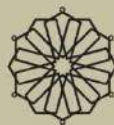
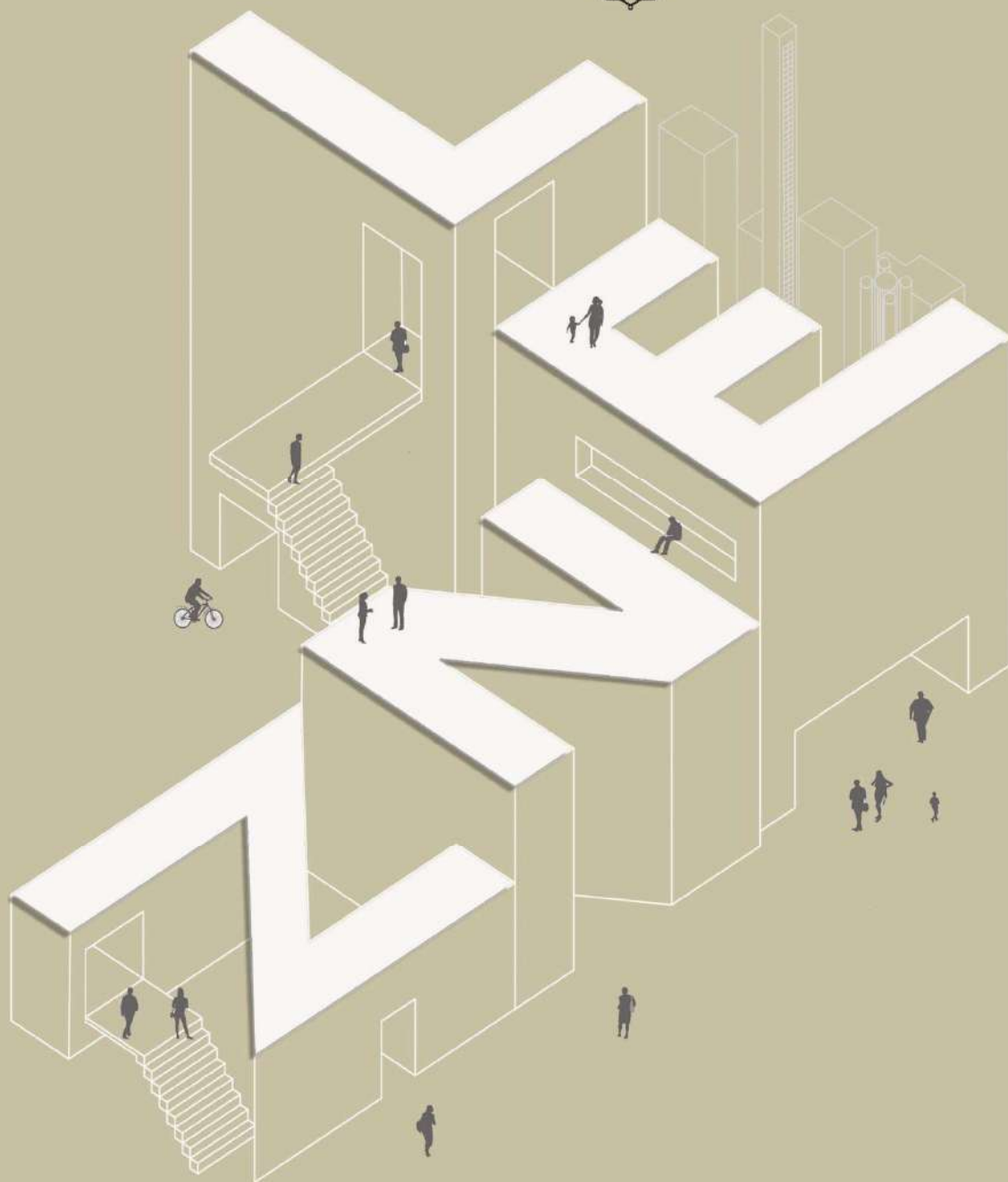


# SMVSA LENZ



SRI MANAKULA VINAYAGAR  
SCHOOL OF ARCHITECTURE



# URBAN DESIGN

The Students from Semester IX visited "Thanjavur" a heritage Urban Town from Tamil Nadu, The Students were accompanied with Faculty Ar.R.Ragavendra (Associate Professor) and Ar.S.Manoharan (Principal-SOA).

Urban city visits are an essential part of our architectural design education, aimed at exposing students to contemporary architecture, diverse urban fabrics, and complex infrastructure systems. These visits help students analyze how cities grow, function, and interact with human behavior, technology, and environment. By observing real-world examples of zoning, public spaces, high-rise buildings, and urban renewal projects, students gain practical insights that inform and inspire their own design thinking. Such experiences bridge the gap between classroom learning and the dynamic realities of urban development. This is also a part of their curriculum of Semester – IX



The Following is the Structure for the Urban Study which our School of Architecture students follows.

### 1. Introduction & Objective

- Define the purpose of the urban study
- Identify the key focus areas (e.g., housing, mobility, public space, zoning, heritage)

### 2. Preliminary Research

- Study the historical background, geographical context, and demographic profile of the area
- Analyze existing literature, master plans, and government policies related to the site

### 3. Site Visit & Data Collection

- Conduct field visits for mapping and on-ground observation
- Document building typologies, street patterns, land use, infrastructure, and user behavior
- Capture photographs, videos, and sketches for reference.

### 4. Stakeholder Interaction

- Interview local residents, shopkeepers, planners, or municipal officials
- Understand community needs, challenges, and perceptions of the built environment

### 5. Analysis & Interpretation

- Analyze spatial patterns, social dynamics, and environmental aspects
- Identify urban issues, potentials, and areas for intervention.

### 6. Presentation & Design Response

- Synthesize findings into visual presentations: maps, charts, diagrams, and models.
- Propose conceptual or strategic design solutions based on the study insights.

### 7. Report & Documentation

- Prepare a comprehensive report compiling research, findings, and proposals
- Reflect on the learning outcomes and applicability to architectural practice.
- Propose conceptual or strategic design solutions based on the study insights.





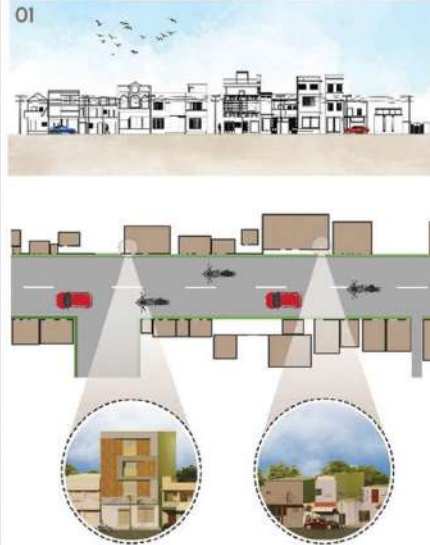
## ROAD NETWORK :



## 03 . JUNCTION CONNECTING ONE WAY AND TWO WAY :

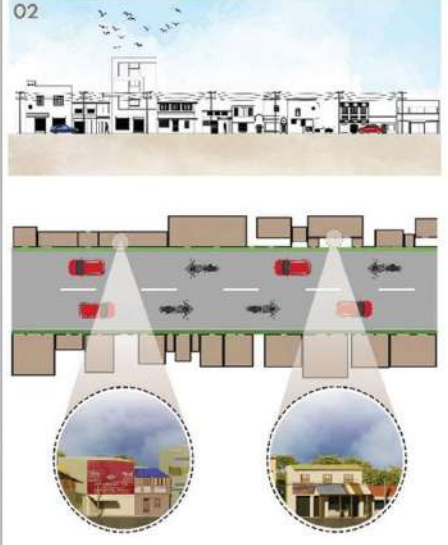


## ONE WAY ROAD :



Court Road in Thanjavur is an important area, frequently experiencing traffic controls and certain roads near the Palace, Big Temple, or the courts may temporarily be regulated as one-way during peak hours or events.

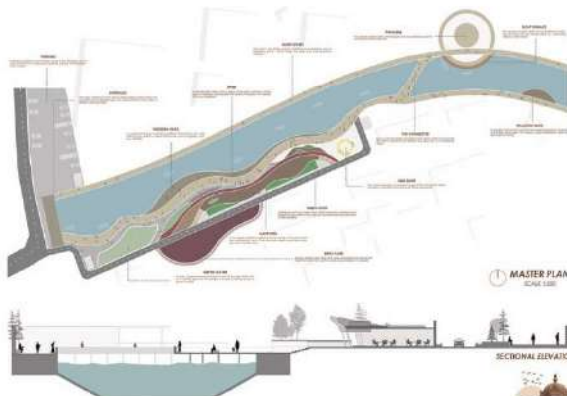
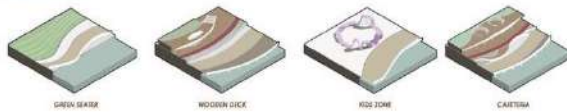
## TWO WAY ROAD :



Two-way roads play a crucial role in connecting various residential, commercial, and institutional areas. Membalam Road facilitates access to the Brihadeswarar Temple and nearby shops, linking Thanjavur with national highways.

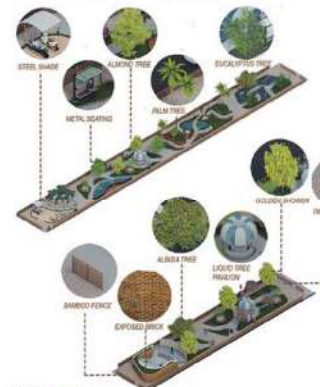


## AXONOMETRIC VIEWS



## RESHAPING OPEN SPACES

### ELEMENTS, MATERIALS, VEGETATION AND LIGHTING



### SITE PLAN



### ELEMENTS

#### 1. METAL SEATING

##### CONCEPT

A more structure in folded form which is convenient to place in heat corners and a very small space in the urban area.

Dimension: 1500mm x 1500mm in front position and 1500mm x 2000mm in perspective design.

Reflectable seats and shading makes it more sustainable and opens seating area in urban design. When folded becomes more small and convenient for other activities.

Seating pad: 1500mm x 600mm perforated sheet  
Seating: 600mm x 300mm solar panel  
Material: 100% recycled plastic

#### 2. PAVES

When you step on the life you designed weight is converted into rotational kinetic energy which is stored and creates a positive GPF that generates 100 watts of electricity.

However, the advantage of pavements is that it is 10 to 50 times more efficient than trees.

#### 3. LIQUID TREE PAVILION

An innovative tool for reducing greenhouse gas emissions and improving air quality in the built area.

It contains six hundred litres of water and water by using solar energy in 1000 watt solar panels and produce pure oxygen through photosynthesis.

However, the advantage of pavements is that it is 10 to 50 times more efficient than trees.

#### 4. SOLAR BINS

Waste compacting plant into bins a built-in press with which they can compact the waste 5 to 8 times. All the top the solar components have a solar panel and work completely independently on solar energy.

Cost Reduction  
Less frequent emptying thanks to the built-in press, saving time and money.  
Recyclable  
Every material used is 100% recyclable.



## RURAL STUDY

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## STUDY INFERENCE

### CASE STUDY : KHANDERAO MARKET

KHANDERAO MARKET IS AN EXAMPLE OF A PLANNED MARKET THAT FUNCTIONS AS A ONE-STOP SOLUTION FOR MANY SHOPPERS. OPERATES A WHOLESALE AND RETAIL MARKET



EXTENDING OUT THE SHADING ELEMENT TO SHADE THE DISPLAY OF PRODUCTS AND SHADE TO THE PEOPLE.



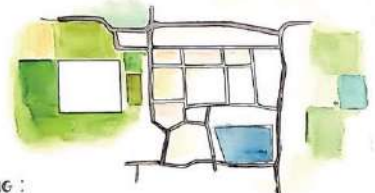
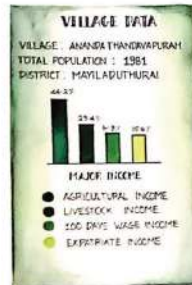
SETTING UP PERIODIC MARKET: ORGANISING THE PRODUCTS/ COMMODITIES FOR DISPLAY



HERE, THE TREE ACT AS A EXISTING SHADING ELEMENT AND UMBRELLA.

## SCOPE

- INCREASED PROFITABILITY : FARMERS CAN SELL THEIR PRODUCTS DIRECTLY TO CUSTOMERS, ELIMINATING INTERMEDIARIES & INCREASING PROFIT MARGINS.
- BETTER PRICE CONTROL : FARMERS CAN GET COMPETITIVE PRICES.
- REDUCED POST-HARVEST LOSSES : BY SELLING PRODUCE DIRECTLY IN RURAL MARKET, FARMERS CAN MINIMIZE LOSSES DUE TO TRANSPORTATION, STORAGE, AND HANDLING.
- EMPLOYMENT AND SELF-SUFFICIENCY : FARMERS GAIN CONTROL OVER THEIR PRODUCE, LIVELIHOOD, PROMOTING SELF-SUFFICIENCY, ECONOMIC INDEPENDENCE.

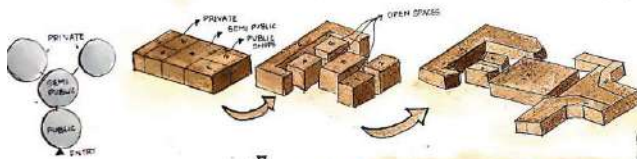
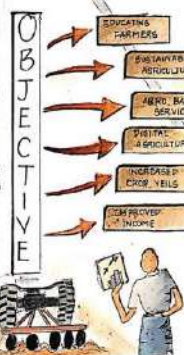


## ZONING :



## SOLUTIONS

A CENTRE WITH THE FEATURES OF AGRICULTURE AND TECHNOLOGY THE CENTRE IS BUILT ON A PLOT OF LAND AND CONSISTS OF FACILITY THAT HELP WITH SOIL TEST, IRRIGATION SYSTEMS, SELLING ORGANIC MANURE AND FERTILIZERS WITH AREA TO EDUCATE FARMERS ABOUT ADVANCE METHODS OF TOOLS, MACHINES, SOCIAL KNOWLEDGE AND NEW IDEAS.



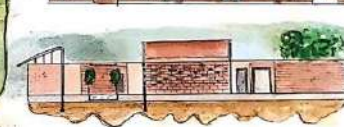
## FORM DEVELOPMENT



## ELEVATION



## SECTION





## WORKSHOPS AND GUEST LECTURES



BRICK BONDING WORKSHOP



KALAMKARI ART



TRADITIONAL ART WORKSHOP



CSEB WORKSHOP  
EARTH INSTITUTE - AUROVILLE



SUSTAINABLE DESIGN WORKSHOP



PHOTOGRAMMETRY WORKSHOP





OUTDOOR SKETCHING



BAMBOO WORKSHOP



MODEL MAKING WORKSHOP



Mixed use Design –Guest lecture by Mr.Lokesh Janakiraman



Urban Design Guest Lecture by AR. Muthaiah.K.T (SPA –DELHI)



Architecture Heritage Preservation –Guest lecture by Ar.Gayathri Sampath

GUEST LECTURES



## LIFE AT SOA: BEYOND ACADEMICS



RURAL STUDY VISIT II YEAR (2023 – 2028)  
(ANANTHATHANDAVAPURAM –  
MAYILADUTHURAI)



MARINA MALL – CHENNAI  
DESIGNED BY AR.CHERALATHAN ASSOCIATES



IIM CAMPUS, BANGALORE – AR.B.V.DOSHI



Women's signature award show,  
Iconic Entertainers, SOUVMIYA. V.R, FIRST  
PRIZE.



URBAN DESIGN – V YEAR (2020 – 2025)  
THANJAVUR



NIRMANIKA '24- Building design contest,  
Dept. of civil, SMVEC- FIRST PRIZE



## ALUMNI CONNECT



### ALUMNI'S IN INTERNATIONAL AND NATIONAL UNIVERSITIES FOR MASTER DEGREE



**MR.VIGNESH (2017- 2022)**  
**UNIVERSITY OF LIVERPOOL**  
**– UK**



**MS.DIVYA. (2017- 2022)**  
**Thomas Jefferson**  
**University – US**



**MS.YAZHINI.M (2018- 2023)**  
**SPA VIJAYAWADA**



**MS.DEEPIKA.N (2019- 2024)**  
**SAP, ANNA UNIVERSITY –**  
**CHENNAI**

### ALUMNI WORKING IN RENOWNED ARCHITECTURAL FIRMS – NATIONAL / INTERNATIONAL



**MS.ANUSHAW.M (2019- 2024)**  
**SASW ARCHITECTURE –**  
**BANGLORE**  
**SALARY – 4,00,000 per Annum**



**MR.KISHORE.P (2018- 2023)**  
**DREAM SQUARE INTERIOR**  
**DECORATION LLC - DUBAI**  
**SALARY – 12,00,000 per Annum**

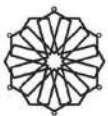
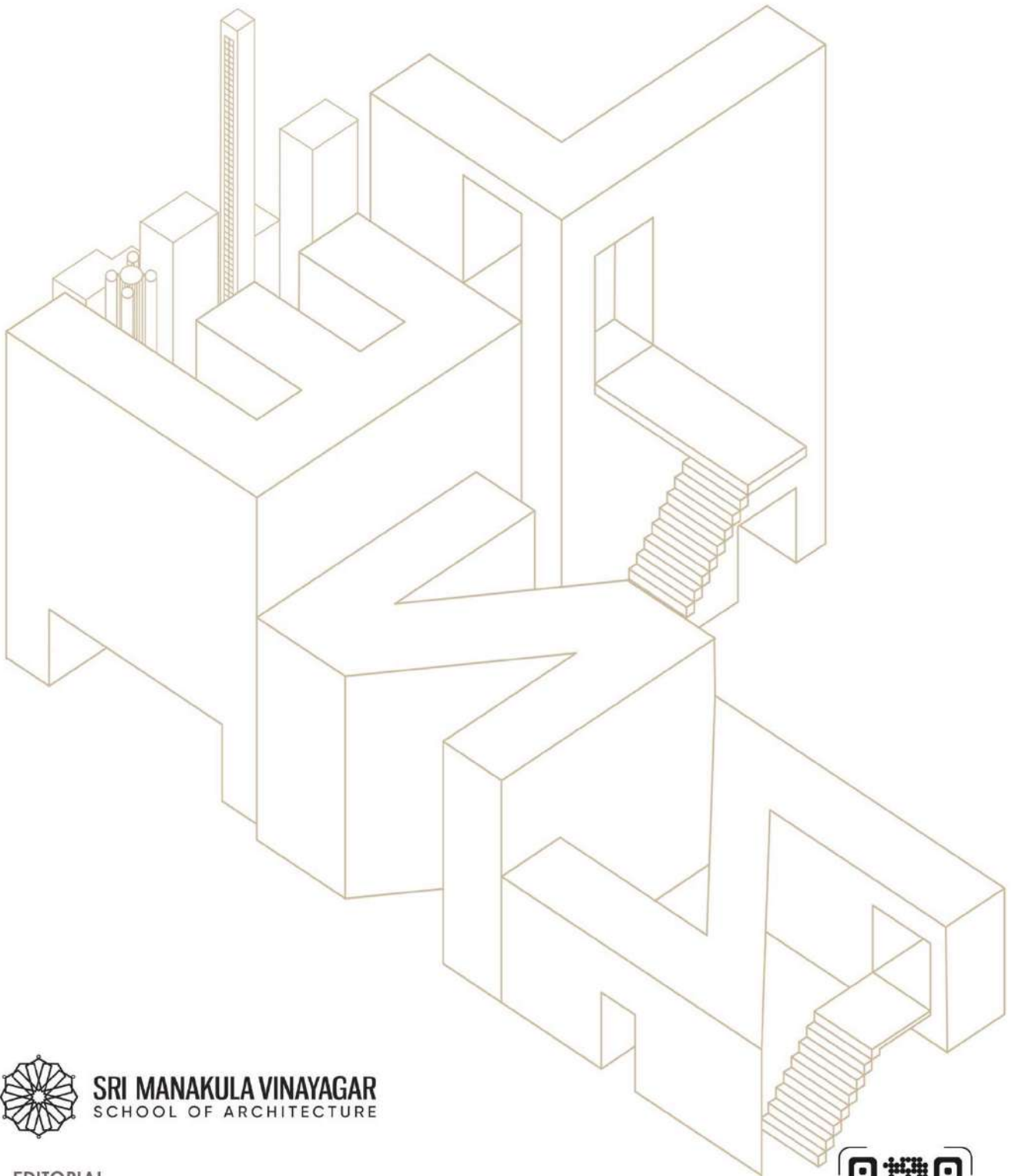


**MR.MAHESH.D (2018- 2023)**  
**NIKKEN SEKKEI - DUBAI**  
**SALARY – 30,00,000 per Annum**



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**EDITORIAL**

AR. T. MUGESH | AR. S. HARSHINI

