



National  
Institute of  
Technology  
Calicut

*An Institution of National Importance  
under Ministry of Education | Government of India*



DEPARTMENT OF ARCHITECTURE AND PLANNING

Department of  
Architecture & Planning  
**M.Plan (Urban Planning)**

**Ranked 3<sup>rd</sup> in NIRF amongst Architecture Institutions**

POSTGRADUATE  
PROSPECTUS  
**2021**



## Director's Message

From the time man started settling down in close knit communities, planning of settlements have captured the imagination of planners and administrators. The cities of Mohenjodaro and Harappa in India, Aleppo in Syria, Byblos in Lebanon, Athens and Argos in Greece, to name a few, stand testimony to the aesthetic and functional planning skills of our forefathers. It is suffice to state that urban planning has been the matter of study from time immemorial and have led to the development and growth of cities around the world. In the modern times, although organic growth of cities have been the norm in countries like India, planned cities like Chandigarh, Noida, Lavasa, Navi Mumbai etc., have exhibited the rewards of application of scientific principles in urban planning for the benefit of communities. It is therefore a matter of utmost importance that urban planning concepts are well ingrained in planners and administrators of cities, especially when climate change and pandemics necessitate more resilient cities.

*"By far the greatest and most admirable form of wisdom is that needed to plan and beautify cities and human communities."*

*-Socrates*

It is therefore a matter of gratification that National Institute of Technology Calicut, one of the premier technical institutes of the country, offers a postgraduate programme in Urban Planning, which is aimed at making the planners future ready, by equipping them with state of the art knowledge in urban planning, including in the area of 'Smart city planning'. The programme incorporates aspects of land use, travel and tourism, along with economic, fiscal and resilience planning, so that the graduates are well equipped to meet the challenges of the profession. It goes without saying that the programme, with the support of qualified and dedicated faculty members and modern infrastructure facilities would go a long way in fulfilling the objectives envisaged.

I wish the programme and the Department all the very best and hope they would continue to offer their valuable services to augment the knowledge base of the field of urban planning, through teaching, research and consultancy, in the years to come.

Dr. P. S. Sathidevi  
Director i/c



# Program Coordinator's Message



It's an immensely proud moment for the Department of Architecture and Planning to have come this far in offering a Post Graduate Program in Urban Planning, that symbiotically integrates the theory of urban planning to the new age practice tenets taking advantage of the technology revolution in areas like ICT and GIS.

I treat launching a fitting prospectus for the program is also an important milestone, as that helps in clearly communicating our goal, vision and the prospects the program holds to young aspirants and peer institutions. The Department is capable of producing world class research with its aspiring and qualified faculty and the robust and modern infrastructure it enjoys. Adding to its potential, the department offers other innovative programmes of study at graduate and research levels along with short term courses employing the outstanding teaching skills, learning environment and the strong industry links for long lasting and rewarding careers.

As the 3<sup>rd</sup> best NIRF Ranked Architecture Institute in the country, we have been producing high calibre graduates with the deep and broad range of skills necessary to succeed at the highest levels in the design practice, real estate, urban planning and design, construction industry to name a few. Our alumni are globally present and the slowly added fleet of dedicated and qualified faculty will make learning a joy to the aspirants.

At present, five batches have already stepped out into the practical field of Planning from the Department. Our Urban Planning program curriculum aims to integrate state-of-the-art theoretical knowledge in Planning with Practice oriented futuristic vision and thereby to produce planners who can help mould the Smarter India of tomorrow.

*"Hoping to see you here for a promising career in Urban Planning"*

Dr. P.P. Anilkumar  
Program Coordinator & Head of Department



# About the Department

The Department of Architecture and Planning at NIT Calicut is nearly 30 years old, although the Post Graduate programme in Planning is a fairly young addition. In this short span of time, the Department could create a secure niche and the top position it holds in NIRF ranking is a testimony to this. Through this programme the Department is committed to provide an academically strong platform for those aspirants who wish to make futuristic planners fit to take on the demands of a new age and smarter India 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 as the rationale for such programs to be open ended, daring and technology embedded in exploration and the M.Plan programme at NITC is precisely this.



This calls for an attitude for research, exploration and dynamism to remain relevant in the changing times to be infused in the program. The curriculum overview in this brochure will speak for itself. Existing Undergraduate (B.Arch) and PhD programmes in the Department helps the Planning programme to be suitably vertically integrated. The Department of Architecture and Planning offers this Postgraduate (2 Year M.Plan.) Degree Program in Urban Planning with pan-India as well as global employability in mind, while remaining grounded on Indian urban realities.

## Vision :

To provide Architectural & 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.



NIT Calicut is ranked 8th in the category Publicly Funded Institution: Top Ranked HEIs (Institute of National Importance, Central Universities & CFTIs).





# Program Details

## Master of Planning (M.Plan)

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. In shaping up the spaces and places where we reside, work, shop, entertain and live, this understanding is critical.

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. In the process, students get the opportunity to master newer technologies like GIS and Remote Sensing in depth, familiarize with advanced modelling strategies and techniques in Urban Planning and to choose such contemporary and relevant electives such as Planning for Smart Cities.

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 formulated with the insightful understanding that for a burgeoning population like that of India, maintaining urban quality of life and managing its urban transformation in a steady and systematic manner is a truly daunting task and preparing planners to embark on this mission is no easy task!

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. The students graduating from this program have been typically absorbed in national and international consultancy firms; central, state and local government organizations, and various institutes and NGOs, based on their individual credentials and interests.

*Welcome to a new domain of exciting opportunities in Nation building...*

## Course Structure

SEMESTER 1	SEMESTER 2	SEMESTER 3	SEMESTER 4
Planning Principles and Techniques	Environmental Planning	Regional & Metropolitan Planning	Planning Legislation and Professional Practice
Demography and Quantitative methods	Transportation Planning	Project Finance and Planning	Term Paper
Housing	Urban Infrastructure Planning	Elective III	Planning Thesis
GIS and Spatial Analysis	Seminar	Elective IV	
Remote Sensing Application in Urban Planning	Elective I	Planning Studio III	
Planning Studio I	Elective II	Dissertation and Thesis Programming	
	Planning Studio II	Summer Training	

ELECTIVES		
• Planning for Smart Cities	• Advanced GIS for Urban Analysis	
• Planning for Sustainable Development	• Advanced Transportation Planning	
• Green City Planning for Sustainability	• Regional Transport Planning	
• Human Settlement and Climate Change	• Urban Design and Conservation	
• Environmental Impact Assessment	• Coastal Cities' Management	
• Urban Disaster Management	• Systems Modelling and Analysis	
• Land Management and Real Estate Development	• Urban Renewal and Conservation	
• Tourism and Recreational Planning	• Heritage Management and Tourism	
• Planning for Rural Development	• Urban Management and Governance	
	• Financial Management of Local Self Govt.	

# Faculty Profile



**Dr. Anilkumar P.P.**  
**Professor & Head**

Associated with NITC since 1991. Currently, he is heading the Department. 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. 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.



**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 social-ecological conservation.



**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. Chithra K**  
**Assistant 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. 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. Kasthurba A.K.**  
**Professor**

Associated with NITC since 1990. She has received Ph. D in the area of 'Building Materials' from IIT Madras, Masters in Building Technology from IIT Madras and B.Arch. 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.



**Dr. Mohammed Firoz C**  
**Assistant Professor**

Associated with NITC since 2004. Currently, he also serves as the Associate Dean (Students' welfare) of the institute. He received PhD. from IIT Kharagpur, Masters in Urban and Regional Planning from CEPT University and B.Arch. from NIT Calicut. His research interests include Regional Development and Planning, Environment & Sustainable Development, Rural Urban Interface Studies, Urban Quality of Life & Liveability, Socio Economic Development of Cities & Urban Design.



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

Associated with NITC 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.



**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. Shyni Anilkumar**  
**Assistant Professor**

Associated with NITC 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.

# Career Prospects

Department of Architecture and Planning has been successful in procuring placements for its students for years. Placement in the campus is based on the invitation to the recruiting consultancy company, government, public and private sector agencies, research and academic institutions, NGOs and International agencies. They also approach the the institute directly for the recruitment as per their requirement in the field of urban planning and related discipline. In the recent years, the “Big Four” consultancy companies are also started recruiting planning graduates from regular campus placement. Some of the key regular recruiter from the campus are listed below.



## Job Opportunities @

- Metro-Link Express for Gandhinagar and Ahmedabad (MEGA) Company Ltd. (GoG), Ahmedabad
- Urban Mass Transit Company Ltd., New Delhi
- Ministry of Environment Forests & Climate Change
- Foundation [Center for Water and Sanitation (C-WAS)]
- Maharashtra Social Housing and Action League (MASHAL), Pune
- Centre of Excellence in Urban Transportation (CoE-UT)
- Ministry of Jal Shakti (Water Resources), Gol
- Mienhart

and many more corporates and public sector organizations.



## Internship & Training

Hands-On experience & industry exposure is guaranteed by the professional training programmes. Some of the prestigious concerns where our students have been accepted as trainees include:

Centre for Socio-economic and Environmental Studies-Kochi, RSP Designs-Bengaluru, IIRS Dehradun, SANDHI-IIT Kharagpur, National Transportation Planning and Research Centre-Thiruvananthapuram, Kochi Metro Rail Limited, Royal Haskoning, DHV Bengaluru, Ahmedabad Urban Development Authority, Chennai Smart City Limited, HCP Ahmedabad, The Urban Catalysts-New Delhi, Urbz-Mumbai & Kochi, etc.



# Student's Activities, Works & Achievements

**ACTIVITIES**



**Disaster-proof house design wins laurels**  
Model built using CRPC panels

As a building design student, it is a great honor to have won the laurels for the disaster-proof house design competition. The model built using CRPC panels was highly appreciated by the judges. The design was based on the principles of sustainability and disaster-resistance. The model was built using CRPC panels, which are made of recycled plastic and are highly durable. The design was also based on the principles of sustainability and disaster-resistance. The model was built using CRPC panels, which are made of recycled plastic and are highly durable. The design was also based on the principles of sustainability and disaster-resistance.



**LECTURE**  
**'CONTEXTUAL SUSTAINABILITY'**

**Ar. AMIT UPADHYE, AIA**  
SENIOR PROJECT MANAGER  
MORPHOSIS, CALIFORNIA

NOV 1 | 10:00AM | NLHC 303-NITC

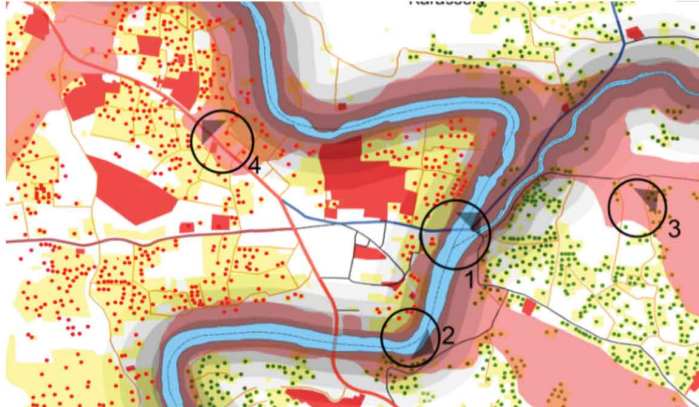
Design & Build  
REVOLUTIONIZING ARCHITECTURE  
DEPARTMENT OF ARCHITECTURE  
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT  
Revolution de l'art '14

## NIT students raise funds to support flood victims through exhibition sale

In a bid to support flood victims, students belonging to the Architecture Students Association (ASA) of the National Institute of Technology Calicut (NIT-C) have raised Rs 47,310 through an art, handmade craft and food exhibition held at the creative zone of the institute. The products sold at the exhibition were prepared by the students themselves. In addition to the money collected through the exhibition, ASA also raised Rs 46,000 by cancelling the grand onam celebration. Through the money collected, the students are planning to adopt an area gravely affected by the flood, and help people rebuild the locality. Students are also gearing up to gather data to analyse flood damage.

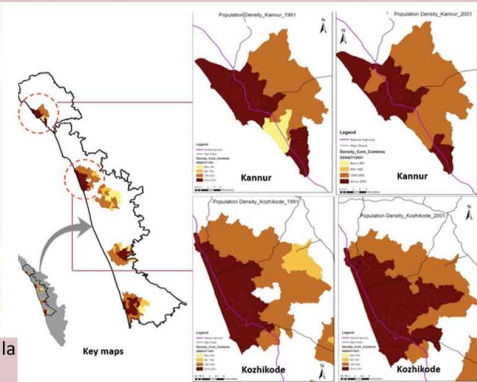


**WORK**



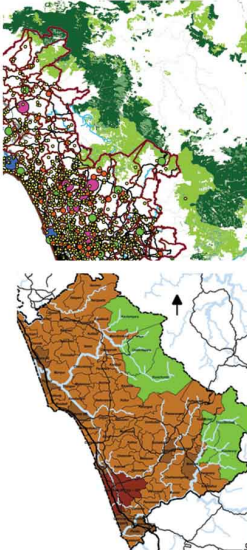
## Local area mapping and analysis of Mukkam, Kozhikode by 2019-2021 Batch

- Mariyam, Mashrukur, Rasaveena, Srirangasn, Shameer

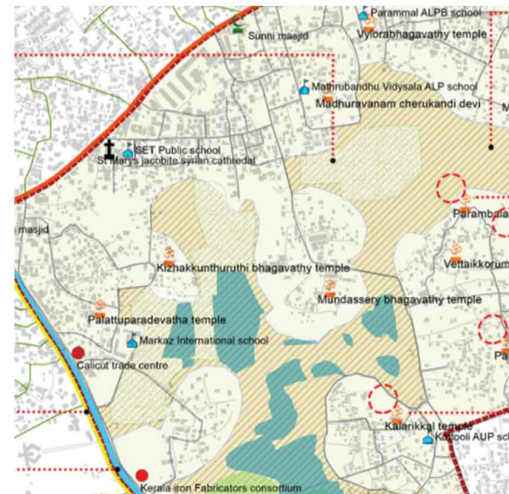


Regional Plan for evolving mega region in Kerala  
Planning Studio - 2017-2019 Batch

## Smart Living For Smart Cities – Kozhikode Metropolitan Region Planning studio 2017-2019 batch



Regional Plan for evolving mega region in Kerala  
Planning Studio - 2017-2019 Batch



Local Area Mapping and Spatial Analysis of Kottoli Batch - 2019-2021  
Annie, Arumugham, Himaja, Rijesh, Vishnu, Meghna



## ITPI - Kerala Regional Chapter

Thesis of the Year Award 2021

## ITPI - All Kerala Planning Schools Annual Seminar 2019

International Conference on Urban Science & Engineering (ICUSE 2020) - IIT Bombay

## Post-Floods Housing to Rebuild Kerala August 2018

New Housing Literacy for Rebuilding Kerala, December 2018, Department of Housing, Government of Kerala

**AWARDS**



# Impressions

## From The 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



"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" !t 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



"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



# Students' Testimonial



"If you are passionate about what you are doing, if you are a person who would want to create impact, if you are a person who would envision a sustainable development way forward, I would recommend you choose to do Master of Planning in Urban Planning. If you need to get a multidisciplinary exposure in the field, make the best of your 2 years of life in NITC. Faculty members here promotes both theoretical and pragmatic approach which is much needed in this masters program."

- Sonu S Kumar  
Batch: 2017-19

Consultant at Ashoka Trust for Research in Ecology and the Environment  
Associate Architect at Art Unlimited Multitude, Bengaluru



"I consider it an immense fortune having been a part of NITC, wherein the faculty, the course work has not only boosted my cognitive skills but has also developed my personality and has given me a different outlook of learning and unlearning things."

- Kesoweu Wetsah  
Batch: 2016-18

Assistant Urban Development Officer,  
Directorate of Urban Development, Nagaland



"Studying M.Plan. at NIT Calicut is definitely a major milestone in my academic and professional journey. My learning experience was not only insightful but also practical. The faculties are highly qualified, diverse and updated with real-time knowledge. The department provides with a cohesive and friendly working environment which encourages students with varied interest and skills to perform at the best."

- Riya Sethia  
Batch: 2018-20

Junior Urban Planner  
Satsol Spatial Tech, Hyderabad



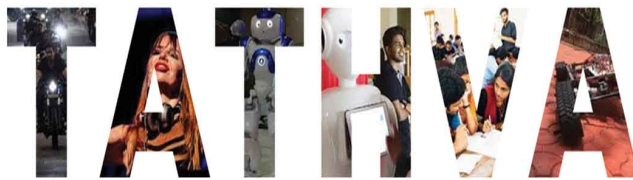
"NIT Calicut allows you to think beyond the box and places an emphasis on practical experience as well as theoretical aspects. You have the freedom to think freely, express yourself freely, and broaden your knowledge in all areas. The faculty are well-experienced, dedicated, and show a genuine desire to assist students in achieving their objectives. I enjoyed lectures and the class the most when they use real-life examples in their teaching. NIT Calicut is eager to provide us with an understanding of current technological trends and even to allow us to develop innovative projects with them. You can definitely improve your standard from novice to professional. I used to find positive energy around me because of the serene and green campus. The multicultural community and diversity on campus keep it exciting, enjoyable, and vibrant, and it has provided me with wonderful friends."

- Sumit Kuliya  
Batch: 2017-19

Assistant Urban Planner,  
IPE Global, Delhi

# Campus

## Amenities & Fests



## Why Calicut?

Known as the crown jewel of the Malabar, Calicut or Kozhikode is a great place to study with an exciting mix of cultures, vibrant urban night life, beautiful pristine beaches and natural outdoor spaces. Kozhikode is an educational hub and the locals are known to be very friendly and tolerant towards outsiders. Amongst abundant spots in the city, there is no dearth of beautiful weekend getaways from Calicut. Places like Kannur, Wayanad, Ooty, Varkala provide a complete exploratory experience for the visitors.



# Admission to the Course

## Who can apply?

**Course Duration: 2 years (Regular)**

### Eligibility

A five year full time B. Arch. degree or the four year regular B.Plan, B.E./B. Tech. degree in Architectural Engineering/ Civil Engineering with minimum 60% marks (CGPA 6.5/10) in aggregate of all semesters in the qualifying examination and for SC/ST candidates minimum 55% marks (CGPA 6/10) in aggregate of all semesters/years along with a valid GATE score in "Architecture" or "Civil Engineering" stream.

Social scientists with a Master's Degree in (Economics, Geography and Sociology) qualifying in the National Eligibility Test (NET) are also eligible for admission.

Sponsored students, with a good academic record and a minimum of two years of relevant experience are admitted, based on a test and interview. In case of teachers sponsored by Engineering Colleges and Polytechnics, the Sponsoring Institution should be recognized by AICTE. The employer while sponsoring will have to give an undertaking that the candidate will be paid full salary during the entire period of the M.Plan. Programme and that the candidate will not be withdrawn midway.

**Seat reservations** are as per Government of India rules.

## Seat Matrix

**Total Number of seats : 21**

Through CCMT : 16

Sponsored Seats : 03

Special Seats (Social Science): 02

## How to apply?

Regular candidates can register online at-

**<http://www.ccmt.nic.in>**

Sponsored candidates should apply online through the

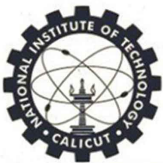
"Admission" link of NITC- **<http://nitc.ac.in>**

## Mark your Calender

Follow ccmt2021 calender for deadlines & NITC website announcement board







नमसो मा ज्योतिर्गमय

**National  
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Calicut**



[http://nitc.ac.in  
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=department  
/index/5](http://nitc.ac.in/index.php?url=department/index/5)

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