

**INFORMATION  
BROCHURE  
2022**



**DEPARTMENT OF ARCHITECTURE AND PLANNING  
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT**

## ABOUT THE DEPARTMENT

The Department of Architecture and Planning is committed to provide an academically strong platform for those aspirants who would make a good meatier and leave an enduring impression in the field of Architecture and Urban Planning.

The educational program in Architecture throughout the world shares a common view of the future of mankind and recognizes its unpredictability. This calls for an attitude for research, exploration and evaluation to authenticate the work of design. Great are the thoughts that moved the world, greater are the perpetrators of these thoughts. The Department of Architecture and Planning plans and strives to reach these goals by offering the Undergraduate (5 Year B.Arch.) Degree Program in Architecture.

The Post Graduate Degree (2 Year M. Plan) Program in Urban Planning aims to produce generalist planning professionals of international quality who can adapt to any challenging planning situation with superior capability to use geo-informatics which includes GIS, remote sensing, related models and quantitative methods in urban, regional and environmental planning.

## VISION

To provide architectural and planning education of international standard to equip students to meet the global challenges in the profession, higher learning and research.

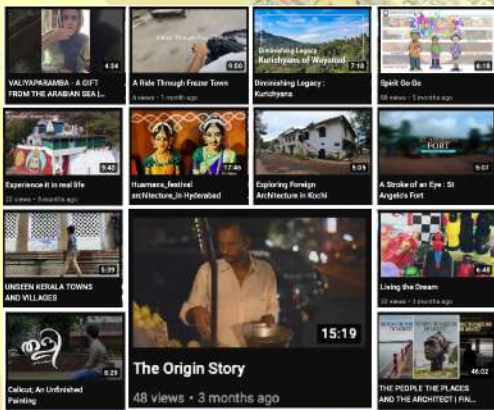
## MISSION

To offer state of the art education in architecture and planning to the students to equip them to be successful in their professional career to face new challenges and also to train them with theoretical knowledge in the allied fields of architecture and planning to further their learning and research to make them capable to contribute to the society at large.

## NIRF RANKING

2022 - 2nd  
2021 - 2nd  
2020 - 3rd  
2019 - 3rd





# UNDER GRADUATE PROGRAM B.ARCH

The profession of architecture, through time, has been an embodiment of lives - the social, political, economic and cultural perspectives. Comprehending built space and designing it, demands a multifaceted understanding of various disciplines. This understanding helps curate and create meaningful spaces that foster communities and thereby civilisations.

The B.Arch programme at NITC is curated keeping the essence of the profession and the needs of the industry and its growth in mind. The first trimester focuses on laying a strong foundation with courses on theories of art & design, history, structures, construction materials and graphics. The next three semesters focus on understanding the services, software and detailing with an exposure to specialisations like landscape and urban design. All the semesters also equip the students with designing multiple briefs in various scales through design studios. An external industry exposure is provided through a semester long internship. The final year focuses on giving a firm hand on understanding the larger scales of design through an urban design studio, research and management while guiding the students through a project of their own as thesis.



## POST GRADUATE PROGRAM

# M. PLAN

## (URBAN PLANNING)

Planning a city or an urban area is a challenging task and demands a multi-layered and structured understanding of the myriad factors that influence urban life; infrastructure, economy, employment, disaster preparedness and ecology are a few to name.

M.Plan programme at NITC exposes the students to national and international best-practices in urban planning and equips them with the varied talent and skillsets necessary for a brilliant career in Urban Planning.

We realise that Urban Planning as a discipline synthesizes inputs from a range of disciplines into an integrated plan of action for shaping the natural and built environment for enhanced quality of life for the residents in urban areas while retaining nature, as pristine and sustainable as possible. Our program offered since 2015 lays serious emphasis on these factors.

The program is designed to prepare the students to analyse the physical, social, cultural, economic and ecological dimensions of urban settlement with a sound knowledge of planning principles, related legislations, environmental and transportation planning regimes and smart technologies.

## PH.D PROGRAM

# DOCTOR OF PHILOSOPHY

A research-based approach, helps develop a better teaching-learning environment. A holistic perspective and the ability to identify cause-effect relationships is required to develop effective designs in architecture. To enhance these qualities, the Department of Architecture and Planning at NITC also offers a PhD program.

The major areas of research and consultancy of various departments/schools are as follows:

### URBAN AND REGIONAL PLANNING

- Transportation
- Infrastructure
- Housing
- Environmental Planning
- Planning Informatics
- Disaster Management & Climate Change
- Smart City Planning

### ARCHITECTURE

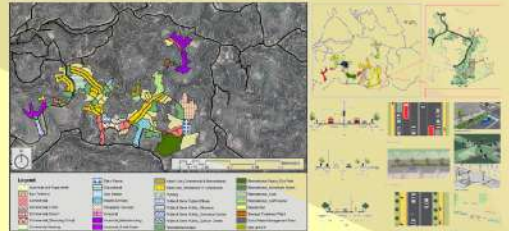
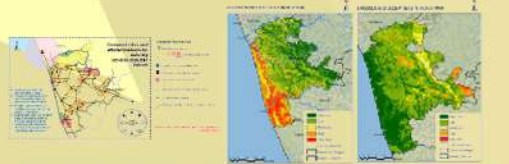
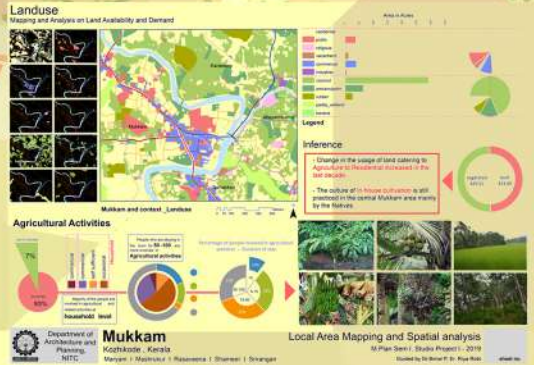
- Urban Design
- Landscape
- Conservation
- Architectural Theory
- Architectural Visualization & Product Design

### SUSTAINABLE BUILDING DESIGN

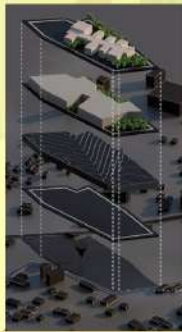
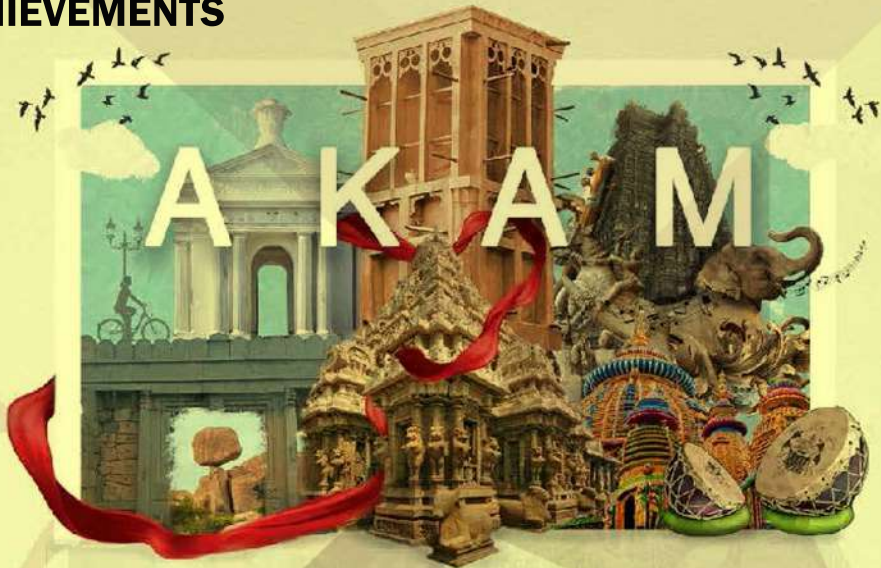
- Building Sciences
- Energy Modelling
- Building Information & Management

### BUILDING TECHNOLOGY & MANAGEMENT

- Alternate Building Materials
- Construction Management



# STUDENT WORKS AND ACHIEVEMENTS



## Thesis Competition

As part of a collaborative effort to encourage river-sensitive development in our cities, the National Mission for Clean Ganga (NMCG) and the National Institute for Urban Affairs (NIUA) organized a national thesis competition called 'Re-Imagining Urban Rivers, season -2'.

**Arunima KT**, a Master's in Urban Planning student from the Department of Architecture and Planning, NIT Calicut, was shortlisted for the competition. She is one of the 20 students chosen from a global pool of students pursuing master's or doctoral degrees in various fields, including urban planning.

Her thesis proposal, "Strategic spatial planning based on Ecosystem service (ES) assessment - A case of the Cauvery watershed region," is conceptualized on the recently rising academic interest; ecosystem approach in planning and the necessity to integrate it into

The thesis methodology focuses on measuring, modeling, and valuing ES of the Cauvery watershed region using computer-based tools that have been developed in recent years, watershed management.



## Design Competition - ZOOTOPIA-2021

ZOOTOPIA-2021, a national level open design competition for designing a zoo interpretation centre in India was conducted as part of the Atal Innovation Mission.

The initiative required student teams to design an Interpretation Centre at par with global standards, by reusing the existing heritage building at Sri Chamarajendra Zoological Gardens, Mysuru Karnataka.

A team from DAP, NITC, was selected for their design and received Honorable Mentions for their work. Their design was developed around the theme of 'A Tribute to the Western Ghats'. The team had representations from various batches of the department including **Rhawi Abdul Nazer**, **Nirmal Sanjen** (Sem 6), **Joel P Anil**, **M M Musthafa** (Sem 4), and **Christo Kurian** (Sem 10).



Muhammad Misfar Musthafa  
Rhawi Abdul Nazer  
Joel P Anil  
Nirmal Sanjen  
Christo Kurian

## FACULTY PROFILE



**Dr. Kasthurba A.K.**  
Professor & Head

Dr.Kasthurba A.K works as Professor in the Department of Architecture and Planning, NIT Calicut since 1990. She received Ph. D in the area of 'Building Materials' from IIT Madras, Masters in Building Technology from IIT Madras and Bachelors in Architecture from College of Engineering Thiruvananthapuram. She holds Post-Doctoral Research degree from IIT Madras, and University of Illinois at Chicago, USA. She also holds a PG Diploma in Land Management and Settlement Regularization from IHS, Erasmus University, Netherlands. Her research interests are in the area of Sustainable Conservation of Architectural Monuments, Maintenance, Repair and Retrofit of Constructed Facilities, Conservation Planning and Heritage Development, Traditional Building Materials and Sustainable Construction Techniques, Engineering Characteristics and Weathering of Laterite Stone Masonry, Investigation of Deterioration in Buildings and Architectural Heritage Conservation. She is a recipient of the Fulbright Nehru Award 2013, and has received a SAH International Travel grant funded by Getty Foundation.



**Dr. Anilkumar P.P.**  
Professor

Associated with NITC since 1991. He received Ph.D in the area of 'Sustainable Coastal Cities' from IIT Chennai, Masters in City Planning from IIT Kharagpur and Bachelors in Architectural Engineering from NIT Calicut. Apart from numerous relevant publications, he has authored the book "Introduction to Smart Cities" published by Pearson, the first major reference cum text book in Planning Smart Cities in India. His research interests are in the area of Sustainable cities, Urban Development and Sprawl, Smart Cities and Urbanization Impacts.



**Dr. Chithra K**  
Associate Professor

Associated with NITC since 2007. She received Ph. D from NIT Calicut, Masters in Planning from School of Architecture and Planning, Anna University and B.Arch. from College of Engineering Thiruvananthapuram. She also holds PG Diploma in 'Green Cities for Eco-efficiency' from Institute for Housing and Urban Development Studies, Erasmus University, Netherlands. Her research interests are in the area of Sustainable/ Green Land Use Planning, Sustainability Assessment Studies (Built & Unbuilt), Index Generation - City Performance, Service Efficiency, Impact Assessment & Carrying Capacity Studies.



**Dr. Naseer M.A.**  
Professor

Dr.Naseer M.A works as Professor in the Department of Architecture and Planning, NIT Calicut since 1998. He received PhD in the area of "Transportation Planning" from IIT Kharagpur, Masters in City Planning from IIT Kharagpur and Bachelors in Architectural Engineering from NIT Calicut. His research interests are in the area of Urban Planning, Urban Transportation Planning, Remote Sensing and GIS Applications in Urban Planning, Sustainable Development, Comfort Studies in Built Environment and Building Technology.



**Dr. Mohammed Firoz C**  
Associate Professor

Dr Mohammed Firoz works as an Associate Professor in the Department of Architecture and Planning, NIT Calicut since 2004. He also serves as the Associate Dean (Students' welfare) of the institute. He received Ph. D from IIT Kharagpur, Masters in Urban and Regional Planning from CEPT University and Bachelors from NIT Calicut. His research interests are in the area of Regional Development and Planning, Environment and Sustainable Development, Rural Urban Interface Studies, Urban Quality of Life and Liveability, Socio Economic Development of Cities & Urban Design.



**Dr. Shyni Anilkumar**  
Assistant Professor

Dr.Shyni Anilkumar works as Assistant Professor in the Department of Architecture and Planning, NIT Calicut since 2006. She received Ph. D from IIT Kharagpur, Masters in Planning from College of Engineering Thiruvananthapuram and Bachelors in Architectural Engineering from NIT Calicut. Her research interests are in the area of Housing and Settlement Planning, Disaster Management, Post Disaster Reconstruction and Recovery, Vulnerability Assessment of Urban and Rural Settlements, Performance Assessment of Developed Projects, Sustainable Habitat Planning for Tribal Community, Sustainable Water Supply Sanitation and Hygiene.



**Dr. Bimal P**  
Assistant Professor

Associated with NITC since 2009. He received Ph. D from NIT Calicut, Masters in City Planning from IIT Kharagpur and Bachelors from Kerala University. His research interests are in the area of Geo-spatial Techniques (GIS) and It's Applications in Planning, Smart Cities, Transportation, Simulation and Modelling, Parametric Modelling, Internet of Things, Building Automation and Architectural Visualization.



**Dr. Anjana Bhagyanathan**  
Assistant Professor

Associated with NITC since 2018. She holds a Ph.D from the NIT Calicut. She completed her B.Arch. from School of Architecture and Planning (SAP), Anna University & Master's Degree in Landscape Architecture from Centre for Environmental Planning & Technology (CEPT), Ahmedabad. Her research focuses on landscape change and its drivers, the human impact on the environment, GIS applications for ecological planning and natural resource conservation, urban ecology, human ecology, environmental psychology, cultural sustainability, and socio-ecological conservation.

# FACULTY PROFILE



**Dr. Deepthi Bendi**  
**Assistant Professor**

Associated with NITC since 2018. She has received PhD from School of the Built Environment, University of Salford, Manchester, MSc in Construction Management from School of the Built Environment, University of Salford, Manchester, UK and B.Arch. from School of Planning & Architecture- JNTU (Now JNFAU), Hyderabad, India.

Her research interests are In the area of Off-Site Construction, Modern Methods of Construction, Construction Process Efficiency, Affordable Housing and Sustainable Built Environment. She currently handles the Project Finance and Management for the Post Graduate Programme.



**Dr. Amritha P.K.**  
**Assistant Professor**

Associated with NITC since 2020. She holds a PhD degree from NIT, Calicut. She did her B.Arch. from Madras University and completed her Master's degree in Landscape Architecture from School of Architecture and Planning, Anna University. In addition to her experience as an academician at NIT and in other institutions, she has experience working in internationally renowned Architecture and Landscape firms (HOK and Cracknell) in London and Dubai. Her research and publications mainly focuses on Landscape urbanism, Environmental planning, Sustainable waste management, Landscape conservation and restoration.



**Ar. Ritesh Ranjan**  
**Assistant Professor**

Associated with NITC since 2020. He received Masters in Urban Planning from Birla Institute of Technology Mesra, and B.Arch. from NIT Trichy. His research interests are in the area of Green City Concept, Sustainable & Integrated Regional Planning and Migration Dynamics, Measurement Tool for Development, Smart Water Supply System in Rural and Urban Areas, Impact of Pandemic on Urban Fabric.



**Dr. Sanil Kumar**  
**Assistant Professor**

Associated with NITC since 2022. He completed his Doctor of Philosophy from the Department of Architecture and Planning, IIT Roorkee, Uttarakhand. He has a Masters in Urban and Rural Planning from IIT Roorkee, Uttarakhand, and a Post Graduate Diploma in Book Publishing from the Indira Gandhi National Open University, Delhi. He did his Bachelors in Architecture from School of Planning and Architecture, New Delhi. He is a Life member of INTBAU and York Centre for Asian Research, and a member of the Society of Wetland Scientists.



# DAP FACULTY PROFILE



**Dr. Junaid Nabi**  
Ph.D.  
M.Tech.(Structural Engineering)  
B.Tech. (Civil Engineering)



**Ar. Aiswarya S Raj**  
M.Plan.(Housing)  
B. Arch



**Ar. Liss Annie Tom**  
M.Plan.(Urban and Regional Planning)  
B. Arch



**Ar. Sampreeth Inteti**  
M.Plan.(Urban and Regional Planning)  
B. Arch



**Ar. Navya Ann Thomas**  
M.Plan.(Environmental Planning)  
B. Arch



**Ar. Dhrishya V**  
M. Arch (Architectural Conservation)  
B. Arch



**Ar. Sabna M**  
M.Arch(Architecture Pedagogy)  
B.Arch



**Ar. Richu Regina Felix**  
M.Arch. (Urban design)  
B. Arch



**Ar. Kiranjeer Gandham**  
M. Arch (Sustainable Architecture)  
B. Arch



**Ar. Azna Parveen Palakka Palliyali**  
MUD (Urban Design)  
B. Arch



**Ar. Praniti Panda**  
M. Arch (Architectural Conservation)  
B. Arch



# CONSULTANCY WORKS

Sl No.	Name	Client	Project Lead	Project Team
1	Design of the Commercial Complex for Koyilandy Municipality	Koyilandy Municipality	Dr. P.P. Anilkumar	Dr. P.P. Anilkumar, Dr Naseer M A, Dr Bimal P.
2	Master Plan for Public Health Centre at Koodaranji	Koodaranji Grama Panchayath	Dr Chithra K	Dr Chithra K,
3	Renovation and Retrofitting of the Kandamkulam, Jubilee Hall, Calicut	Kozhikode Municipal Corporation	Dr. Kasthurba AK	Dr.Deepthi Bendi
4	CWRDM Calicut Entry Redesign and Avenue Planning	CWRDM Calicut	Dr Chithra K	Dr Chithra K, Dr. P.P. Anilkumar
5	Interior work for Directors cabin, Boardroom and Director's Cabin	NITC	Dr Naseer M A	Dr Naseer M A, Dr Bimal P.
6	CHC Cheruvady	Health Dept Kerala Govt	Dr. Kasthurba AK	Dr. Deepthi Bendi, Ar. Ritesh Ranjan
7	Architectural design of Kunnamangalam Police Station	Govt of Kerala	Dr Mohammed Firoz C	
8	Central Library	NITC	Dr Chithra K	
9	Chanakya Hall Interior work	NITC	Dr Naseer M A	
10	T&P Conferece hall Acoustiical design	NITC	Dr Naseer M A	
11	Gazebo infront of Canteen	Alumni Association	Dr. Kasthurba AK	
12	East Campus Cafe	NITC	Dr Mohammed Firoz C	
13	Revitalization of Urban Heritage Core – Tali and Kuttichira for District Tourism Promotion Council. DTPC Kozhikode	DTPC Kozhikode		Dr. Kasthurba A.K.
14	Community Health Centre Building for Mukkam Municipality	Mukkam municipality		Dr Chithra K
15	Masterplan for the redevelopment of CHC Mukkam, Calicut	Mukkam municipality		Dr.Chithra K, Dr.Amritha P K, Dr.Deepthi Bendi
16	Comprehensive Junction Improvement of Medical College Junction for the corporation of Calicut	Municipal Corporation of Calicut		Dr. P.P. Anilkumar
17	Amphitheater	Alumni Association		Dr. Anjana Bhagyanathan
18	Caravan Park in Priyadarsini Tea Estate, Kunjome,Waynad- Feasibility report for State Tourism department	State Tourism department		Dr. Kasthurba A.K.
19	Master Plan Development for Meppayur Higher Secondary School			Dr Naseer M A and Dr. Sajith A S
20	Master Plan for Cheroopa health Centre			Dr Chithra K
21	Master Plan for Govt. U P School Neerad			Dr Chithra K
22	Renovation of the Panniyankara Durga Temple, Kozhikode			Dr.Chithra K, Dr.Amritha P K
23	Master plan development of Cheruvadi Community Health Centre, Kozhikode			Dr. Kasthurba AK, Dr. Deepthi Bendi, Ar. Ritesh Ranjan
24	Architectural Consultancy: Master Plan for GUPS Manassery.			Dr Bimal P.

# RESEARCH PROJECTS

Sl. No	Title of the Project	Investigators	Sponsoring agency
1	Developing appropriate house design for tribal communities in Wayanad, Kerala	Dr. Shyni.Anilkumar,	UNDP
		Dr. Chithra K,	
		Dr. Deepthi Bendi	
2	Attitudes towards the environment: study in Kerala, post 2018 floods	Dr.Anjana Bhagyanathan	ICSSR-MHRD
3	Capacity building in Geospatial Technologies	Dr. Naseer M.A., Dr. Bimal P.	NRDMS- DST
4	"Sociotop" Mapping as a Planning Tool in an Urban Cultural Landscape	Dr. Bimal P., Dr. Chithra K.	ICSSR-MHRD
5	Model for port based container Traffic Operations in India	Ms. Vida G Mohan, Dr. Naseer M.A	DST
6	Sustainable landscape design guidelines	Dr. Anjana Bhagyanathan	Gravity Inc
7	My City (In)Visible	Dr Mohammed Firoz C & Ar. Ritesh Ranjan	British Academy
8	Framework for flood mapping and preparing an early warning system in the occurrence of flood for the northern region Kerala.	Dr. Chithra K., Dr. Bimal P.	DST NRDMS
9	Development of a model for generation of high-resolution gridded population map	Dr. Bimal P., Dr. Deepthi Bendi	Respond, ISRO

# IMPRESSIONS FROM PEER INSTITUTIONS



"It is a privilege and honour to write about the Department of Architecture & Planning, NIT Calicut. I have interacted closely with students and faculty of the department over several years. They are committed and highly innovative. The department has close links with practicing and research community in the state, National as well as International levels. It is able to provide unique academic, research and practical skills, experience and guidance to its students."

- Prof. Chetan Vaidya  
Former Director SPA Delhi and NIUA New Delhi, India



"I have found Department of Architecture & Planning, NIT Calicut as a future ready, upcoming and extremely promising institution."

- Prof. Joy Sen  
Former Head, Department of Architecture and Regional Planning, IIT Kharagpur

"Besides equipping students with professional and technical skills to solve India's habitat challenges, the philosophy of the department intends to impart humane and societal values for the holistic development of the mind. Faculty is well qualified and committed with global experience in teaching, research and professional practice. Students selected through rigorous process represent the whole of India, very diverse, intelligent & energetic lot. Being a safe residential campus with world class infrastructure the institute is vibrant 24 by 7 providing ample space and opportunity for peer to peer learning.

Located in pristine greenery and beauty the campus is true representation of "God's own country" It Looked perfect ambience for teaching and learning and an ideal place for the physical, intellectual, and mental well being of India's young minds. My long teaching and research experience in habitat issues gives me the confidence to say the Department is one amongst the best in the country to pursue Planning and Architectural Education in India. The 2020, NIRF ranking the Department as number 3 in the country substantiates my confidence."



- Prof. Shrawan Kumar Acharya  
Professor JNU, New Delhi, and Ex-Professor CEPT Ahmedabad

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