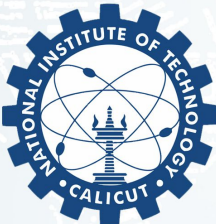


PLACEMENT BROCHURE

2022-2024

Master of Planning (Urban Planning)
Department of Architecture & Planning

National Institute of Technology Calicut,
Kozhikode, Kerala, India.



तमसो मा ज्योतिर्गमय

CONTENTS

1. ABOUT THE INSTITUTION

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3. FACULTY PROFILE

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5. CURRICULUM AND WORKS

6. WHY HIRE US?



DEPARTMENTS SCHOOLS CENTRES

10

03

15+

10

UNDER GRADUATE COURSES

32

POST GRADUATE COURSES

27+

INTERNATIONAL MoUs

7000+

UG, PG, & Ph.D

35000+

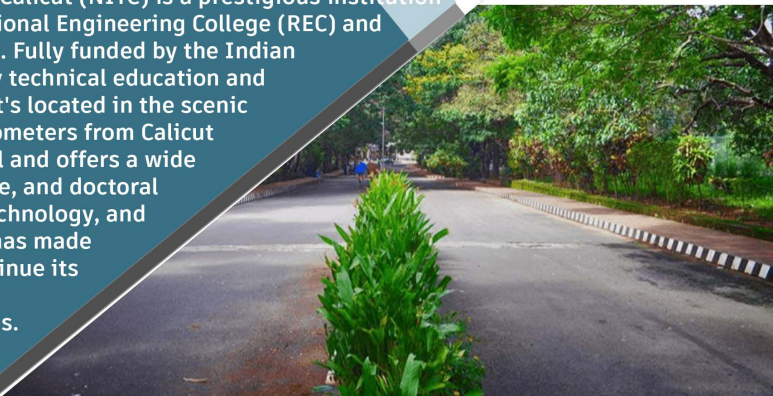
DISTINGUISHED ALUMNI

तमसा मा ज्योतिर्गमय

INSTITUTION PROFILE

NIT CALICUT

The National Institute of Technology Calicut (NITC) is a prestigious institution in India, established in 1961 as a Regional Engineering College (REC) and later transformed into an NIT in 2002. Fully funded by the Indian government, NITC offers high-quality technical education and conducts research in various fields. It's located in the scenic Western Ghats foothills, about 22 kilometers from Calicut city in Kerala. NITC is fully residential and offers a wide range of undergraduate, postgraduate, and doctoral programs in Engineering, Science, Technology, and Management. Despite challenges, it has made significant progress and aims to continue its journey toward excellence through collaborations with global institutions. NITC acknowledges the support of various stakeholders in its pursuit of excellence.



RANKING

02ND

Architecture and Planning

08TH

Innovation

23RD

Engineering

54TH

OVERALL

Existing International Collaborations

City University, New York, USA
Florida State University, USA
Georgia Institute of Technology, USA
Illinois Institute of Technology, USA
Johns Hopkins University, USA
Leeds University, UK
Linköping University, Sweden
Lunghwa University, Taiwan
National University of Singapore
Nanyang Technological University, Singapore
Purdue University, USA
Rensselaer Polytechnic Institute, USA
Southeast University, Nanjing, China

City University, New York, USA
Florida State University, USA
Georgia Institute of Technology, USA
Illinois Institute of Technology, USA
Johns Hopkins University, USA
Leeds University, UK
Linköping University, Sweden
Lunghwa University, Taiwan
National University of Singapore
Nanyang Technological University, Singapore
Purdue University, USA
Rensselaer Polytechnic Institute, USA
Southeast University, Nanjing, China

PROFILE



Our department, Architecture and Planning, is dedicated to excellence in education. We offer a 5-year B.Arch. program and a 2-year M.Plan program in Urban Planning. Our focus is on research and the use of geo-informatics. We also have a diverse PhD program. In terms of rankings, we've consistently performed well, securing the **SECOND** position in the NIRF rankings for Architecture and Planning in 2023, 2022, and 2021, and the **THIRD** position in 2020 and 2019. In the Outlook Survey 2017, we were ranked **FIFTH** among the Best Schools of Architecture in India, maintaining a **TOP TEN** position since 2014, with rankings of **SIXTH** in 2016 and 2015.

DAP NITC

DESIGNATED AS A

1st Centre of Excellence in urban planning and design by the Ministry of Housing and Urban Affairs Government of India.

An endowment fund of Rs 250 Crores has been allocated

ABOUT US

MULTIDISCIPLINARY SET-UP

Planning at NIT Calicut

TLR

01

Teaching & Learning Resources Profile in NIRF 2023

RANKED

02

National Ranking (NIRF) 2023 Architecture Planning and Institutional Framework

CONSISTENCY

03

Consecutive Years 2021-22-23

15+

Multidisciplinary Centres

19+

Planners/ Designers With Diverse Portfolios

COLLABORATIONS FROM SOUTH INDIA

ALSO

All India Rank 2 by the NIRF 2022, 2021

All India Rank 3 by the NIRF 2020, 2019

Best Schools of Architecture rank by the OUTLOOK Survey : 5-2017

Best Schools of Architecture rank by the OUTLOOK Survey : 6-2016

Best Schools of Architecture rank by the OUTLOOK Survey : 6-2015

Key contributor in making Kozhikode a City of Literate under UNESCO

Department of Architecture & Planning



Research & Consultancy (Glimpse of our practice and contributions)



FACULTY PROFILE

Message from Placement co-ordinator and HOD



I am extremely happy that the Master of Planning (urban Planning) students are showcasing their academic credentials through this placement brochure. The M. plan program at NIT Calicut can definitely be rated as one of India's best post graduate programme in Planning, with the students trained in social, ecological, Economic, environmental and spatial domains of planning. Our programme is connected with a strong analytical and research content deeply rooted to the real-life problems of Cities and settlements. Contemporary topics of relevance are addressed through studio problems, case studies, dissertations and thesis. The department, through its several national and international collaborations and MoU also closely work with different organizations. I am sure, any recruiter from NIT Calicut will be definitely satisfied with the training we give from our department. I wish them the very best.

Faculty Members



**Dr. MOHAMMED
FIROZ C**
Associate
Professor and
Head



Dr. KASTURBA.A.K
Professor



Dr.P.PANILKUMAR
Professor



Dr. NASEER M A
Professor



Dr. CHITHRA
Associate
Professor



**Dr. SHYNI
ANILKUMAR**
Assistant
Professor



Dr. BIMAL P
Assistant
Professor



**Dr. ANJANA
BHAGYANATHAN**
Assistant
Professor



**Dr. DEEPTHI
BENDI**
Assistant
Professor



Dr. AMRITHA P.K
Assistant
Professor



**Ar. RITESH
RANJAN**
Assistant
Professor



**Dr. SANIL
KUMAR**
Assistant
Professor



**Dr. SUSANTA
BANERJEE**
Assistant
Professor



Dr. JAYASREE T K
Assistant
Professor



Dr. KIRUTHIGA K
Assistant
Professor



Ar. SAMIKSHA S
Assistant
Professor



**Ar. KIRITI
SAHOO**
Assistant
Professor



Dr. MANOJ A
Assistant
Professor



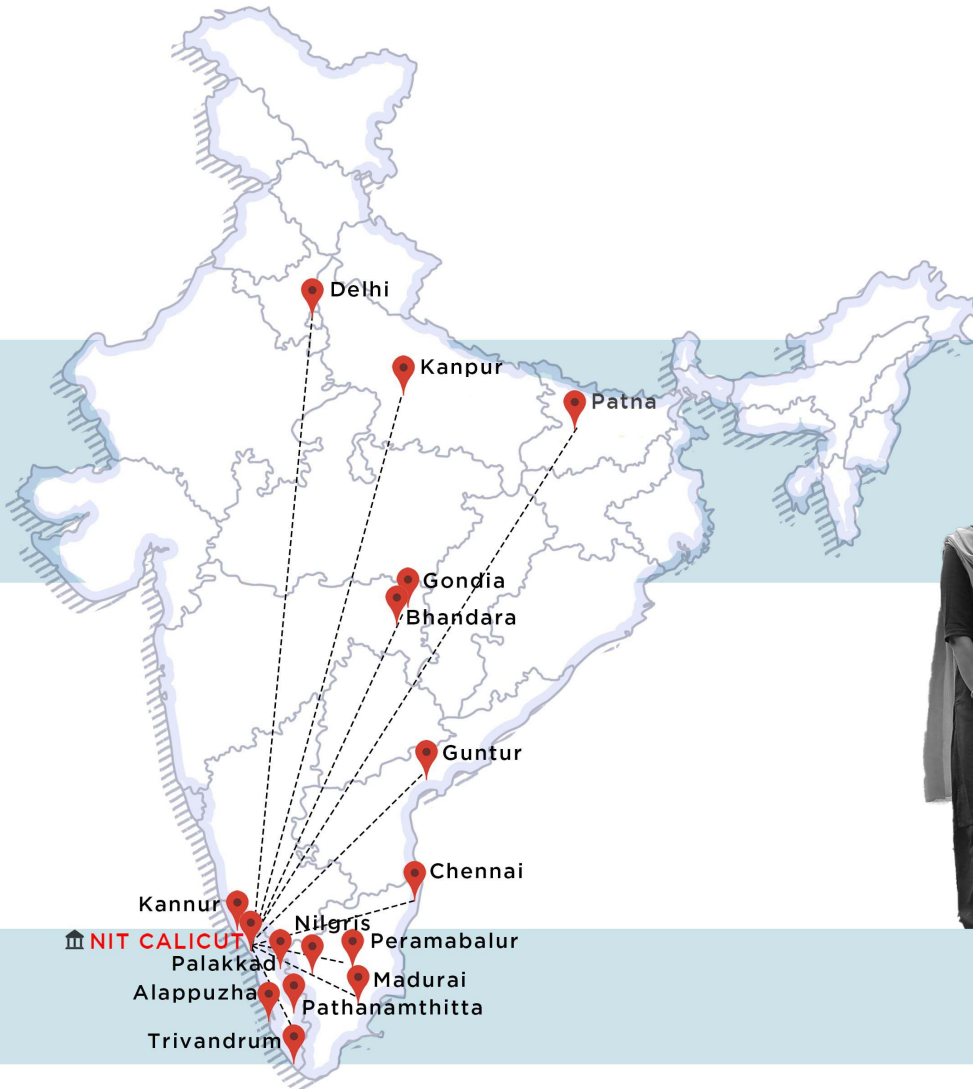
**Ar. ABHISHEK
KUMAR**
Assistant
Professor



**Ar. KULADEEP
KUMAR SADEVI**
Assistant
Professor

STUDENTS PROFILE

We, a dynamic cohort of 23 visionary minds hailing from various corners of India, encompassing 19 skilled architects, 2 accomplished planners, and 3 proficient civil engineers. United in the pursuit of excellence, we lead the way in shaping transformative solutions through our Master's in Urban Planning.





ABHINAV JAINWAL

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APOORVA CHANDRA

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INTERNSHIP : Colliers - Bangalore



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INTERNSHIP : APUIML - Vishakapatnam



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INTERNSHIP : Mayor's SDG Fellowship- Kochi



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INTERNSHIP : IIHS - Bangalore



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KRITIKA MUKESH BHOJWANI

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INTERNSHIP : URCON Studio - Pune



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INTERNSHIP : IPE Global - Jodhpur



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INTERNSHIP : Mayor's SDG Fellowship - Kollam



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📍 Kannur, Kerala
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INTERNSHIP : DULT - Bangalore



PRIYA SINHA

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INTERNSHIP : CBRE - Bangalore



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INTERNSHIP : CMDA - Chennai

Our Syllabus

On successful completion of this syllabus, we would:

1. Be competent to adapt to any challenging situations in planning in the country.
2. Be able to understand planning issues holistically and would be able to analyze the outcome of economic, social, environment and energy impacts.
3. Have strong academic foundation in order to excel in planning and related careers nationally and internationally.
4. Be able to use geo-informatics and other analytical tools for solving complex situations in planning.
5. Have problem solving skills to address realistic exercises in planning inculcated through planning studios and laboratory training.
6. Be competent to face challenges of professional life on account of the professional internship training imparted in the program.
7. Have teaching and training skills developed through regular teaching assistantship.
8. Be able to effectively communicate, visually, verbally and through technical writing.
9. Have confidence for self-education and ability for life-long learning.

Semester I

1. Planning Studio I:

Historic Mapping, Calicut

Objective: To understand and analyze the historical evolution of Calicut.

Project Details: The project focused on comprehensive historic mapping to gain insights into the development of Calicut.

Area Development Plan, Calicut

Objective: To analyze the area based on the Ease Of Living benchmarking system and convert it into a model ward.

Project Details: Utilized the Ease Of Living benchmarking system to analyze the area, with the goal of transforming it into a model ward.

2. Planning Principles and Techniques

3. Demography and Quantitative Methods

4. Housing

5. GIS and Spatial Analysis

6. Remote Sensing Application in Urban Planning

Semester II

1. Planning Studio II:

Masterplan for Kavaratti, Agatti, and Minicoy Islands, Lakshadweep

Objective: To prepare a masterplan for the islands, focusing on comprehensive field studies.

Project Details: Undertook in-depth field studies on Kavaratti, Agatti, and Minicoy Islands, with a focus on factors such as carrying capacity, supply and demand dynamics, and ecological and environmental landscape.

2. Environmental Planning

3. Transportation Planning

4. Urban Infrastructure

Planning

5. Seminar

ELECTIVES:

1. Planning for Sustainable Development

2. Advanced GIS for Urban Analysis

3. Human Settlement and Climate Change

4. Urban Renewal and Conservation

Semester III

1. Planning Studio III:

Environment Management Plan for Thrissur

Objective: To develop an environment management plan for Thrissur.

Project Details: Conducted research & analysis to formulate an environment management plan for Thrissur

Family-Friendly City Development for Thrissur

Objective: To develop Thrissur as a family-friendly city.

Project Details: Aimed at creating a comprehensive plan to develop Thrissur with a focus on family-friendly aspects.

2. Regional & Metropolitan Planning

3. Project Finance & Planning

4. Dissertation & Thesis Programming

ELECTIVES:

1. Heritage Management and Tourism

2. Green City Planning for Sustainability

6. Planning for Smart Cities

Semester IV

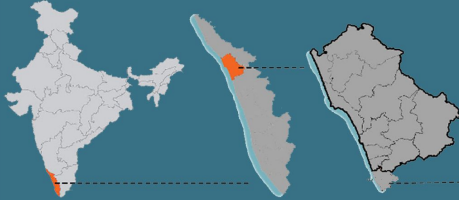
1. Planning Thesis

2. Planning Legislation and Professional Practice

3. Term Paper

SEMESTER

01



Semester 01 project aimed at understanding how the city has evolved through different circumstances including colonisation to become the city as of now. The major project focused on developing a local area development plan of different cities at ward level taking ease of living index in to consideration.

EASE OF LIVING INDEX

The Ease of living index is an assessment tool used by the Ministry of Housing & Urban Affairs to evaluate the quality of life and the impact of various initiatives for urban development in the city. It provides a comprehensive understanding of participating cities across India, based on various parameters like

- the quality Of life,
- the economic ability of a city, and
- its sustainability and resilience.

EOL FRAME WORK



EASE OF LIVING

BEYPORE

VISION: "To facilitate a convenient living habitat with access to good quality physical ,social infrastructure and economic opportunities by considering the historical value of the city."

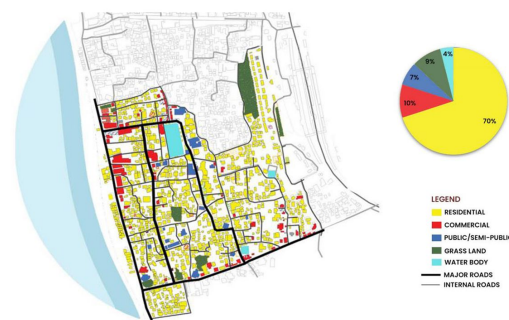
MISSION: 1.STRENGTHENING PHYSICAL INFRASTRUCTURE.
2.STRENGTHENING TOURISM INFRASTRUCTURE



KUTTICHIRA

VISION: "An economically vibrant and self sufficient Kuttichira settlement where citizens can enjoy high standard of living achieved through socially economically and environmentally sustainable measure.."

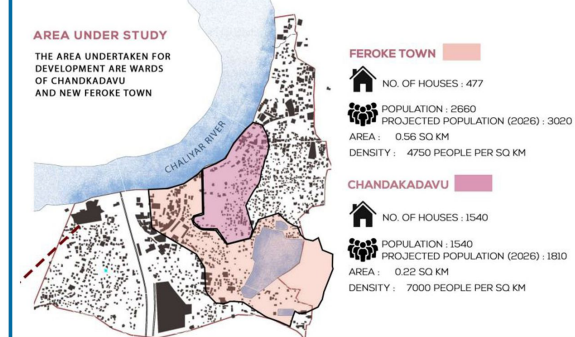
MISSION: 1.SELF-SUFFICIENT BY CREATING EMPLOYMENT OPPORTUNITIES.
2.BOOSTING THE ECONOMY THROUGH TOURISM DEVELOPMENT.
3.PROTECTING PRESERVING AND CELEBRATING THE HERITAGE.
4.IMPROVE THE MOBILITY OF THE AREA.
5.PRESERVING THE FACE OF KUTTICHIRA THROUGH URBAN DESIGN.



FEROKE

VISION: "Compact development of feroke town and chandakadavu wards , creating a safer, secure and Sustainable environment. the two wards will serve as model for entire city to develop, without affecting the quality of life."

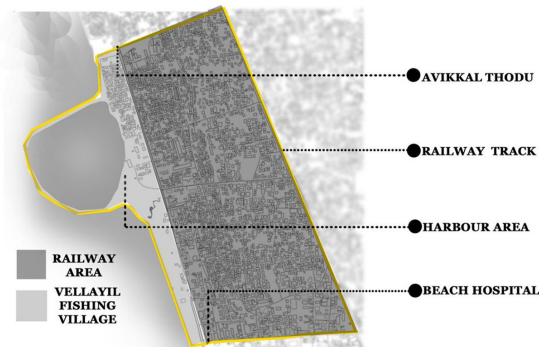
MISSION: 1. ESTABLISHING ZONING REGULATIONS
2. PROMOTING COMPACT DEVELOPMENT
3. IMPROVED RECREATION FACILITIES
4. COMPLETE STREETS



VELLAYIL

VISION: "The vision is to create a competitive and prosperous ward by 2030" by enabling local development by area harnessing technology, especially technology that leads to Smart"

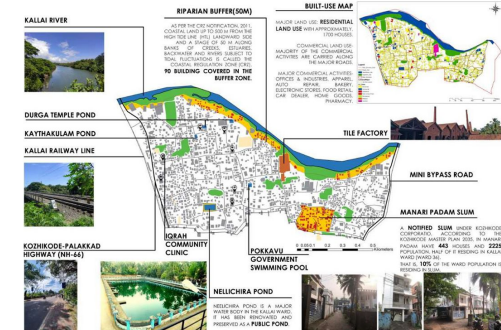
MISSION: 1.REJUVENATION OF THODU, PUBLIC SPACES
2.HOUSING 3. EDUCATION 4. ECONOMIC DEVELOPMENT
5.PUBLIC AMENITIES AND SERVICES



KALLAI

VISION: "To make Kallai vibrant and clean through inclusive Sustainable and integrated development and efficient service delivery."

MISSION: 1. TO CREATE BASIC INFRASTRUCTURE TO IMPROVE QUALITY OF LIFE SUCH AS HOUSING ,TRANSPORTATION,RECREATIONAL AREAS
2. INVESTMENTS IN HOUSING BY PROMOTING STRONG PARTERSHIPS AMONG PUBLIC,PRIVATE,SELF-HELP GROUPS & GOVERNMENT INSTITUTIONS
3. INTEGRATES HOUSING DEVELOPMENT



WEST HILL

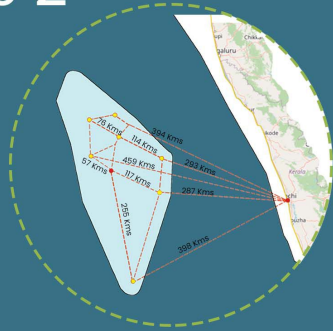
VISION: "To develop social equity of precinct with other dimensions of sustainability factors including environmental quality and economic prosperity, which makes the area viable, livable and equitable for all."

MISSION: 1. ENVIRONMENTAL QUALITY
2. ECONOMIC PROSPERITY
3. SOCIAL EQUITY



SEMESTER

02



Lakshadweep Islands
Area: 32sq.km
Population: 64,429

The semester project aimed to prepare masterplan for Kavaratti, Agatti and Minicoy Islands of Lakshadweep. The team undertook in depth field studies on three islands which involved comprehensive data collection with focus on carrying capacity, supply and demand dynamics, ecological and environmental landscape.

A comprehensive data analysis was carried out for infrastructure, biodiversity, economy and ecology considering the history and unique culture of each island.

The team formulated ecologically responsible and environmentally viable masterplans prioritizing sustainable development, environmental preservation and responsible tourism practices.



Agatti

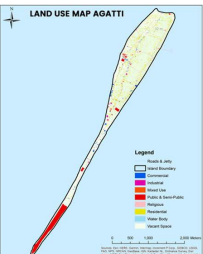
ISLAND DEVELOPMENT AS GATEWAY TO LAKSHADWEEP

Population 7566
Area 3.84 Sq.km
Lagoon Area 17.5 Sq.km

Tourist Accomodation
5-6 Private homestays
Total available beds -20

Kochi 459km

Economic Activities
Fisheries, Tourism
Coconut Plantation

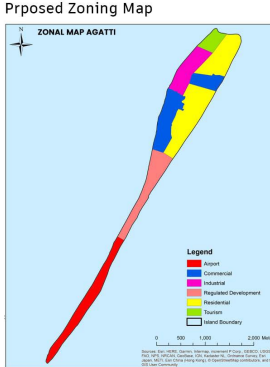
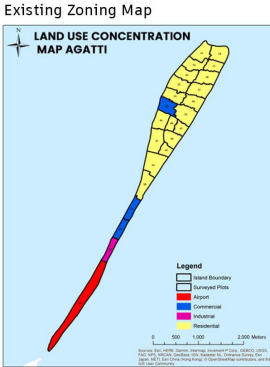


Vision

"Gateway to Lakshadweep and provide authentic experience to it's visitor's without hampering it's fragile ecosystem and provide for its sustenance of the local economically"

- ### Mission
1. Promoting tourism activities
 2. Reinforcing current socio-economic structure
 3. Preserving Island's Fragile ecosystem

- ### Methodology for Zoning
- Baseline Assessment
 - Analysis of Existing Land Use
 - Delineation of zones
 - Formulation of DCRs
 - Implementation
- ### Key Considerations
1. Ecological fragility of thr island
 2. Existing built use of the island
 3. Land use concentration of the island
 4. Population rise and demand
 5. Vision for tourism and economic development of the island.



Kavaratti

GLOBALLY CONNECTED SELF-SUFFICIENT ISLAND DEVELOPMENT

Population 11221
Area 4.22 Sq.km

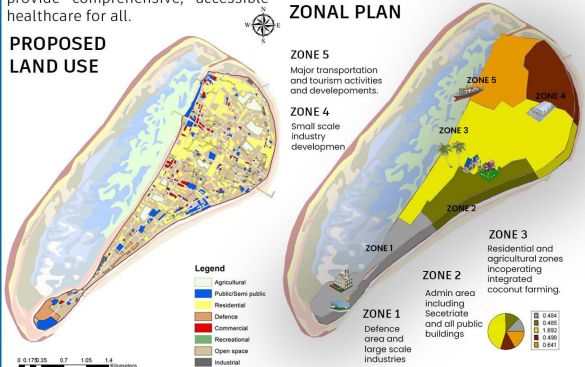
Economic Activities
Fisheries, Tourism
Coconut Plantation

Vision

A self sufficient,sustainable, resilient, and globally connected administrative capital of Lakshadweep to preserve tranquility and enhance the liveability of island

Mission

Ensure equitable access to clean water, sanitation, and waste management, establish robust connectivity, nurture skilled workforce through quality education, provide comprehensive, accessible healthcare for all.



Minicoy

SUSTAINABLE ECO-TOURISM ISLAND DEVELOPEMNT

Population 10447
Area 4.8 Sq.km

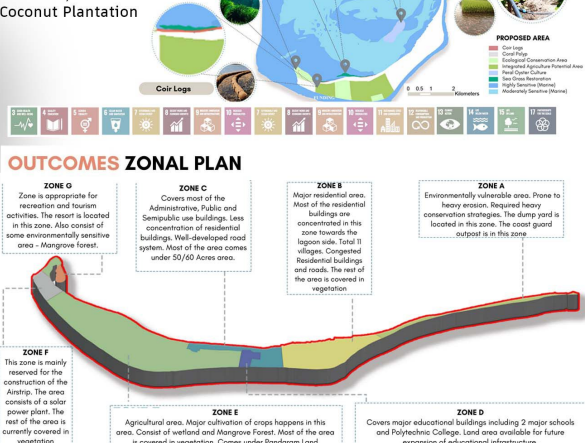
Economic Activities
Fisheries, Tourism
Coconut Plantation

Vision

A Globally Recognized, Resilient, and Sustainable Minicoy which upholds its unique history and culture while fostering economic development and Quality of Life.

Mission

Mission is to create a comprehensive and integrated plan that balances economic, social, cultural and environmental considerations that reflects the aspirations and needs of Minicoy Island.



SEMESTER

03

Thirissur city
Area: 101.4 sq.km
Population: 3,121,200

Semester 03 project aimed at developing two plans for Thirissur. One aimed at producing an environment management plan, one aimed at developing thirissur as family friendly city. The class was divided into two teams of 12 members.

The environment management plan team worked on the following domains :

1. Disaster management and resilience
2. carbon neutrality
3. Urban sprwl and Land use management.

The family friendly city planning team worked on the following domains :

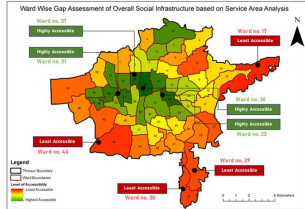
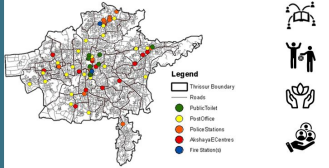
1. Social infrastructure
2. Economy and social inclusion
3. Transit and mobility



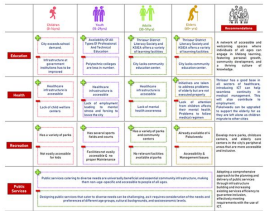
FAMILY FRIENDLY CITY PLANNING

SOCIAL INFRASTRUCTURE

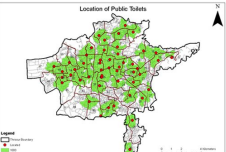
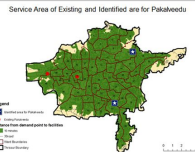
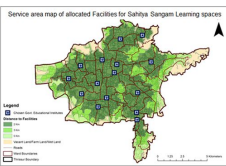
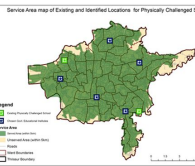
“To appraise the present provision of social infrastructure i.e. Education, Healthcare, Recreational, and Public services Facilities, and formulate project proposals to foster Thirissur as a Family-Friendly City.”



- ENHANCED ACCESSIBILITY FOR COMMUNITY LEARNING
- IMPROVED RECREATIONAL FACILITIES
- INTERCONNECTED HEALTHCARE INFRASTRUCTURE AND WELLNESS
- IMPROVED PUBLIC FACILITIES



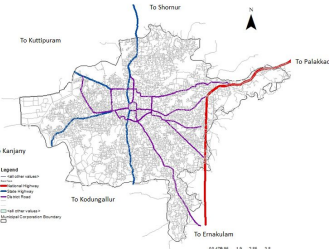
Thirissur's peripheral wards face significant gaps in social infrastructure access, with the highest concentration in the city center and declining gradually outwards. Recreation and Public Services are particularly underserved in many peripheral areas. **Prioritize investments in infrastructure development in the peripheral wards for equitable service provision of infrastructure.**



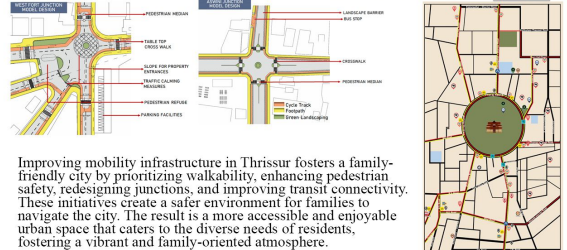
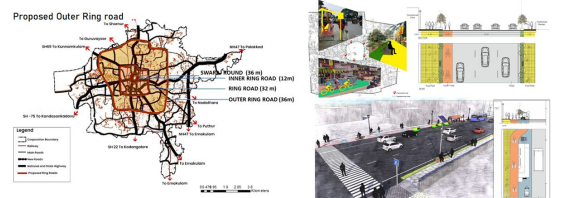
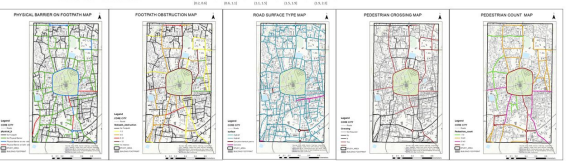
The analysis revealed that existing facilities are primarily concentrated in the city center, leaving peripheral areas underserved and lacking access to essential amenities. To address this disparity and promote a more vibrant and inclusive social environment, the project proposed innovative solutions. These included strategic space utilization for multi-purpose facilities, resulting in the creation of new and improved amenities that cater to diverse needs and age groups. This will ensure equitable access to essential services and amenities for all residents, regardless of their location within the city.

MOBILITY INFRASTRUCTURE

“Developing safe, inclusive, and accessible mobility that is walkable and disable-friendly to foster family friendliness in Thirissur.”



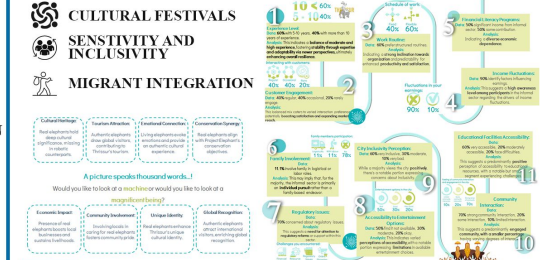
- ENHANCING PEDESTRIAN SAFETY
- IMPROVING AGE FRIENDLY INFRASTRUCTURE
- IMPROVING LAST MILE CONNECTIVITY
- IMPROVING PEDESTRIAN NETWORKS
- IMPROVING ROAD SAFETY
- BETTER INTERSECTION SAFETY



Improving mobility infrastructure in Thirissur fosters a family-friendly city by prioritizing walkability, enhancing pedestrian safety, redesigning junctions, and improving transit connectivity. These initiatives create a safer environment for families to navigate the city. The result is a more accessible and enjoyable urban space that caters to the diverse needs of residents, fostering a vibrant and family-oriented atmosphere.

ECONOMY & SOCIAL INCLUSION

“To transform Thirissur into a socially inclusive and economically thriving environment that promotes equal participation, enhances livelihoods, and uplifts the quality of life for all residents, with a particular focus on empowering vulnerable groups”



GAP: Thirissur being a Cultural Capital has its 3 iconic institutions (Lalithakala Academy, Sahitya Academy and Sangeetha Nataka Academy) yet not fully utilized by students and people of Thirissur. **Cultural Experiences Hub:** Develop a hub that offers immersive cultural experiences, workshops, and performances. This includes traditional art classes, dance workshops, and music events. Collaborate with local artists and performers to showcase the richness of Thirissur cultural heritage.



GAP: Thirissur being a Cultural Capital has its 3 iconic institutions (Lalithakala Academy, Sahitya Academy and Sangeetha Nataka Academy) yet not fully utilized by students and people of Thirissur. **Performing Arts:** Actors, performers, venues, festivals, education. **Library Arts:** Writers, poets, publishers, bookstores, library events. **Music:** Musicians, venues, festivals, education. **Visual Arts & Design:** Artists and crafts, photography, jewelry, fiber arts, craft distributors. **Community Engagement:** Creativity, cultural support organizations, maker space, community art programs.



The organization of cultural-economic festivals for family friendliness in Thirissur is important. Strategies such as formalization and licensing support migrants, while initiatives like artifact resale and safety plans empower the informal sector. Inclusivity policies for vulnerable groups and cultural events contribute to a secure and culturally vibrant community, positioning Thirissur as a dynamic and welcoming city.



SEMESTER 03

Thirssur city
Area: 101.4 sq.km
Population: 3,121,200

Semester 03 project aimed at developing two plans for Thirssur. One aimed at producing an environment management plan, one aimed at developing thirssur as family friendly city. The class was divided into two teams of 12 members.

The environment management plan team worked on the following domains :

1. Disaster management and resilience
2. carbon neutrality
3. Urban sprwl and Land use management.

The family friendly city planning team worked on the following domains :

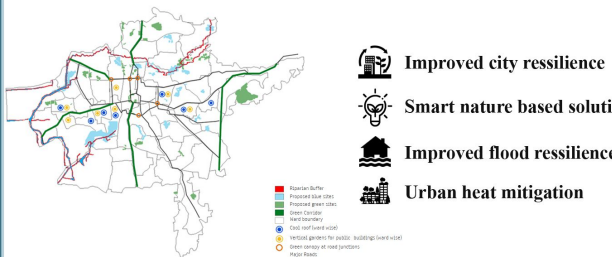
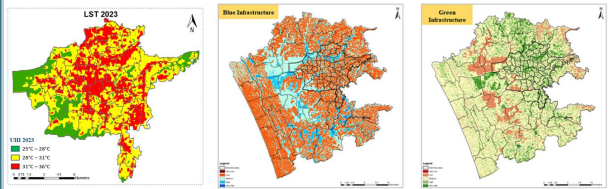
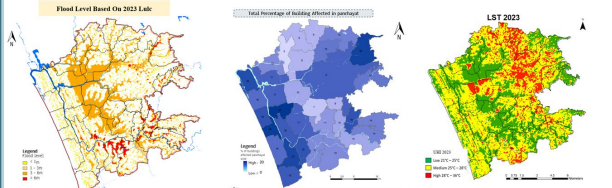
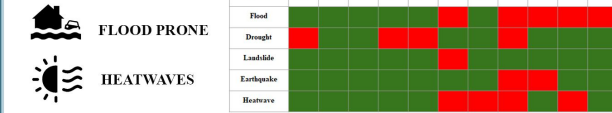
1. Social infrastructure
2. Economy and social inclusion
3. Transit and mobility



ENVIRONMENTAL MANAGEMENT PLAN

Disaster management and resilience

“To enhance city resilience against flooding and urban heat island effect through the integration of appropriate strategies and blue-green infrastructure.”



Proposed	PHASE 1	PHASE 2	PHASE 3	Proposed	PHASE 1	PHASE 2	PHASE 3
Coastal Policy	Control of all building of the coast (1984/10/11, 2017/04/04/01)	Control the residential building of the coast (2014/12/22, 2017/06/07/01, 2018/07/16)	Control of all building of the coast (1984/10/11, 2017/04/04/01)	Urban Forest	All the urban forest, the soil from the urban forest, land use, and the preservation of trees with dimensions. Plant the soil with the natural forest species for plantation and soil conservation.	Over the land to reach based on the soil and vegetation status and the preservation of trees with dimensions.	Over the land to reach based on the soil and vegetation status and the preservation of trees with dimensions.
Vertical Garden	All the public building in the work (11/20/16/01/01, 11/20/16/01/01)	All the public building in the work (11/20/16/01/01, 11/20/16/01/01)	All the public building in the work (11/20/16/01/01, 11/20/16/01/01)	Vegetated Streets	Vertical Vegetation 65	Sign Urban Road	Multi-lane Suburban Road
Planting Trees	1. Publicity, Flood, Road, and road (12/23/16, 12/23/16) 2. Street, Urban, Flood, and road (12/23/16, 12/23/16) 3. Road, Urban, Flood, and road (12/23/16, 12/23/16)	1. Suburban, Flood, Road, and road (12/23/16, 12/23/16) 2. Street, Urban, Flood, and road (12/23/16, 12/23/16) 3. Road, Urban, Flood, and road (12/23/16, 12/23/16)	1. Suburban, Flood, Road, and road (12/23/16, 12/23/16) 2. Street, Urban, Flood, and road (12/23/16, 12/23/16) 3. Road, Urban, Flood, and road (12/23/16, 12/23/16)	Sign Urban Road	Vertical Vegetation 65	Sign Urban Road	Multi-lane Suburban Road
Temperature points	1. Temperature of existing building in the work (12/23/16, 12/23/16) 2. Temperature of existing building in the work (12/23/16, 12/23/16)	1. Temperature of existing building in the work (12/23/16, 12/23/16) 2. Temperature of existing building in the work (12/23/16, 12/23/16)	1. Temperature of existing building in the work (12/23/16, 12/23/16) 2. Temperature of existing building in the work (12/23/16, 12/23/16)	Propaganda Perimeters	Vertical Vegetation 65	Sign Urban Road	Multi-lane Suburban Road

The project's outcome is a more resilient and climate-adaptive Thirssur, equipped with targeted strategies for flood management, sustainable urban development, and temperature control. It serves as a model for integrating environmental considerations into urban planning, ensuring the well-being of the community and the longevity of the city's infrastructure. By identifying flood-prone areas, vulnerable buildings, and temperature trends, the project suggests interventions.

Urban sprawl and land use management

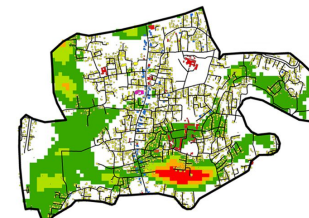
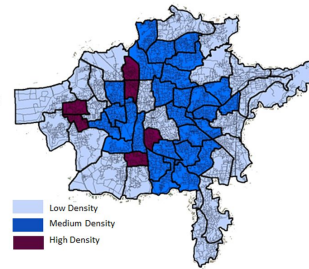
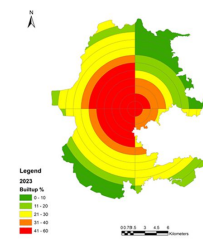
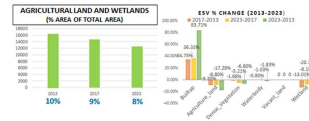
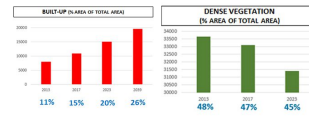
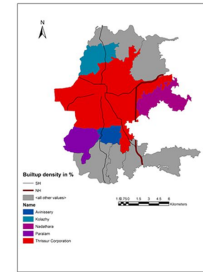
“To formulate a robust framework incorporating multiple strategies and techniques that promote sustainable development while prioritizing ecological preservation.”

NO METROPOLITAN DEVELOPMENT AUTHORITY

INCREASING URBAN SPRAWL AT FRINGES

ECOSYSTEM SERVICES NOT PRIORITIZED OR VALUED

NO SMART GROWTH MEASURES IN PLACE



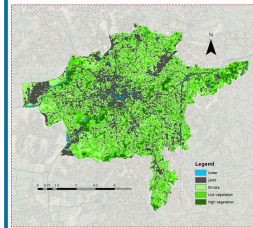
Densification should be promoted in Low Density areas within corporation boundary.
Densification should be promoted in Medium Density areas within corporation boundary.
transforming the spaces below and over the existing buildings (downward and upward extensions) (Creating additional FSI for such commercial and mixed use developments for extensions of the existing)
Upward Extension

Spatio-temporal analysis utilising Transition Potential Models to assess growth trends and anticipate land use changes until 2039 reveals the project's holistic approach. With foresight, Thirssur may make good development decisions. Assessment of land use change impacts on ecosystem services boosts project success.

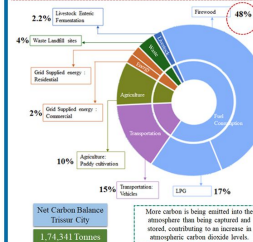
Systematic Thirssur urban sprawl prevention is essential. By targeting sprawl-affected areas, urban planning and interventions can encourage compact, sustainable growth.

Carbon neutrality

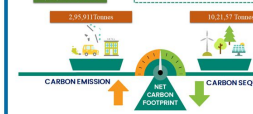
“Making Thrissur a carbon-neutral city by 2040 to reduce city's carbon footprint, and to make it an environmental friendly city.”



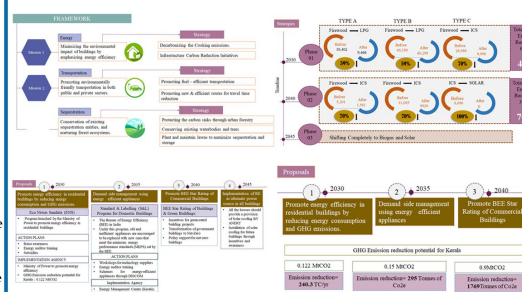
EMISSION SOURCES IN THIRSSUR
ENERGY - 2,05,421 TON CARBON EMISSION
WASTE - 1,07,50,03 TON CARBON EMISSION
AGRICULTURE - 2,78,729 TON CARBON EMISSION
LIVESTOCK - 1,90,697 TON CARBON EMISSION
TRANSPORT - 2,01,424 TON CARBON EMISSION



1,02,571 tCO₂e/year sequestered annually in the Thirssur municipal corporation area.
TOTAL CARBON SEQUESTRATION FROM ALL SOURCES
Total Carbon Sequestered in Urban: 41,179.5 tCO₂e/year (40%)
Total Tree Sequestration: 43.8 tCO₂e/year (~1%)
Total Soil Sequestration: 41,136 tCO₂e/year (99%)
TOTAL SEQUESTRATION: 1,02,571 tCO₂e/year



41.6 tCO₂e/year sequestered in the Thirssur municipal corporation area.
WATER BODY SEQUESTRATION
Type: Area in ha | Carbon Sequestration rate | Total Annual Sequestration (tCO₂e/year)
Reservoir/Water Pond: 0.15 | 1.5 | 0.22
Agricultural Impoundments: 1.9 | 21.2 | 41.2
Fresh water ponds: 0.15 | 1.5 | 0.22
TOTAL WATERBODY SEQUESTRATION: 41.6



The Study demonstrated the potential for urban centers in Kerala to achieve net-zero emissions. The project identified energy consumption, particularly firewood use, as a significant contributor requiring targeted interventions. Context specific strategies and proposals aimed at emissions reduction from both energy and transportation sectors. Formulation of comprehensive strategies to reduce the emission and enhance carbon sequestration, aiming to achieve carbon negativity by 2040 was verified and is found to achieve the objectives. The study methodology and results provide a valuable roadmap for replicating and adapting these strategies in other urban environments of cities across Kerala.



ABHINAV JAINWAL

Micro-level Carbon Crediting: for Sustainable Growth



ANUSREE V B

Enhancing Age-Friendly Urban Communities through Spatial Planning: A Sustainability Approach for Kozhikode City



ARSHIYA A C

Assessing the potential to achieve carbon neutrality for university campus by analyzing GHG emissions and carbon sequestration



ANJALI KRISHNAN

Assessing the economic impact of labour migrants on Surat City



APOORVA CHANDRA

Developing a benchmarking system for Inland Island settlements for resilient and sustainable development



ATHULYA B RAJ

Assessing Impact of coastal tourism on Human environment and ecosystem



AYSHA SHAHANA P N

Impact of Urbanization on the Heritage settlement: a case of Kuttichira



ASWIN M

Climate change adaptive planning for coastal towns



BANAVATHU JAYA PRAKASH NAIK

Spatial Analysis of Heat Vulnerability in Visakhapatnam Metropolitan Region: Identifying and Prioritizing Heat-Affected Areas for Mitigation



ASNA ANCHALAN

Spatial equity in urban green spaces



AJAY A P

Flood response plan for the effective distribution of disaster relief resources to the Hotspots of demand



JANHVI GUPTA

Urban spatial planning for resilient and sustainable urban food systems in Indian cities : case of Kanpur City

2023
2024

SEM
03&04

DISSERTATION AND THESIS TOPICS



ADARSH A R

Impact of Port and Port City Development in an Economically Emerging Coastal Region. Case of Vizhinjam International Seaport



ANUSHREE KANNAN

Enabling a Greener Future: A Unified Urban Planning Approach for Attaining Carbon Neutrality and sustainable development in the Nilgiris Hill Station



MANISHA V K

Effect of climate change on liveability: case of Delhi



PRIYA SINHA

Urban sprawl and its environment and economic consequences: A sustainable approach to fostering urban prosperity



DINEESHA BABY

Strategic Water Conservation Initiatives for Sustainable Campus Water Management: An Optimal Approach to Preserve Water Resources at NITC



CATHERINE JENEFER

Unveiling Isolation: An In-Depth Analysis of Loneliness Within High-Rise Communities in Chennai



KRITIKA MUKESH BHOJWANI

Rejuvenating the Dehu-Alandi river corridor- enhancing urban development and pilgrimage experience in Pune



KRITHIK B

A Microclimate modelling approach to enhance the outdoor thermal effect. A case of Chennai



NIVYA K

Safe cities for the underprivileged: An inclusive urban planning approach



S.MIRUNAALINI

Metropolitan Children 's Wellbeing: The role of Urban Open and Green Space



SAKSHI KATEKHAYE

Integrating lake and river assets : A comprehensive strategic vision for resilience and Imageability of Nagpur city



तमसो मा ज्योतिर्गमय

SOFTWARE SKILLS



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- Best practices exposure in urban planning.
- Proficient in GIS, Remote Sensing, and advanced modeling.
- Focus on Smart Cities and contemporary issues.
- Strong analytical skills for holistic urban analysis.
- Sound knowledge of planning principles and legislation.
- Expertise in environmental and transportation planning.
- Integration of smart technologies in planning.

PAST RECRUITERS (INTERNSHIPS AND PLACEMENTS)



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