of 10 semester duration. The B.Arch degree program at SRM is recognized as one of the India's premier and the most comprehensive programs in Architecture due to the thrust on contemporary issues such as sustainability, urban redevelopment etc. and continuous interaction with practicing architects of repute. It also offers a large number of elective studies, ensuring flexibility and a choice based education tailored to their areas of special interest which may be urban design, landscape, architecture, housing, project management, urban planning etc. The program is approved by the Council of Architecture, New Delhi and was the first one in South India to be accredited by the National Board of Accreditation (AICTE) in 2001.

POSTGRADUATE

The 4 semester M.Arch (Architectural Design) degree is one of the most innovative programs in India and it prepares graduates to meet the challenges thrown up by the ever changing needs of contemporary society. This professional degree is structured to educate those who aspire to create masterpieces of complex architecture including large scale infrastructure projects and metro level urban facilities. It aims to train scholars specifically in the design & construction of tall buildings, airports, mass rapid transportation terminal, stadiums and environmental planning.

CONTENTS

UNDERGRADUATE - B.ARCH

SEMESTER 2 - RESIDENTIAL & FURNITURE DESIGN	
SEMESTER 4 - RURAL DOCUMENTATION & PROPOSAL	
SEMESTER 6 - SHOPPING MALL DESIGN	2
SEMESTER 8 - HOUSING & URBAN DESIGN	2

POSTGRADUATE - M.ARCH

SEMESTER 2 - TERMINAL BUILDING DESIGN 38

B.ARCH

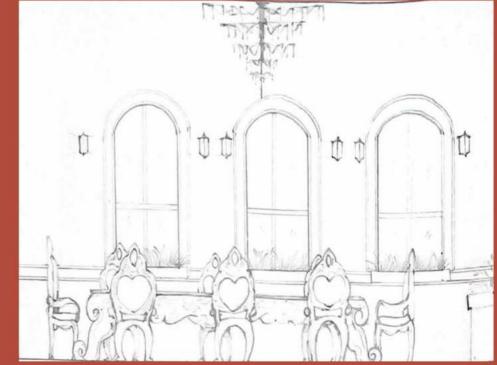
SEMESTER 2

Semester 2 aims at understanding the human ergonomics with reference to human needs, spatial anthropometrics. To faciliate and interpret the influence through the theme of regionalism, art deco and stone age. Introduced to sustainable approacheds with regards to residential design.

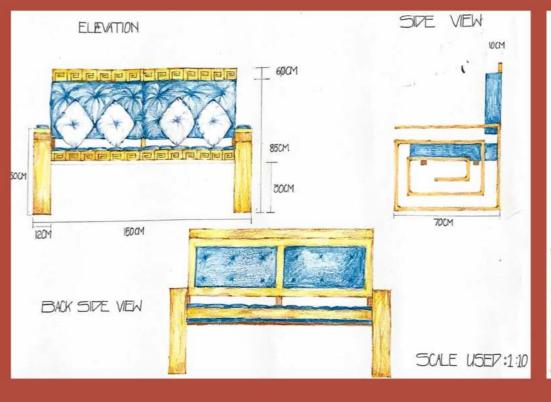
FACULTY TEAM

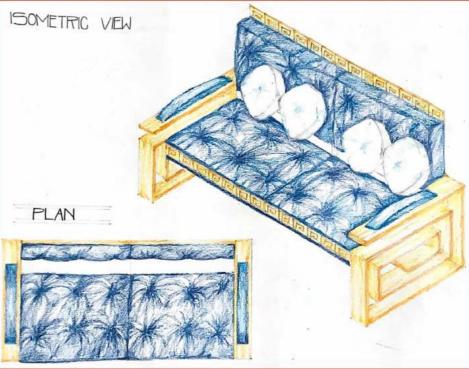
- 1. Prof. Suriya Prakash
- 2. Ar. Balamaheshwaran
- 3. Ar. Nivetha Devi
- 4. Ar. Deepika









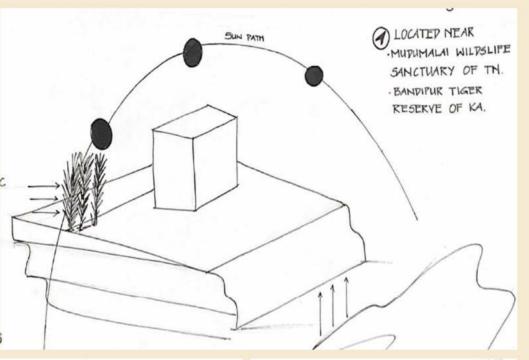


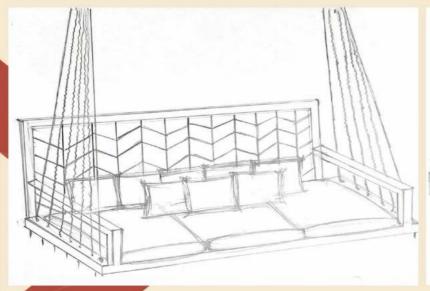
BY NANDHU







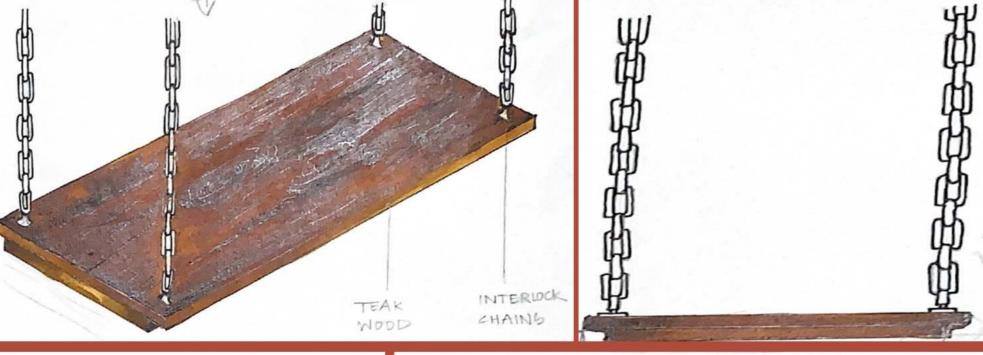




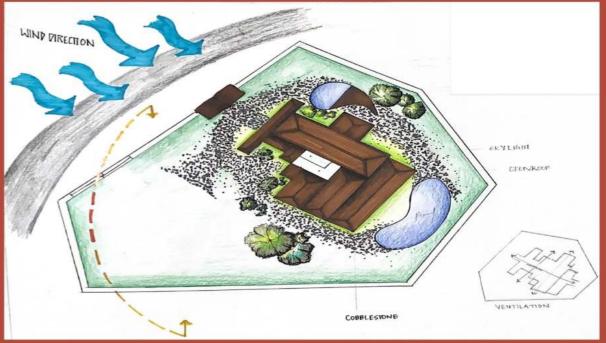




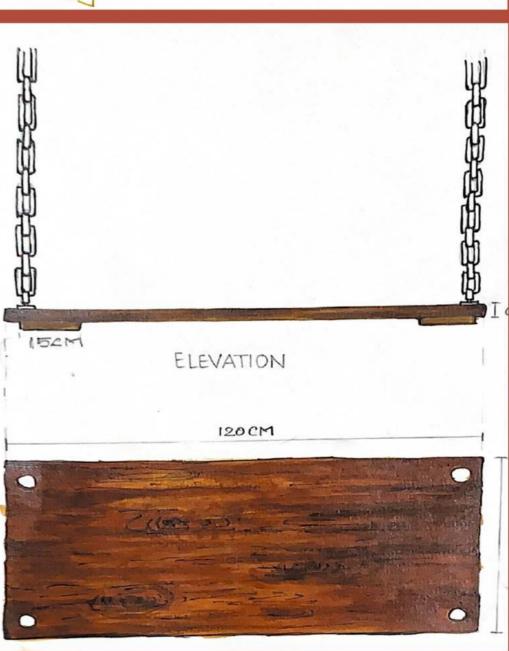
BY SHUBHASHRI J P



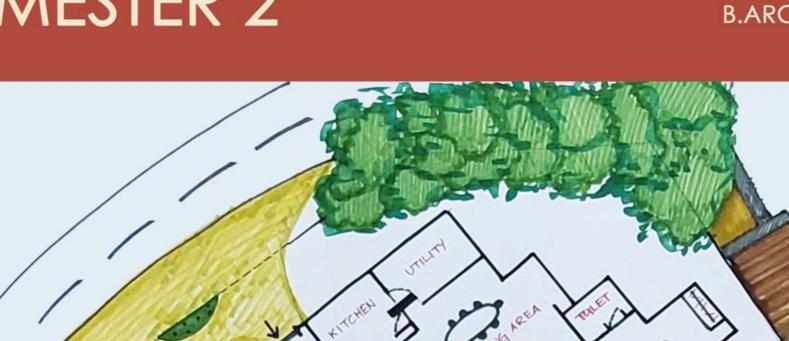






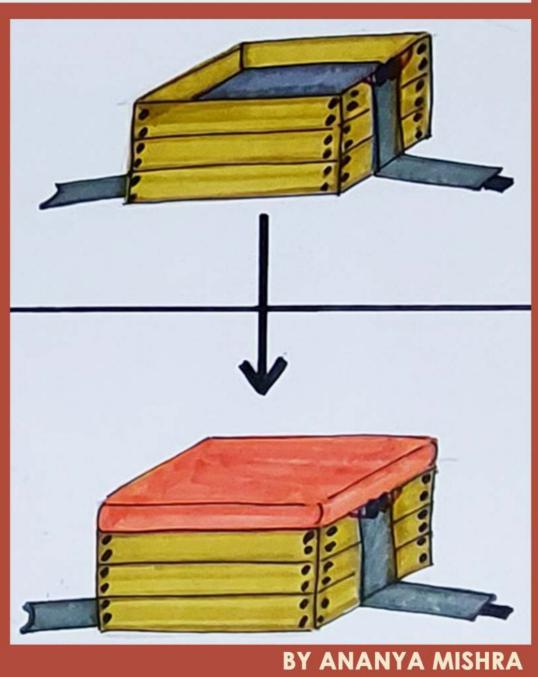


BY VISHNU PRIYA













528.3

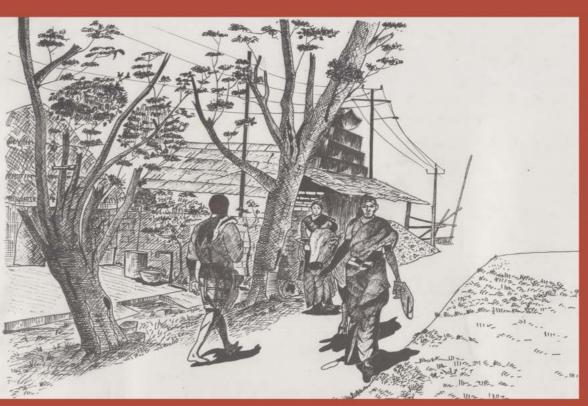
RURAL DOCUMENTATION & PROPOSAL

Semester 4 aims at comprehensive study of a rural settlement to create a holistic understanding of the socio – cultural, geographic, and economic aspects that shape the built environment. Exposure to the methodology of conducting various surveys covering physical, visual characteristics and socio economic aspects. The abilty to understand the vernacular and traditional architecture involving local building materials and construction techniques.

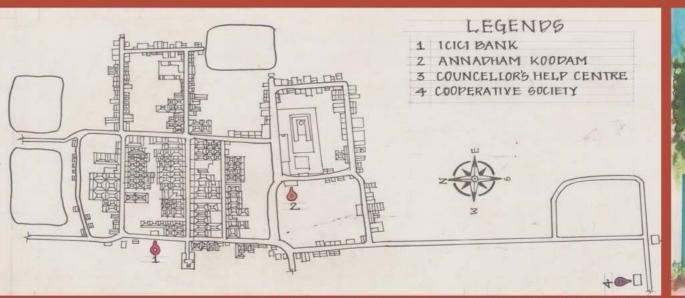
FACULTY TEAM

- 1. Prof. T. R. Kamalakannan
- 2. Dr. Anantha Narayana K
- 3. Ar. Purnachander P
- 4. Ar. Narayani A R
- 5. Ar. Grace Ansica
- 6. Ar. Gajendran T
- 7. Ar. Prasanna S
- 8. Dr. P. Karuppusamy



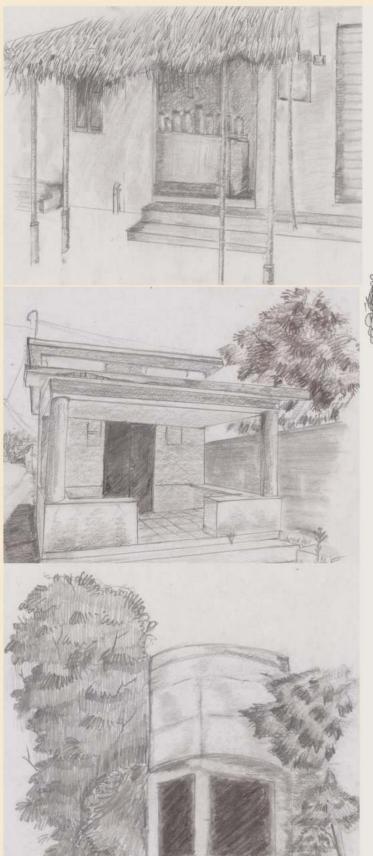








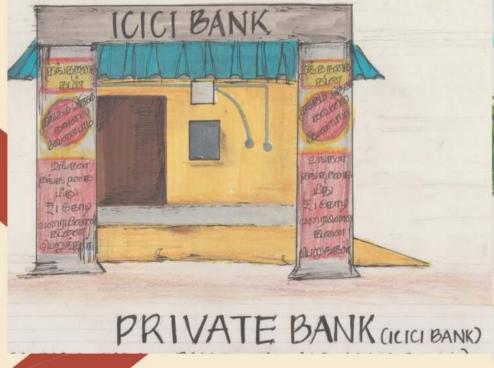
BY SUBASHREE, SAHIDHYA, DEEKSHITHA, SHARAN, AZIN, SHAHINI

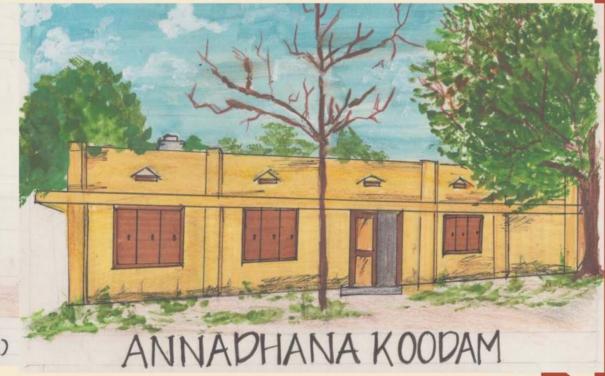


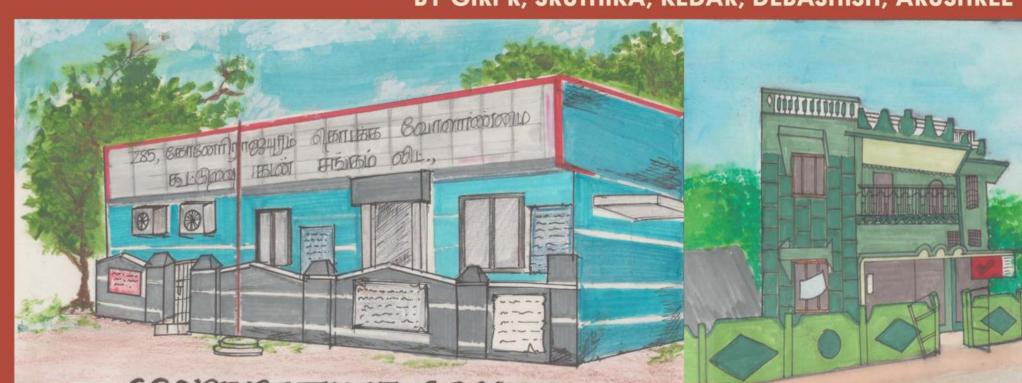




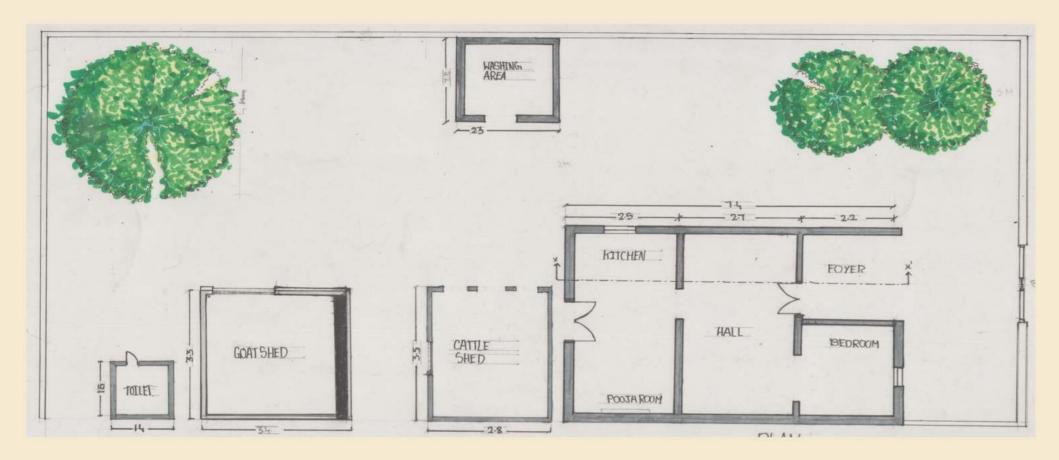
BY GIRI R, SRUTHIKA, KEDAR, DEBASHISH, ARUSHREE

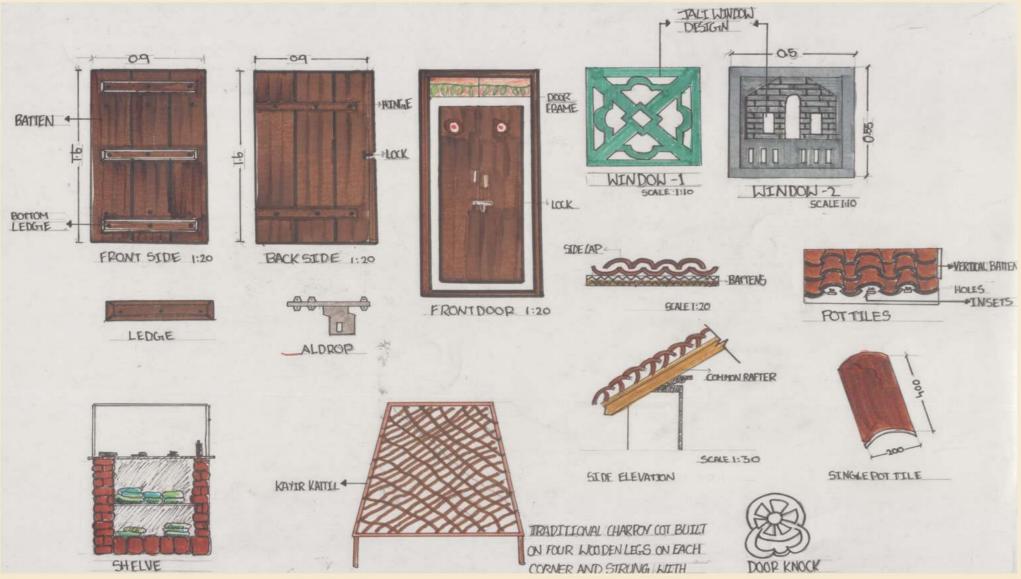




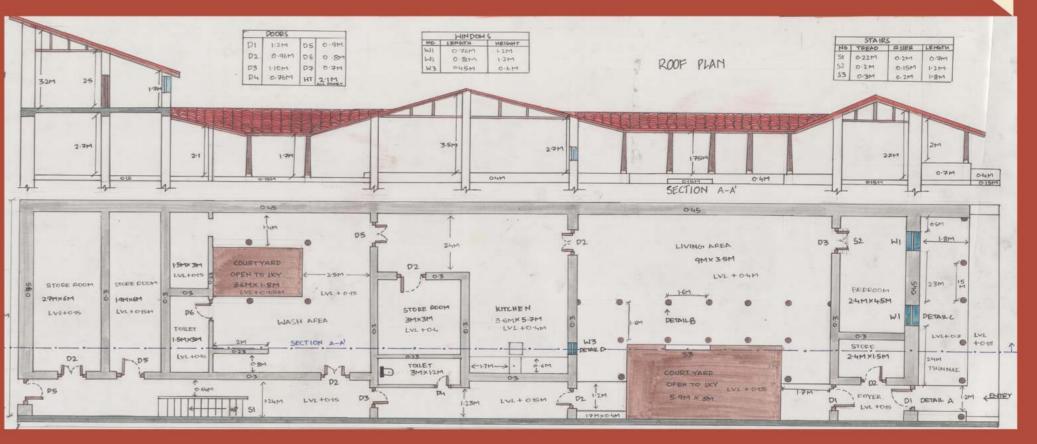


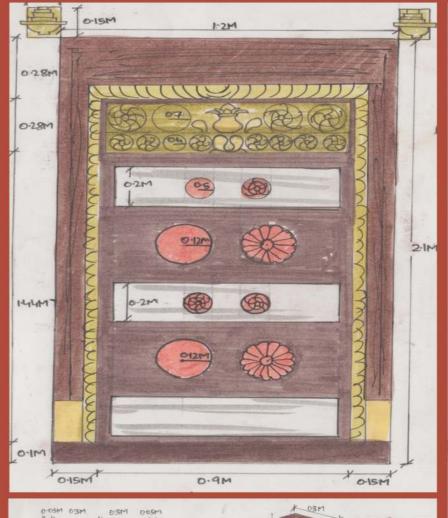
BY SUBASHREE, SAHIDHYA, DEEKSHITHA, SHARAN, AZIN, SHAHINI

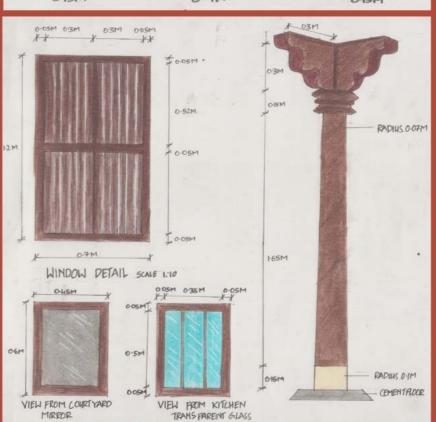


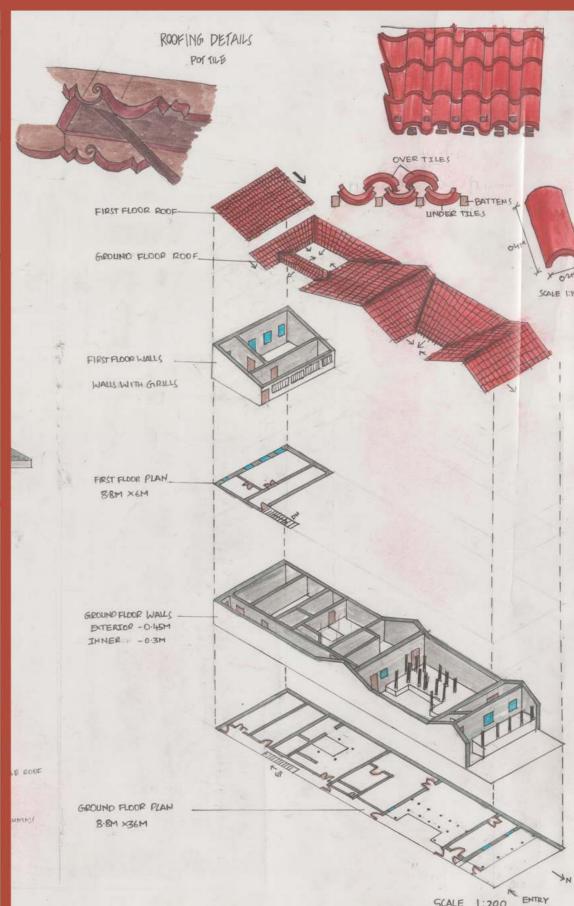




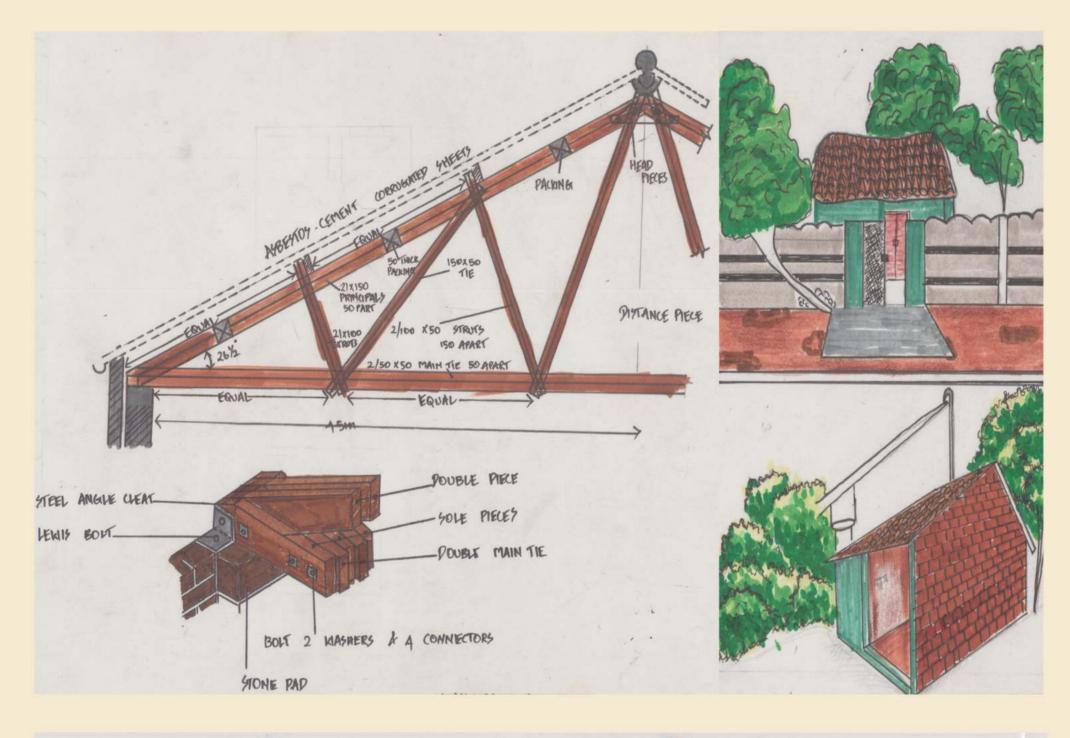


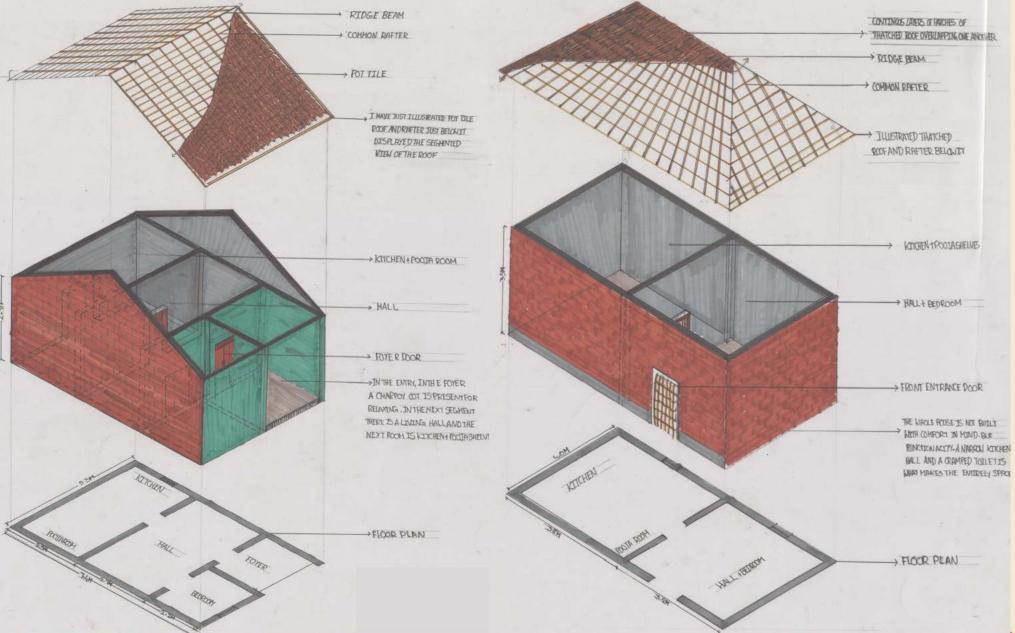


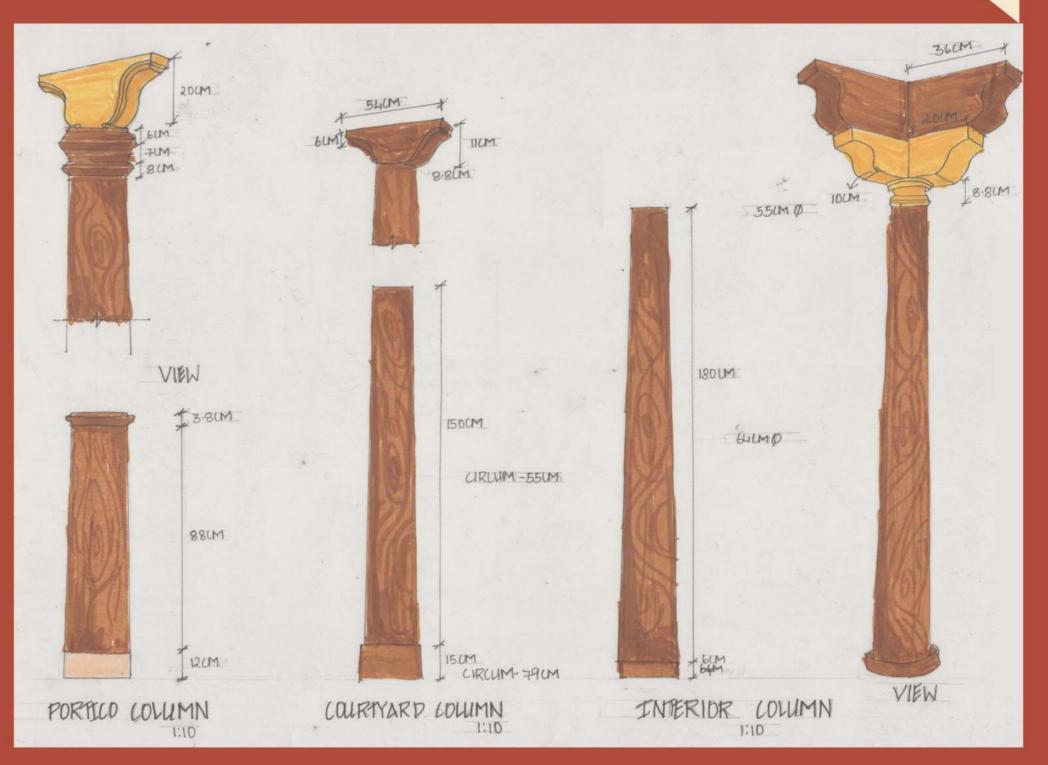


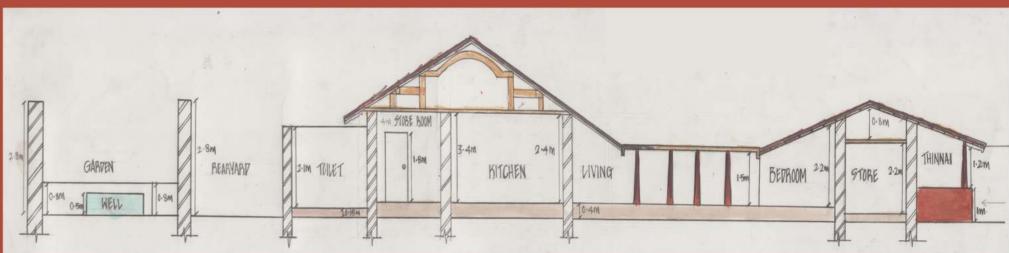


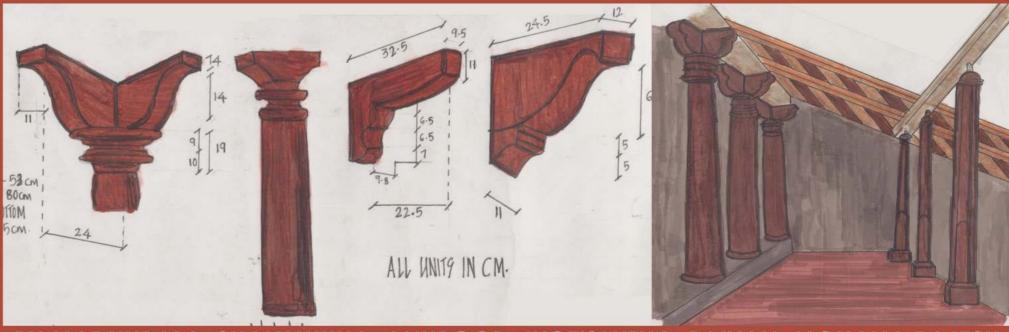
BY MADHUBALA, SHANMUKHA, ANUROOP, JYOTISMITHA, RAIYAN, MOHANA RAJESH



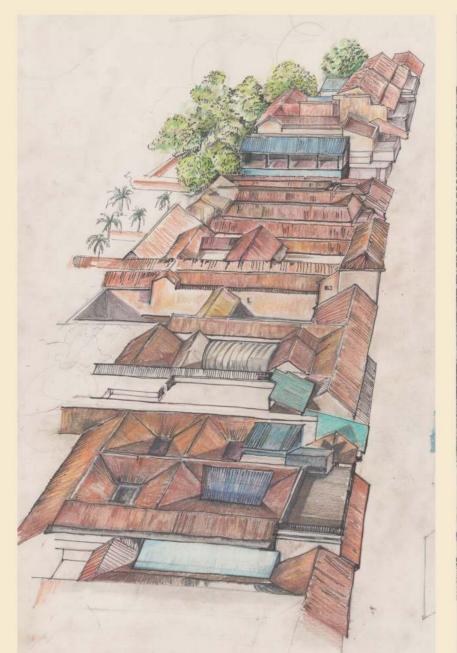








BY MADHUBALA, SHANMUKHA, ANUROOP, JYOTISMITHA, RAIYAN, MOHANA RAJESH

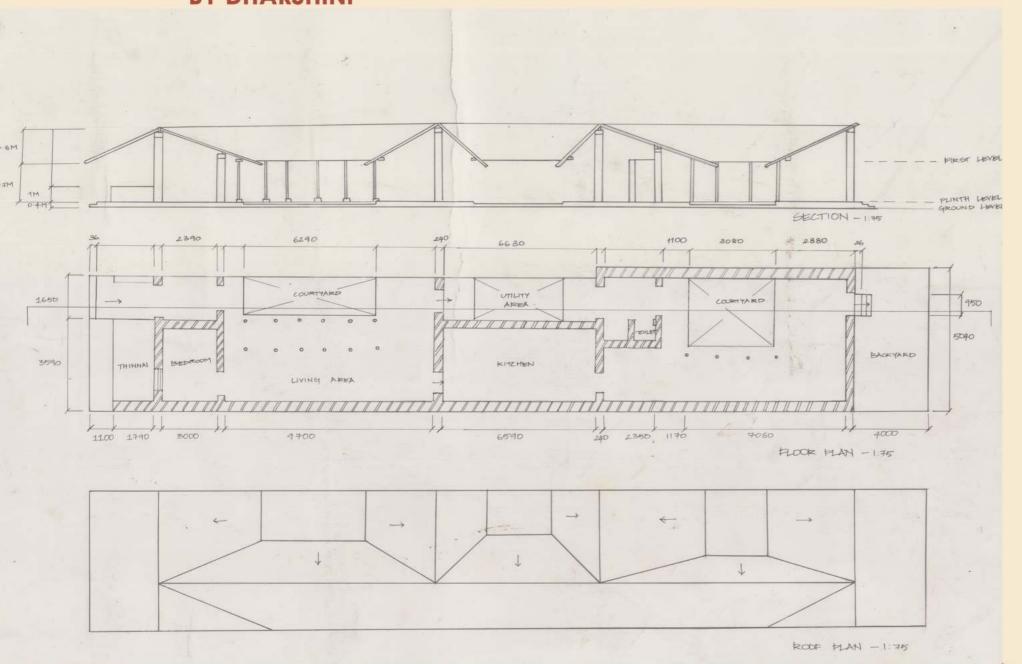


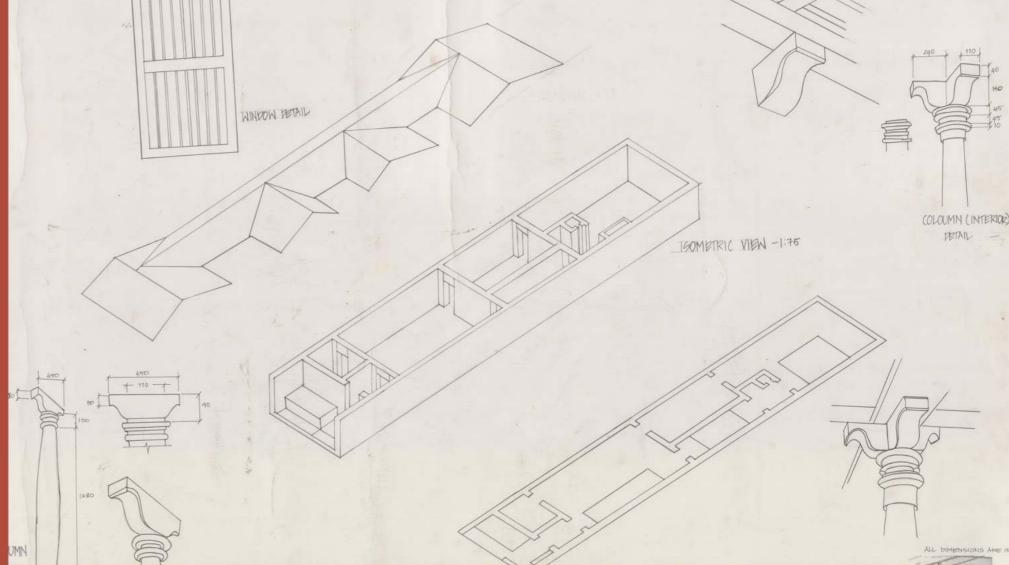






BY DHARSHINI





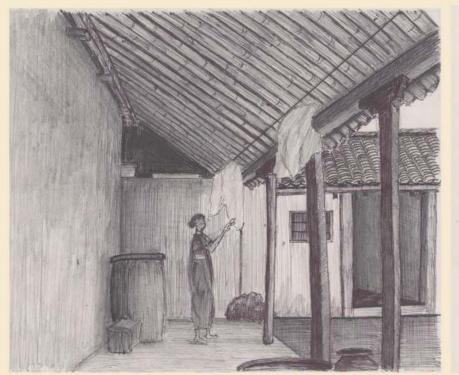
BY SHREYA S

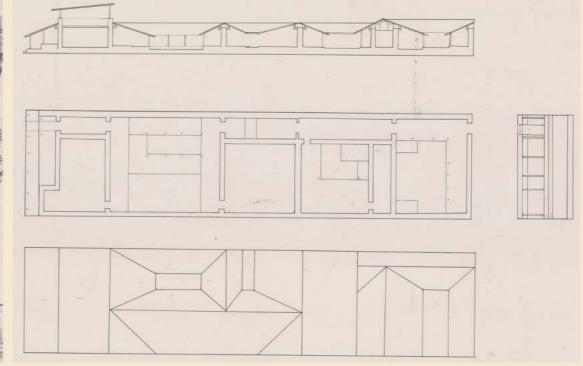
BY SHREYA S

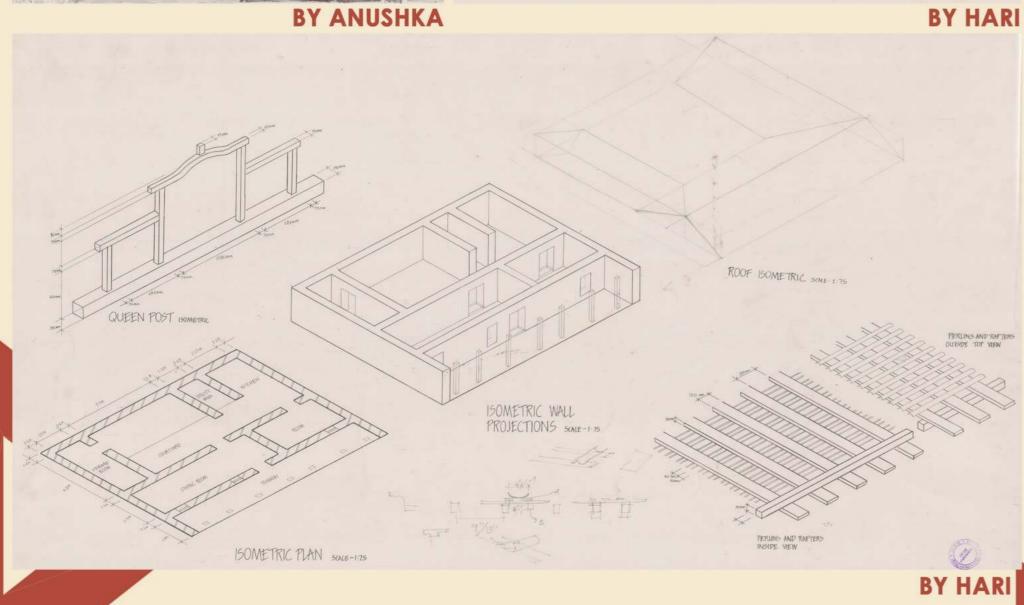
BY SHREYA S

B.ARCH

BY ANUSHKA

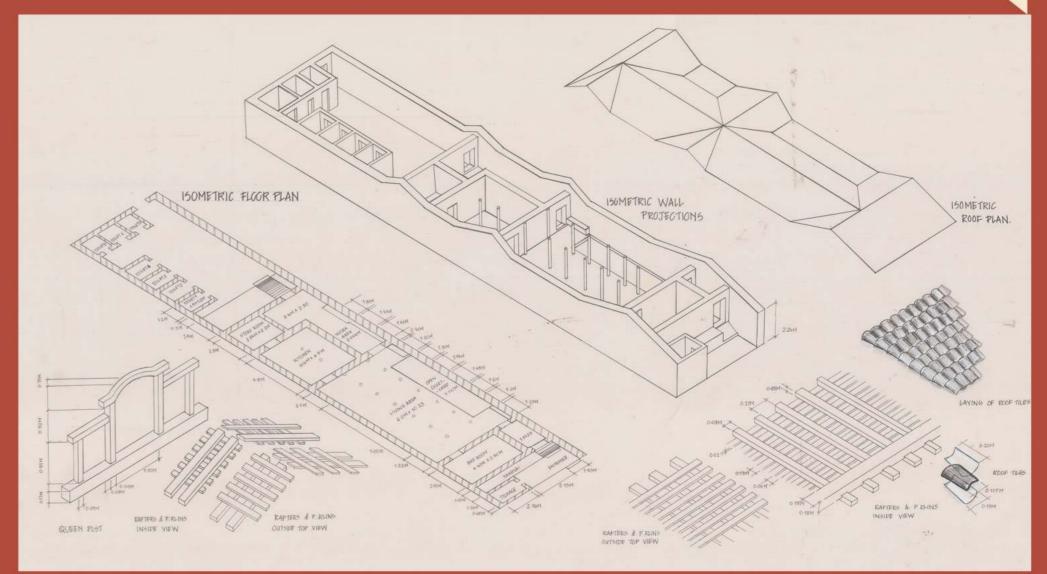


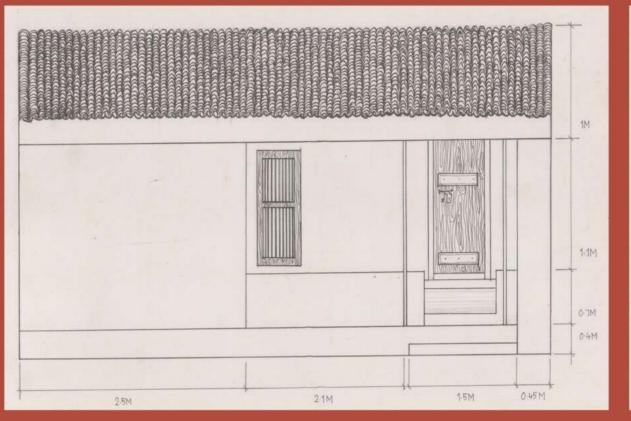


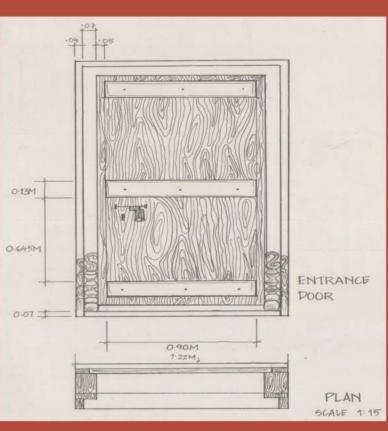


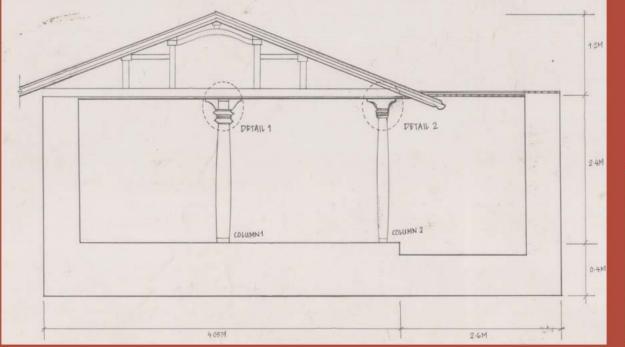
SEMESTER 4

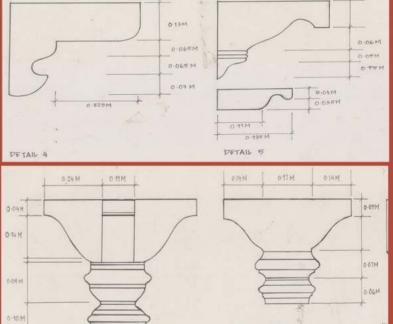








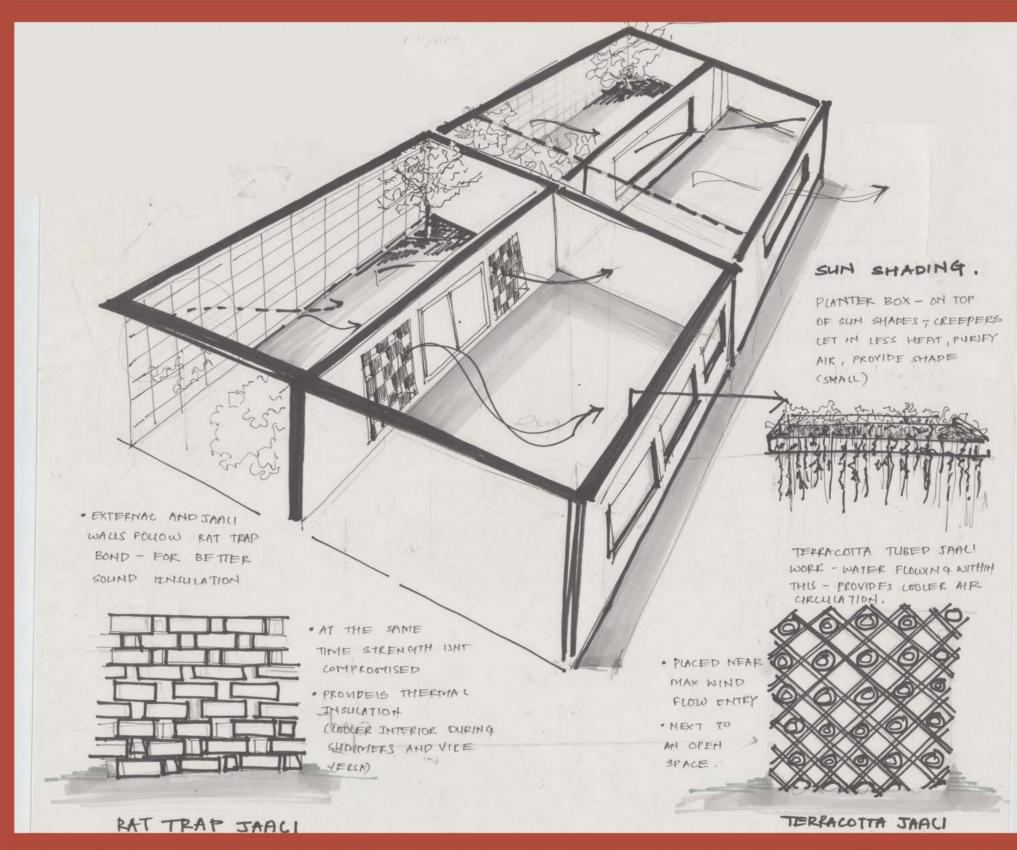


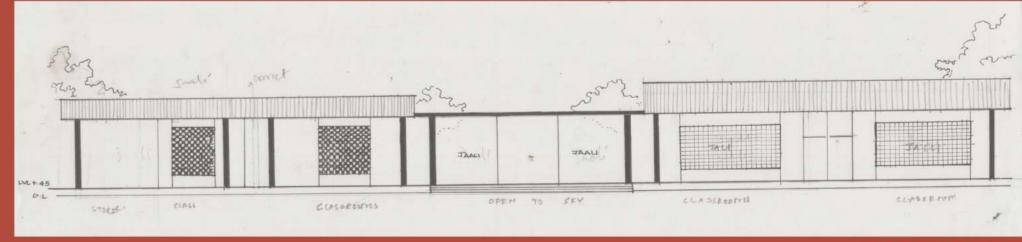


BY ALYA

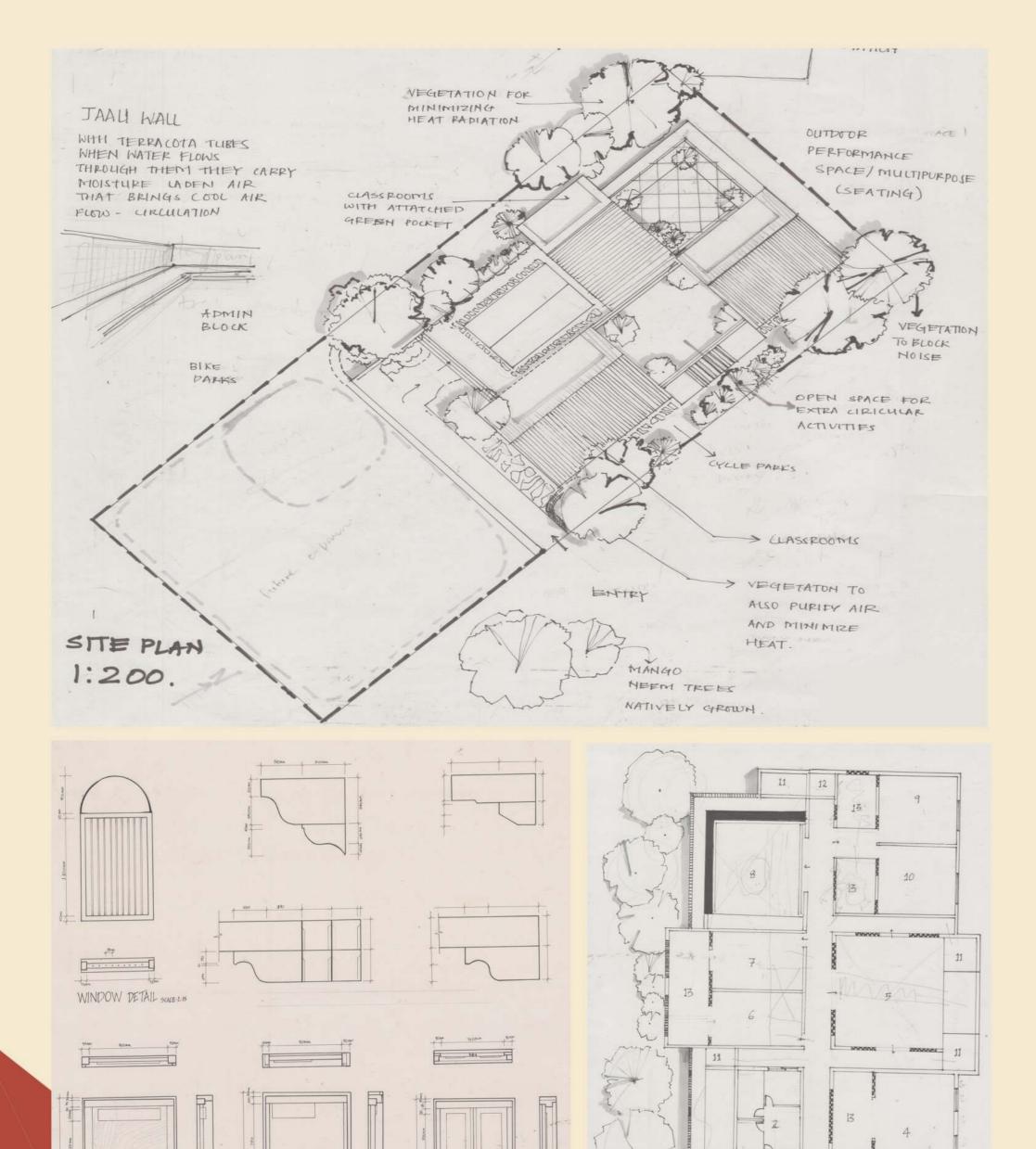
DOOR DETAILS SCALE - 1:15







BY DHARSHINI



B.ARCH

SEMESTER 6

B.ARCH

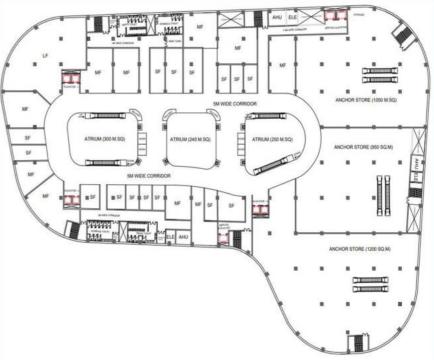


Semester 6 aims at comprehensive study of a large enclosed shopping complex having various stores, restaurants, cinema hall and other business catering the use of a public space. Understanding the needs and use of public area both indoor and outdoor spaces by providing shaded spaces, pedestrian pathways, promenade and seating areas.

FACULTY TEAM

- 1. Dr. Shanthi Priya
- 2. Ar. Sudha G
- 3. Ar. Sukheshini D
- 3. Ar. Praveen M N
- 4. Ar. Prashanthini



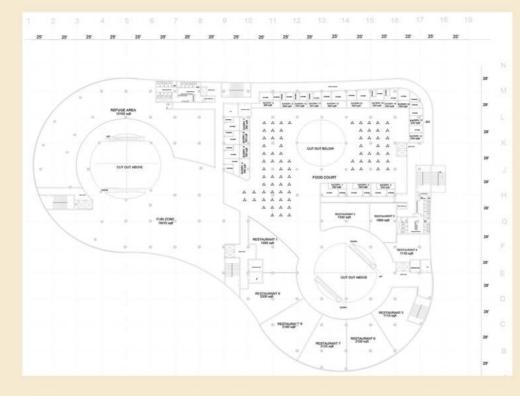


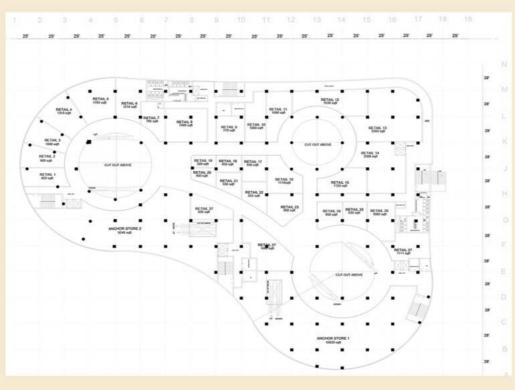


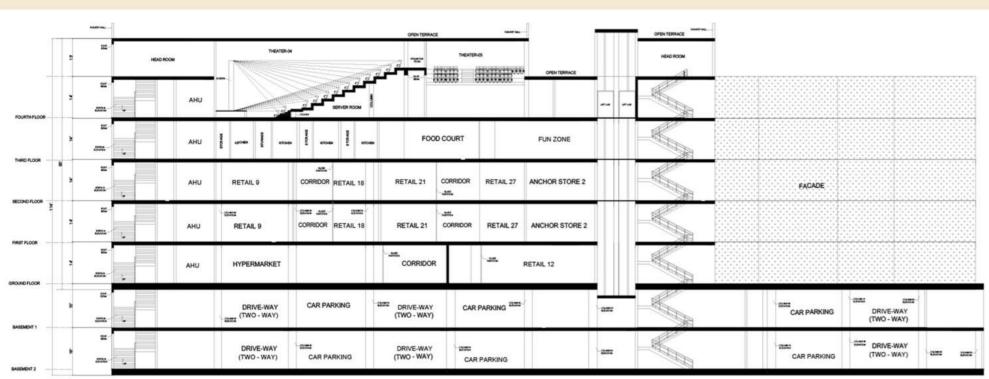


BY RITHIKA

B.ARCH





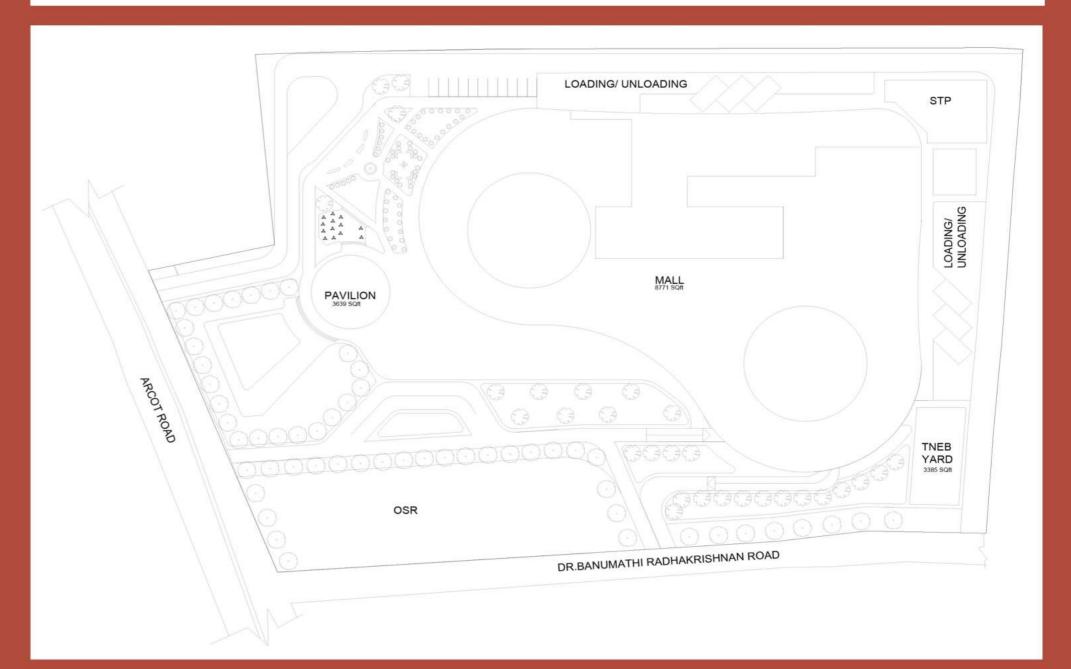


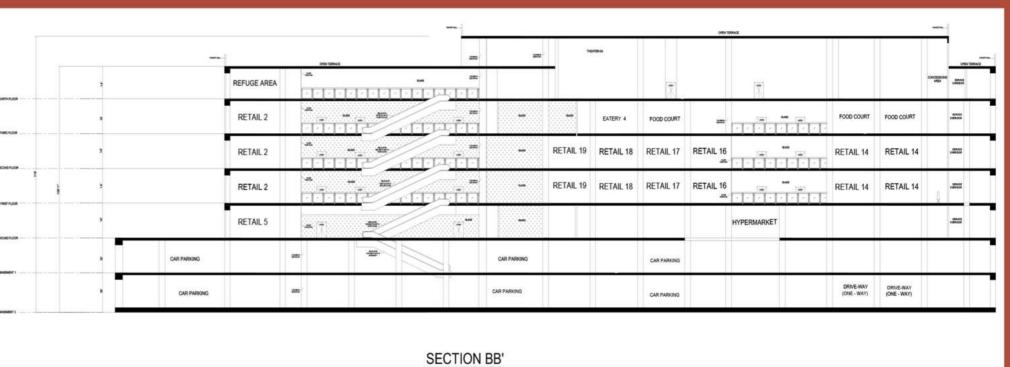
SECTION AA'



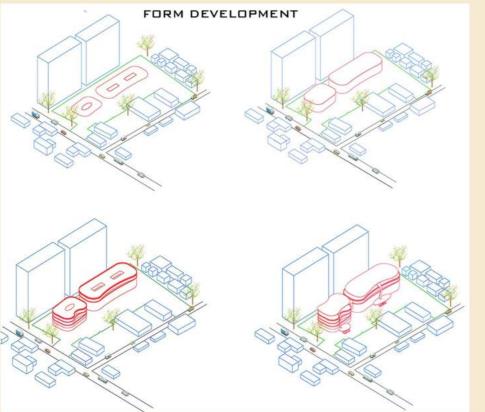


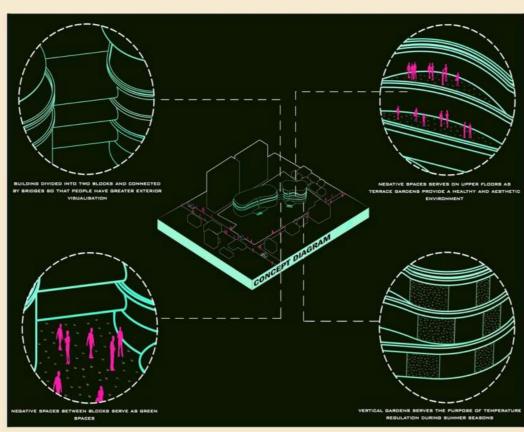


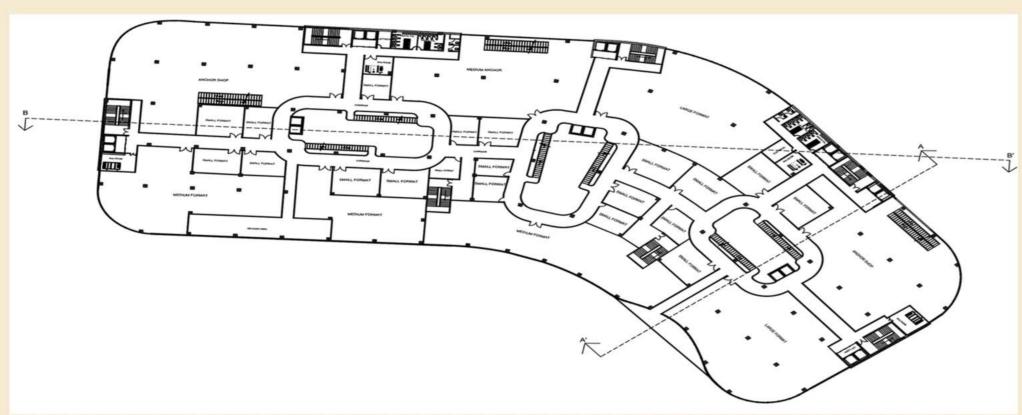




B.ARCH



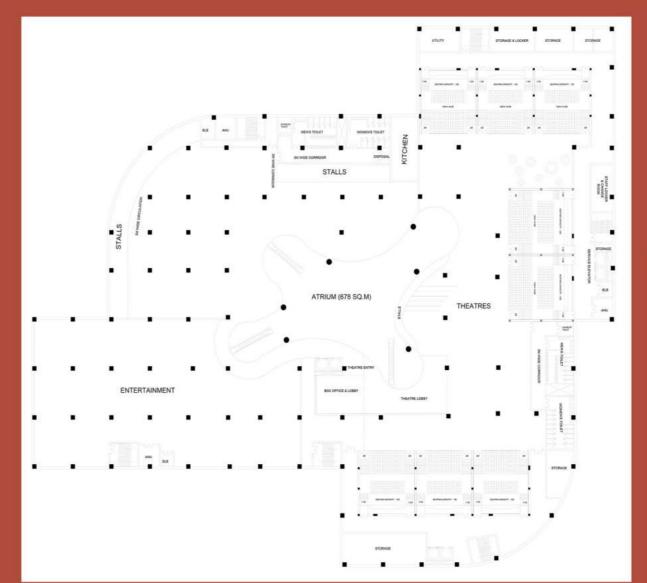




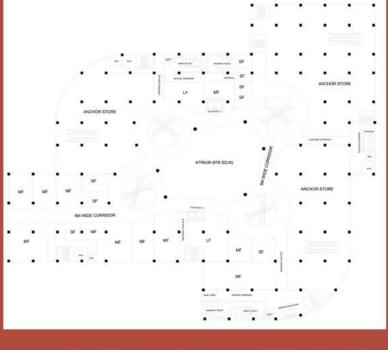








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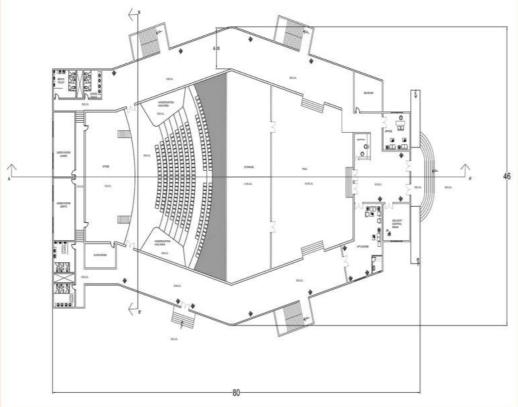


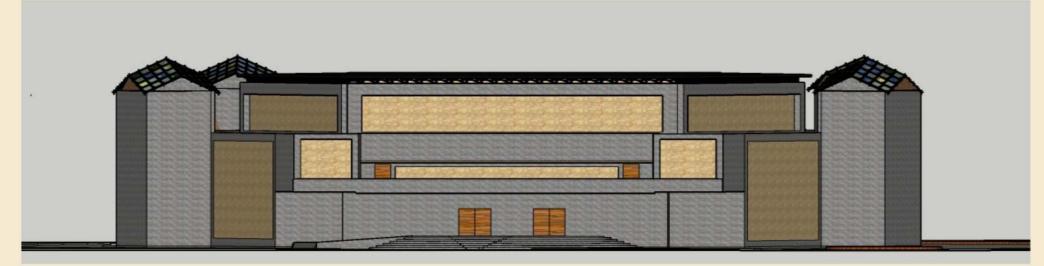


BY JOEL BRITTO J A

B.ARCH

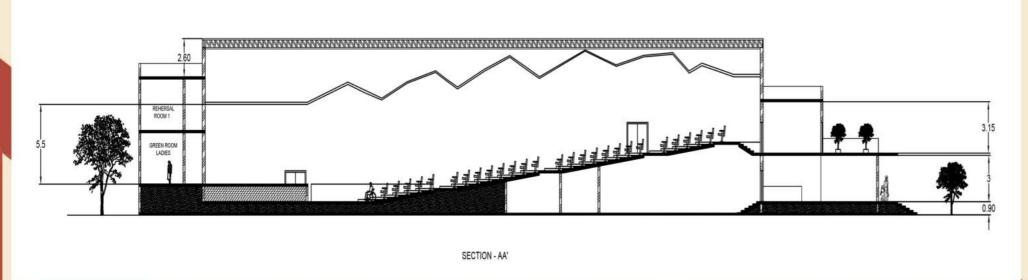




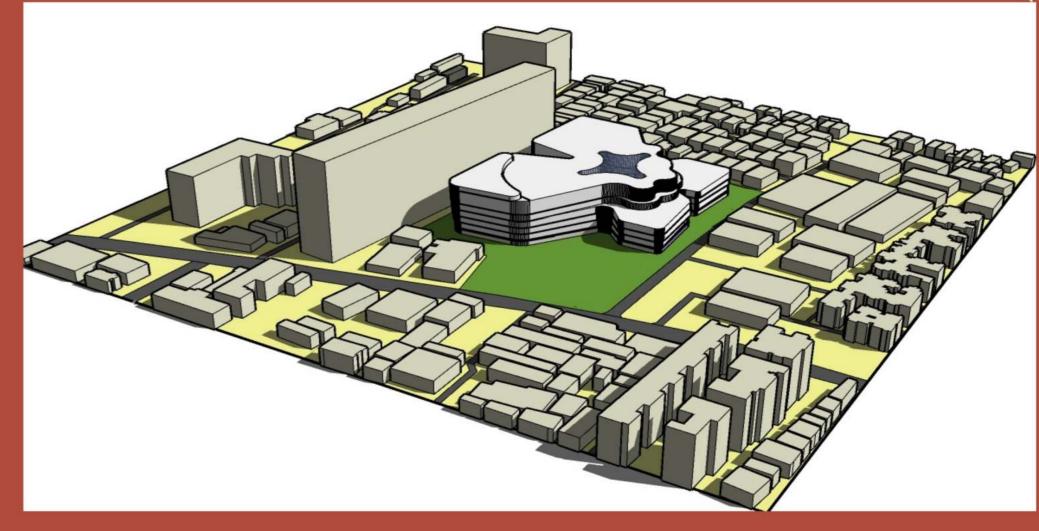


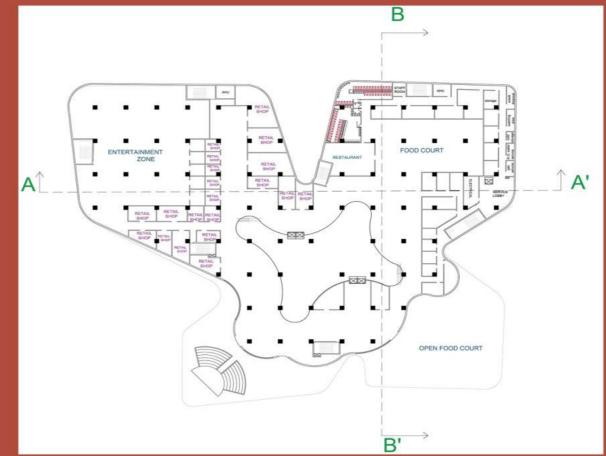




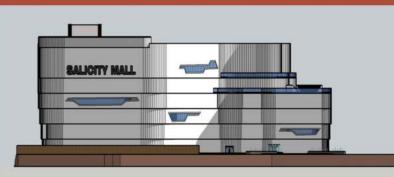


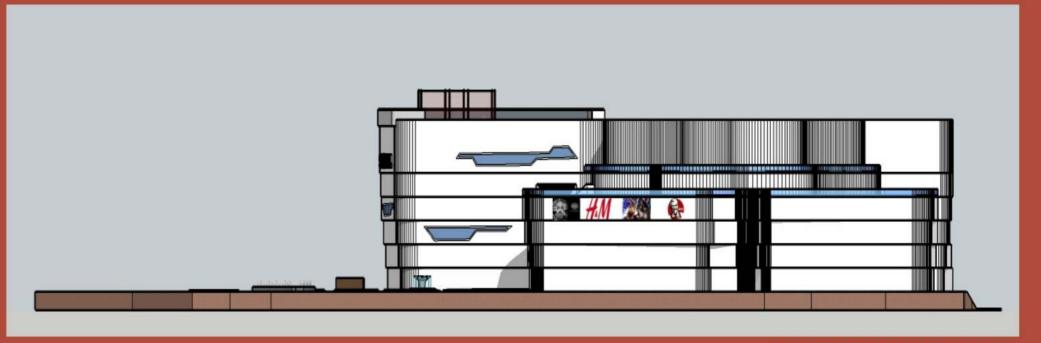












BY VINAYAK U

BY SREEKUMARAN M

HOUSING & URBAN DESIGN

Semester 8 aims at addressing the needs and facing emerging challenges in regard with modern requirements. To develop to availability of affordable shelter, growth of slums, and gaps in provision of basic services to the urban poor. Understanding and resolving the above addressed issues through the means of sustainability.

FACULTY TEAM

- 1. Prof. CT Lakshmanan
- 2. Dr. Neha Bansal
- 3. Ar. K. A. Karthick
- 4. Ar. P. Prashant
- 5. Ar. Anoop Menon
- 6. Ar. Pooja Kripanithi





B.ARCH

SEMESTER 8





BY YOKESH

31

B.ARCH

SEMESTER 8







BY DINESH

MANGADU

REIMAGINING THE TEMPLE PRECINCT

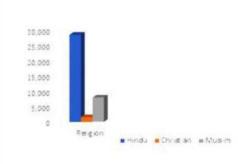


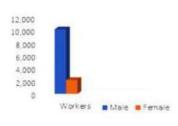
NDIA TAMIL NADU

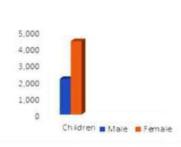
ABOUT MANGADU

Mangadu is a town in Kancheepuram district in the Indian state of Tamil Nadu. Literally meaning a mango forest, it is a south-western suburb of Chennai. It is about 20 km from the city. The town is famous for its Kamatchi Amman temple. Mangadu is close to Poonamalle, a major suburb of Chennai city. Big factions of the population live in the capital of Tamil Nadu, Chennai. Many of these people return to Mangadu once every year or so to give offerings to the local Kaamachi Amman temple.

DEMOGRAPHY











CHENNAI MANGADU



ACCESSIBILITY

By Air:

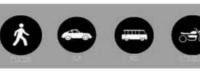
The temple is located 17 km from the Chennai central Airport. You can travel easily to the temple.

By Rail:

The temple is located 18 km away from the Tambaram Railway Station and 21 km from the Chennai central railway station.

By Road

The temple is located 15 km from the Chennai Koyembedu and 18 km from the Tambaram. There are plenty of buses from both places to Mangadu.



10-day Chithirai festival in April-May.

Tamil and English New year.

Pongal in January

Navarathri in September – October.

Shivratri in February-March.



HISTORY

ITt is believed that Goddess Parvati came to MANGADU to do a strong penance for her love LordShiva. Lord Shiva was very much satisfied by the act and he forgave her and decided to marry her.

Her penance was depicted as a form of statue THAPAS KAMATCHI in the TEMPLE.

Other temples in the surrounding was formed to welcome Lord shiva

Mangadu is known for the temple of "Tapas Kamakshi" or Goddess Kamakshi performing penance in Fire. This is the place where the goddess performed her penance to marry and re-unite with Lord Shiva

CULTURE

Mangadu is busiest during its festivals and especially every Tuesday Friday Saturday.

People come rushing to see the Abhishekam and special rituals in Sri Kamakshi Amman Temple which holds a strong infrastructure and well maintained surroundings. Shopkeepers and other sellers awaits its tourists. Mangadu is combined with 14 other nearby village panchayats and there is a 50% of reservation for women in the ward, where the chairman herself being a woman









CONTEXT

Mangadu is a western neighbourhood in Chennai,India . Literally meaning a "mango forest".

Mangadu is famous for its temple culture and the 7 temples which gives life to the place. Sri Kamakshi Amman Temple and the other temples stands in the heart of the place and this town was formed around these temples.

The major population are migrants from chennal and very less number of them are holding the ancestorial background. There are no industries in Mangadu but they are financially sound with a budget of 10crs per year.

HISTORY

URBAN DESIGN - MANGADU

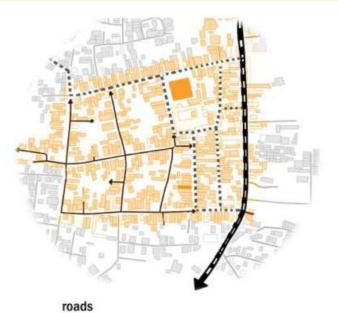
SEMESTER 8

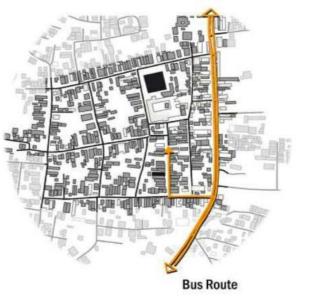
The main road connects Kundrathur-Poonamallee

All the temple cooridors high value makes it secondary roads

the other residential streets get marked as tertiary roads







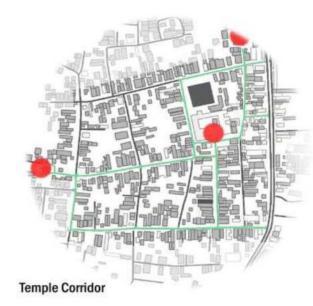


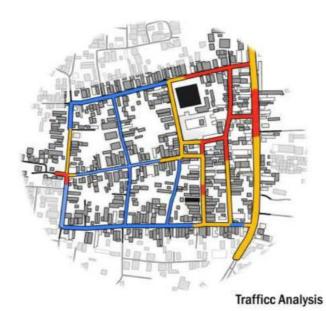
Though the bus route should only be in main road, due to the temples importance and also due to the lack of bus stand the bus is parked in the kovil street, This provides a proposal for Bus stand in the proximity











The map depicts the traffic analysis of the town, main causes of traffic here is due to improper pedestrian pathways, narrow roads and encrooached streets

Proposing a Pedestrian only street for temple can lessen the pedestrian crowd







- URBAN DESIGN - MANGADU -



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B.ARCH

SEMESTER 8

B.ARCH















Upon surveying the locals one of the major complaints recieved stated the lack of a busstand in close proximity and the lack of a bus shelter in mainroad, therefore a bus stand adjacent to the main road has been proposed to ease commuting to and fro, to encourage the use of public transportation and thereby reduce fuel consumption and traffic congestions.



Several road side vendors are observed around the temple area . Proper infrastructure of kiosks can be provided to better accommodate the vendors, to mimic the charecter of a market place.





The locality has only a few native tres. Without any landscape the locality looks dull and dry hence adequate landscaping has been proposed throughout the surroundings

afforestation of native tres adds on value to its native heritage

locations around temple ponds

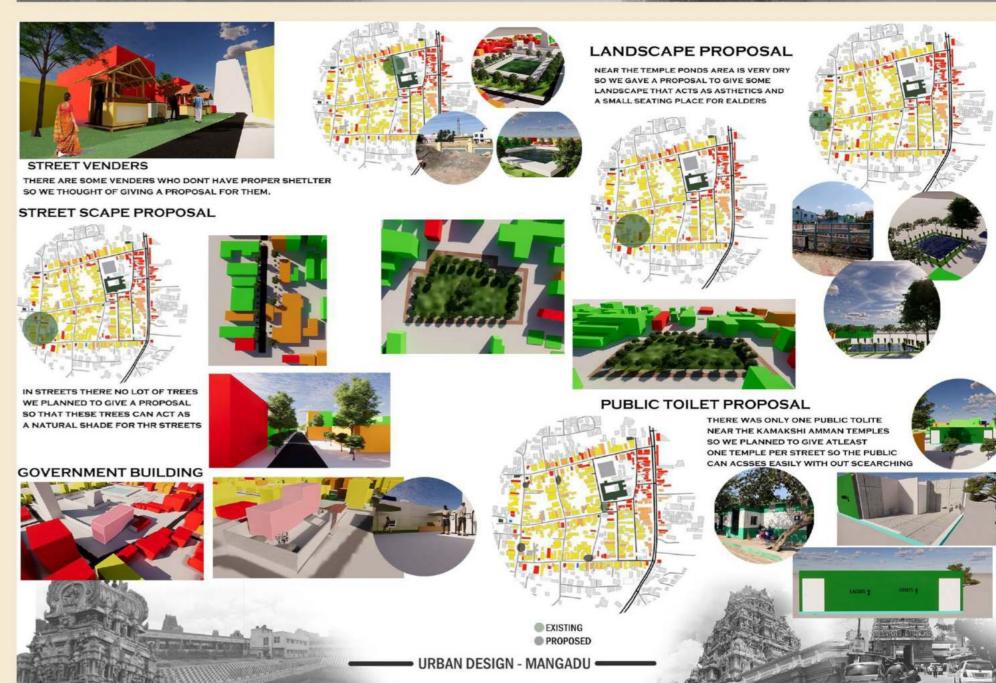


PROPOSAL

- URBAN DESIGN - MANGADU -







BY JAISAM, NEVIN, JAMES, ROSHAN, HITESH, ELAINE, HEMYA, LASYA, ANUKSHA, SOUNDARYA

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M.ARCH

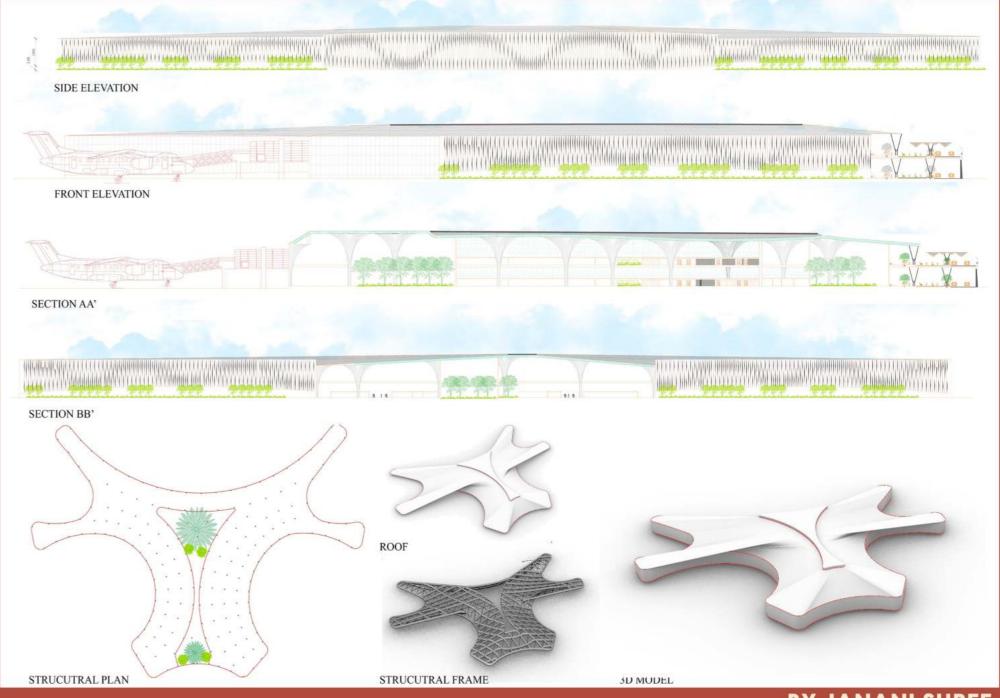
TERMINAL BUILDING DESIGN

Semester 2 aims at comprehensive study of concept and designing of central to the central and design phases of airport development. It impact and influence airport operations on both airside and landside. Understanding the requirements of a terminal design complex by minimizing the time needed to service an aircraft and its transition.

FACULTY TEAM

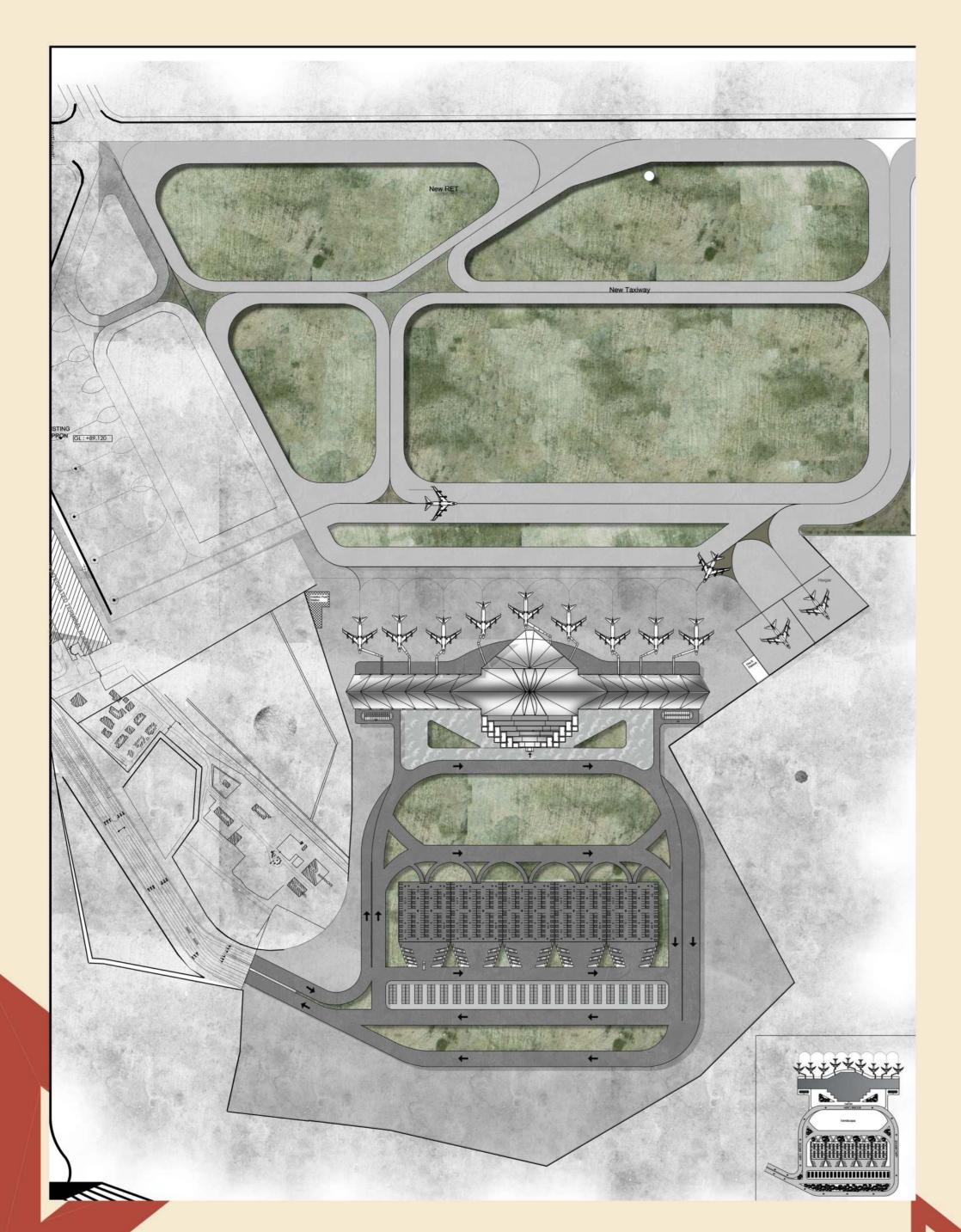
- 1. Dr. K. Geetha
- 2. Ar. Manjari

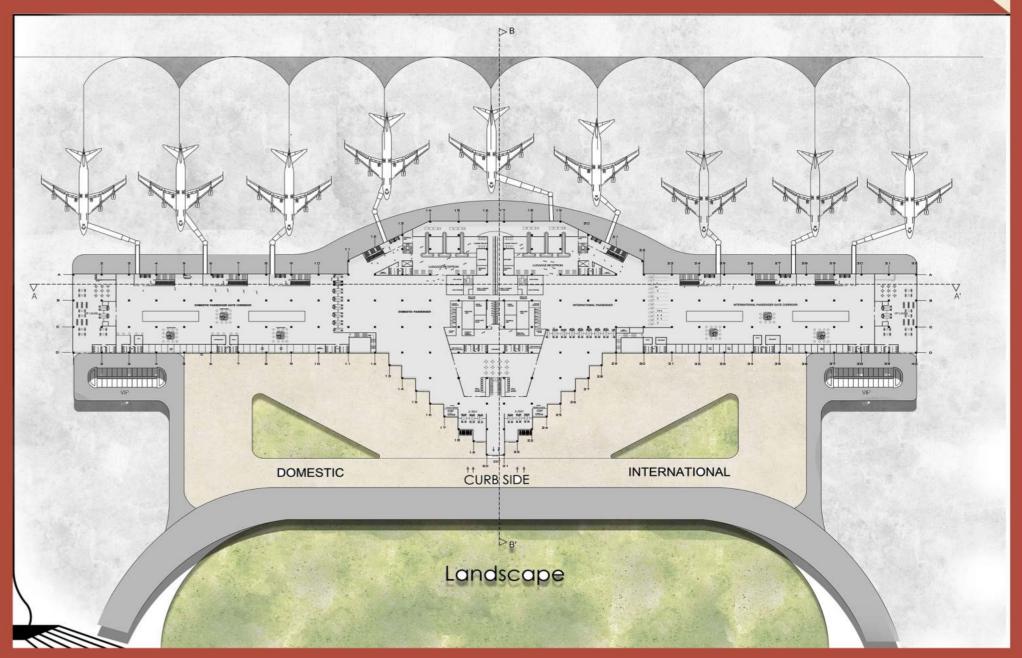
PARKING: SHORT TERM MARKING - 225 Cap. LIONG TERM PARKING - 600 Clap. TWO WHEELER - 50 No.5. TERMINAL BUILDING PARKING FARKING FARKIN

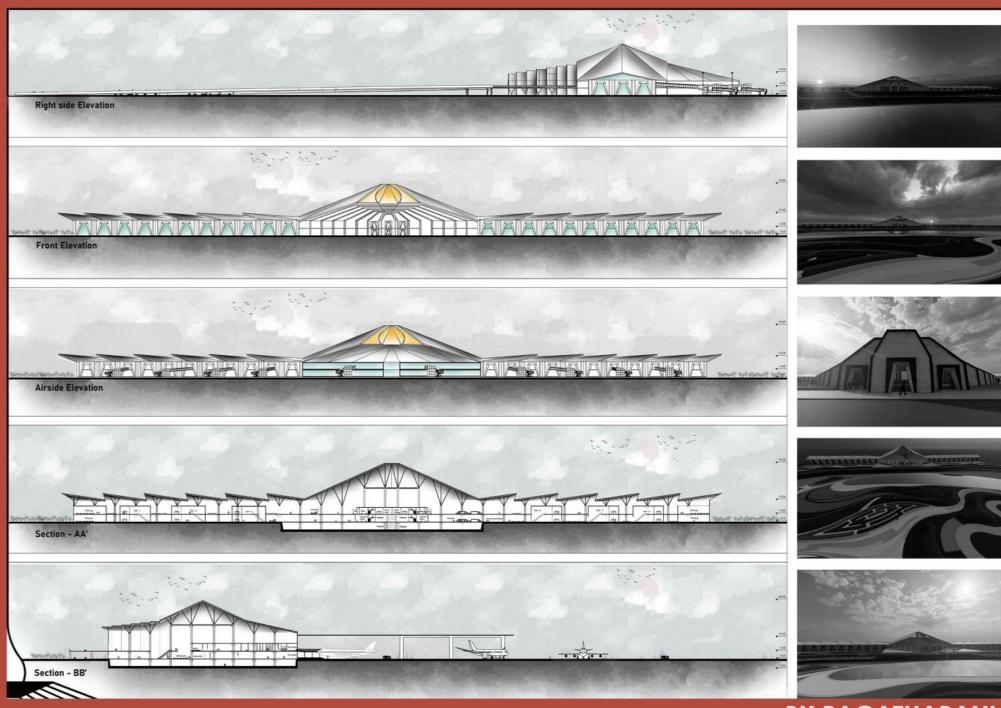


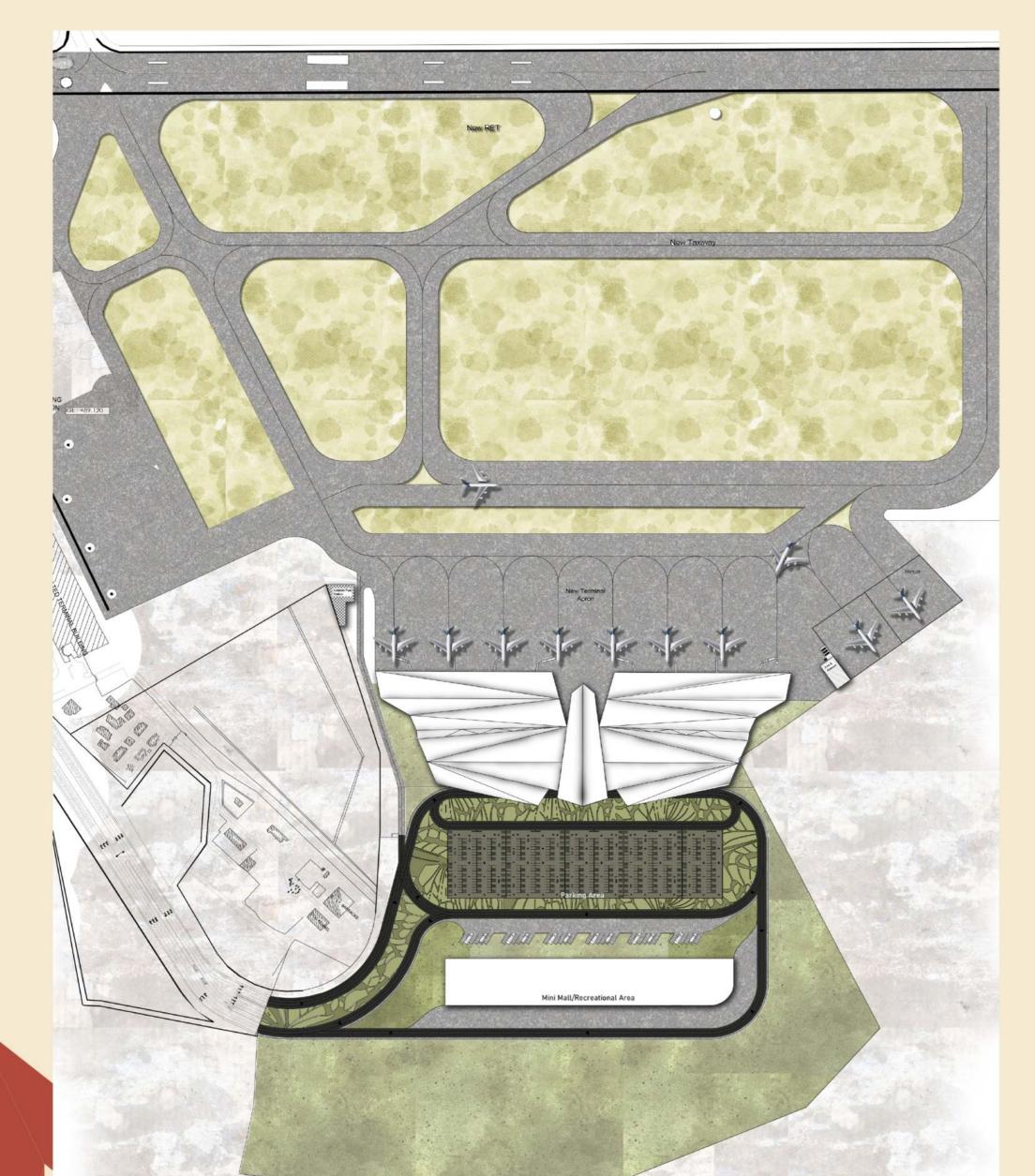
BY JANANI SHREE

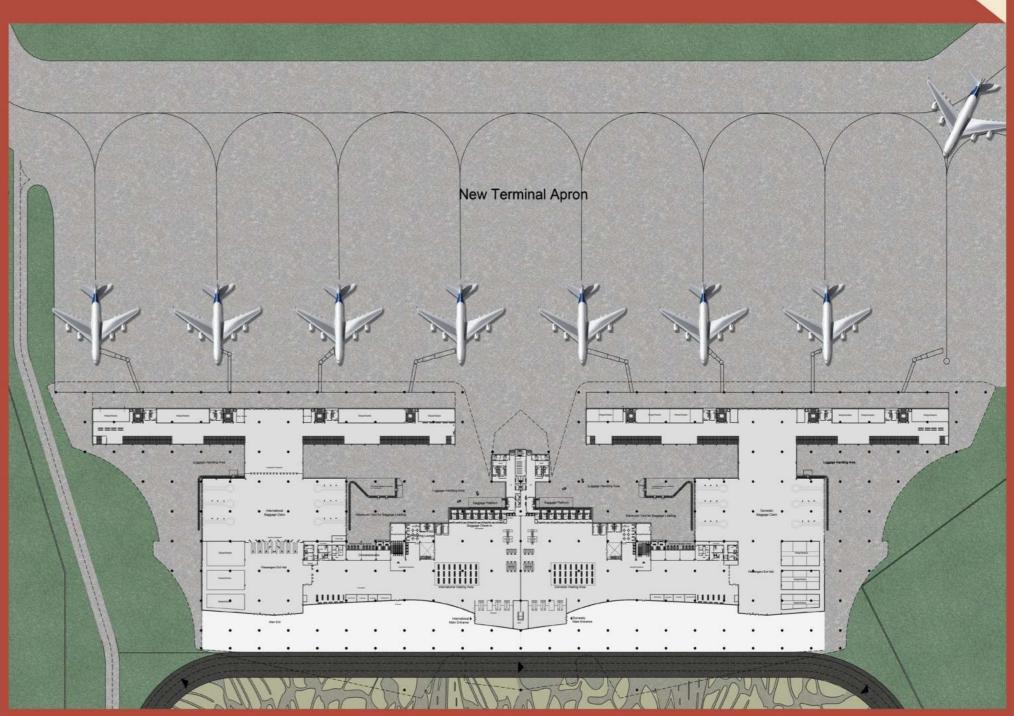


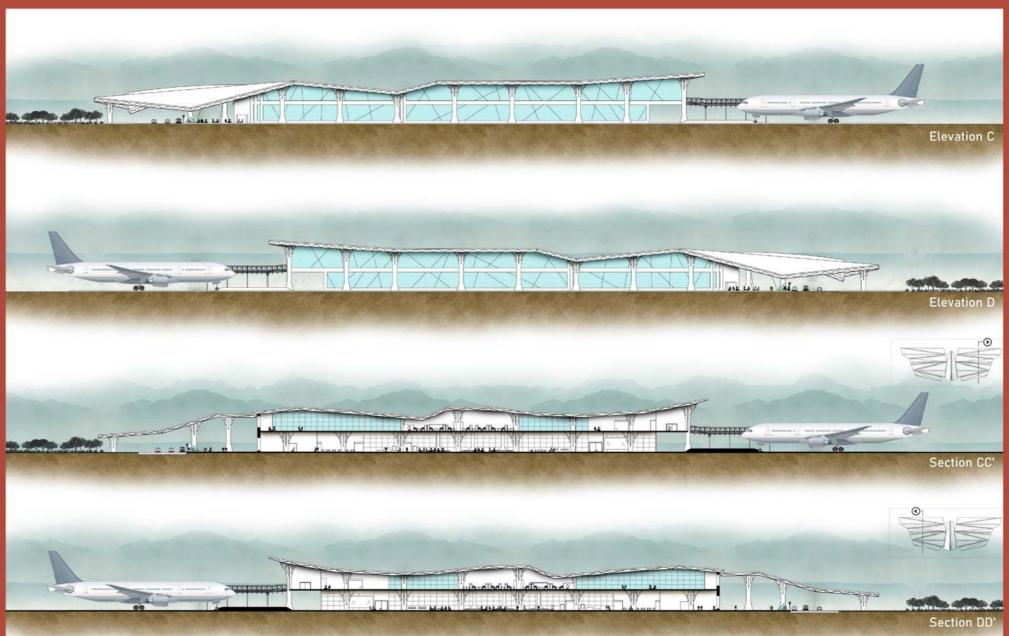












THIRUCHINAPALI

SMALL HOLY CITY

THIRU - CHINA - PALI

CONCEPTUAL DESIGN EVOLUTION

TIRUCHIRAPALI

THRISHIRA - PALI

THREE SHEED CITY

TRICHY

THE FORM OF THE AIRPORT IS DERIVED BY THE CONCEPT OF ADDITIVE FORMS... A CONTINUOS, DYNAMIC WATER BIDY MIMICING THE "KAVERI RIVER" UNIFIES THE THREE VARIED FORMS. IT ALSO WOULD PERFORM AS A BIOPHILIC ELEMENT IN THE INTERIORS. THE SURFACE OF THE STRUCUTRE IS ARTICUALTED BY PATTERNS AND GREEN WALLS.

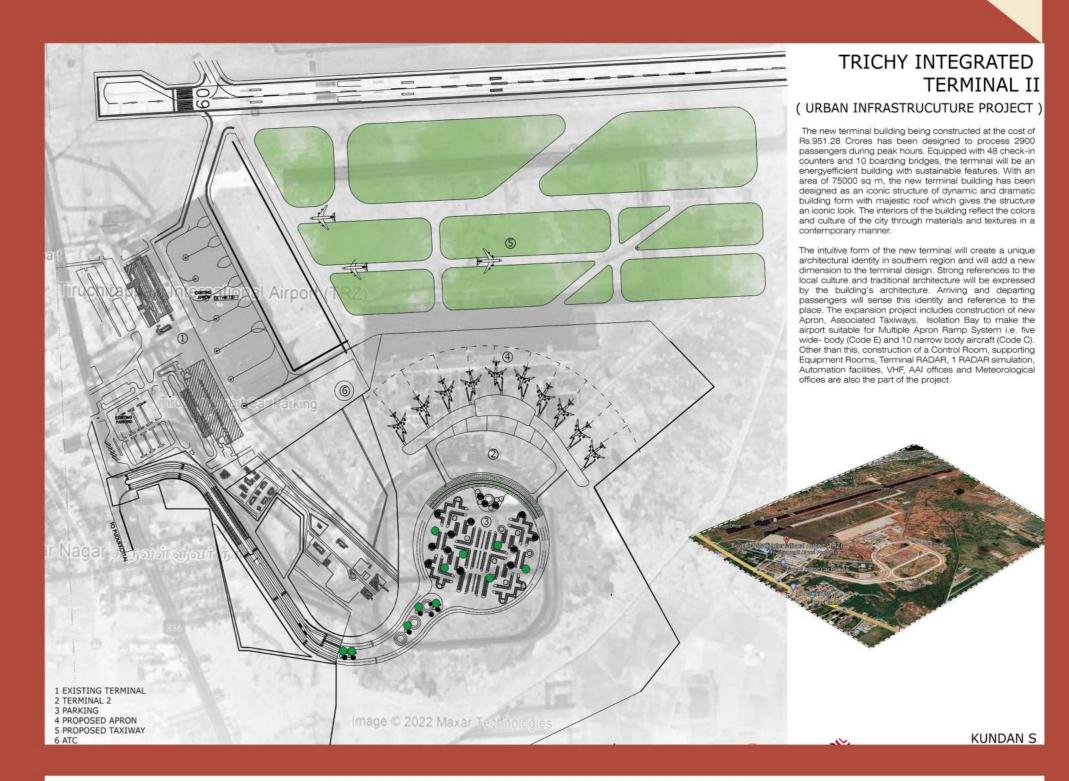
M.ARCH

FORM EVOLUTION TRICHY ROCKFORT TEMPLE ABSTRACTLY CONVERTED TO VOLUMETRIC THE MASS DERIVED FORMS, WHICH WOULD DEPICT THE THREE HEADS OF THRISHIRA SAGE FROM WHICH THE NAME OF THE CITY IS DEVELOPED. THE MASS OF THE ROCKFORT TEMPLE IS CONVERTED TO SPHERE, CUBOID AND PYRAMID WHERE THE HILOCK IS REPRESENTED BY A SPHERE, FORT BY A CUBOID AND TEMPLE BY A PYRAMID. INTERIOR CONCEPT VISULAIZATION ROOF SURFACE ARTICULATION THE INTERIOR OF THE PROJECT, EVOLVED FROM THE PROMINENT FEATURES OF THE TRICHY LOCALE SUCH AS THE SRIRANGAM TEMPLE, AND AGRAHARAMS. TRADITIONAL KOLLAM PATTERNS, STONE-CARVED COLUMNS AND TEMPLE MURALS, SEQUENTIALLY PLACED TEMPLE GOPURAMS WITH STATUES. THE MAIN WAS TO GIVE A SENSE OF CONNECTION TO THE PROMINENT LOCATION TO THE VISITORS FROM ACROSS THE WORLD. THESE ELEMENTS WOULD FUNCTION AS VISUAL POINTS FOR THE MONUMENTAL SCALE BUILT ORM. APART FROM BEING AS AESTHETICAL ELEMENTS THEY ALSO FUNCTION AS POINTS OF GATHERS WHICH WOULD DIRECT THE FLOW OF CIRCULATION IN THE BUILT FORM.

TRICHY INTEGRATED TERIMAL - II Curve Tools Surface Tools Solid Tools SubD Tools Mesh Tools Render Tools the traditional KOLAM of South India. The patterns are continued to the ceilings as false ceiling elements. The lines of the column function as lateral structural members. The primary structure would be a circular column enclosed within the Kolam pattern. The conceptual evolution initiates with dots pattern. The central control points are identified and extruded in the Z-axis ☑ End ☑ Near ☑ Point ☑ Mid ☑ Cen ☐ Int ☑ Perp ☑ Tan ☑ Quad ☑ Knot ☐ Vertex ☐ Project

SEMESTER 2





AIRPORT TERMINAL SPATIAL ZONING LOBBY BAGGAGE CHECKIN SECURITY CHECK TOILET / SERVICES DUTY FREE SHOPS EMMIGRATION OFFICE WAITING AREA GATE FOOD COURT DEPARTURE ZONING

DESIGN STUDIO II - FRACTAL COLUMN DESIGN DEVELOPMENT AND ITERATION