



ACHARYA'S NRV SCHOOL OF ARCHITECTURE
SOLADEVANAHALLI, BENGALURU -560107

THE URBAN SHELL
ARCHITECTURE DESIGN PROJECT (THESIS) – 2024-25

Submitted in partial fulfillment of the Requirements for the
“Bachelor of Architecture” Degree Course

Submitted by	: B. VIDHVAT
USN	: 1AA20AT008
Guide	: Ar. KUSUMANJALI SURESH

A project report submitted to
VISVESHWARAYA TECHNOLOGICAL UNIVERSITY
“Jnana Sangama”, Machhe, Belgaum – 590018

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ - ೫೯೦೦೧೮



CERTIFICATE

This is to certify that this thesis report titled “THE URBAN SHELL” by BEZAWADA VIDHVAT of X SEMESTER B. Arch, USN No. 1AA20AT008, has been submitted in partial fulfillment of the requirements for the award of under graduate degree **Bachelor of Architecture (B.Arch)** by Visveshwaraya Technological University VTU, Belgaum during the year 2024- 25.

Guide: Ar. Kusumanjali Suresh

Principal: Prof. Sanjyot Shah

Examined by :

1)Internal Examiner :

2)External examiner 1 :

3)External examiner 2 :



Acharya's NRV School of Architecture, Bangalore

Certificate of Plagiarism Check for Thesis

Author Name	Mr. Vidhvat bezawada
Course of Study	B. Arch.
Name of Guide	Ar. Kusumanjali S.
Department	Architetcure
Acceptable Maximum Limit	>30%
Submitted By	parasappavajjaramatti@acharya.ac.in
Paper Title	THE URBAN SHELL
Similarity	6%
Paper ID	2557581
Total Pages	48
Submission Date	2024-11-21 14:05:19

Signature of Student

Signature of Guide

Librarian

Principal

* This report has been generated by DrillBit Anti-Plagiarism Software

DECLARATION

This thesis title “THE URBAN SHELL ”, submitted in partial fulfillment of the requirement for the award of the under graduate of Bachelor of architecture is my original work to the best of my knowledge.

The sources for the various information and the data used have been duly acknowledged.

The work has not been submitted or provided to any other institution/ organization for any diploma/degree or any other purpose.

I take full responsibility for the content in this report and in the event of any conflict or dispute if any, hereby indemnify Acharya’s NRV School of Architecture and Visveshwaraya Technological University, Belagavi, and its official representatives against any damages that any raise thereof.

BEZAWADA VIDHVAT

1AA20AT008

ACKNOWLEDGEMENT

I would like to express my genuine appreciation to all those the one supported me the possibility to complete this project. First and foremost, I am thankful to my guide Ar. Kusumanjali Suresh for the support, and perceptive advice during the whole of the course of this project. The knowledge and state of being an informal teacher have happened assisting in forming the management of my work and reinforcing allure quality.

My recognition offers to my associates and companions, whose help and helpful response helped me polish my plans and stay stimulated.

Thank you all for your gifts to the accomplishment concerning this project.

BEZAWADA VIDHVAT

1AA20AT008

INDEX

1. ABSTRACT.....	<u>1</u>
2. INTRODUCTION.....	<u>2</u>
2.1 PROJECT INTRODUCTION.....	<u>2</u>
2.2 NEED OF STUDY.....	<u>3</u>
2.3 AIM.....	<u>5</u>
2.4 OBJECTIVE.....	<u>6</u>
2.5 SCOPE OF THE PROJECT.....	<u>7</u>
2.6 LIMITATIONS.....	<u>9</u>
2.7 THESIS PROPOSITION.....	<u>10</u>
2.8 FEASABILITY METHADODOLOGY.....	<u>11</u>
2.9 RESEARCH METHADODOLOGY.....	<u>13</u>
3. CASE STUDY.....	<u>15</u>
3.1 CASE STUDY:1 MARINA ONE,SINGAPORE.....	<u>15</u>
3.2 CASE STUDY:2 THE INTERLACE SINGAPORE.....	<u>16</u>
3.3 CASE STUDY:3 VERTICAL CITY.....	<u>19</u>
4. PHYSICAL CASE STUDIES.....	<u>22</u>
4.1 Kanchanjunga Apartments Case Study:Residential Flexibilit..	<u>22</u>
4.2 Kohinoor Square Case Study: Residential Flexibility.....	<u>25</u>
5. COMPARATIVE ANALYSIS.....	<u>29</u>

6. SITE ANALYSIS.....	30
6.1 DESIGN PROGRAM.....	31
6.2 LAND USE DATA & ACTIVITIES PERMISSIBLE REQUIRED DATA.....	32
6.3 INFRASTRUCTURE PLANNING DATA.....	33
6.4 ACTIVITIES PERMISSIBLE IN OPEN AREA'S.....	34
6.5 POPULATION DENSITY.....	34
7. CONCEPT AND DESIGN APPROACH.....	35
8. DESIGN.....	36
8.1 SITE PLAN.....	36
8.2 MASTER PLAN.....	37
8.3 PLANS (RESIDENTIAL).....	38
8.4 PLANS (CBD).....	39
9. VIEWS.....	40
10. REFERENCES.....	41

ABSTRACT

Cities are dynamic ecosystems undergoing constant change due to rapid urbanization and changing interactions between their districts. This growth reconfigures urban linkages and opens avenues for growth while worsening problems such as lack of infrastructure facilities, foul living conditions, and insufficient basic services, considering the projections of a 60% increase in urban populations by 2050. To tackle these problems requires holistic sustainable planning approaches that focus on integrated communities, efficient transport, and strong public services.

The Urban Shell concept embodies transformation in the mode of urban design, given that cities are considered living things with neighborhoods as independent, modular units. These units represent a core substructure, which provides basic services and encourages community involvement with the promotion of ecological balance. Improving livability, reducing environmental impact, and favoring sustainable lifestyles in urban settings are facilitated through focusing strategies on transit-oriented and transect-based approaches in this Urban Shell concept. According to case studies, it has the capacity to mold future cities that are resilient, inclusive, and equipped to adapt to urban densification.