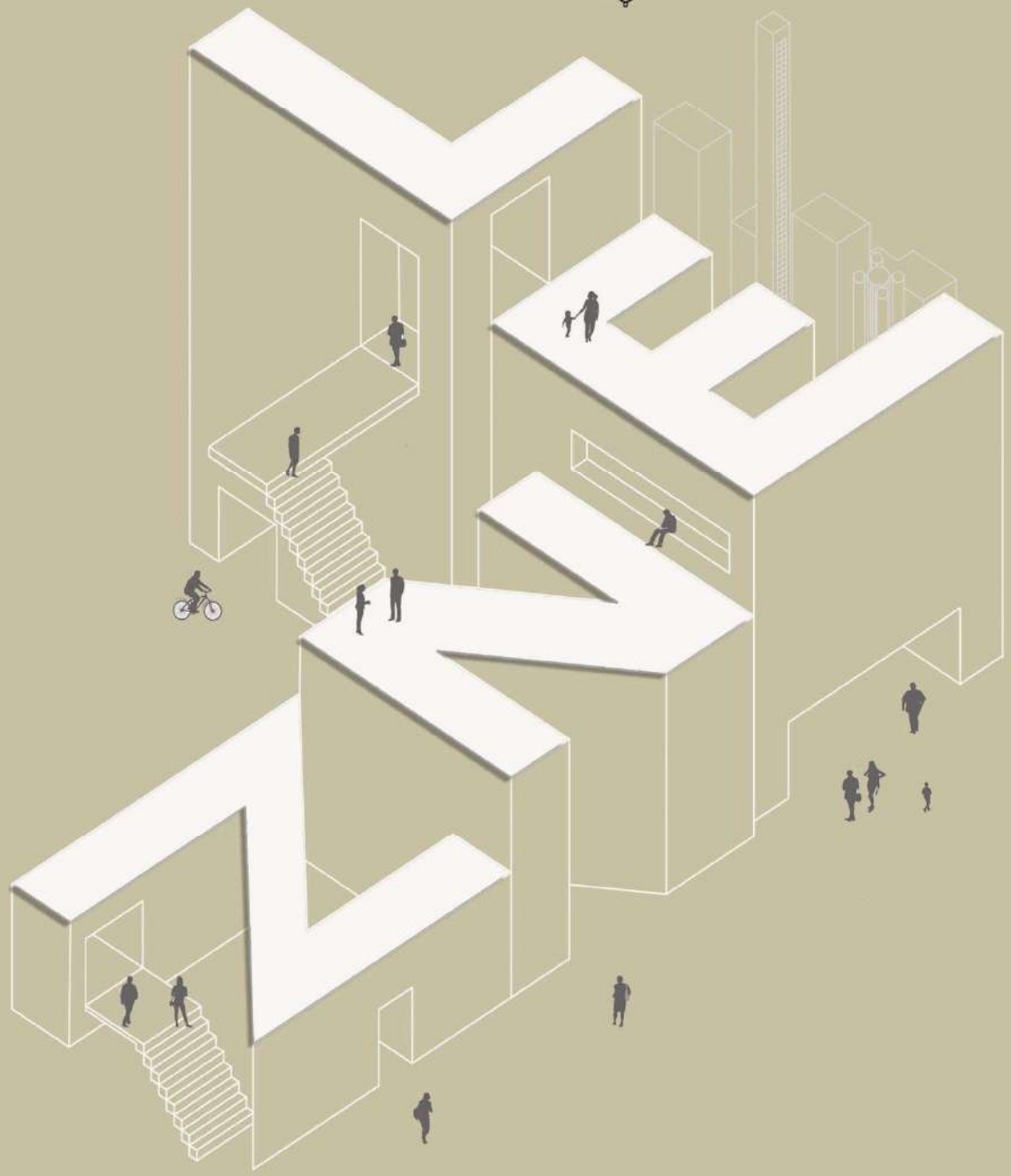
SRI MANAKULA VINAYAGAR
SCHOOL OF ARCHITECTURE



SMVSA LENZ

THANJAVUR CITY

STUDIO ACTIVITIES 01

URBAN DESIGN

The Students from Semester IX visited "Thanjavur" a heritage Urban Town from Tamil Nadu, The Students were accompanied with Faculty Ar.R.Ragavendira (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

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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
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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.

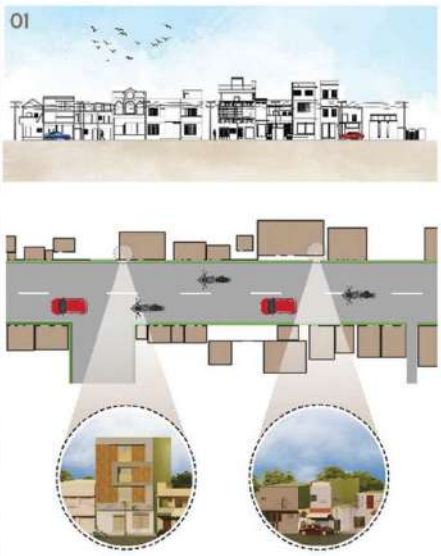
maps, charts, diagrams, and models
- Propose conceptual or strategic design solutions based on the study insights.

ROAD NETWORK :

Mapping Reoresenc One way And Two way Roads

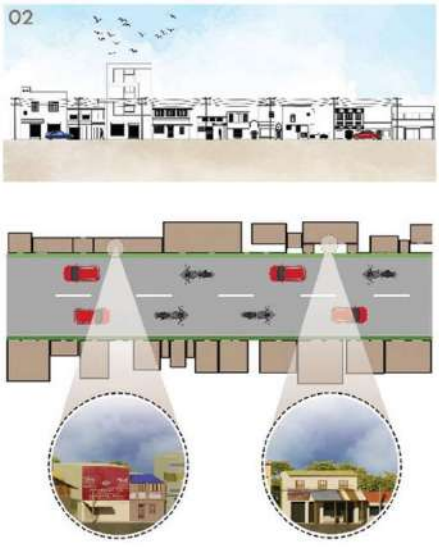
03 . JUNCTION CONNECTING ONE WAY AND TWO WAY :

ONE WAY ROAD :



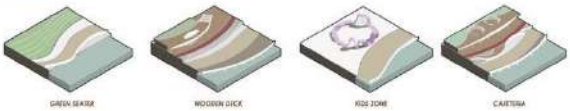
Court Road in Thanjavur is an important area, frequently experiencing traffic controls and certain roads near the Palace, Big Temple, or the courts may temporarily be regulated as one-way during peak hours or events.

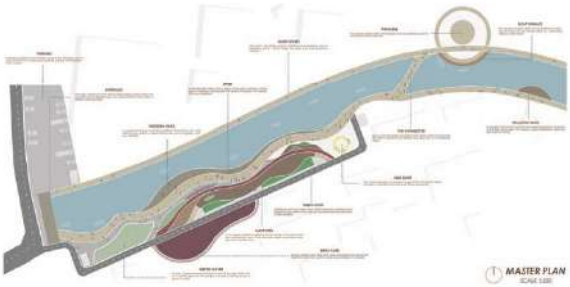
TWO WAY ROAD :



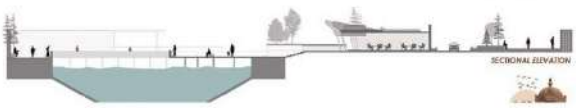
Two-way roads play a crucial role in connecting various residential, commercial, and institutional areas. Membalam Road: Facilitates access to the Brihadeeswarar Temple and nearby shops,linking Thanjavur with national highways.

AXNOMETRIC VIEWS





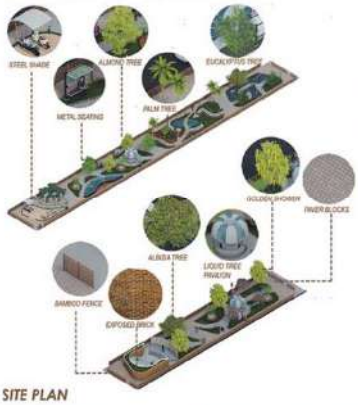
MASTER PLAN
SCALE 1:500



SECTIONAL ELEVATION

RESHAPING OPEN SPACES

ELEMENTS,MATERIALS,VEGETATION AND LIGHTING



ELEMENTS

1. METAL SEATING

CONCEPT

A mono structure is folded here which is convenient to place in food corners and a very small places in the Urban areas.
- Dimension 150mm x 1500 mm in fixed posture and 1500mm x 2000mm in transportation stage.
- Retractable seats and roofing makes it more sustainable and space saving medium in urban design when folded becomes more small and convenient for other activities.

seating palette - 1500mm x 600 mm perforated sheet
roofing - 600mm x 300mm solar pannel
electronics - IC and battery packs
metal and upvc frame

2.PAVEGEN

When you step on the tile your downward weight is converted into rotational kinetic energy which is stored and creates a positive EMF that generates 100 volts AC of useable power. This power can be used for street lighting, mobile charging benches.

3.LIQUID TREE PAVILION

An innovative tool for reducing greenhouse gas emissions and improving air quality, the liquid tree.

It contains six hundred litres of water and works by using microalgae to absorb carbon dioxide and produce pure oxygen through photosynthesis. However, the advantage of microalgae is that it is 10 to 30 times more efficient than trees.

4. SOLAR BINS

waste compacting smart bins have a built-in press with which they can compact the waste 5 to 8 times. At the top the solar compactors 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

SITE PLAN

SECTIONAL VIEW

ANANDHATHANDAVAPURAM

STUDIO ACTIVITIES

02

RURAL STUDY

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

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vs.

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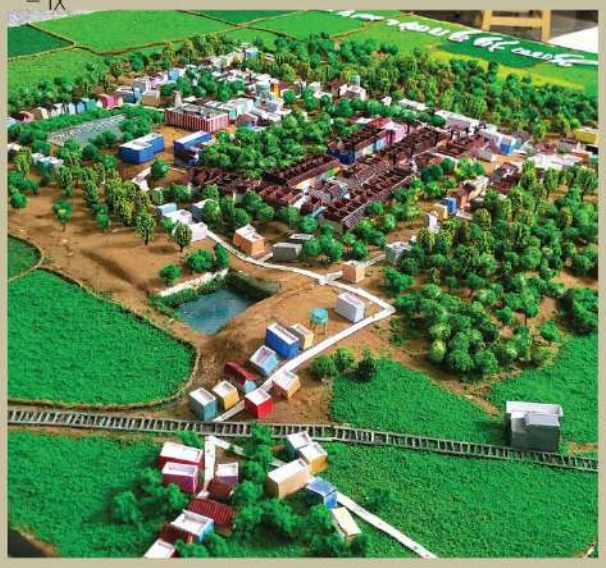

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STUDY INFERENCE

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.

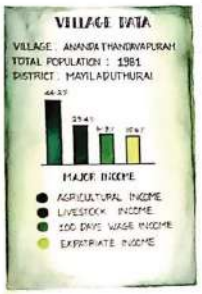
EXTENDING OUT THE SHADING ELEMENT TO SHADE THE DISPLAY OF PRODUCTS AND SHADE TO THE PEOPLE.

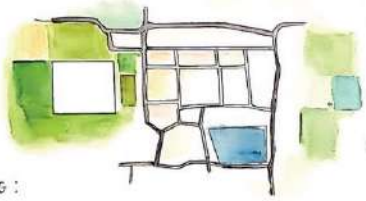
SETTING UP/ PERIODIC MARKET ORGANISING THE PRODUCTS/ COMMODITIES FOR DISPLAY

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

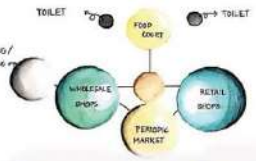
SCOPE

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



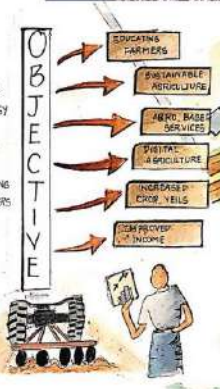


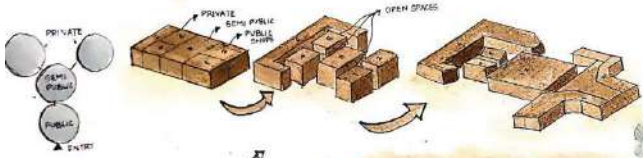
ZONING :



SOLUTIONS

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





WORKSHOPS AND GUEST LECTURES

BRICK BONDING WORKSHOP

KALAMKARI ART

TRADITIONAL ART WORKSHOP

CSEB WORKSHOP
EARTH INSTITUTE - AUROVILLE

SUSTAINABLE DESIGN WORKSHOP

PHOTOGRAMMETRY WORKSHOP

GUEST LECTURES

OUTDOOR SKETCHING

BAMBOO WORKSHOP

MODEL MAKING WORKSHOP

Mixed use Design –Guest lecture by Mr.Lokesh Janakiraman

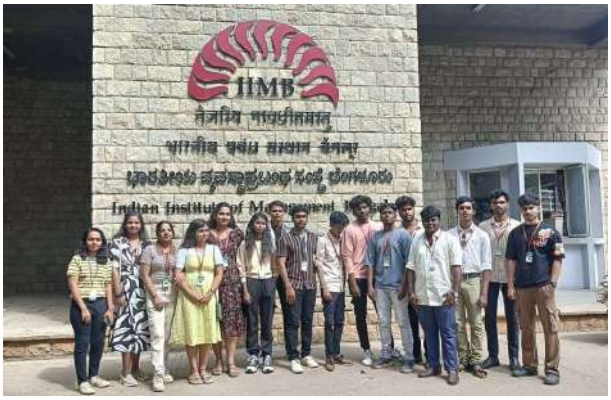
Urban Design Guest Lecture by AR. Muthaiah.K.T (SPA –DELHI)

Architecture Heritage Preservation –Guest lecture by Ar.Gayathri Sampath

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

SMVSA LENZ

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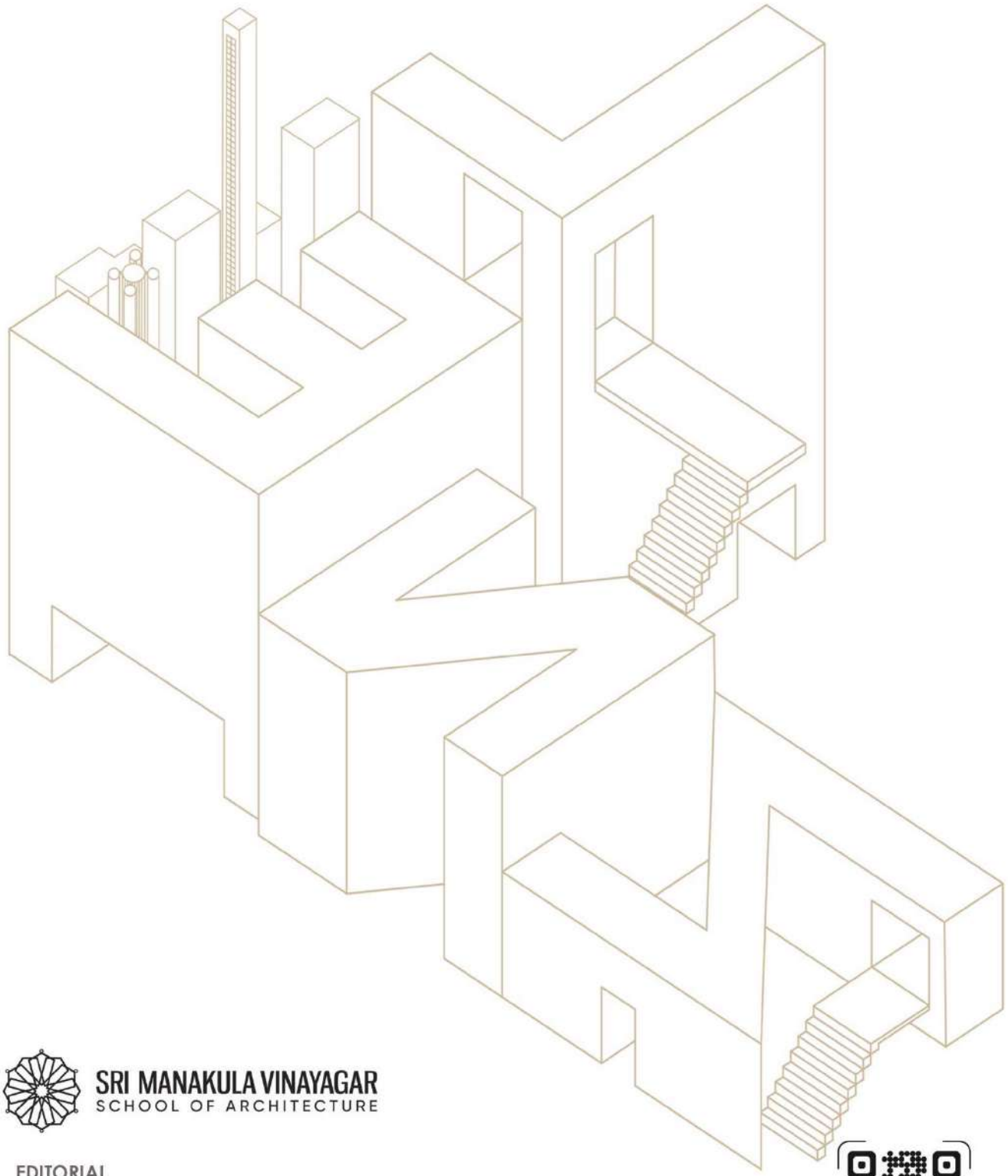

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EDITORIAL

AR. T. MUGESH I AR. S. HARSHINI