

## BRIEF BIODATA: Dr. VARGHESE GEORGE, NITK/ KREC, SURATHKAL

<b>Name:</b>	<b>VARGHESE GEORGE</b>	<b>Employee ID:</b> 1013
<b>Date of Birth:</b>	01-04-1961	<b>Sex:</b> Male/ Female
<b>Nationality:</b>	Indian	<b>Father:</b> Chev. K.G. George <b>Mother:</b> Agnes Gracy George
<b>Important Positions Handled</b>	HOD Dept of Civil Engg. 2017-19 Assoc. Dean (Res. & Cons.) 2010-13 NITK Con. Coop. Soc. Secy 2004-05 NITK Con. Soc. Board Mem. 2004-13 Coord. L&T MTech (CTM) Prog. 2023-24 Ind. Roads Con. G5&G6 Mem 2025-27 NAAC Mem. & Coord. 2024 onwards	



### Career Objective:

- Looking forward to a bright & rewarding career for self-growth, job-satisfaction, & org. well-being

### Personality Traits and Strengths:

- Strong Administrative and Leadership Capabilities demonstrated as HOD, and as Asso. Dean (Res&Cons)
- A Good All-Rounder with Interests in Computers, Academics, Engineering & Fine Arts
- Capability to Assimilate New Technology and Skills and to Apply in Everyday Life
- Strong Logical Reasoning, and Analytical Skills for Innovation & Problem Solving
- Dale-Carnegie University Certified Teacher
- IGBC-CII Accredited Faculty in Green Building (Also trained by ESCI, Hyderabad)
- NHAI-Certified National Level Trainer for Highway Safety
- Trained in ROMDAS for Pave. Eval.; Zond 12e GPR sounding; & CITILABS-Cube Voyager for Transp. Plng.
- Editorial Board Member of Baltic Journal of Road and Bridge Engg.
- Reviewer for: TRB Washington, ICE-UK, Francis & Taylor, IRC Delhi, WCTR, MJET-Manipal, CTCS Nitte
- Developed Rural Roads Manual (IRC SP:20-2002) & Stand. for Road Bridges (Sec IV-IRC 40-2000) for IRC

### Office Address:

**Department of Civil Engineering**  
**National Institute of Technology Karnataka Surathkal**  
**A Deemed University** (formerly, Karnataka Regional Engg. College (KREC), Surathkal)  
 Srinivasnagar Post, Mangalore, Karnataka State, India – Pin 575025  
 Tel (Off.): 0091- 824 – 2474000-7 EPBAX; Diro. 4034 CED 3041/ 4051 VG 3352  
 Fax (Off.): 0091- 824 – 2474033/ 4039

### Residential Address:

AP-21 Staff Quarters, NITK Campus, Srinivasnagar Post,  
 Mangalore, Karnataka State, India – Pin 575025  
 Tel (Resi.): 0091 - 824 – 2474352; Mob: +91-99869 20093  
 Email: varghese@nitk.edu.in; varghese.goldengate@gmail.com  
 Website: [www.nitk.ac.in](http://www.nitk.ac.in)

### Email/Website:

### Academic Qualifications

Degree	Year	Class	School/ College/ Institute	Board/ University
SSLC	1976	I Class=409/600	St. Mary's High School, Pattom, Trivandrum	Board of Public Exams
Pre Degree	1978	I Class=373/450 684/900	Mar Ivanios College, Trivandrum	University of Kerala
BSc. (Engg)	1984	I Class=3535/5000	College of Engineering, Trivandrum	University of Kerala
M. Tech	1986	CPI = 8/10	Indian Institute of Tech., Kanpur,	IIT, Kanpur
Ph. D	1999	26 <sup>th</sup> Feb 99 Defen.	Indian Institute of Tech., Bombay	IIT, Bombay

### Awards / recognition

Awarded the title "IGBC Accredited Faculty" in Green Building & Built Environ. by IGBC & CII, Hyd.	- 06 Aug 2021
Award for Best Reviewer of Res. Papers for Scopus Springer Int. Con. CTCS, NMAMIT, Nitte	- 2020 & 2021
Award for Best Civil Engineer (Acad) from Smart Infrast. Eng.Serv.Trust, at Osmania Univ.	- 16 Sep 2016
Certificate of Excellence for Outstanding Paper Presn. with Citation & Gold Medal, at ICITSEM, Dubai	- 26 Feb 2015
Special Award Received for Contributions to Rural Roads Com., Indian Roads Congress, New Delhi	- 10 Jan 2004
Award for the Best Secretary for the Region-324-D4 from Lions Club International, 324-D4	- 01 Apr 2001

## Details of Posts Held and Pay Scale

Permanent Posts Held	Pay scale on appointment	Duration
Lecturer in Civil Engrg.	700-40-1100-50-1600 (Basic 700 with 2x40 for M.Tech)	15-07-1986 to 15-07-1992 (6y. 0m)
Senior Lecturer	3000-100-3500-125-5000 (Basic 3000/ 1995 - 1999 3000-3500)	15-07-1992 to 30-10-1998 (6y. 3m)
Selection Grade Lecturer	12000-420-18300 (Basic 12000)	30-10-1998 to 26-02-1999 (0y. 4m)
Assistant Professor	12000-420-18300 (Basic 12000 with 2x420 for Ph.D)	26-02-1999 to 01-01-2006 (6y. 10m)
Associate Professor	12000-420-18300 Rev. 37400-67000 + AGP 9000 (PB4)	01-01-2006 to 26-02-2007 (1y. 2m)
Professor	16400-450-20900-500-22400 Pay Band IV: 37000-67000 + AGP 10000 OM - VI Pay Rev. 15/01/2008 B1 Dt 16-11-2010	26-02-2007 to 10-03-2015 (8y. 1 ½ m) With Fin. Benefit from 16-11-2008 BOG/ Estt/ 2008/ B1 24-Feb-2009
<b>Professor</b> (Hr. Gr.- 4 tier)	Pay Band IV: 37400-67000 + AGP 10500 OM - VI Pay Rev. 15/01/2008 B1 Dt 06-Apr-2015 - AGP 10500 Pay fixation Level Corresponding to AGP - Level 14A OM - VI Pay Rev. 15/01/2008 B1 Dt 25-Jun-2015 sector 4-Box Level 14A	10-03-2015 onwards
<b>Associate Dean</b> (Research & Consul.)	Additional Administrative Duty OM - VI Pay Rev. 15/01/2008 B1 Dt 06-Apr-2015 - AGP 10500 OM - VI Pay Rev. 15/01/2008 B1 Dt 06-Apr-2015 - AGP 10500	01-05-2010 to 06-09-2013 Ref. 9465/ Estt/ 2013/ B1 Dt 06-09-2013
<b>Head of Department</b>	Additional Administrative Duty OM - VI Pay Rev. 15/01/2008 B1 Dt 06-Apr-2015 - AGP 10500 OM - VI Pay Rev. 15/01/2008 B1 Dt 06-Apr-2015 - AGP 10500	21-04-2017 to 22-04-2019 Ref. NITK/CED/2019/1033 Dt 22-04-2019
<b>Coord., L&amp;T-BIS, NITK</b>	Coordinator, L&T-BIS Sponsored M.Tech (CTM) Prog. Ref. L&T-M Tech-CTM/NITK-Estt-2023 B1 Dt 06-Apr-2023 Ref. L&T-M Tech-CTM/NITK-Estt-2024 B1 Dt 25-Apr-2024	06-04-2023 to 29-04-2024
<b>Industrial Experience:</b> Civil Engineer Trainee	Rambal & Co. Trivandrum (HO Madras)	01-01-1984 to 30-6-1984

<b>Ph.D Thesis Title:</b>	Decision Support System for Urban Bus Transport Management (using Semantic Data Modeling & ORACLE RDBMS) – Thesis Defended on 26 <sup>th</sup> Feb 1999		
<b>M.Tech Thesis Title:</b>	An Interactive Computer. Aided Model System for Optimal Scheduling of Buses in a Transit Network		
<b>Areas of Interest</b>	<ul style="list-style-type: none"> <li><b>Urban Transport Planning and Software Apps. (Cube Apps.)</b></li> <li><b>Public Transport Planning, Traffic Engrg. ( TRANSYT/ VISSIM / GA Apps)</b></li> <li><b>Oracle RDBMS, and DSS Apps. (Expert Sys.) for Bus Transp. Mangmt.</b></li> <li><b>Road Safety Audit, Speed Control, Geom. Desn, &amp; Vehicle Pol. Control</b></li> <li><b>Porous Friction &amp; Pavem. Eval. &amp; Monit. (ROMDAS, PFWD, GPR, &amp; ANN Apps.)</b></li> <li><b>Ground Improvement: Natural/ Synthetic Fibers, Laterite subgrades &amp; Accel. Consol.</b></li> <li><b>Town Planning, Surveying, and Architecture</b></li> <li><b>Green Building, Building Construction, &amp; Architecture</b></li> </ul>		
<b>Foreign Countries Visited:</b>	<b>Research/ Intl. Conferences</b> <ul style="list-style-type: none"> <li>Univ. of Antwerp, Belgium (July 1998)</li> <li>TU-Delft, Netherlands (July 1998)</li> <li>Kumamoto Uty. Japan. (Mar. 2012)</li> <li>Al-Rigga, Dubai, UAE. (Feb. 2015)</li> <li>Montreal, Canada (July, 2023)</li> </ul>	<b>Research Interactions</b> <ul style="list-style-type: none"> <li>Texas Transportation Institute, (TTI-TAMU) USA (Dec 2008)</li> <li>National Uty. of Singapore (Mar. 2012)</li> </ul>	<b>Other Visits</b> <ul style="list-style-type: none"> <li>Malaysia</li> <li>France</li> <li>Germany</li> <li>Luxemburg</li> </ul>

## SUMMARY OF RESEARCH PUBLICATIONS

International			National			BOOKS
International Journals	25	Published	Refereed Indian Journals	23	Published	2 Editorials (1 Conf. Proc. (Scopus) + 1 IRC Standard)
International Conferences	20	Papers Published	National Level Conferences	12	Papers Published	<b>BOOK CHAPTERS</b>
	1	Abstracts Published	Seminars/ W-s Symposiums			1 Co-Author (Scopus)
<b>Total</b>	<b>46</b>	<b>International Papers</b> (37 Scopus indexed)	<b>Total</b>	<b>35</b>	<b>National Publications</b>	<b>1 Book Co Edited + 1 Book Chapter</b>

Journals include: Taylor & Fran.-7; Springer-5; Elsevier-3; ASCE-1; IRC-7; IEEE-3; Scopus-ID: 7101689962; Cit: 371; H-ind-12  
WoS ResID: C-5650-2017 GoogleSch-ID: qgP63tYAAAAJ Citations =696 H-ind 16; i10 ind 20; Vidwan-ID: 32667;  
ORCID: 0000-0003-1497-9603; Research Gate Citations after 2010 = 504 H Index: 14 RG Reads 24,391 RG Score 466.

## Review Work Undertaken for Journals and Conferences and SIGs

- Reviewer for Transportation Research Board, Washington - 2011-13 - Imp. Fac. 0.55
- Reviewer for Taylor and Francis: Jou. Civil Engg. and Management - 2010-12 - Imp. Fac. 3.711
- Reviewer for Taylor and Francis: Intl Jou. Pav. Engrg. - 2009-13 - Imp. Fac. 0.7
- Reviewer for Instn. of Civil Engrs. (UK): Jou. Ground Improvement - 2015 onwards - Imp. Fac. 0.93
- Reviewer for Journal of Transportation Geotechniques-Elsevier - 2016 onwards
- Reviewer for Springer Int. Con. (Scopus) CTCS at NMAM Ins. Tech. Nitte - 2019 onwards
- Reviewer for IEEE Access - 2024 onwards
- Reviewer for Indian Roads Congress Journal & Pubs. - 2003 onwards - Imp. Fac. 0.23
- Reviewer for Manipal Journal of Engineering and Technology - 2015 Onwards
- Reviewer for TPMDC-2008 - 2008
- WCTR-2021 & WCTR-2023 Int. Conf. - 2021, 2023
- Invited to attend the Spec. Int. Gr. meeting of D3 Session of WCTR, Montreal - 2023

## Editorial Work Undertaken for Journals and Conferences

- Contributed in Developing *Rural Roads Manual* (IRC SP:20-2002), IRC, New Delhi
- Contributed in Developing *Standards for Road Bridges* (Sec IV-IRC 40-2000), IRC

## Sponsored Research Projects Undertaken

Sl. No.	Project Title and Chief Project Investigator (PI)	Funding Authority/ Agency	Name of Scheme	Sanction Letter No. & Date	Sanctioned Duration	Sanctioned Period	Total Amount Sanctioned	Status
1.	<i>Experiments. Stud. on Non-Destr. Tests for Pav. Eval. of Low Cost Roads and Modified Geosyn. Reinf. Soil Subgr. for Rural &amp; Semi- Urban Areas of Dakshina Kannada Dist.</i>	MHRD	TAT Research Project	F.27- 16/ 2003 TS.V dated: 13-1-2004, from, GOI, MHRD, Dept. of Seccon. & High.Edn., New Delhi	2 years	2003-2005	<b>Rs.18,00,000</b> (USD 45000)	Extended to 2006 Completed
		<b>PI: Dr. Varghese George</b>						
2.	<i>Origin and Destination Studies for Hubli-Dharwad Twin City Urban Environment</i>	MHRD	TEQIP	SDMC/TEQIP/1 273/2009-10 Dt: 14-Jul-2009	3 years	2009-12	<b>Rs 5,00,000</b> (USD 11,000)	Completed
		<b>PI: Dr. MN Sudheendra</b> SDM Col. of Engrg. & Tech., Dhavalagiri, Dharwad-580002						
		<b>Co PIs:</b> <b>Dr. Varghese George, &amp; Dr. Raviraj Mulangi, NITK</b>						
3.	<i>Commuter Perception on Service Quality and the Expected Level of Service of KSRTC Mangalore Division Services</i>	KSRTC, Mangalore	R&D Work	KST/MND/DC/1 48/17-18 Dt 21-11-2017 and Final Letter of Divi. Controller Dt: 20-08-2018	08 Months	2017-18	<b>Rs 8,000</b>	Completed
		<b>PIs:</b> <b>Dr. Raviraj H.M. &amp; Dr. Varghese George</b>						

## Membership in Professional Bodies

	Professional Bodies	Membership No.	Period
1	Life Member of the Indian Society for Technical Education	LM 5423	08- 01-1990 onwards
2	Life Member of the Indian Roads Congress, New Delhi	LM 15431	17- 09-1993 onwards
3	<b>Fellow of the Institution of Engineers</b>	F-112345-5 AIE A/ 501139/ 7	31-07-2007 onwards
4	Life Member of the Institute of Urban Transport	IUT-182	12-10-1992 onwards
5	Life Member of the Coorg and South Kanara Engr's Assn.	LM 216	03- 04-1998 onwards
6	<b>ASCE</b> - Member of ASCE, USA	ID# 10168893	20- 09-1999 onwards 16-03-2015 onwards

## Honorary Posts in National Level Technical Committees/ Professional Bodies

Role	Name of Professional Body/ Technical Committee	Period
Member	Rural Roads Committee (H5) of Indian Roads Congress, New Delhi	2000-03; 2024-27
Member	Masonry Bridges Committee of Indian Roads Congress, New Delhi	2000-2003
Member	Environment Committee (H-7) of Indian Roads Congress, New Delhi	2003-2006
Corresponding Member	General Design Features (B2) Committee of IRC. New Delhi	2003-2006
Board Mem.	Nat. Transp. Png. and Res. Cen.(NATPAC), (under KSCSTE, Gov. of Kerala), Pattom P.O., Trivandrum - 695004. (No 550/ GA1/ 2012/ Dt 20th Nov. 2013)	16-17 Dec 2013
Member	G6 Committee - Multimodal Transport System, IRC, New Delhi	2025-27
Member	G5 Committee - Disaster Management, IRC, New Delhi	2025-27

## Proficiency in Languages

Read, write and speak	Read and Write only	Speak only
English, Hindi, Malayalam & Kannada	German & Syriac	Tamil

## Consultancy Work Undertaken/ Industry Interaction/ Community Development Projects

Sl. No.	Title of Consultancy Work Undertaken and Plan Outlay	
1	Basic Planning and Layout for 7th Block Hostel and Mess Block-NITK Surathkal (Rs. 2 Cr Outl.)	2000-2001
2	Design of Pavement Drainage Systems and Cable Ducting for M'lore Municip. Corp. (Rs. 5 Cr Outlay)	2001-2003
3	Digital Land-surveying using total station for Kateel Temple Administration (Rs. 3 Lakhs Outl.)	2003-2004
4	Erection of Tall Chimney Towers for Mangalore Chemicals and Fertilizers (Rs. 20, 000 Outl.)	2003-2004
5	Planning of Toy Train Tracks for Kadri Park, & Pilikula Nisarga Dhama (Zoo & water Park) (Rs. 0.5 Cr Outl.)	2004-2007
6	Digital Land-Survey & Plan for SEZ, M'lore SEZ – Phase I&II - 1700 acres (Rs 36L Outl.) Rs 2.43L	2004-2007
7	Digital Land-Survey & Plan for SEZ, M'lore SEZ – Phase III - 1300 acres (Rs 40L Outl.) Rs 2.21L	2006-2008
8	Residential Township Layout for 79 – 57 acres (Rs 10L Outl) Rs 0.75L	2006-2008
9	Member of Advisory Committee for CTPP, under Deputy Commissioner, Dakshina Kannada District	2006-2013
10	Proposals to D.C. for Mangalore Area Comprehensive Transport and Urban Planning (MACTUP)	2008-2010
11	Design and Layout of 2 lane Underpass with Footpath for NITK (Rs. 5 Crore Outlay)	2010-2011
12	Member of Technical Advisory Board of Agricultural Produce and Marketing Corporation (APMC), M'lore	2010-2014
13	Member of Technical Advisory Board of Pilikula Nisarga Dhama (Zoo & Water Park), Mangalore	2010-2014
14	Mangaluru Smart City Limited - Meeting of Waterfront Development Project	2022 Jan 19
15	Regular Testing and Consultancy Services for: 1) Road Aggregates 2) Bitumen and Bituminous Products 3) Building Construction Materials 4) Repair and Maintenance of Equipment 5) Road Accident Survey at Lalbaugh Junction, Mangalore City (2019)	Rs 0.10L/year approx 1986 onwards

## Subjects Taught

Subjects Currently Taught	Other Subjects Taught
<b>Transportation Engineering-I&amp;II</b> (Highways, Railways, Airports, Tunnels, and Harbours)	<b>Surveying II</b> (Levelling, Tacheometry, Trigonometric levelling, etc)
<b>Building Construction, Town Planning &amp; Architecture</b>	Environmental Engg. -II (water supply)
<b>Building Design and Drawing</b> (Foundations, Building Components, Residential & Public Buildings)	Rural & Urban Planning & Architecture
<b>Urban Transport Planning</b> (M.Tech)	Building Materials and Construction
<b>Traffic Flow Theory</b> (M.Tech)	Other Mandatory Learning Courses, drawing & lab. courses (Transp. Engg., Struc. Engg, Mat. Testing, Environ. Engg.)
<b>Evaluation by Students -&gt;</b>	<b>Excellent in Communication, Preparation, and Language</b>

## Lab/ Software Manuals Prepared to Facilitate Learning

Sl. No.	Title of Lab/ Software Manual	Period
1	A Computational Laboratory Manual on Linux for Beginners	2005-06
2	A Simple Guide to TRANSYT (Software) for Traffic Signal Design	
3	A Laboratory Manual on Use of Zond 12 e GPR - for MHRD-TAT Proj.	2005-06
4	A Simple Guide to Civil Engg. Materials Laboratory –I	2008-09
5	A Simple Guide to AutoCAD	2007-10
6	A Beginner's Guide to Cube 3.2 (2005-06)and update to Cube 6.0 (2013-14)	2005-14
7	A Beginner's Guide to VISSIM 6.00	2014-15
8	Lab Manual for Transportation Design Studio – for MTech Transportation Engineering	2022-23

## Soft-skills/ Knowledge in Use of Computers

OS/ Software	Main Feature of OS/ Software	OS/ Software	Main Feature of OS/ Software
<b>ORACLE SQL</b>	(SQL FORMS, SQL PLUS for RDBMS)	<b>PRISM - ZOND 12e GPR</b>	Image Proc. for Ground Probe Radar
<b>VPEXPERT</b>	An Expert System Shell Program	<b>SPSS</b>	Window-based Statist. Analysis App.
<b>Cube Voyager</b>	Urban Transp. Plang.- trained by CITILABS	<b>AUTOCAD</b>	Building Design & Drawing
<b>VISSIM</b>	Urban Transp. Plang.	<b>PLAXIS – 2D</b>	FEM Based Anal. For founds.
<b>TRANSYT-12</b>	Traffic Signal Optimization	<b>Gimp/ Avidemux</b>	Image and Video processing
<b>Mx-Roads</b>	Road Alignment, and Construction	<b>Wordstar / Lotus HTML/ Namo/FrontPage</b> (Web Dev.)	
<b>EasyNN Model</b>	Neural Networks	<b>Dos/ Win 3x,95/98/Me/ XP/ 7/ 8/ 10 LINUX-Basics</b>	

## Important Administrative Duties Performed for NITK and NITK Community / Institute Level

(Curriculum Development, Assistance in administration, Extra & Co-Curricular Activities, etc.)

Sl. No.	Administrative Duties	Duration
1	<b>Head of Department of Civil Engineering, NITK</b>	21 <sup>st</sup> Apr. 2017 to 20 Apr 2019
2	<b>Associate Dean</b> (Res. & Consul.) SIRO; SIP; NITK Res. Bul.; STTP; Tec. Dig. <b>Summer Internship Programs</b> (SIPs) at NITK (2010-13 Sep.) <b>Summer Teacher-Training Program</b> (STTP) at NITK (2010-13 Sep.) <b>Compiled SIRO (Scien. and Indus. Res. Orgs.) Doc.</b> (2010; 2012) <b>Compiled Technical Digest</b> on Research in NITK (2012) <b>Mem., India Innov. Labs</b> , for Real-Time Low-latency Img. Prosc. (2010-14) <b>Assisted in Framing of MOUs</b> between NITK & other Inst. (2010-13 Sep)	01-05-2010 to 06-09-2013 (3y 4m)
3	<b>NITK Coordinator, L&amp;T (BIS) Spons. M.Tech Pog. Constrn. Tech. &amp; Man.</b>	06-04-2023 to 29-04-2024
4	<b>Member of Faculty Recruitment Committee – Institute Level</b>	28-08-2024
5	<b>Editor NITK Research Bulletin</b> (Biannual Publication) + Cover Designing	2010 to 2013 Sep
6	<b>Editor &amp; Fac. Advisor - NEWS WAGON</b> - students' Club Magazine	2007-08
7	<b>Editor – Vitruvian</b> - NITK Students Annual Magazine	2004; 2006; 2009
8	<b>Editor of Convocation Bulletin, &amp; Designed Cover Graphics &amp; Layout</b>	2004; 2006; 2007 (Chairman); 2008; 2010;
9	<b>Member of Research Advisory Board, NITK</b>	2010 onwards
10	<b>IGNOU – Distance Education Counselor</b> (Indira Gandhi Nat. Open Univ.) Building Architecture (ET521B) Building Construction and Planning Traffic & Transpn. Engg. (ET505) Construction Management	2002 - 2008
11	<b>Estate Office &amp; Works - Faculty In Charge</b>	2008 (Jun-Jul)
12	<b>NBA Departmental Com. for UG/PG</b> – Vision/ Mission; Program Outcomes	2007-08; 13-14; 20-23;
13	<b>PMGSY Resource-Person</b> for Training Practicing Engrs. (Org. 12 Courses)	2003-05
14	<b>NITK Employees GPF Board Member</b> – Elect. Member	1990-93; 2003-06; 11-16; 16-19;
15-16	<b>TEQIP Phase I</b> Mem. of Com. for Monit. & Evaln. of MHRD Funded Proj. <b>Phase II</b> TEQIP Departmental Representv. for MHRD Funded Proj.	2004-08 2010-17 Mar.
17	<b>Departmental Academic Appeal Board – Nominated Member</b>	2010-17; 19-21; 21-22; 22-23;
18	<b>Judge for EngiConnect-2017: Science Exhibition &amp; Competition</b>	2017-18
19	<b>Organized FANTASTICITY</b> – Engineer - Inter Coll. Comp. on Town Plan.	2007-13
20	<b>Convocation Steering Committees/ Pub. Com. / Invitations</b> – Member	2006-14
21	<b>Incident Organizing Committee</b> – Mem. of Finance/ Kalakriti Committee	1998-2010
22-24	<b>NITK Consum. Coop Soc.</b> Secretary OM 10-08-2012 (Ref: NITK/DFW/OM- Con. Coop/2012/2348) Commit. for Perf. Eval. & Recruitmt. Mem. Board of Directors (Elected)	2004-2005 & 2005-07 2004-2005 & 2005-10 2012-13
25	<b>Formulation of Regulations</b> for NITK Deemed University	2002-03
26	<b>Dep. Representative for Working Group on Academics</b> for Implementation of the Recos. of the worksh. on Grading in Credit System at NITK (12-11-05)	2005
27	<b>Campus Ambience</b> Improvement Committee - Member	2004-05
28	<b>Tabulation of Marks</b> for University Examinations	2004
29	<b>Library Advisory Committee</b> - Member	2003-04
30	<b>Ring Presentation Committee</b> - Master of Ceremony	2003; 2007
31	<b>PARAM Super Computing</b> - Mem., Core Committee, KREC/ NITK	1999-2004
32	<b>Anti-Ragging Squad</b> – Member/ Convener	Member 2007-08; Convener 2009-15; 2017-19
33	<b>MIS Group of KREC</b>	1999-2004
34	<b>Stock Verification</b> of various Divisions/ Departments	1986-1992; 1998-2004; 2008
35	<b>Annual Elections</b> of Student Representatives – Mem. of Com.	1986 onwards
36	<b>NITK EngiConnect-2015 Judge</b> for Science Exhibitions & School Level Competitions at NITK	2015



## Details of Department Level Administrative and Leadership Capabilities Demonstrated

(Curriculum and Lab. Development, Assistance in administration, Extra & Co-Curricular Activities, etc.)

Sl. No.	Type of Responsibility	Period
1	<b>Time table-in-charge</b>	1990-94
2	<b>Faculty In-charge for Educational Tour</b> to Goa, Bombay/ Pune for V Sem BE	1990-91
3	<b>Convener for Class Committee for Teacher Evaluation</b>	1992-93
4	<b>Counseling services to U.G. students of Civil Engineering Dept.</b>	1999 onwards
5	<b>Restructuring U.G. syllabi:</b> Rural and Urban Plng. and Architecture      Building Constrn., Archit. & Town Plng. Transportation (Highways, Railways & Airports)      Surveying Building Design and Drawing      Architecture, Construction & Town-planning	1992; 2000; 2003; 2005; 2009; 2012
6-7	<b>New M.Tech Course</b> on Transportation Syst. Engg. - <b>Initiation &amp; Commencement</b> <b>Coordinator: Workshops on M.Tech Curriculum Revision</b>	1994 & 2003 2004-05
8-14	<b>Lab. Modernizn. &amp; New Labs</b> - <b>Departmental Comp. Center</b> – Lab Establishment - <b>Departmental Comp. Center</b> – Mem. Advis. Comm. - <b>Survey Lab</b> – Lab Modernization - <b>Transp. Engg. Lab.</b> for MTech – Lab. Establishment - <b>Transp. Engg. Lab.</b> for MTech – Software Procmnt. - <b>AutoCad Lab</b> for B.Tech - Lab Establishment Lab inaug. on 14th Sep 2015 at 9.45am by Prof. Swapan Bhattacharya (Director, NITK), Chief Guest, Mr. S. Ramkishore, (Head-Human res. ) L&T Chennai - <b>Transp. Design Studio and Comp. Lab.</b> Lab inaug. on 11th April 2019 at 4.00 pm by Prof. Uma Maheswara Rao (Director, NITK).	1999 onwards 1999-2003 1999 onwards 2003-04 2004-06; 2013-14 2014-20 onwards  2019-22
15	<b>Faculty In-charge of Labs:</b> • AutoCAD Lab Aug 2016 • Transportation Engg. Lab • Surveying Lab and Stores • Transportation Design Studio • Civil Dept. Computation Lab.	2014-16; 16-20 2004-08; 16-21 2000-06; 16-23; 23-25 2019-21; 21-23; 23-25 2019-21;
16	<b>Faculty Advisor</b> - M.Tech Transportation Engineering	2004-08; 12-15; 22-24
17	<b>Web Page Design</b> - Deptl. Web-page Design & Development – Rep. for Civil Dept. - Dev. of <b>NITK Web-Presentation Formats</b> – Rep. for Civil Dept.	2002-07 2003-04
18	<b>ISO 9001 Implementation</b> – Representative for Civil Dept.	2003-04
19	<b>INDEST Digital Library Users Group</b> – Representative for Civil Dept.	2003-06
20	<b>PMGSY Resource-Person</b> for Training Courses for Practicing Engineers	2003-05
21	<b>Civil Engineering Association</b> - <b>Faculty In-Charge &amp; Treasurer</b>	2004-05
22	<b>DPGC/ DUGC/ DRPC Member</b>	2004-17; 2019 onwards
24	<b>DAAB Secretary</b>	2019-21; 21-22; 22-23; 23-24;
25	<b>Coordinator: DST-PAC for Civil and Envi. Engrg. Projects</b>	2013-14
26	<b>NBA Accreditation &amp; Prep. of SAR for MTech:</b> Transp. Engg. <b>Coordinator:</b> Governance, Inst. Support, Financial Resources	2016-17
27	<b>NBA Accreditation &amp; Prep. of SAR – B.Tech:</b> Civil Engg. <b>Co-coordinator:</b> Prog. Curri. & Teaching-Learning Process	2020-22; 22-23
28	<b>HoD and Chairman of DUGC, DPGC, DRPC, and DAAB</b>	2017-19
29	<b>Chairman, Committee for Selection of Ph.D Candidates</b>	2021-22; 22-23
30	<b>Chairman, Committee for Selection of M.Tech ICCR Candidates</b>	2022-23;
31	<b>Chairman, Committee for Selection of M.Tech Self-financed Courses</b>	2022-23
32	<b>Coordinator, Committee for Safety, Hygiene, and Ambience</b>	2021-22; 23-24
33	<b>Exam. Monitoring Committee</b>	2021-22; 22-23; 23-24; 24-25
33	<b>Convener, Departmental Academic Audit Committee</b> for Preparation of Department Profile and Summary - See minutes of HoD's meeting 9th Sep 2019	2019
34	<b>Testing and Consultancy Activities</b>	1986 Onwards
35	<b>Continuing Education Progs.</b> for CCE, Seminars, & Workshops	1986 Onwards
36	<b>Preparation of Reports</b> for MHRD, AICTE, Karnataka Gov., NBA, etc.	1986 Onwards
37	<b>Question paper setting and Eval.</b> (NITK, M'lore, B'lore., Goa Karunya, Calicut Utys)	1986 Onwards

### Guidance of Ph.D Dissertations (8 Completed)

Sl. No.	Thesis Title	Name of Research Scholar & Roll No Date of Submission & Defense	Duration
1.	Studies on Strength and Stiffness Characteristics of <b>Laterite Soils</b> for Pavement Subgrades	Nageshwar Rao – 05075CV05F02 Sub. 16-07- 2008; Def. 03-11-2009	2005-08
2.	Experimental Investigations on the Properties and Development of Design Guidelines for <b>Porous Friction Course</b> Mixes	SN Suresha - 040704CV04P03 Sub. 27-10- 2008; Def. 18-01- 2010	2004-09
3.	Investigations on <b>Accelerated Consolidation of Coir Reinforced Laterite, Lithomargic Clay, and Blended Soils</b> with Vertical Sand Drains for Pavement Foundations	Rama Krishna Hegde - 040866CV04P06 Sub. 30-10-2012; Def. 07-06- 2013	2004-12
4.	Studies on <b>Modulus of Resilience of Lateritic Soil</b> Blends Using CBR, DCP, PFWD, and <b>Cyclic Tri-Axial</b> Tests, with <b>FEM Based Analyses</b> on Dynamic Loading	Anil Kumar - 110647CV11P01 PreSn. 12-10-2017; Sub. Dec 2017; Def. 17-05-2018	2011-18l
5.	Application of <b>Electronic Ticket Machine Data for Analysis</b> and Forecasting of <b>Bus Transport Demand</b> (As Co-Guide with Dr. Raviraj H. Mulangi)	Anila Cyril 155100CV15F02 Sub. 11 <sup>th</sup> Jun 2019; Def. 19 <sup>th</sup> Oct 2019	2013 -19
6.	<b>Calibration of Vehicle and Driver Characteristics for V/SSIM Model</b> , ANN-Based Sensitivity Analysis, Traffic Management, and Signal Design Using GA for Mangalore City	Marsh M. Bandi 138005CV13F06 Sub. 20 <sup>th</sup> Dec 2020; Def. 29 <sup>th</sup> Oct 2021	2013-21
7.	<b>Deriving Trip Matrix</b> Using Statistics and <b>Machine Learning</b> Based on Sparse Revealed Preference Data and <b>Modeling Modal Split and Mode Choice</b>	Akash Anand 148013CV14F12 Sub. 05/12/22// 19/10/23; Def. 17 <sup>th</sup> Apr 2024	2014 -24
8.	Efficiency and Effectiveness Studies for <b>Performance Evaluation in Public Transport Systems</b> (As main-Guide with Co-Guidance from Dr. Raviraj H. Mulangi)	Praveen Kumar 197081CV012 Sub. 28/11/23; Def. 20 <sup>th</sup> Sep.2024	2019-24

### Guidance of M.Tech Dissertations & Design Projects (79 Completed)

Sl. No.	Thesis Title	Name of Research Scholar & Roll No.	Duration
1	Prediction of Flexible Pav. Perf. by Artificial Neural Network	T.K. Gangadhara (9994521)	2000-01
2	Study on Bearing Capacity of Shedi Soil Using Geogrids and Geo-composites	K. Babu Mahesh (0086622)	2001-02
3	Studies on accelerated consolidation and CBR Tests on Randomly Distributed Fiber Reinf. Soil Using Natural Geotextiles	N. Madhu (0221630)	2003-04
4	Preliminary Studies on Genetic Algorithm and Apps. in Soil Eng.- <b>Design Project</b>	P.C. Naveen	2002-03
5	A Genetic Algorithm Approach to Bishop's Method of Slope Stability Analysis	B.R. Sreeharsha (0322628)	2004-05
6	Trip Generation and Distribution Studies for the City of Bangalore Using SPSS and the Gravity Model Approach in Cube Voyager	Ilango T. (04TS03)	2005-06
7	Trip-End Modal Split Analysis using Binary Choice Logit Model for Home-based Trips for the City of Bangalore	Afzal Hingora (04TS02)	2005-06
8	Studies on Nondestructive testing of Urban and Rural Roads using Ground Probing Radar, and Falling Weight Deflectometer	Vivek J. Vazhathara (04TS05)	2005-06
9	Production Constr. Gravity Modeling for Trip Distrib. for the Shortest Paths for Three Major Regions of Bangalore Using SPSS and CUBE and Scripting for Modal Split	U. Rama Subrahmaniam (05TS03F)	2006-07
10	Studies on Traffic Signal Design, and Implementation of Coordinated Signaling System for Three Major Junctions of Mangalore City Using <i>Transyt-12</i>	Hemanth K.R. (05TS01F)	2006-07
11	Studies on Portable Falling Weight Deflectometer and Dynamic Cone Penetrometer for Sub-grade Evaluatn.	Vishveswara A.S. (05GT07F)	2006-07
12	Doubly Constrained Gravity Modeling with Modified Tanner's Function, and Exponential Models for Trip Distribution for Three Regions of Bangalore Using SPSS and CUBE	Amit Srikanth Mahendrakar (06TS03F)	2007-08
13	Studies on Strength and Stiffness Characteristics of Laterite Soil Mixed with Silty Fines	Arunkumar A. (06TS01F)	2007-08
14	Studies on Webster's Approach to Design of Two and Three Phase Isolated Traffic Signals for Mangalore City using Genetic Algorithm and C-Programming	P.B. Gnanamurthy (06TS09)	2007-08
15	Studies on Accel. Settlement of Laterite Soil Embankments using Vertical Drains and Coir Reinforcement	Dwarika Gotamey (07TS16F)	2008-09
16	Logit Based Modal Split Studies for Three Major Regions of Bangalore City Using <i>Cube</i> Software	Praveen Reddy Y. (07TS11F)	2008-09
17	Dev. of Trend Prediction and Impact Analysis Modules for STU Databases using RDBMS and Exp.t Sys.	Reshma E.K. (07TS12F)	2008-09

18	Green Buildings and Leed Certification – <b>Design Project</b>	Mithun B. (08CM08F)	2008-09
19	A Model Study on Accel. Consol. of Coir Reinf. Laterite and Blended Shedi Soil with Vertical Sand Drains for Pav. Foundns.	Santhosh G (08TS11F)	2009-10
20	Studies on Accelerated Consolidation of Coir Reinforced Laterite and Shedi Soil with Vertical Sand Drains for Pav. Foundns.	Durga Prasanth L. (08TS03F)	2009-10
21	All-or-Nothing Based Trip Assignment for Home Based Trips Using <i>CUBE</i> Software Interfacing <i>AutodeskMap</i> Files for Bangalore City	Ragi C Ravindran (08TS09F)	2009-10
22	Design of Highway Alignments and Their Comparisons Using <i>MxRoad</i> for Digital Survey Data Compiled in <i>AutoCAD</i>	Arya R. Nair (08TS02F)	2009-10
23	A Model Study on Accel. Consol. of Coir Reinf. Lateritic Lithomarge Soil Blends with Vertical Sand Drains for Pav. Founs.	Nirmal Kumar AG (09TS18F)	2010-11
24	A Model Study on Accel. Consol. of Coir Reinf. Lithomargic Laterite Soil Blends with Vertical Sand Drains for Pav. Foundns.	M Vishnuvardhana (09TS11F)	2010-11
25	Optimizing Bus Transport Services to Integrate Rail Passenger Transfers - A Case Study of Trivandrum City (Co-Guide: Dr. T. Elangovan, NATPAC)	Kizhakkooden Ajith Mohanan (10TS11F)	2011-12
26	Route Choice Behaviour and Value of Travel Time Reliability: A Case Study of Commuters in Urban Arterial Roads of Delhi (Co-Guide: Dr. Ch. Ravi Sekhar, CRRI)	Athira S.S. (10TS01F)	2011-12
27	Micro-Simulation based Driving Cycle Analysis and Emission studies for a Sustainable Transport System (Co-Guide: Dr. Ravindra Kumar, CRRI)	Devi S. (10TS04F)	2011-12
28	An ANN-SPSS Based Approach to Dev. of Refined Free Speed Models and Updating of Vehicle Operating Costs (Co-Guides: Dr. S. Velumurugan & Dr. E. Madhu, CRRI)	Divya Mohandas K (10TS06F)	2011-12
29	Investigns. on Warm Mix Asphalt Prepared Using a Low Cost Chemical in Place of <i>Asphamin</i> , and Comparisons with Hot Mix Asphalt	Faris Aswad Kokaz (10TS08F)	2011-12
30	Eval. of Improv. in Road Geom., and Transp. Infrastr. along an Urban Road Corridor, using <i>VISSIM</i> : A Case Study of Lucknow City (Co-Guide: Shri. Subhash Chand, CRRI)	Liben Varghese Babu (10TS13F)	2011-12
31	Evaluation of Roadway Capacity for 4-lane and 6-lane Highways Using Microscopic Traffic Simulation in <i>VISSIM</i> (Co-Guides: Dr. S. Velumurugan & Dr. E. Madhu, CRRI)	Rahul Sudarsan (10TS22F)	2011-12
32	Multinomial Logit and Nested Logit Models for Integr. Studies on Vehicle Ownership, and Mode Choice for Amritsar using Biogeme and Nlogit Based on <i>RP</i> Data (Co-Guide: Dr. MR Tagore, MVA-SYSTRA)	Rohini V. Kanthi (10TS23F)	2011-12
33	Air Pollution Modeling Using ADMS-Urban and SPSS (Co-Guide: Dr. K. Ravinder, CRRI)	Sanoop Chandran. C (10TS24F)	2011-12
34	Multinomial Logit Modal Split Model Using Cube, All or Nothing Assign., and Impact of Conges. Pricing for Trivandrum City (Co-Guide: Dr. T. Elangovan, NATPAC)	Aparna G. Krishna (11TS02F)	2012-13
35	Implementation of Road Investment Decision Software for Economic Eval. of Multilane Highways in India using <i>VISUAL BASIC</i> (Co-Guide: Dr.S.Velmurugan, CRRI)	Bijesh R. (11TS03F)	2012-13
36	Laboratory Analysis of SMA and Dense Bituminous (BC) Mixes Using Asphalt Mixture Performance Tester (AMPT) (Co-Guide: Dr.Devesh Tiwari, CRRI)	Deepak John Peter (11TS07F)	2012-13
37	A Micro-Simul. Based Perf. Eval. of Traffic Corridor from IIT Junction to NH-8 Entrance New Delhi, Using <i>VISSIM</i> and <i>VISUM</i> (Co-Guide: Dr.M.R.Tagore, MVA-Systra)	Harishkumar N. Jadhav (11TS09F)	2012-13
38	Methodology For Assessing Social, Economical and Environmental Effects of Public Transportation Systems (Co-Guide: Dr. E. Madhu, CRRI)	Pramod P. Bhaskar (11TS18F)	2012-13
39	Estimation of Idling Fuel Consumption at Signalized Intersections in Ahmedabad, using <i>VISSIM</i> (Co-Guide: Dr. Ch. Ravisekhar and Dr. Purnima Parida, CRRI)	Pranoy S. Raj (11TS19F)	2012-13
40	Modal Split Studies for Trivandrum City Using Sequential Binary Logit App. in <i>Cube</i> for Pub. Modes and Various Types of Pvt. Modes (Co-Guide: Dr. T. Elangovan, NATPAC)	Praveen Kumar P. (11TS20F)	2012-13
41	Multinomial Logit Modeling for Modal Split of Trivandrum City Using <i>Cube</i> , and Studies on the Intro. of PRT for Various Fare Systems (Co-Guide: Dr. T. Elangovan, NATPAC)	Priya V.M. (11TS21F)	2012-13
42	Studies on Properties of Lateritic and Lithomargic Soils, and Test on Horizontal and Vertical Seismic Vibrations on an Embankment Model Using a Modified Shake Table	Rakesh Verma (11TS22F)	2012-13
43	Location and Layout of Bus and Truck Term. for Enhanced Connectivity and Improved Intermodal Transport at Kalamassery, Cochin (Co-Guide: Dr. T. Elangovan, NATPAC)	Sruthi S. (11TS25F)	2012-13
44	Investigations on Warm Mix Asphalt Prepared Using ZycoTherm, and Comparisons with Hot Mix Asphalt -	Sharon Jacob (12TS20F)	2013-14
45	Investigations on Gen. Properties of Pure Lateritic and Pure Lithomargic Soils, Resilient Modulus, and Ana. of Stresses and Deformations on Embankments Using Plaxis-2D	Naveen B (12TS12F)	2013-14
46	Studies On Gen. Properties of Lateritic and Lithomargic Soil Blends, Resilient Modulus, and Analysis of Stresses and Deformations on Embankments Using Plaxis-2D	Shriram P. Marathe (12TS22F)	2013-14
47	A Micro-simulation Based Study of Coordinated Signaling System, and Long-term Improvements, and Study of Speed-flow Relationship for Mangalore City Using <i>VISSIM</i>	Akash Anand (12TS01F)	2013-14
48	Studies on Micro-Simulation Based Analysis of Coordinated Signaling System, Short-Term Improvements, and Speed-Flow Relationship for Mangalore City Using <i>VISSIM</i>	Chandni J. Basu (12TS07F)	2013-14
49	Studies on Trip Distribution Using Graphic Capabilities of Cube 6.0 for Trivandrum City with Modified Cubic and a Modified Tanner's Model, with Iterative K-Factor Adjustment	Shilpa S.S. (12TS21F)	2013-14
50	Investigations on Trip Distribution Using Graphic Capabilities of Cube 6.0 for Trivandrum City with Modified Cubic and an Alternative Tanner's Model, with Iterative	Manasa Kalani N.H. (12TS11F)	2013-14



	K-Factor Adjustment		
51	Studies on Trip Distribution Using Graphic Capabilities of <i>Cube 6.0</i> for Trivandrum City with Refitted Cubic, Gamma Model, and Tanner's Model-B, Incorporating Artificial Travel Times Iteratively, along with K-Factor Adjustment	Athira Renchen (13TS04F)	2014-15
52	Investigations on Trip Distribution Using Graphic Capabilities of <i>Cube 6.0</i> for Trivandrum City with Refitted Cubic, Gamma-1, and Tanner's Model-A, Incorporating Artificial Travel Times Iteratively, along with K-Factor Adjustment	Vinodini G. (13TS25F)	2014-15
53	<i>VISSIM</i> Based Micro-simulation Study of Coordinated Signaling System, Short-term and Long-term Improvements for Bendoorwel Junction and Study of Speed-flow Relationship for Mangalore City	Aida Isac P. (13TS01F)	2014-15
54	A Micro-simulation Based Study of Coordinated Signaling System, Short-term and Long-term Improvements for Bunt's Hostel Circle, and Study of Speed-flow Relationship for Mangalore City Using <i>VISSIM</i>	Dilip Kumar P. (13TS15F)	2014-15
55	Investigations on Trip Distribution Using Revised Friction Factors for Various Models, Modified Hierarchical Logit Modal Split, and Equilibrium Trip Assignment with Looping in <i>Cube 6.0</i> for Trivandrum City	Ranjusha P.G. (14TS15F)	2015-16
56	Studies on Trip Distrib.Using Revised Friction Factors for Various Models, Nested Logit Modal Split, and Equilibrium Trip Assign. with Looping in <i>Cube 6.0</i> for Trivandrum City	Purumala Snehith (14TS14F)	2015-16
57	A Simulation Study of Setting Priority Rules, Signals and Coordination, Vehicular Manoeuvring on Gradients, Flow Analysis for Homogeneous and Heterogeneous Traffic, and the use of a Flyover Connecting PVS and Jyothi using <i>VISSIM</i>	Ishan S. Tamhane (14TS22F)	2015-16
58	<i>VISSIM</i> Based Simulation on Signals, and Coordination, Setting of Priority Rules, Vehicular Manoeuvring on Gradient Sections, Flow Analysis for Homogeneous and Heterog. Traffic, and the use of a Flyover Connecting Kankanady and St. Theresa	Sreeja Reddy (14TS13F)	2015-16
59	Investig. on Modal Split Modeling in <i>Cube</i> Using Binomial, MNL, and MHL Models for Pvt. and Pub.Modes Based on ANN-Refined Noisy RP Data for Amritsar City	Hithesh Kumar P.J. (15TS11F)	2016-17
60	Studies on Modal Split Using Binomial, MNL, and MHL Models for Motorized and Non-Motorized Modes Using <i>Cube</i> Based on ANN-Refined RP Data for Amritsar	Saysardar Kaustubh Ganeshrao (15TS22F)	2016-17
61	Exploring Mode Choice Strategies for Amritsar in <i>Cube</i> Using Binomial, MNL, and HL Models for Private and Public Trips on ANN-Refined Partially Inaccurate RP Data	Padmashree M.S. (15TS16F)	2016-17
62	Modal Split Modeling for Amritsar Using Binomial, MNL, and HL Models for Motorized and Non-Motorized Modes Using <i>Cube</i> , Based on ANN-Refined Revealed Pref. Data	Shilpa R. Nair (15TS24F)	2016-17
63	Modeling Veh. Ownsp. and Mode Choice Using MNL and NL Models, and the use of Single Level Nested Model for Pvt., Para-Transit, Pub. Modes, and School Bus Trips	Surabhi prabhakaran K. (16TS22F)	2017-18
64	The Implementation of MNL and NL Models on Vehicle Ownership and Mode Choice, and the use of Multi-Level Nested Model for Private, Para-Transit, and Public Modes	Navjot V. (16TS19F)	2017-18
65	Study of MNL, and NL Models for Vehicle Ownership and Mode Choice and the use of Single Level Nested Model for Private, Para-Transit, and Public Modes	Anusha K. (16TS04F)	2017-18
66	Modeling Trip Distribution Using Linear, Quadratic, and Gamma Functions for Friction Factors and Interfacing to Cube-PTSKIMS for Mangalore City	Swapnil Ashok Shrivastava (172044-172TS023)	2018-19
67	Studies on Modeling of Trip Distrib. Using Cubic, Exponential, and Gamma Functions for Friction Factors and Interfacing to Cube6.0 for Modal Split for Mangalore City	Prashant Chouhan (172207-172TS016)	2018-19
68	Regression Vs ANN Modelling for Trip Distribution Using Data Extracted from RP Database, Modal Split Modelling in <i>Cube</i> , and Nested Logit Mode Choice Analysis	Diptan Sinhabarma (182015-182TS009)	2019-20
69	Studies on Trip Distribution Using ANN and Regression Models Using Data Extracted from RP Data, Modal Split Modeling in <i>Cube</i> , and Multinomial Logit Mode Choice Anal	Tanusha Kakumanu (182084-182TS012)	2019-20
70	Regression and ANN Approaches for Production-based Gravity Model Using A Refined RP Dataset, Modal Split Modeling, and MNL Based Discrete Choice Modeling	Abhiram M.P. (192268-192TS001)	2020-21
71	Studies on Regression and ANN Approaches for Attraction-Based Gravity Model Using a Refined RP Dataset, Modal Split Modeling, and NL Based Disr. Choice Modlg.	Vaishali (192253-192TS028)	2020-21
72	Identification of Key Performance Indicators Using TOPSIS and Evaluation of Public Transport Organizations in India Using DEA, a Non-Parametric Approach	Ashish Chandra (202519-202TS005)	2021-22
73	Determination of Key Performance Indicators Using AHP and Evaluation of Public Transport Organizations in India Using SFA, a Parametric Based Approach	Akash S. Khandri (202510-202TS002)	2021-22
74	Determination of Key Performance Indicators Using the PCA and RFE Methods and Route-level Analysis of Effectiveness Using DEA with R Studio, and MySQL	Mamta Makode (2120311-212TS021)	2022-23
75	Identification of Key Performance Indicators Using the PCA and RFE Methods and Route-level Analysis of Efficiency Using DEA with R Studio, and QGIS	Praveen M.P. (2120199-212TS025)	2022-23
76	Investigations on Efficiency and Effectiveness of Bus Transport Organizations Using MCDM: AHP, Fuzzy AHP, TOPSIS, PROMETHEE, and Fuzzy PROMETHEE	Nitesh Kumar Khalthia (2220330-222TS024)	2023-24
77	Studies on Efficiency and Effectiveness of Bus Transport Organizations Using MCDM: AHP, Fuzzy AHP, Fuzzy TOPSIS, VIKOR and Fuzzy VIKOR	Naveen Chauhan (2220132-222TS022)	2023-24
78	Investigations on Evaluation of Bus Transport Organizations and Employees Using TOPSIS and VIKOR with Criteria Weights Assigned USING AHP and ANP	Anuj Kumar Shukla (2320220-232TS006)	2024-25
79	Performance Evaluation of Bus Transport Organizations and Employees Using Fuzzy TOPSIS and Fuzzy VIKOR with Criteria Weights Assigned Using AHP and ANP	Pulkit Sharma (2320318-232TS024)	2024-25

### Guidance of B.Tech Dissertations (15 Completed)

Sl. No.	Thesis Title	Names of Students	Duration
1	Software Development for Trip Distribution Models in Urban Transport Sys. Planning	Abhijit Shome, Jacob Balaratnam, Paban Terang, Saran Pradhan	1989-90
2	Neural Network Application in Pavement Performance Evaluation	Krishna Acharya (9891307) Pradeep S. Rao (9891392) Tandon Neha Dilip Kumar (9891406)	2001-02
3	Application of Relational Database Management Systems in Traffic Eng.	Guruprasad Karnik (0193392) Manu Venugopal (0193401) S. Madhavan (0193476) Siddhartha Chowdhary (0193359)	2004-05
4	Application of Dijkstra's Algorithm for Shortest Path for Bangalore City Network and Development of a Cost Effective AUTOCAD-Based GIS Tool Interfacing AutoLisp and C++	Swaroop H (0221342) Arun Shankar (0221151)	2005-06
5	Low Cost Housing Constn. and Nirmithi Kendra - <i>Btech Mini Proj.</i>	Eshita Jha (04CV12)	2007-08
6	GIS and GPS Applications in Transportation Engineering, Surveying, and Urban Planning - <i>Btech Mini Proj.</i>	Febin Babu Mathew (04CV13)	2007-08
7	Planning and Constn. Details of Loni Flyover - <i>Btech Mini Proj.</i>	Julian J. Gonsalves (04CV14)	2007-08
8	Study on Susp. Bridges and Des. of Two-Hinged Susp. Bridges	Akash Veershetty (07CV07)	2010-11
9	Studies on Sustainable Low Cost Construction Techniques for Kerala and Karnataka and LEED-Rated Buildings	Antony Justin (10CV07) Mohammed Ali Fasil (10CV38) Pratish Modi (10CV61)	2013-14
10	Study on Town Planning Aspects of Mysore City, Projections for Future Growth and Proposals for 2021- BTech Mini Proj.	Girish Kumar (11CV23) R. Manoj Raghav (11CV59) S.K.Deepak (11CV71)	2014-15
11	Cost Effective Construction and Works of Famous Architects- BTech Mini Proj.	Akshata Vastrad (14CV106) Prerana Krishnaraj (14CV140) Punnya Sreekumar (14CV142)	2016-17
12	A Study on Town Planning Aspects of Selected Cities in India	Vrunda Kulkarni (17CV151) Preeti Kalloli (17CV131)	2017-18
13	Studies on Temple Architecture in Badami, Aihole, and Pattadakal with Extended Investigations on Low Cost Construction Techniques	Harshit (15CV218) Nitin Kumar (15CV229) Sahana U.N. (15CV239)	2018-19
14	Studies on Applications of STAADPro in Design of RCC Structural Components (7-8 Sem)	Amit Kumar (201CV105) Anas Aijaz (201CV107) Kumar Rahul Kashyap (201CV129)	2023-24
15	3D Modeling of a Residential Building Using AutoCAD2024- BTech Mini Proj. (6 <sup>th</sup> Sem)	Abrar M.P. (211CV101) Anil Gedilla (211CV207) Suraj Kumar Sharma (211CV251) Pranav C. Pawar (211CV239)	2023-24

### Guidance of B.Tech Students in Paper/ Model Competitions and Awards Won

Sl. No.	Thesis Title	Names of Students	Duration
1	Geographic Inf. System in Transportation Engineering (Awarded First Prize for the Best Paper at the TECHNOKREC Intercollegiate Paper Contest organized by KREC, Surathkal)	Smitha Pai, & Nisha Mohanan	2002-03
2	Modeling Flyovers and Road Intersections	Ann. B.Tech Model Compt.	2003-04
3	Model Building using Low Cost Materials (Awarded First Prize at IIT Chennai Intercollegiate Competition)	Pavana Prabhakar & Savishes	2005-06
4	Average Trip Distrib. in Urban Transport (Awarded Sec. Prize at IIT Chennai intercollegiate Competition)	Veena Swaminathan, and Saurav	2010-11

### Important Invited Guest Lectures Delivered

Sl. No.	Title of Lecture	Organizers & Venue	Period/ Date
1.	Structural Design of Highways– Ref. Co. on Survey, Tranp. Env. Eng. for D.K. Zilla Parishad Engrs.	CCE-CED, KREC, Surathkal	23-09-90 to 27-09-90
2.	Ready-mixed Concrete - Ref. Course on Concrete Mix Design and Recent Trends for D.K. Zilla Parishad Engrs.	CCE-CED, KREC, Surathkal	22-04-91 to 24-04-91

3.	Traffic Safety and Transport Planning: General Aspects	DC's Office, Mangalore by Traffic Police Dept, & Rotary Club	1998
4.	Architecture, Building Construction, and use of Ferro Cement for Low Cost Building Constrn.	Refr. Course on Low Cost Housing, CCE-CED, KREC, Surathkal	04-09-2k to 08-09-2k
5.	Fuel Economy, Vehicle Pollution Control, and Traffic Safety	KPT, Mangalore by Traffic Police Dept. & Bus Owners Assn.	22-11-2001
6.	<b>Radio Talk</b> (All India Radio, Mangalore) on Vehicle Maintenance, Fuel Savings, and Pollution Control	AIR, Mangalore	09-01-2002
7.	Effective Teaching and Motivation	KRECTA, KREC, Surathkal	February 2002
8.	Traffic Management and Vehicle Pollution Control	Govt. Pre Uty. Col., Madikeri by Traffic Police Dep. & Sup. of Police.	16-06-2002
9-17	Pavement Failure and Maintenance <b>(9 Lectures)</b> 02-10-03 to 07-10-03    05-10-04 to 11-10-04 12-07-04 to 17-07-04    06-12-04 to 11-12-04 02-08-04 to 07-08-04    10-01-05 to 15-01-05 16-08-04 to 21-08-04    17-01-05 to 17-01-05 20-09-04 to 25-09-04	As part of the PMGSY program for practicing engineers on <i>Design, Construction, and Maintenance of Rural Roads</i> , conducted by NRRDA, and CCE-CED, NITK Surathkal.	See Dates Given in Col. 2.
18-29	Geometric Design for Rural and Urban Roads & Traffic Survey <b>(12 Lectures)</b>	“ “ “	Dates as in Sl. No. 9-17 plus 17-04-06 to 22-04-06 24-07-06 to 29-07-06 31-07-06 to 05-08-06
30-39	Traffic Management & Road Drainage <b>(10 Lectures)</b>	“ “ “	Dates as in Sl. No. 9-17 plus 17-04-06 to 22-04-06
40-43	Design of Road Links for Safety Design of Road Junctions for Safety Accident Investigation and Prevention Counter Measures for Hazardous Locations <b>(4 Lectures)</b>	<i>3 Day User's Workshop under the Road Safety Training Project-UW8</i> as part of NHAI sponsored by ICT held at Errum Manzil, Hyderabad	21-11-05 to 23-11-05
44-47	Design of Road Links for Safety Design of Road Junctions for Safety Accident Investigation and Prevention Counter Measures for Hazardous Locations <b>(4 Lectures)</b>	<i>3 Day User's Workshop under the Road Safety Training Project-UW9</i> as part of NHAI sponsored by ICT held at Errum Manzil, Hyderabad	24-11-05 to 26-11-05
48-49	Geometric Design and Safety – I Geometric Design and Safety – II <b>(2 Lectures)</b>	<i>1 week CCE Prog. for PWD Engineers, Spon. KERS, Mysore</i>	08-01-07 to 12-01-07
50.	GIS and GPS Applications in Transportation Engineering, Surveying, and Urban Planning	<i>“Principles of GIS” 5-day CCE Prog. at App Mech. Dept., NITK for PWD Engrs. Spon. KERS, Mysore</i>	19-11-07 to 23-11-07 (21-11-2007)
51.	Green Buildings: Architecture with Sustainable Design Requirements	AICTE Spons. STTP on Enabling Tech. in Energy and Man., Electrical Engg. Dept. on 22-08-2008.	11-08-08 to 22-08-08
52.	Urban Public Transportation in India	Texas Transportn. Inst., Texas A&M Uty. College Station, Texas, USA	04-12-2008
53-57	Road Safety in India - An Overview and RSA: Intro. & Methodol. Speed and Hazard Management Road Safety Audit Checklists: Planning, and Design Stages Road Safety Audit Checklists: Development and Const. Stages Importance of Safety and Pavement Evaluation <b>(5 Lectures)</b>	“Training on Traffic and Work-zone Safety Audit”, Org. by NHAI, HAKS Engrs and Architects, & InfoTrans Engrs Pvt Ltd, Road Safety Consul. for 4/6 lane PPP Projects of Tamilnadu, Kerala, and Karnataka, at Hotel Plaza, <b>Coimbatore</b>	24-02-11 to 26-02-11
58-62	Road Safety in India - An Overview and RSA: Intro. & Methodol. Speed and Hazard Management	“Training on Traffic and Work-zone Safety Audit”, Org. by NHAI, HAKS Engrs and Architects, & InfoTrans Engrs Pvt Ltd, Road Safety Consul. for 4/6 lane PPP Projects of	28-02-11 to 01-03-11

	Road Safety Audit Checklists: Planning, and Design Stages Road Safety Audit Checklists: Development and Const. Stages Importance of Safety and Pavement Evaluation <b>(5 Lectures)</b>	Tamilnadu, Kerala, and Karnataka, at Hotel Ambika Intl., <b>Chennai</b>	
63-66	Road Safety in India - An Overview and RSA: Intro. & Methodol. Speed and Hazard Management Road Safety Audit Checklists: Planning, and Design Stages Road Safety Audit Checklists: Development and Const. Stages <b>(4 Lectures)</b>	"Training on Traffic and Work-zone Safety Audit", Org. by NHAI, HAKS Engrs and Architects, & InfoTrans Engrs Pvt Ltd, Road Safety Consul. for 4/6 lane PPP Projects of Tamilnadu, Kerala, and Karnataka, at Hotel Holiday Palms, <b>B'lore</b>	03-03-11 to 05-03-11
67	An Introduction to Research and Consultancy at NITK	Orientation Prog. for Freshers - MTech, MCA, B.Tech (2011-12) at Silver Jubilee Audit., NITK, Sur.	21-07-2011
68	An Introduction to Highway Geometrics	<b>Keynote address</b> at the Inauguration of <i>SRISHTICA</i> - Civil Engrg. Stud. Chap., Srinivas Col. of Engrg., Mang.	18-08-2011
69	An Introduction to Urbanization and Climate Change	<b>Keynote address</b> on the occasion of the World Habitat Day", Vivekananda Col. Of Engrg., Puttur, Mangalore, Org. by Inst. of Engrs., Mangalore.	03-10-2011
70	<i>Effects of Urbanization, Impact on Urban Transport Systems in Developing Countries, and Sustainability Issues</i>	<b>Keynote Address</b> at Nat. Workshop on <i>Civil Engrg. Challenges in 21<sup>st</sup> Cen.</i> (CEC21-2014), Org. by Dept. of Civil Engrg., Moodabidri Inst. of Tech. & Engrg., Mangalore	21-22 Feb 2014
71	Sustainability Issues in Urban Transport and Highway Engineering in India, and NITK Research Perspectives	<b>Session Address</b> at Intl. Workshop on Civil Infrastructure and Structural Materials, Org. by Dept. of Civil Engrg., & TEQIP-NITK	28-29 Jul 2014
72	Introduction to Traffic Engineering and Road Safety	<b>Lecture</b> for Road Safety Week, at NITK Surathkal, Org. by NITK English Med. High School	19 <sup>th</sup> Jan 2015
73	Presentation on "The Department of Civil Engineering"	<b>Lecture</b> at the Departmental Orientation Prog., at CED, NITK	29th Jul 2016
74	Role of TEQIP in NITK, and Highlights of the Department of Civil Engineering	<b>Lecture</b> as Chairperson for the 10 <sup>th</sup> Intl. Symp. on Lowland Tech. (ISLT-2016) Org by Intl. Ass. of Lowland Tech. (IALT)	15-16 Sep 2016
75	Project Based Learning and Advantages	<b>Lecture</b> as Chief Guest for Valedictory for "TechVision 2017 (Proj. Competition)", Org. Sahyadri Col. Of Engrg. & Mangmt., Mangalore	16th May 2017
76	Presentation on "The Department of Civil Engineering"	<b>Lecture</b> at the Departmental Orientation Prog. at CED, NITK	29th Jul 2017
77	Recent Trends in Highway Pavements Design and Highway Geometrics	<b>Lecture</b> for Practicing Engrs. of Karnataka PWD, Sponsored by Engrg. Staff College, Krishnarajasagara, Org. by CEP, and CED, NITK at NITK	11-15 Sep 2017
78	"Sustainable Multimodal Transport for Indian Cities"	<b>Lecture</b> at the Intl. Workshop on Dev. of Sust. Smart Cities: Perspectives on Engrg. Challenges (DoSS-PEC-2018), Org. by Mang. Ins. of Tech. and Engrg., Moodabidri.	03-04 Jan 2018
79	"Vernacular Architecture"	<b>Lecture</b> at the, Int. Conf. on Sustainable Constructions and Building Materials (ICSCBM-2018)	18-22 Jun 2018
80	"Road Safety and Rural Roads"	<b>Lecture</b> at NITK, Surathkal, as part of the CEP (Cont. Edu. Prog.) on "Low Cost Housing and Rural Roads"	07-11 Jan 2019
81	"Road Safety Audit"	<b>Lecture</b> at NITK, Surathkal, as part of the CEP (Cont. Edu. Prog.) on "Low Cost Housing and Rural Roads"	07-11 Jan 2019
82	"Traffic Safety and Road Geometrics"	<b>Lecture</b> at NITK, Surathkal, as part of the CEP (Cont. Edu. Prog.) on "Design, Const., and Maint. of All-Weather Roads"	14-18 Oct 2019
83	"Road Safety Audit"	<b>Lecture</b> at NITK, Surathkal, as part of the CEP (Cont. Edu. Prog.) on "Design, Const., and Maint. of All-Weather Roads"	14-18 Oct 2019
84	Sustainable Urban Transport: Issues and Challenges in Developing Economies and the GCC	3 <sup>rd</sup> Online Int. Conf. on Engrg. Challenges in Gulf Countries, Org. Ins. of Engrs. India – Kuwait Chapter & Kuwait Ins. for Scien. Res.	22 Jan 2021
85	"Importance of Four-Stage Trans. Plng." <a href="https://www.youtube.com/watch?v=7zHdDJ9qyNs">https://www.youtube.com/watch?v=7zHdDJ9qyNs</a>	<b>Resource Person</b> in AICTE Training And Learning (ATAL) Acad.-Online-FDP on "India's Strategic Transp. Infra. Dev. Proj. & Progs", at NITK	16-20 Aug 2021



### Conferences, Conventions, Workshops, ISTE-AICTE Summer Schools/ Training Courses Organized

No.	Title	Organizers & Venue	Period
1	Member of the Transportn. Com. for XXIII An. Conven. of ISTE	KREC, Surathkal	26-12-93 to 28-12-93
2	Chairman of the Registration and Reception Committee, Internat. W/s on <i>Impact Eval. and Analysis of Transportn. Projects in Developing Countries</i> (IEATP-94)	IIT, Bombay.	13-12-94 to 16-12-94
3	Chairman, Regis.. & Recep. Com., Intl. W/s on <i>'Transport Planning &amp; Man. in Developing Countries'</i> (TPMDC-96)	IIT, Bombay	04-12-96 to 12-12-96
4	Coordinator, W/s on <i>'Decision Support System for Urban Bus Transport Management'</i> for Senior Level Managers of BEST	IIT, Bombay.	13-04-1998
5	Mem. of Org. Com. for <i>Sem. on Traffic Safety</i>	Traffic Police Dept, & Rotary Club @ DC's Off., M'lore	20-12-98 to 21-12-98
6	Coordinator, Sem. on <i>'Pav.t Design, Constrn., &amp; Traffic Engg.'</i>	Indian Geotechnical Society, Surathkal Chapter, @ M'lore.	04-05-2k
7	Co-coordinator, Training Program on Low Cost Building Constrn.	CCE-CED, KREC, Surathkal	03-09-2k to 05-09-2k
8	Coordinator, W/s on <i>'STRAP - A CAD Software for Civil Engineers'</i>	Civil Engg. Dept., NITK, and Ram Caddsys. Chennai, at NITK.	31-10-2k
9	Part of Org. Com. for Awareness Program for Bus Drivers on <i>'Control of Vehicle Pollution Control, and Traffic Safety'</i>	Traffic Police Dept. & Bus Owners Assn. @ KPT, M'lore	20-11-01 to 22-11-01
10-21	Conducted PMGSY Training Programs for practicing Engineers on <i>'Design, Construction, and Maintenance of Rural Roads'</i> (12 Courses)  02-10-03 to 07-10-03                      12-07-04 to 17-07-04 02-08-04 to 07-08-04                      16-08-04 to 21-08-04 20-09-04 to 25-09-04                      05-10-04 to 11-10-04 06-12-04 to 11-12-04                      17-01-05 to 17-01-05 10-01-05 to 15-01-05                      17-04-06 to 22-04-06 24-07-06 to 29-07-06                      31-07-06 to 05-08-06	CCE-CED-KREC, Sponsored by National Rural Road Development Agency, under the aegis of the Pradhan Mantry Gram Sadak Yojana (PMGSY) at NITK, Surathkal.	See Col. 2
22	Conducted a Seminar on <i>'Earthquake Resistant Structures and Retrofitting of RC Structures'</i>	CCE-CED-NITK, Spon. by UNDP, and Min. of Home Affairs	21-01-04 to 22-01-04
23	Coordinator, W/s on <i>'Apps. of Geophysical Investigns. including Ground Probing Radars in Civil Engg., Water Res. Man., &amp; Mining'</i>	Civil Engg. Assoc. 2004 & MHRD – TAT Project, CED, NITK, & IGG Serv., New Delhi, at NITK	02-11-04
24	Coordinator, W/s on <i>'PG Curriculum for Transptn. Syst. Engg.'</i>	Sponsored by TEQIP, NITK.	18-02005 to 19-02-05
25	Conducted W/s on <i>'New Paradigms in Concrete. Technol.'</i>	CCE-CED-NITK, Surathkal	19-11-05
26	Coordinator, 'NHAI 3 Day User's Workshop' under the Road Safety Training Project-UW8	Org. by NHAI, spons. by ICT, held at Errum Manzil, Hyderabad	21-11-05 to 23-11-05
27	Coordinator, 'NHAI 3 Day User's Workshop' under the Road Safety Training Project-UW8	Org. by NHAI, spons. by ICT, held at Errum Manzil, Hyderabad	26-11-05 to 26-11-05
28	Convener, Conference Subcommittee for Conf. on <i>'Synergic Solutions Sust. Dev.-A Prescription for Prosperity'</i>	CED, NITK, Surathkal	28-12-05 to 30-12-05
29	Coordinator, Contin. Educ. Prog. on <i>Design, Construction, and Maintenance of Roads, and Safety Measures</i>	CCE & CED, NITK, at NITK for PWD Engrs, Spon. by Engg Staff Col., Krishna Raja Sagara, Res. Stn., Mysore.	08-01-07 to 12-01-07
30	Coordinator for FANTASTICITY- Inter Col. Comp. On Town Plang.: Engineer 2006-07	NITK, Surathkal	09-03-07
31	Coordinator, W/s on AUTODESK-REVIT	NITK, Surathkal	09-03-07
32	Coordinator, FANTASTICITY- Inter Col. Comp. On Town Plang.: Engineer 2007-08	NITK, Surathkal	11-03-08
33	Coordinator, FANTASTICITY- Inter Col. Comp. On Town Plang. : Engineer 2008-09	NITK, Surathkal	20-03-09
34	Convener, Souv. Com. – 39 <sup>th</sup> ISTE Ann. Convention	ISTE & NITK, Surathkal	18-12-11 to 20-12-09
35	Convener, Souv. Com. – 24 <sup>th</sup> An. Congress of Ins. of Engrs.	IE & NITK, Surathkal	11-12-09 to 14-12-09
36	Coordinator, FANTASTICITY- Inter Col. Comp. On Town Plang. : Engineer 2009-10	NITK, Surathkal	31-10-09
37	Coordinator, FANTASTICITY- Inter Col. Comp. On Town Plang.: Engineer 2010-11	NITK, Surathkal	30-10-10
38	Conducted NHAI Training on <i>Traffic and Work Zone Safety Audit for Concessionaires and Road Safety Audit Personnel of Karnataka, Tamilnadu and Kerala for 4/6 lane PPP Projects</i>	Org. by NHAI, HAKS Engrs and Architects, & InfoTrans Engrs Pvt Ltd at Hotel Plaza, Coimbatore	24-02-11 to 26-02-11

39	Conducted NHAI Training on <i>Traffic and Work Zone Safety Audit for Concessionaires and Road Safety Audit Personnel of Karnataka, Tamilnadu and Kerala for 4/6 lane PPP Projects</i>	Org. by NHAI, HAKS Engrs and Architects, & InfoTrans Engrs Pvt Ltd at Hotel Ambika Intl., Chennai	28-02-11 to 01-03-11
40	Conducted NHAI Training on <i>Traffic and Work Zone Safety Audit for Concessionaires and Road Safety Audit Personnel of Karnataka, Tamilnadu and Kerala for 4/6 lane PPP Projects</i>	Org. by NHAI, HAKS Engrs and Architects, & InfoTrans Engrs Pvt Ltd at Hotl. Holiday Palms, B'lore	03-03-11 to 05-03-11
41	Coordinator, FANTASTICITY- Inter Col. Comp. On Town Plang: Engineer 2011-12	NITK, Surathkal	29-10-11
42	Conducted Seminar on <i>Urbanization and Climate Change on World Habitat Day</i>	Org. Inst. of Engrs., M'lore, at Vivekananda Col. Of Engg., Puttur	03-10-11
42	Co-Coordinator, FANTASTICITY- Inter Col. Comp. On Town Plang: Engineer 2011-12	NITK, Surathkal	30-03-12
43	Coordinator: Fifth Program Advisory Committee Meeting Meeting and Review of Civil and Envi. Engrg. Projects for DST <i>Coordinator: Dr. Varghese George</i> <i>Co-coordinator: Dr. Shrihar S.</i>	CED, NITK, Surathkal Org. by Dept of Civil Engg., NITK, and Spon. by Science and Engg. Res.Board (SERB), New Delhi	6-7 Feb 2014
44	Coordinator: Interaction of the Faculty of Civil Engrg. with Experts from IITs on UG Syllabus Revision	CED, NITK, Surathkal Org. by Dept of Civil Engg., NITK,	7 <sup>th</sup> Feb 2014
45	Coordinator: Interaction of the Faculty and Students of MTech Transportn. Engg. with Prof. Parthto Chakraborty, IIT Kanpur	CED, NITK, Surathkal Org. by Dept of Civil Engg., NITK,	7 <sup>th</sup> Feb 2014
46	Convener: Transport Committee: 1 <sup>st</sup> Annual Conference on Innovations and Developments in Civil Engg. (ACIDIC-2014)	CED, NITK, Surathkal Org. by Dept of Civil Engg., and TEQIP, NITK,	19-20 May 2014
47	Coordinator: Printing and Publicity Committee: One Day Workshop on "Geology and Its Applications in Civil Engineering and Everyday life"	Org. CED, NITK	18 <sup>th</sup> Apr. 2017
48	Int. Conf. on "Sustainable Constructions and Building Materials" (ICSCBM-2018)	Patron, and Member of Organizing Committee, NITK	18-22 Jun 2018
50	Int. Conf. on "Trending Moments and Shear Forces" (TMSF-2019)	Conv., and Mem. Org. Com. of Dept. of Civil Engg., NITK & Don Bosco Col. of Engg., Fatorda, Goa	31 Oct to 1st Nov 2019
51	Int. Conf. on Sustainable Infrastructure: Innovations, Opportunities, and Challenges - SIIOC 2023	Chairman, Stage Arrangement and Mementoes, Org. CED, NITK	20-21 Apr. 2023
52	Int. Conf. on Sustainable Infrastructure: Innovations, Opportunities, and Challenges - SIIOC 2024	Chairman, Stage Arrangement and Mementoes, Org. CED, NITK	30 Apr-01 May 2024

### Recent Outreach Activities and Conference Sessions Chaired

No.	Title	Organizers & Venue	Period
1	Key Note Address at Seminar on <i>Urbanization and Climate Change on World Habitat Day</i>	Org. Inst. of Engrs., M'lore Chapter., at Vivekananda Col. of Engg., Puttur	03-10-2011
2	Chairman of 2 Sessions at Int. Conf. on Energy and Environment 2013 (ICEE-2013)	Rajiv Gandhi Inst. of Tech. (a Gov. of Kerala Undertaking), Nedumkuzhy, Vellore, Pampady, Kerala 686501	12-14 Dec 2013
3	Ph.D Thesis Evaluation of Sh. Anil K. for Thesis Titled "Study on Dev. Tools and Methods for Adv. Traveller Info. Syst. in Indian Cities"	University of Kerala as per order dated 25 May 2016	May 2016
4	Advisory Board Member, Mangalore University Building Committee.	Mangalore University Letter No. MU/ET/KSS/2017-18/6 Dt 4-10-2017.	04-10-2017
5	Interaction with Indian Express on "Dangers of introducing Double-decker buses for long-distance travel.	Indian Express, Newspaper	reported on 13th Dec 2017
6	Setting question papers and conducting exams for Staff Selection Committee, NMPT, Panambur	NMPT, Panambur, Letter No. No. 3/2/2017/CE.1 Dt 01-01-2018 - VG, Nazar	2017
7	Technical Advisors to Deputy Commissioner, Mangalore	DC Office, Mangalore (Letter Dt. 31-05-2018 - VG, KVR, KSB, MCN, SS, LN, PCD, SCY, BMS, SN)	31-05-2018
8	Technical Advisor, Workshop on Recycling C & D Waste Held at Hotel Ocean Pearl, Mangalore	Org. By Dakshina Karnataka Nirmithy Kendra, NITK, Surathkal	28-08-2018
9	TV Live Discussion on Road Maintenance in Dakshina Kannada	Namma TV – TV Channel Discussion on Site	on 23-09-2018 at 8:50pm
10	Conducting Theory and Practical Exams in Dec 2018 for De-recognized Universities	Supreme Court Directives NITK/CED/2018/ 2510 Dt 27-11-2018	2018 Dec
11	Chairing a Session at Int. Conf. on "Civil Engineering	Org. by NMAMIT, Nitte, at NMAMIT.	23-24 May 2019

	Trends and Challenges for Sustainability” (CTCS-2019)		
12	Chairing a Session at Int. Conf. on "Trending Moments and Shear Forces" (TMSF-2019)	Org. by Dept. of Civil Engg., NITK and Don Bosco Col.of Engrg., Fatorda, Goa	31 Oct to 01 Nov 2019
13	Member of Committee for Selection of PhD Candidate	Director, A P J Abdul Kalam Tech. Uty.	21-22 Nov 2021
14	Chairing a Session at Int. Conf. on " Int. Conf. on Sustainable Infrastructure: Innovations, Opportunities, and Challenges-SIIOC 2023	Org. by CED, NITK.	20-21 Apr 2023
15	Chairing a Session at Int. Conf. on " Int. Conf. on Sustainable Infrastructure: Innovations, Opportunities, and Challenges-SIIOC 2024	Org. by CED, NITK.	30 Apr-01 May 2024

### Conferences, Conventions, & Workshops Attended

No.	Title	Organizers & Venue	Period
1	7th National Convention on Environmental Engg.	Mangalore	28-10-91 to 29-10-91
2	7th International Conference on Urban Transport in Developing Countries (CODATU - 96)	at New Delhi by CODATU, Paris	02-02-96 to 16-02-96
3	International Workshop on Transport Planning and Management in Developing Countries (TPMDC-96)	IIT, Bombay	04-12-96 to 12-12-96
4	8 <sup>th</sup> World Conf. on Transport Research (WCTR-98)	Uty. of Antwerp, Belgium	12-07-98 to 17-07-98
5	the 4 <sup>th</sup> International Conference on Design and Decision Support Systems (DDSS-98)	Maastricht, The Netherlands, by Tech. Uty. Of Eindhoven	26-07-98 to 28-07-98
6	An. Conv. of Indian Roads Congr. 2009 (IRC-2009)	Patna, Bihar	09-11-09 to 13-11-09
7	National Conference on Recent Developments in Civil Engineering-2011 (RDCE-2011)	Org. by CED Manipal Inst. of Tech., Manipal	13-01-11 to 14-01-11
8	Seminar on <i>Urbanization and Climate Change</i> Keynote address on <i>World Habitat Day</i>	Org. Inst. of Engrs., M'lore Chapter., at Vivekananda Col. of Engg., Puttur	03-10-11
9	Intl. Symposium on Engrg. and Sciences (IES-2012)	NITK Surathkal, MIT Manipal, Kumamoto Uty, Kumamoto, Japan	05-03-12 to 07-03-12
10	IE Seminar on "Appropriate Climate Responsive Technol. for Inclusive Growth and Sust. Dev. ", on the 45 <sup>th</sup> Engrs' Day Celeb.	Inst. of Engrs India, MIT, Manipal	08-09-12
11	International Conference on Energy and Environment 2013 (ICEE-2013) <i>Chairman of 2 Sessions</i>	Rajiv Gandhi Inst. of Tech. (a Gov. of Kerala Undertaking), Nedumkuzhy, Vellore, Pampady, Kerala 686501	12-14 Dec 2013
12	National Workshop on <i>Civil Engineering Challenges in 21<sup>st</sup> Century</i> (CEC21-2014) <i>Resource Person &amp; Keynote Address</i>	Org. by Dept. of Civil Engg., Moodabidri Inst. of Tech. & Engrg.	21-22 Feb 2014
13	1 <sup>st</sup> Annual Conference on Innovations and Developments in Civil Engg. (ACIDIC-2014)	Org. by Dept of Civil Engg., and TEQIP, NITK	19-20 May 2014
14	Civil Infrastructure and Structural Materials (CISM-2014) <i>Resource Person</i>	Org. by Dept of Civil Engg., and TEQIP, NITK,	28-29 Jul 2014
15	Int. Conf. on Info. Tech., Sc., Engrg., and Mangmt. <i>Best Paper Presentn., &amp; Gold Medallion</i> -(ICITSEM-2015)	Held at Hyatt Place, Al-Rigga, Dubai.	25-26 Feb, 2015
16	One day Workshop on "Sustainable Urban Transpntn."	Org. by CED, NITK, Surathkal	3 <sup>rd</sup> Oct 2016
17	One day Workshop on "Urban Transport Management" (UTM-2017)	Org. Assoc. of Bang. Uty. Highway Engg. Alumni at Hotel Lalith Ashok, Bangalore	11 <sup>th</sup> Mar 2017
18	One day Workshop on "Role of Intelligence in Good Governance"	Org. MHRD, NITK, at NITK, Surathkal	18 <sup>th</sup> Feb 2019
19	25th Singapore Symp. on Pavement Tech. (Webinar)	Org. National University of Singapore.	19 <sup>th</sup> Nov 2020
20	Intl. Conf. CTCS 2019, as part of Intl. Conf. on Emerging Trends in Engineering (ICETE)-TE	Org. by NMAM Institute of Tech., Karkala, held at Nitte, India	23-24 May 2019
21	15 <sup>th</sup> World Conf. on Transport Research (WCTR-2019)	Org by CIRRELT, WCTR, and Indian Institute of Technology, Bombay	26-31 May 2019
22	Intl. Conf. CTCS 2020, as part of Intl. Conf. on Emerging Trends in Engineering (ICETE)	Org. by NMAM Institute of Tech., Karkala, held at Nitte, India	22-23 Dec 2020
23	3 <sup>rd</sup> Online International Conference on Engineering Challenges in Gulf Countries	Org. Ins. of Engrs. India – Kuwait Chapter & Kuwait Ins. for Scien. Res.	22 Jan 2021
24	IGBC's Student Chapter Annual Meet 2021	Org. IGBC and CII, Hyderabad.	17 Nov 2021
25	Intl. Conf. CTCS 2021, as part of Intl. Conf. on Emerging Trends in Engineering (ICETE)-GTE	Org. by NMAM Institute of Tech., Karkala, held at Nitte, India	19-20 Nov 2021
26	16 <sup>th</sup> World Conf. on Transport Research (WCTR-2023)	Org by CIRRELT, and WCTR at Palais De Congres, Montreal, Canada	17-21 July 2023

### ISTE-AICTE Summer/ Winter Schools /Refresher Courses Attended

No.	Title of Course	Conducted at	Period
1	Photogrammetry and Transportation Engg.	Anna University, Madras	04-05-88 to 17-05-88
2	Microprocessor Apps. in Comprehensive Transport Planng.	R.E.C., Warangal	29-05-89 to 10-06-89
3	Modelling the Urban Bus Transit System	I.I.T., Madras	16-12-91 to 29-12-91
4	Construction Programming and Management	T.K.M. College of Engg., Quilon	18-05-92 to 31-05-92
5	Geotextiles and their Applcns. in Civil Engg. Structures	KREC, Surathkal	30-10-92 to 02-12-92
6	Site Investigation Techniques for Civil Engg. Constructions, and Development of Engineering Geology and Geotechnology in India	KREC, Surathkal	29-12-97 to 10-01-98
7	Advanced Computer Applcns. In Transportation Engg.	REC, Tiruchirapalli	30-11-98 to 11-12-98
8	System Techniques and Appls. to Civil Engineering Problems	Dr. PGHalakatti Col. of Engrg. and Tech., Bijapur	28-12-98 to 09-01-99
9	Fuzzy Logic and Neural Networks in Chem. Process Automation	KREC, Surathkal	15-02-99 to 27-02-99
10	Computer Aided Analysis and Design of Engineering Structures	MIT, Manipal	16-08-99 to 28-08-99
11	Internet, Intranet and Programming	KREC, Surathkal	22-11-99 to 04-12-99
12	Engrg. Geology and Geotechnology Role in Country Plang. & Dev.	KREC, Surathkal	27-12-99 to 08-01-2K
13	Sustainable Urban Transportation Systems Planning	IIT, Madras	18-12-2K to 22-12-2K
14	Remote Sensing and Geogr. Info. Sys. For Resource Mangmt.	NITK, Surathkal	14-01-02 to 25-01-02
15	Advances in Latest Trends in Engg. Geology and Geotechnology	NITK, Surathkal	31-12-02 to 12-01-03
16	Green Building and Built Environment	Online ATAL –FDP, IGBC & CII	02-08-21 to 06-08-21

### Special Training Programmes and Certificate Courses Attended

No.	Title of Course	Conducted at	Period
1.	<b>Professional Development (HRD) Programme</b>	K.R.E.C., Surathkal	22-07-91 to 26-07-91
2.	<b>UNIX</b> - an Introduction and Utilization	CCE, KREC, Surathkal	10-05-93 to 21-05-93
3.	In-house Training Programmes on Operation and <b>Maintenance of Personal Computers</b>	KREC, Surathkal	1992
4.	<b>NETWARE for LAN</b>	KREC, Surathkal	1993
5.	<b>dBASE - III Plus</b>	KREC, Surathkal	1994
6.	Internet Workshop	Com. Sc.& Eng. Aso., CSE Dep., IIT-B	1996
7.	W/s on <b>Project Management</b>	KREC, Surathkal, & PMI Bangalore	19-12-98
8.	W/s on <b>Technology Management</b>	KREC, Surathkal & DSIR, New Delhi	23-01-99
9.	W/s on <b>Earthquake Resist. Struc. &amp; Retrofit. f RC Struc.</b>	NITK, Surathkal & UNDP, GOI.	21-01-04 & 22-01-04
10.	<b>National Board of Accreditation</b> Assessor's Traing.& W/s	NITK, Surathkal	08-05-04 & 09-05-04
11.	Special Training Program for Staff Counselors	NITK, Surathkal	16 <sup>th</sup> July 2004
12.	One week Training on <b>Zond 12e Ground Probing Radar</b> provided by Mr. Sanjay Rana, IGG Parsan, New Delhi	NITK, Surathkal & MHRD TAT Program by IGG-Parsan Overseas	27-10-04 to 03-11-04
13.	Workshop on 'Knowledge Management' at NITK, Surathkal	NITK, Surathkal, sponsored by TEQIP and Alumni Assoc. of NITK	22-12-04 to 24-12-04
14.	Attended <i>Training of Trainers for Dissemination of <b>Road Safety Manual</b></i>	Haryana Ins. of Pub. Adm. Gurgaon by NHA, & Intercon. Consl. Sev., Spore	24-05-05 to 27-05-05
15.	Workshop on <b>Grading in Credit System</b> in NITK	Held at NITK, sponsored by TEQIP,	12-11-05
16.	Workshop on Refinement of NITK <b>Academic Regulation</b>	Held at NITK, sponsored by TEQIP	23-05-06
17.	Training on Pavement Evaluation using <b>ROMDOS</b>	Held at NITK, by ROMDOS	2007
18.	Indo Jap. W/s on <i>Recent Advances in <b>Geotech.I Engg.</b></i>	Held at NITK, sponsored by TEQUIP	04-03-08
19.	<b>Green Buildings:</b> Architecture with Sust. Des. Reqmts.	Held at Engineering Staff College of India, Gachi Bowli, Hyderabad-32	01-03 May 2008
20.	<b>Workshop on Tejus Light Combat Aircraft</b>	Org. by DRDO/ADA at NITK	17-10-08
21.	Workshop on <b>Strategic Planning for the Institute</b>	Held at NITK, Surathkal	06-08-08
22.	Workshop on <b>Intellectual Property Rights</b>	Held at NITK, Surathkal	04-05 May 2009
23.	<b>Dale-Carnegie Cert. Mission10X</b> W/s on <b>High Impact Teaching Skills</b>	At NITK, S'kal by Wipro Tech. B'lore	17-21 May 2010
24.	<b>ROMDAS-Road Measurement Data Acquisition System</b>	At NITK, S'kal by ROMDAS, Nethlds.	17-23 Sep 2010
25.	<b>Model Development with Cube Base and Cube Voyager</b>	At Schl. of Plng. & Arch., Delhi by M/s Citilabs Singapore	5-8 Nov 2012
26.	<b>Training Prog. "Gen. Fin. Rules 2017 &amp; Public Procurmt.</b>	Held at NITK, Surathkal,	02-03 Feb 2018
27.	<b>Management Capacity Enhancement Programme</b>	Org. by TEQIP, Held at IIM Indore	23-29 Aug 2016



## MAJOR CONTRIBUTIONS TO NITK

### 1) Equipment/ Software Procured for Labs through Research Funds

	Equipment / Software Purchased	Sponsoring Agency	Cost
1.	Zond 12 e GPR & PRISM Softw. (Rs. 10.7L); Portable FWD (Rs. 2.5L); Transyt 12 Softw. (Rs. 0.8L); Laptop, Desktop, Printr., Scanr., etc (Rs. 2.5L); Rec. Exp. (Rs.1.5L)	MHRD-TAT Research Project	<b>Rs.18.0 Lakhs</b>
2.	<b>CESVA Sound Level Meter</b>	MHRD-NITK 2003-04 Ann. Plan Fund	Rs. 1.6 Lakhs
3.	<b>CUBE-Voyager</b> Software for Transp. Sys.Planning	MHRD-NITK 2003-04 Ann. Plan Fund	Rs. 2.1 Lakhs
4.	Equipment for <b>Surveying Laboratory</b> and Maint.	1999-01 5L; 2008-09 0.42L; 2010-11 2L	Rs. 7.42 Lakhs
5.	<b>SPSS</b> Software for Statistical Analysis	TEQIP Fund 2004-05 (Phase 1)	Rs. 3.5 Lakhs
6.	<b>MX Road Software, Bump Integrator, ROMDAS</b>	TEQIP Fund 2008-10 (Phase 1)	Rs. 40.0 Lakhs
7.	<b>Cube 6.0</b> for Transp. Sys.Planning	TEQIP Fund 2011-13 (Phase 2)	Rs. 8.37 Lakhs
8.	<b>VISSIM and VISUM</b> for Transp. Sys.Planning	TEQIP Fund 2011-13 (Phase 2)	Rs. 7.17 Lakhs
9.	<b>Infra-red Thermometer</b> (Transp. Engg. Lab.) <b>Laser Distance Meter</b> (Transp. Engg. Lab.)	Annual Plan Fund 2011-12 Dept. Operating Cost Fund 2013-14	Rs. 0.035 Lakhs Rs. 0.105 Lakhs
10.	<b>Establishment of AutoCAD Lab (58 Computers)</b> <small>Dean P&amp;D No 239/ NITK/ Civil APF/ 2015-16/ A9 Dt. 21-03-2016; Let. Dean P&amp;D Dt. 21-03-2016 No. 239/ NITK/ Civil APF/ 2015-16/ A9</small>	Annual Plan Fund 2014-16 15.12 (2014-15) + 23.13+18.55 (2015-16)	Rs, 56.80 Lakhs
11.	<b>Establishment of Transportation Design Studio and Computer Lab. During 2017-19 as HoD</b>	Departmental Oper.Fund for Repair, Maintenance, and Consumables	Rs. 05.00 Lakhs
12.	<b>Dev. of Existing Labs for Civil Engg. Dept. During 2017-19 as HoD</b>	Departmental Oper. Fund for Repair, Maintenance, and Consumables	Rs. 78.00 Lakhs
13.	<b>Purchase of Equip. initiated 2017-19 as HoD</b>	IRG Fund 2017-18; &2018-19 approx.	Rs. 75.00 Lakhs
15.	<b>Purchase of Equipment and Est. of CTM Labs</b>	L&T BIS Funds 2023-24	Rs. 3.5 Crores
		<b>Grand Total</b>	<b>Rs 6.5302 Crores</b>

### 2) Proposed A New M.Tech Course on Transportation Systems Engg. 1989-92-2003:

Proposed A New M.Tech Course on Transportation Systems Engg. in 1989, 1992, & 2003  
AICTE & MHRD clearances was obtained in 2001 & Course commenced on a self-financing basis from 2004-05  
The course content and syllabi were stabilized in 2005-06  
Necessary Software such as Cube (2003-04; 2013-14) and VISSIM (2013-14) were procured

### 3) Secretary and Member of Board of Directors of KREC Consumer's Cooperative Society Ltd. 2004-05 & 2005-10

Merger of KREC Canteen Coop Soc to KREC Consumer Coop. Soc. Increased assets by 3.87 lakhs  
Paid back Rs 2 lakhs out of Rs 5 lakhs taken as loan from NITK Credit Coop Soc.  
Paid back IT dues of 50000 Rs out of total dues of 1.5lakh Rs.  
Installed software and computers for billing, and accounting  
Purchased a lamination machine for the Printing Section, refrigerator 275 Lit, & a 200 lit deep freezer for the Consumer Section  
Fabricated 4 new shelves, 80 ft hangers, 4 wire mesh crates, fixing fans, & repainting  
Dividend declared for the years 2005-06 and 2006-07 and paid pending bonuses up to 2005  
Enrolled employees under EPF and Insurance  
Introduced payment of salary to bank account of employees & Implemented revised pay scales for employees

### 4) Chairman of Publication Committee of ISTE and IE Conferences Held at NITK in Dec 2010

### 5) Contribution to Consultancy of Institute: (Includes MSEZ Digital Surveying for 3000 acres, CAD layout for MRPL Township for Project Displaced Families, Design and layout for NITK Underpass, etc)

### 6) Associate Dean (Res. and Cosul.) 2010-13: Stud. Internships, Summer Schools, MOUs, & NITK Res. Bulletin; SIRO Documentation; Technical Digest; Editor of NITK Research Bulletin

### 7) Establishment of AutoCAD Lab (2015) with 58 Computers 2015: Annual Plan Fund Used; Inaug. 14-09-2015.

### 8) Head of Department 2017-19:

Dev. of Existing Labs for Civil Engg. Dept. using Departmental Oper. Fund	(Rs. 78L);
Purchase of Equip. Through IRG	(Rs. 75L);
Proposed construction of Environmental Engg lab. Extension	(Rs. 62L);
Proposed and initiated the construction of Construction Technology Lab.	(Rs. 63L);
Proposed and initiated the construction of Steel Roofed Drawing Hall	(Rs. 70L).

### 9) Establishment of Transportation Design Studio and Comp. Lab. 2019: Inaug. 11-04-2019; Lab Space Renovated using Dept. Opr. Fund, with Stock Transfer of Computers from Defunct TEQIP CAD Lab in Mining Dept.

### 10) NITK Coordinator, L&T (BIS) Spons. M.Tech Pog. Constrn. Tech. & Man. 2023-24: Coordination of Student Recruitment for L&T, Course Administration, and Lab Development (Rs 3.5 Cr.)

### Community Service and Extra Curricular Activities

	Organization	Role	Period
1.	<b>KREC/ NITK Students cum Staff Onam Celebrations</b>	Exe. Com. Mem.	1990-92 & 1999 onwards
2.	<b>KREC Consumer's Cooperative Society Ltd. (L886)</b>	Mem. of Board of Dir. Secretary	2004-05 & 2005-10 2004-05 & 2005-06
3	<b>St. Anthony's Jacobite Syrian Church, Mangalore</b> The Church supports a school "Syrian Mission Higher Primary School" under the management of St. Anthony's Educational Society, Honovar. <u>It supports the following:</u> <ul style="list-style-type: none"> <li>. a home for the abandoned elderly, and an orphanage</li> <li>. encouragement to talents of children and youth</li> <li>. fellowship meetings and prayers for families</li> </ul>	Member Mem. of Exe.Com. Mem. of Renov. Com. Headmaster of Sun. Sch Secretary of the Church Com. Mem.	1986 onwards 1991-94; 98-07; 15-16; 1998-2010 1997-98 to 2007-08 1999-2000 & 2003-2004 2008-09;
4.	<b>Lions Club International, Surathkal Chapter – 324-D4</b> <u>It supports the following:</u> <ul style="list-style-type: none"> <li>. A school for the Physically and Mentally Challenged</li> <li>. Maintenance and renovn. of a crematorium @ Surathkal.</li> <li>. 3 adopted schools in rural areas</li> <li>. Earthquake relief measures</li> </ul>	Member Joint Secretary Secretary II Vice President	1998 Jul - 2003 1999-2000 2000-2001 2001-2002
5.	<b>KREC Staff Club</b>	Exe. Com. Mem.	1998
6.	<b>QIP Building Residents Welfare Society, IIT, Bom.</b>	President	1995
7.	<b>Malayali Students Cultural Association, IIT, Bombay</b>	President	1994 to 1995
8.	<b>QIP Research Scholars Forum, IIT, Bombay</b>	Joint Secretary	1995 to 1996
9	<b>Y.M.C.A. Ernakulam (L/445)</b>	Life Member	22-10-1993 onwards
10.	<b>Y's Mens Club of Mangalore</b>	Member Joint Secretary	21-9-91 to 31-5-92 1992 to 1993
11.	<b>KREC, English Medium High School, Surathkal</b> Parent Teacher Association	Joint Secretary Exec. Mem.& Std10 Rep	1992 to 1994 2006-07