Dr. Nisha Radhakrishnan, Assistant Professor

Curriculum Vitae



Brief Profile:

Dr. Nisha Radhakrishnan is working as an Associate Professor in the Department of Civil Engineering at the National Institute of Technology, Tiruchirappalli (one of the top 10 Technical Universities, funded by Government of India).

Dr. Nisha Radhakrishnan has a unique academic background with PhD in Global Positioning System from Department of Civil Engineering, Indian Institute of Technology Bombay and Master Degrees in Remote Sensing from Department of Civil Engineering, Indian Institute of Technology Bombay.

She is presently focusing on the following research areas including Application of Geospatial Technology in Urban Planning with emphasis to Land Use Land Cover Assessment, Quantifying the Urban Sprawl, Analysing the relation between Landuse and Travel Demand, Site Suitability Analysis For Urban Residential Development, Land Use – Transportation Interaction, GIS based Pavement Management System and Land use based Urban planning and Modelling of Water Supply and Sewage Pipeline distribution using Geospatial Techniques. She is closely associated with the Transportation division of the Department of Civil Engineering, NIT Tiruchirappalli

She is carrying out impactful projects in the domain of land use land cover assessment, urban planning, transport planning, structural deformation monitoring and ITS. She has completed a DST sponsored project as Principal Investigator and one project sponsored by Centre of Excellence (CoE) in Urban Transport, Department of Civil Engineering, IIT Madras and Ministry of Urban Development as Co- PI. She is also one among the core members of the MHRD, Govt. of India sponsored "Centre of Excellence in Transportation Engineering" (CETransE) at NIT Tiruchirappalli. She has recently received SERB IMPRINT IIC project grant for work on Structural health monitoring.

Dr. Nisha Radhakrishnan has published her research outputs in leading journals including Journal Geological Society Of India, Journal of Indian Society of Remote Sensing, Journal of Remote sensing & GIS, Geomatics Natural Hazards and Risk, The Arabian Journal for Science and Engineering, International Journal for Scientific Research & Development and The IUP Journal of Earth Sciences.

She has been serving as a Survey Lab in charge in her institute and has been instrumental in procuring advanced surveying equipments such as GPS, Digital level and Total Stations. During this period, she has also been involved in procuring Remote Sensing images and latest versions of image processing softwares such as ERDAS and ArcGIS.

She is a member of Institution of Engineers, India Society of Remote Sensing, Indian Society of Geomatics and Indian Geotechnical Society.

1. Name	Dr. Nisha Radhakrishnan
 Designation: Office Address: Telephone (Direct): 	Associate Professor Room 202 Department of Civil Engineering National Institute of Technology Tiruchirappalli 0431 – 2503162 (O) 0431 – 2504162 (R)
Mobile:	09843260869 (M)
5. Email (Primary): Email (Secondary):	nisha@nitt.edu nisha.radhakrishnan@gmail.com
6. Field(s) of Specialization:	Remote Sensing, Geographic Information System, Global Positioning System, Surveying, Advanced Surveying, Geodesy

Job Title	Employer	From	То
Assistant Professor	P.A Aziz College of Engineering and Technology, Kerala (Self- financed college)	June 2008 (18/06/2008)	December 2008 (30/12/2008)
Assistant Professor AGP 7000	National Institute of Technology, Tiruchirappalli	January 2009 (07/01/2009)	January 2012 (07/01/2012)
Assistant Professor AGP 8000	National Institute of Technology, Tiruchirappalli	January 2012 (07/01/2012)	March 2018
Associate Professor AGP 9500	National Institute of Technology, Tiruchirappalli	March 2018	Till date

7. Employment Profile

8. Academic Qualifications (From Highest Degree to High School)

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D. (Civil)	Indian Institute of Technology Bombay	2003 – 2007	CPI of 9.63 on a 10 point scale	Global Positioning System

M.Tech. (Remote Sensing)	Indian Institute of Technology Bombay	July 2001 - December 2002	CPI of 9.85 on a 10 point scale	Remote Sensing
B.Tech. (Civil Engineering)	Kerala University	1997 – 2001	84.4 % First class with Distinction (Honours)	Civil Engineering
A.I.S.S.C.E (10+2)	C.B.S.E	1996 - 1997	79.2 % Distinction (Honours)	Science Stream
A.I.S.S.E (Class 10 th)	C.B.S.E	1994 – 1995	78 % Distinction (Honours)	-

9. Academic/Administrative Responsibilities within the University

(a) Institute Level

Sl. No.	Position	Nature of Work	From	То
INO.		Institute Level		
1.	Certificate Verification - Committees for Skill test & Certificate Verification (Technical) - Civil	Member for Certificate Verification (Malayalam)/ B&C Recruitment 2021	22nd July 2021	22nd July 2021
2.	Pragyan 2021 – Judge Panel for Sangam 2021 – Healthcare and Agriculture	National Level competition to identify innovative projects	29 th March 2021	29 th March 2021
3.	Pragyan 2021 – Ingenium Judge Panel (Intercollege hackathon)	Intercollege – National Level competition to identify innovative projects	April 9 th , 2021	April 9 th , 2021
4.	Institute Day 2020 – Committee Member	Invitations, MINT, Transport and Press & Media	19.02.2021	06.03.2021
5.	Higher studies details database – Departmental Member	Collecting data from pass outs students about placements/higher studies	19.01.2021	Till date
6.	Heritage Book – Committee Member	Collecting data for heritage book from alumni	25.01.2020	Till date
7.	Pragyan 2020 – Press & Media Committee Member	Arrangement of Press releases, Social Media releases	18.02.2020	$12^{th} - 15^{th}$ March, 2020
8.	Physical Verification of Assets for Architecture Department – Member	Stock Verification	04.12.2019	Report submitted in 2021

9.	16 th Convocation 2020 – Programme Committee Member	Minute to Minute Programme – Conduct of Convocation	October 1, 2020	November 7, 2020
10.	Social Media Champion	Nomination of the Institute – MHRD Requirement	3 rd July 2019	July 2020
11.	15 th Convocation 2019 – Programme Committee Member	Minute to Minute Programme – Conduct of Convocation	June 19 th , 2019	July/Aug 2019
12.	Central Seat Allocation Board (CSAB) – Chairperson – Content Management in CSAB Site	Content preparation in release in CSAB website, press releases	09.05.2019	September 2019
13.	Institute Day 2019 – Committee Member	Invitation, MINT and Transport	02.04.2019	16.04.2019
14.	NBA Visit October 2019 – Committee Member	Enable Interaction with alumni – to arrange alumni for each department, Career Guidance	11.10.2019	13.10.2019
15.	NBA Visit March 2019 – Committee Member	Enable Interaction with alumni – to arrange alumni for each department, Career Guidance	March 2019	April 2019
16.	NITTFEST'19 – Press & Media Committee Member	Arrangement of Press releases, Social Media releases	26.02.2019	$8^{th} - 11^{th},$ March 2019
17.	Pragyan 2019 – Press & Media Committee Member	Arrangement of Press releases, Social Media releases	27.02.2019	14-17 March 2019
18.	Smart India Hackathon-2019 Hardware Edition (SIH- 2019) – Press and Media Member	Press release/Social Media coordinator	27.06.2019	8 th -12 th July 2019
19.	Calendar 2019 & 2020 Preparation - Member	PR & Media Cell responsibility	2019	2020
20.	Smart India Hackathon-2019 Software Edition (SIH- 2019) – Marketing Secretary – Organizer	Press release/Social Media coordinator	11.02.2019	2 nd & 3 rd March 2019
21.	Institute Donation Committee	Committee Member (Associate Dean is a member of the committee)	21.12.2018	Till date
22.	Associate Dean (Alumni Relations) * <i>Annexure</i>	Fundraising/Organizing alumni related activites/alumni data base creation etc	21.12.2018	Till date
23.	Alumni Institute Interaction Cell-Departmental Representative (Civil)	Coordinate alumni activities of the department	25.06.2018	February 2021

24.	14th Convocation 2018 -	Press Coverage,	12 June	July 29 th ,
21.	Press & Media Committee	Distribution of Invitation to	2018	2018
	Member	press, faculty & staff	2010	2010
25.	TEQIP-III Startup Cell –	Carry out activities	07.03.2018	Till date
25.	Faculty Facilitator	fulfilling institutional	07.03.2010	1 III date
	racuity racintator	requirements & AICTE-		
		TEQIP-III Mandate (Civil		
		& Architecture)		
26.	MHRD Workshop on	Representation from	27.03.2018	10.04.2018
20.	"Importance of Social Media	Institute PR & Media Cell	27.03.2018	10.04.2018
	– Use and Effect" – Institute	institute i K & Wiedla Celi		
	nominee to attend the			
	workshop			
27.	PR&Media Cell – Member	Social Media	03.05.2018	10.12.2020
27.	(** Press releases attached)	Representative/ Press	03.03.2010	10.12.2020
	(Tress releases attached)	releases		
28.	Veetukoru Vignaani 2018	State Level competition to	6 th October	6 th October
20.	State Finals – Judge	identify innovative minds	2018	2018
	State I mais – Judge	among school going	2010	2010
		children		
29.	14 th Convocation 2018 –	Representation from	04.07.2018	28.07.2018
_>.	Seating Committee Member	department	0110712010	20107.2010
30.	Pixelbug Student Club –	Work in association with	September	July 2021
2 0.	Faculty Advisor	PR & Media cell	2018	00192021
31.	Anti-Ragging Committee -	Visit to Opal Hostel (Girls	16.08.2018	01.09.2018
	Member	Hostel)		
32.	Anti-Ragging Committee	Visit to Opal Hostel (Girls	30.07.2018	15.08.2018
		Hostel)		
33.	Smart India Hackathon-2018	Social Media Coordinator	June 18 th ,	June 22 nd ,
	(Grand Finale) – Press &		2018	2018
	Media Committee Member –			
	Organizer			
34.	MIS – Academic Office	Tackling issues related to	18 th July	12 th March
	Committee for Civil	MIS for department	2017	2018
	Department	-		
35.	Press and Media Committee	Social Media, press releases	June 28,	August, 12,
	- Convocation 2017	_	2017	2017
36.	Media Interface of NITT	Social Media, press releases	13.02.2017	03.05.2018
	(MINT) Member			
37.	Institute Transport	Committee Member	22.11.2016	22.11.2017
	Committee Member			
38.	12 th Convocation 2016 –	Registration Committee	30.07.2016	30.07.2016
	Registration Committee	Department Representative		
39.	CPDA Committee member	Committee Member	18.07.2016	01.05.2017
40.	Stock Vertification Officer	Stock Vertification Officer	06/04/2016	30.04.2016
	for Metallurgical & Material			
	Science			
41.	Staff Advisor Pragyan 2016	Staff Advisor	01.07.2015	30.05.2016

42.	Stock Vertification Officer	Stock Vertification Officer	04/07/2014	31.07.2014
	for Physical Education			
	Department			
43.	First Year Orientation	Programming Monitoring	July 19,	31.07.2013
	Programme - Member	Committee Member	2013	
44.	Staff Advisor Pragyan 2013	Staff Advisor	01.07.2012	31.05.2013
45.	Annual Sports Day'12 –	Committee Member	04.04.2012	12.04.2012
	Medical Aid Committee			
46.	Foreign Student Cell –	Committee Member	04.07.2011	31.12.2011
	Committee Member			
47.	Staff Advisor Pragyan 2012	Staff Advisor	01.07.2011	31.05.2012
48.	Convocation 2009	Registration Committee	12.08.2009	15.08.2009
	Registration Committee for	Member		
	Graduants			

(b) Department Level

Sl.	Position	Faculty/Department/Centre/Institution	From	То			
No	1 USITION	Faculty/Department/Centre/Institution	I'I'OIII	10			
110							
	Departmental Level						
1.	Class Committee Chairperson	Ist Year M.Tech. Construction Technology & Management	10.08.202 1	10.08.202 2			
2.	Comprehensiv e Examination – PhD scholars – Coordinator	PhD Scholars	April 01, 2021	August 31, 2021			
3.	Class committee chairperson	4 th Year B.Tech. Civil Engg. (Sec. A&B)	08.09.202 0	08.09.202 1			
4.	Department Project Evaluation Committee (DPEC) member	M.Tech. Transportation Engineering & Management/ Civil Engineering Department	26.07.201 9	26.07.202 0			
5.	Faculty Advisor for B.Tech. Students	From Batch 2016-2020, 2017-2021, 2018-2022, 2018-2023	09.09.201 9	Till date			
6.	Project coordinator for Final year B.Tech. Project	Civil Engineering Department	12.11.201 8	31.05.202 0			

7.	Class	4 th Year B.Tech. Civil Engg. (Sec. A&B)	11.07.201	11.01.201
	committee		8	9
	chairperson			
8.	Department Project Evaluation Committee (DPEC) member	M.Tech. Transportation Engineering & Management/ Civil Engineering Department	11.07.201 8	11.07.201 9
9.	Class Committee Chairperson	B.Tech. Civil Engineering Batch 2016 – 2020 Section A & B	16.01.201 8	30.06.201 8
10.	Project Evaluation Committee	B.Tech. Final year project 2017 – 2018	2017	2018
11.	Comprehensiv e Examination Viva Committee Member	7 th Semester B.Tech. Civil Engineering 2017	10.11.201 7	21.11.201 7 & & 22.11.201 7
12.	Moments Faculty Advisor	Staff Advisor	July 2017	July 2018
13.	Survey Lab In- charge	Civil Engineering Department	July 2017	Till date
14.	Survey Lab In- charge	Civil Engineering Department	January 2009	July 2017
15.	Time Table Coordinator	Subject Allotment and Time Table preparation	02.02.201 7	06.06.201 7
16.	Apprenticeshi p Trainees recruitment - Question paper setting	Surveying Question Paper setting	21.04.201 7	24.04.201 7
17.	Civil Engineering Association Faculty Advisor	Staff Advisor	01.07.201 6	01.07.201 7
18.	Department Project Evaluation Committee (DPEC) member	M.Tech. Transportation Engineering & Management/ Civil Engineering Department	17.02.200 9	12.03.201 8
19.	Time Table coordinator	Civil Engineering Department	01.06. 2012	30.06.201 3

20.	Class committee chairperson for	M.Tech. Structural Engineering (Sem II) 2012 – 2013/ Civil Engineering Department		31.06.201 3
21.	Project coordinator for Final year B.Tech. Project	Civil Engineering Department – Project guide allotment, fixing assessment dates and conduct of final viva	19.09.201 1	11.05.201 2
22.	Time Table coordinator	Civil Engineering Department	01.04.200 9	31.07.201 1

10. Academic/Administrative Responsibilities outside the University

Sl. No	Name of the activity	Year	Given By	Role
1.	Doctoral Committee Member - Mr. N.H.RIYAZ KHAN	2021	Vellore Institute of Technology (VIT)	Committee Member
2.	Present Status and Historical Changes of Urban Green Space in Dhaka City, Bangladesh: A Remote Sensing Driven Approach	04.09.202 1	Environmental Challenges	Reviewer
3.	Advisory Committee & Technical Committee Member - 2 nd INTERNATIONAL CONFERENCE ON SUSTAINABLE CONSTRUCTIONTECHNOLOGIE S & ADVANCEMENTS IN CIVIL ENGINEERING, ScTACE 2021	14 th October 2021 – 16 th October 2021	Department of Civil Engineering, SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN, Andhra Pradesh	Advisory Committee & Technical Committee Member
4.	Advanced Surveying Tools in Civil Engineering	12 th August 2021	Department of Civil Engineering & IEEE Civil Chapter of Sri Sairam Engineering College, Chennai	Chief Guest & Invited Speaker
5.	Co-Chair for Technical Session "Transportation Planning" on 8th International Conference on Transportation Systems Engineering and Management (CTSEM 2021)	August 26, 2021	8th International Conference on Transportation Systems Engineering and Management (CTSEM 2021) Organized by Centre for Transportation	Co-Chair

6.	Chair for Technical Session for virtual International Conference on Innovative Trends in Hydrological and	28 th April 2021	Research (CTR), National Institute of Technology Calicut Water & Environment Division, Department of	Chair
	Environmental Systems ITHES 2021		Civil Engineering, NIT Warangal April 28-30, 2021	
7.	Member of Board of studies Meeting for Dept of Civil Engineering	26.02.202 1	Department of Civil Engineering, Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Avadi - Vel Tech Road, Avadi, Chennai-600062	BOS External Member
8.	Internship Drive powered by alumni	2020 – 21	30 internship offers from 15 companies	Coordinato r as Associate Dean (AR)
9.	Practical Guide to Combat Cyber Crimes	16 th February 2021	Dr. Varun Kumar, IPS, Additional Director General of Police, MP, Batch of 1989	Coordinato r as Associate Dean (AR)
10.	Reviewer for the 7th Conference on "Transportation Systems Engineering & Management" (CTSEM 2020)	December 2020	KSCTE-NATPAC and TRC-CET	Reviewer
11.	Technical Committee Member – 7 th CTSEM 2020 Conference on Transportation Systems Engineering and Management	29.12.202 0	KSCSTE- NATPAC & College of Engineering, Trivandrum	Technical Member
12.	PhD Programme Viva Voce Examination of Mr.R.Chandrasekaran	21.12.202 0	Centre for Research ANNA UNIVERSITY, Chennai	External Examiner
13.	Launch of Website for 6 th CTRG Conference	25.11.202 0	CTRG – TRG India	Coordinato r

14.	Design and Development of MEMS based Sensor to System for Earthquake Early Warning System – SERB Project Review	19.11.202 0	Science and Engineering Research Board	Reviewer
15.	Advance Terrain Inspection and Mapping Technology for Actionable Spatial Data using UAV/Drones – SERB Project Review	19.11.202 0	Science and Engineering Research Board	Reviewer
16.	PANEL DISCUSSION ON HIGHER EDUCATION ABROAD	31 October 2020, 6.15 PM	Shivangpathak(2013,Civilengineering),SoundaryaBalasubramani(2017,(2017,ChemicalEngineering),AnirudhRaghuPrakashPrakash(2019,MechanicalEngineering),RohiniMuthuvelan(2014,EEE),ArvindkrishnaSridhar(2019,CSE)CSE	Coordinato r as Associate Dean (AR)
17.	Advisory Committee & Technical Committee Member - 2020 NATIONAL VIRTUAL CONFERENCE on SUSTAINABLE CONSTRUCTION TECHNOLOGIES & ADVANCEMENTS IN CIVIL ENGINEERING, ScTACE 2020	9 th October 2020 – 10 th October 2020	Department of Civil Engineering, SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN, Andhra Pradesh	Committee & Technical
18.	TECHNICAL CORE COMMITTEE 2020 NATIONAL VIRTUAL CONFERENCE SUSTAINABLE CONSTRUCTION TECHNOLOGIES & ADVANCEMENTS IN CIVIL ENGINEERING	9 th October 2020	SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN, Andhra Pradesh	Technical Member
19.	IEIA-D-20-00301R1 "DEVELOPMENT OF AN ALGORITHM FOR BUS ROUTING AND TRACKING FOR AN EDUCATIONAL INSTITUTION: A CASE STUDY"	21.09.202 0	Journal of The Institution of Engineers (India): Series A	Reviewer

	Reviewer			
20.	Alumnicast Series#3	August 30 th , 2020	Dr. Umapthy, Former Dean (R&C) & Mr. Anirban Ghosh, VP, Shapoorji Pallonji Real Estate	Coordinato r as Associate Dean (AR)
21.	Alumnicast Series#2	July 26 th , 2020	Dr. Anantharaman, Former Professor, Dept of Chemical Engg & Mr. Suman Mishra, CTO, 3ev Industries	Coordinato r as Associate Dean (AR)
22.	Online Crash Course #1 Guerilla Marketing for the 21st century	July 4th and July 11 th , 2020	Mr. Richard Sekar, President and CEO at Liteband communications, 1983 Production Engineering	Coordinato r as Associate Dean (AR)
23.	Automotive Industry : Technological Advancements and Future trends Industry Outlook Post Covid	20 June 2020, 7.30 PM	Mr. Pradeep Jaiswal, Ford motor company, 1996 Mechanical Engineering	Coordinato r as Associate Dean (AR)
24.	Innovating and suceeding in chaos	17 June 2020, 8.00 PM	Mr. Richard Sekar, President and CEO at Liteband communications, 1983 Production Engineering	Coordinato r as Associate Dean (AR)
25.	The Cloud and Automation - Future skills for tomorrow's world	12 June 2020, 4.30 PM	Mr. K.S. Ganesan, Cognizant, 1987 ECE	Coordinato r as Associate Dean (AR)
26.	Importance of time and Money in Engineering	9 June 2020, 9.00 PM	Mr. Ravi Bhakthavachalam, Scheduling Consultant Premier Projects Planners, 1990 Civil Engineering	Coordinato r as Associate Dean (AR)
27.	Alumnicast Series#1	June 7 th , 2020	Dr. Mini Shaji Thomas, Director	Coordinato r as

28.	Project Advisory Group - Utilization of Geoinformatics Tools for development of Comprehensive road network for Kerala State being carried out by our Scientist Shri. Saran M S	20.05.202 0	NIT Trichy & Mr. Shiv Kayal, CEO, Globe Conscience, Inc. KSCSTE- NATPAC, Government of Kerala	Associate Dean (AR) Project Mentor
29.	Modern Surveying Techniques in Civil Engineering - Field Applications & Case Studies – Panelist	May 20, 2020	KHRI Webinar Series Organised by Kerala Highway Research Institute (KHRI) Public Works Department (PWD), Govt. of Kerala in association with IIT Madras, Chennai	Panelist
30.	Leading through the post pandemic world impact, challenges and implications	22 May 2020, 9.15 PM	Mr. Raja Renganathan, 1990 Electronics and Communications Engineering(ECE) , Vice president and Global head - Cloud Services	Coordinato r as Associate Dean (AR)
31.	Map your Destiny	13 May 2020, 2.30 PM	Mr. M. Manikandam, 2008 MBA(NIT Trichy)	Coordinato r as Associate Dean (AR)
32.	Redefining career opportunities	11 May 2020, 2.30 PM	Mr. Sushil Chowdary,1997 Founder and CEO, Picture time	Coordinato r as Associate Dean (AR)
33.	# BCG-2018-0010 entitled "Integration System, Analysis and Representation of Geodetic, Geological and Safety Instrumentation Information, applied to the Monitoring of Anthropic Structures." Reviewer	18.03.202 0	Boletim de Ciências Geodésicas	Reviewer

34.	Surveying I & II Question Paper Audit Member of Advisory/Review Committee for	11.03.202 0 02.01.202 0	School of Civil Engineering, SASTRA Deemed University, Thanjavur - 613402 SKN Sinhgad College	External Member Reviewer
	International Conference on Sustainable Innovations in Civil and Mechanical Engineering (ICSICME- 2020)		Sinhgad College of Engineering, Korti, Pandharpur- 413304, Maharashtra	
36.	One-day outbound Workshop on "Supporting Student Learning & Well-Being- Crafting the New Millennial"	24 th September 2019	National Institute of Technology Tiruchirappalli	Participant
37.	Board of Studies Member – Department of Civil Engineering, Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai	06.07.201 9	Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai	External Member
38.	Evaluation and Conduct of Viva- voce Examination of M.Tech.(Civil Traffic and Transportation Flanning) Theses	04-07- 2019	Department of Civil Engineering, NIT Calicut	External Examiner
39.	AICTE Margdarshan Scheme – Mentorship for Antony Vimal P from St. Xaviers Catholic College of Engineering, Nagercoil	27.05.201 9	AICTE Margdarshan Scheme	Mentor
40.	Mentoring the students on how to go about with Group Discussions and Interviews, through one to one Interaction by Mr. S. K. Sampath, Mech. Engg. alumnus of 1974 REC Batch	23 – 24 th , January 2019	Mr. S. K. Sampath, Mech. Engg. alumnus of 1974 REC Batch	Coordinato r as Associate Dean (AR)
41.	Comprehensive Viva Voce Examination - Mr. VIGNESHVYARAN S	19 th October 2018	Vellore Institute of Technology (VIT)	External Examiner & Doctoral Committee Member
42.	Reviewer for Paper 6th Annual International Conference on Architecture and Civil Engineering	2018-05- 14 to 2018-05- 15	ACE 2018, Singapore	Reviewer

43.	NASA-D-17-00194R1	04.02.201	Proceedings of the	Reviewer
	"The Outer Connected Geodetic	8	National	
	Number of a Graph" Reviewer		Academy of	
			Sciences, India	
			Section A:	
			Physical Sciences	
44.	Doctoral Committee Member for Mr.	2018	School of Civil	Doctoral
	M. Vishweshwaran		Engineering,	Committee
			SASTRA	member
45.	Doctoral Committee member for Mr.	2017	Vellore Institute of	Doctoral
	Vigneshwaran S.		Technology (VIT)	Committee
				member
46.	Doctoral Committee for Shr. N. Nasir	2016	School of Civil	Doctoral
			Engineering,	Committee
			SASTRA	member
			University	
47.	Doctoral Committee for Shr. G. Siva	2016	School of Civil	Doctoral
			Engineering,	Committee
			SASTRA	member
			University	

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

12. Fellowships

Year of Award	Name of the Fellowship	Awarding	From	То
		Organization	(Month/Year)	(Month/Year)

13. Details of Academic Work

(i) Curriculum Development

At NIT Tiruchirappalli, I have been deeply involved in the regular upgradation of the existing syllabus and inclusion of new subjects in my field of expertise. I have been involved in the modification/ formulation of the syllabus of the above mentioned subjects and these subjects are being offered for the B.Tech (Civil engineering) / M.Tech. (Transportation Engineering & Management) students at NIT Tiruchirappali.

Sl.	Course No. & Title	Level	Year	Changes incorporated
No.		(UG/PG)	Modified	
1.	CE205 Surveying I	UG	2009	Shifted Tacheometry from
				Surveying II to Surveying I
2.	CE206 Surveying II	UG	2009	Total Station, EDM
3.	CE611 GIS and Remote Sensing	PG	2009	New satellite concepts,
				applications

4.	CE453 Remote Sensing and GIS	UG	2011	New satellite concepts and applications
5.	CE462 Advanced Surveying Techniques	UG	2011	Newly introduced elective
6.	CE611 Geospatial Techniques	PG	2013, 2016	Modified the CE611 GIS and Remote Sensing and renamed the course as Geospatial Techniques
7.	CEPC14 Surveying	UG	2016	Major Modifications considering Plane Surveying Techniques
8.	CE9E33 Geodetic Surveying	UG	2016	Newly introduced Elective considering Geodetic Technqiues
9.	CE620 Advanced Surveying & Cartography	PG	2016	Newly introduced Elective
10.	CE610 CAD in Transportation Engineering	PG	2016	Modified syllabus considering more software applications in the field of Transportation Engineering
11.	CEPR11 Survey Lab	UG	2016	Introduced Advanced Surveying equipment in Lab
12.	CEMI11 Survey Practices	UG (Minors)	2016	Newly introduced Subject

(ii) Courses taught at Postgraduate and Undergraduate levels

Postgraduate level

- a. Geographic Information System and Remote Sensing
- b. Geospatial Techniques
- c. CAD Lab in Transportation Engineering

Undergraduate level

- d. Surveying I
- e. Surveying II
- f. Surveying
- g. Advanced Surveying Techniques
- h. Remote Sensing and GIS
- i. Basic Civil Engineering
- j. Introduction to Civil Engineering
- k. Survey Lab I
- 1. Survey Lab II

(iii) Projects guided at Postgraduate level

Sl. No	Title of Thesis	Name of Student	Year of Completion
1.	Assessment of First and Last Mile Trip Characteristics for Delhi Metro Users	Tarun Thapa	2021
2.	Development of Car-Following Models nder Mixed Traffic Conditions in Urban Areas	Himanshu Verma	2021
3.	Practical Approach to study the impact on Time and Cost due to Project Delays	Rajnish Kumar	2021
4.	Mode Shift Analysis of Tiruchirappalli Suburban	Akshai	2020
5.	Land Value Analysis based on Accessibility to urban facilties using GIS	Anirudh C	2020
6.	Accessibility analysis of Hospitals in Tiruchirappalli City	Dileepan K	2020
7.	Accessibility analysis of Recreational Places in Tiruchirappalli City using Geospatial Techniques	Sangeeth Suvarnan	2020
8.	Understanding Surveying Techniques in Transmission Lines and improving the accuracy of Field survey data	Ayush Gupta	2020
9.	Study of Impact of Various Influencing Factors on Bicycle Commuting	Vignesh K	2019
10.	Assessment of Level of Safety of Bus Stops in Tiruchirappalli City	Shudhir Nath Vg	2019
11.	Evaluation of Bus Stop Accessibility by Walk : A case study of Tiruchirappalli City	Ninad Vivek Ratnaparkhi	2018
12.	Impact Analysis of Built Environment on Pedestrian Accidents using GIS	Ashish Bhikan Patil	2018
13.	Accessibility Analysis of Educational Centres using Geospatial Techniques	Sanchayan Das	2018
14.	Consolidation of Bus stops and development of Transit Travel Time Model for Public Transport	Muvvala Baburao	2017
15.	Mobility of Paratransit System in Tiruchirappalli City	Banavath Babunaik	2017
16.	Residential Site Suitability Analysis using GIS	Shifa Begum R	2017
17.	Accessibility Analysis of Health Care Facility within Tiruchirappalli City using Geospatial Techniques	Shayesta Wajid	2017
18.	Accessibility and site suitability analysis of Healthcare facilities using GIS	Inturi Sai Krishna	2016
19.	Para transit system in Tiruchirappalli city	Ankit Singh Raghuwanshi	2016

20.	Identification of Risk factors for Vulnerable road users and their relation with road	Gaurav Singh	2016
21.	infrastructure Evaluation of Bus Route Network in Tiruchirappalli City	Hussain Haveliwala	2016
22.	Land Use Based Travel Demand Modelling for Tiruchirappalli City	Anu B Chand	2015
23.	Speed Detection and Management In Tiruchirappalli Using ITS	Rohith Ch	2015
24.	A Study on Residential Location Choice of households in Tiruchirappalli City	Navyatha Metta	2015
25.	GIS-GPS Based Pavement Management System for Tiruchirappalli city	Deepthi K	2015
26.	Modelling of Water Supply and Sewage Pipeline distribution for NIT Trichy using Remote Sensing and GIS Techniques	B. Subhash	2014
27.	Measuring Urban Sprawl and its impact – A case study of Trichy City	Ravindra Kumar	2014
28.	Speed Management For Urban Roads In Tiruchirappalli Using ITS	Nithin A	2014
29.	Accident Analysis Using GIS	Saleel K	2014
30.	Site Suitability Analysis For Urban Residential Development	Sunny Dhruva	2014
31.	Estimation of Origin – Destination Matrix using Bi-Level Programming	Subha Nair	2013
32.	Geospatial Based Travel Time and Delay Analysis along Tiruchirappalli Road Network	Ankit Pachouri	2013
33.	Speed Detection and Management – An ITS Application	Arif Ashraf	2013
34.	Trip Generation analysis in the Devathanam Ward of Tiruchirappalli city	Siva Prakash G.	2013
35.	Impact of Built Environment on Pedestrian- Vehicle Collision along Tiruchirappalli city road network	K R Vinod Kumar	2012
36.	GIS based Safe Bus stop location in Trichy city	Sandhiya K	2012
37.	Analysing the relation between Landuse and Travel Demand using 3S Technology	Aswathy R	2012
38.	A study in variation of Ozone concentration in atmosphere using Ozone Monitoring Instrument data	D Svega	2011
39.	Estimation of Orgin-Destination Matrix from Link Volume counts	Maneesha M	2011
40.	Quantifying the Urban Sprawl in Tiruchirappalli city	Satheesh Kumar Eerni	2011
41.	GIS – GPS based Pavement Management System	Mohammad Shinas S	2010

(iv) Other contribution(s)

- (a) Involvement in Survey Laboratory development Involved in procurement of equipment for UG/PG Curriculum (as Survey Lab In-charge), with more emphasis on advanced Surveying Lab.
- (b) Instrumental in procuring advanced surveying equipments such Total stations, digital levels and GPS of different accuracies for UG/PG curriculum and including them in the curriculum, UG, PG project works (as Survey Lab Incharge).
- (c) Instrumental in purchasing Remote Sensing Software and including it in the practical classes and for UG, PG project works.
- (d) Part of the team instrumental in upgradation/ procurement of software/equipment for the use of UG/PG project works.
- (e) Instrumental in procuring IRS images: Cartosat 1, 2 and IRS LISS III and Quickbird image of Tiruchirappalli district and including it in the subject CAD in Transportation Engineering (M.Tech. TEM) and for PG and PhD project works
- (f) Involved in including experimental exercises on GIS software package ArcGIS in CAD in Transportation Engineering (M.Tech. TEM)
- (g) Involved in including experimental exercises on Remote sensing software packages ERDAS, ENVI in CAD in Transportation Engineering (M.Tech. TEM).
- (h) Establishment of ITS (Intelligent Transportation System) Lab under Centre of Excellence in Transportation Engineering (CETransE)
 - a. Procurement of Computer Server, Personal Computers (Nos), Software for the use by B.Tech./M.Tech. students.
 - b. Procurement of ITS related sophisticated instruments such as TIRTL, PicoCount, Radar.

Sl.	ails of Major R&D I Title of Project/	Funding	Duration		Status
No.	Cost (Lakhs)	Agency	From	То	Ongoing/ Completed
1.	Urban Speed Management using ITS (7.7)	Centre of Excellence in Urban Transport (CoE), IIT Madras & MoUD	07.12.2010	29.12.2015	Completed
2.	Land use and Land cover Assessment along Tiruchirappalli City using High Resolution Remote Sensing Images (15.94)	Fast Track Research Proposal For Young Scientists, SERB (Department of Science & Technology)	22.02.2012	22.02.2014	Completed
3.	Centre of Excellence in	Ministry of Human	08.05.2013	08.05.2018	On-going

14. Details of Major R&D Projects

Transportation Engineering (CETransE)	Resources Development, Government of India			
4. Development of an Integrated Health Monitoring System for Large Engineering Structures (34.03 + 11.5*) Industry component	SERB – IMPRINT IIC	13.11.2019	13.11.2022	On-going

15. Number of PhDs guided

13. Number of Finds guide		D 1 (0 : / 0	X 7 0
Name of the PhD	Title of PhD	Role(Supervisor/ Co-	Year of
Scholar	Thesis	Supervisor)	Award
P Sathees Kumar	LAND USE	Dr. Nisha Radhakrishnan	2016
	BASED URBAN		
	TRANSPORT		
	PLANNING		
	USING		
	GEOSPATIAL		
	TECHNIQUES		
Surendar N	FLOOD RISK	Dr. Nisha Radhakrishnan	2020
	ASSESSMENT		
	IN KORAIYAR		
	RIVER BASIN		
	USING		
	HYDROLOGIC,		
	HYDRAULIC		
	AND		
	GEOSPATIAL		
	METHODS		
Shanmathi Rekha R	ACCESSIBILITY	Dr. Nisha Radhakrishnan	2022
	AND SITE		
	SUITABILITY	Dr. Samson Mathew	
	ANALYSIS FOR		
	URBAN		
	FACILITIES		
	USING		
	GEOSPATIAL		
	TECHNIQUES		

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International / National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organize d by	Venue
January 24, 2009	All Indian Workshop on "NBC 2005"	National	Participant	National Institute of Technolog y, Tiruchirap palli	National Institute of Technology, Tiruchirappalli
August 13, 2010	OnedayworkshoponUrbanTransport:ChallengesandSolutions	National	Participant	Ministry of Urban Developm ent	Department of Civil Engineering, IIT Madras
April 28 – 29, 2015	ConclaveonAcademicReforms(CAR2015)-Innovation,PracticeandRoadmap	National	Participant	National Institute of Technolog y, Tiruchirap palli	National Institute of Technology, Tiruchirappalli
May 18 – 23, 2009	NRRDA sponsored six- day Training Programme on PMGSY for the AEs of the Rural Development	National	Participant	PMGSY, NRRDA	National Institute of Technology, Tiruchirappalli
June 23 – 25, 2009	NRRDA sponsored three- day Training Programme on PMGSY for the AEEs of the Rural Development	National	Participant	PMGSY, NRRDA	National Institute of Technology, Tiruchirappalli
July 13 – 18, 2009	NRRDA sponsored six- day Training Programme on PMGSY for the	National	Participant	PMGSY, NRRDA	National Institute of Technology, Tiruchirappalli

	AEs of the Rural Development				
September 05 – 09, 2011	One week Staff development programme course on "Construction Materials and Techniques"	National	Participant	National Institute of Teachers Training and Technical Research, Chennai	National Institute of Teachers Training and Technical Research, Chennai
January 09 – 13, 2012	One week Short term course on "Introduction to Forensic Engineering and Failure Analysis"	International	Participant	National Institute of Technolog y, Tiruchirap palli and the Departme ntal of Civil and Environm ental Engineerin g, University of North Carolina at Charlotte, USA	National Institute of Technology, Tiruchirappalli,
August 19 – 20, 2011	"Global Positioning system and Differential Global Positioning system"	National	Participant	Centre for Advanced Research in Environm ent, School of Civil Engineerin g, SASTRA University	SASTRA University
July 17, 2011	First Regional Awareness Conference on "IWWA – Chennai Water Convention 2011	National	Participant	Water Authority	Tiruchirappalli
February 26 - 27, 2011	2ndNationalConferenceonGeospatialTechnologies and	National	Paper Presentation	IIT Bombay	IIT Bombay

	Applications, Geomatrix'11				
13 – 16, May 2013	Geospatial World Forum	International	Paper Presentation	Geospatial World Forum	Beurs-World Trade Centre, Rotterdam, Netherlands
April 25 – 26, 2016	ACE 2016	International	Paper Presentation	ACE	Singapore
November 24 – 25, 2016	CTSEM 2016	National	Paper Presentation	BMS College Of Engineerin g, Bangalore	BMS College Of Engineering, Bangalore
September 04 – 06, 2017	EWGT 2017	International	Paper Presentation	EWGT 2017	Hotel Gellert, Budapest, Hungary
12 th August 2021	Advanced Surveying Tools in Civil Engineering	National	Chief Guest & Invited Speaker	Departme nt of Civil Engineerin g & IEEE Civil Chapter of Sri Sairam Engineerin g College, Chennai	Department of Civil Engineering & IEEE Civil Chapter of Sri Sairam Engineering College, Chennai
August 26, 2021	Co-Chair for Technical Session "Transportation Planning" on 8th International Conference on Transportation Systems Engineering and Management (CTSEM 2021)	National	Co-Chair	8th Internation al Conferenc e on Transporta tion Systems Engineerin g and Managem ent (CTSEM 2021) Organized by Centre for Transporta tion Research (CTR), National	NIT Calicut

				Institute of Technolog y Calicut	
June 19 th , 2021	Advanced Surveying Techniques – EDM, Total Station, Photogrammetry	National	Invited Speaker	AICTE- ISTE Sponsored Faculty Refresher Program Schedule Title: Advanced Surveying Instrument s and Technique s 16 th June – 22 nd June 2021 AISSMS Polytechni c Centre of Excellence , Pune	AISSMS Polytechnic Centre of Excellence, Pune
28 th April 2021	Chair for Technical Session for virtual International Conference on Innovative Trends in Hydrological and Environmental Systems ITHES 2021	International	Chair	Water & Environm ent Division, Departme nt of Civil Engineerin g, NIT Warangal April 28- 30, 2021	NIT Warangal
17 th December 2020	Application of Advanced Surveying Tools in Civil Engineering	National	Invited Speaker	AICTE SPONSO RED One Week National Level Online STTP on Capacity Building and Training on	Department of Civil Engineering SRKR Engineering College (A), Bhimavaram, AP

	Urs			STTP on Basic of Remotes Sensing, Geographi cal	of Civil Engineering, Francis Xavier Engineering College, Vanarpettai,
9th Sep, 2020	On-hand Practical Session on "Introduction to GIS"	National	Speaker	Bhimavara m, AP, India 14 th – 18 th December 2020 Short term training program on"Soft Computin g Technique s in Civil Engineerin g: Structures, Geotechni cal, Remote Sensing and Transporta tion Applicatio ns" Sept 7th to 12th Sep, 2020 AICTE funded	SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN, Andhra Pradesh
				"Geospati al Technolog ies" (CBTGT- 2020) Departme nt of Civil Engineerin g SRKR Engineerin g College (A),	

				Informatio n System (GIS), and Global Navigatio n Satellite System (GNSS) (Phase-1) in the month of August 2020 Departme nt of Civil Engineerin g, Francis Xavier Engineerin g College, Vanarpetta i, Tirunelvel i- 627003	Tirunelveli- 627003
23.06.2020	APPLICATIONS OF ADVANCED SURVEYING TOOLS IN CIVIL ENGINEERING- CASE STUDIES	National	Invited Speaker	SHRI VISHNU ENGINEE RING COLLEG E FOR WOMEN (AUTON OMOUS) ONE WEEK SHORT TERM TRAININ G AND FACULT Y DEVELO PMENT PROGRA M On Recent Advancem	SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN AP

May 20, 2020	Modern Surveying Techniques in Civil Engineering - Field Applications & Case Studies – Panelist	National	Panelist	ents in Civil Engineerin g: Challenge s and Future Perspectiv es- PART II 22 JUNE- 27 JUNE,202 0 KHRI Webinar Series Organised by Kerala Highway Research Institute (KHRI) Public Works Departme nt (PWD), Govt. of Kerala in associatio n with IIT Madras, Chennai	Kerala Highway Research Institute (KHRI)
24 th September 2019	One-day outbound Workshop on "Supporting Student Learning & Well-Being- Crafting the New Millennial"	National	Participant	National Institute of Technolog y Tiruchirap palli	National Institute of Technology Tiruchirappalli

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
"PERSPECTIVES AND CHALLENGES IN OUTCOME BASED RESEARCH", under the aegis of AICTE Margdharshan Scheme	National	13TH - 17TH JULY, 2020	Coordinator	(via Online mode)
Women in Science and Technology: Breaking the Glass Ceiling", sponsored by Policy Monitoring and Research Cell of The National Commission for Women	National	March 18 th – 23 rd , 2019	Coordinator	National Institute of Technology Tiruchirappalli
Faculty Start-ups	National	March 24 th , 2018	Organizing team	National Institute of Technology Tiruchirappalli
Traffic Simulation Tools	National	August 24 - 26, 2017	Coordinator	Dept. of Civil Engg., National Institute of Technology Tiruchirappalli
Application of Total Station/GPS in Survey	National	January 19 – 20, 2017	Coordinator	Dept. of Civil Engg., National Institute of Technology Tiruchirappalli
Sustainability in Road Construction	National	December 17, 2016	Coordinator	Dept. of Civil Engg., National Institute of Technology Tiruchirappalli
Binder Rheology	National	December 15 - 17, 2016	Coordinator	Dept. of Civil Engg., National Institute of

				Technology Tiruchirappalli
Recent trends in Pavement Engineering	National	December 12 - 14, 2016	Coordinator	Dept. of Civil Engg., National Institute of Technology Tiruchirappalli
Traffic Simulation Tools	National	December 01 – 03, 2016	Coordinator	Dept. of Civil Engg., National Institute of Technology Tiruchirappalli
Recent Trends in Transportation Engineering	National	July 11 – 16, 2016	Coordinator	Dept. of Civil Engg., National Institute of Technology Tiruchirappalli
ArcGIS Desktop	National	August 13 – 14, 2015	Coordinator	Dept. of Civil Engg., National Institute of Technology Tiruchirappalli
Transportation Infrastructure Planning – Latest Technologies	National	November 21 – 22, 2013	Coordinator	Dept. of Civil Engg., National Institute of Technology Tiruchirappalli

18. Invited Talks delivered

Торіс	Date	Inviting Organization		
Global Positioning System	February 17, 2009	Institution of Engineers (India)		
and its application		Tiruchirappalli Local Centre		
Advanced Surveying	August 24, 2011	Oxford College of Engineering,		
Techniques		Tiruchirappalli		
Application of GPS in	May 16, 2012	Summer Training Programm eon		
Deformation Monitoring		"Geospatial Technologies and		
		Applications, Dept. of		
		Geography, Bharathidasan		
		University, Trichy		
Introduction to Surveying	August 8, 2012	Department of Civil Engineering,		
		Oxford College of Engineering,		
		Tiruchirappalli		

Remote Sensing	August 8, 2012	Department of Civil Engineering, Oxford College of Engineering, Tiruchirappalli
Application of GIS and Remote Sensing in Urban Planning	12th to 17th April 2013, 15 th April 2013	Short Term Training Programme, "Innovative Techniques and Practices in Building Technology", Department of Civil Engineering, Government Engineering College, Barton Hill, Thiruvananthapuram
Advanced Surveying Techniques – Speaker and Chief Guest	11 th July 2015	One day Workshop on "Advanced Surveying Techniques", Department of Civil Engineering, TRP Engineering College, Tiruchirappalli
Geospatial Applications in Urban Planning	25 th March 2017	STTP Programme of AICTE QIP Course On "Geospatial Technology In Civil Engineering", V.J.T.I., Mumbai
Geospatial Applications in Transportation Engineering	25 th March 2017	STTP Programme of AICTE QIP Course On "Geospatial Technology In Civil Engineering", V.J.T.I., Mumbai
Advancements in Global Positioning System	30 th April 2017	Department of Civil Engineering, College of Engineering, Trivandrum, Kerala
Advanced Surveying Tools in Civil Engineering	12 th August 2021	Department of Civil Engineering & IEEE Civil Chapter of Sri Sairam Engineering College, Chennai
Advanced Surveying Techniques – EDM, Total Station, Photogrammetry	June 19 th , 2021	AICTE-ISTE Sponsored Faculty Refresher Program Schedule Title: Advanced Surveying Instruments and Techniques 16 th June – 22 nd June 2021 AISSMS Polytechnic Centre of Excellence, Pune
Application of Advanced Surveying Tools in Civil Engineering	17 th December 2020	AICTE SPONSORED One Week National Level Online STTP on Capacity Building and Training on "Geospatial Technologies" (CBTGT-2020) Department of Civil Engineering SRKR Engineering College (A), Bhimavaram, AP, India

		14 th – 18 th December 2020
On-hand Practical Session on "Introduction to GIS" – Two Sessions/Day of 1.30 hrs per session - One week online short term training program on"Soft Computing Techniques in Civil Engineering: Structures, Geotechnical, Remote Sensing and Transportation Applications" Sept 7th to 12th Sep, 2020	9th Sep, 2020	SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN, Andhra Pradesh
Introduction to GPS	17.08.2020	AICTE funded STTP on Basic of Remotes Sensing, Geographical Information System (GIS), and Global Navigation Satellite System (GNSS) (Phase-1) in the month of August 2020 Department of Civil Engineering, Francis Xavier Engineering College, Vanarpettai, Tirunelveli- 627003
APPLICATIONS OF ADVANCED SURVEYING TOOLS IN CIVIL ENGINEERING-CASE STUDIES	23.06.2020	SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN (AUTONOMOUS) ONE WEEK SHORT TERM TRAINING AND FACULTY DEVELOPMENT PROGRAM On Recent Advancements in Civil Engineering: Challenges and Future Perspectives- PART II 22 JUNE-27 JUNE,2020

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life	Organization	Membership No. with date
Member)		

Life Membership Institution of	The Institution of	AM097457 - 1
Engineers	Engineers (India)	
Life Membership India Society of	India Society of	L3606
Remote Sensing ISRS	Remote Sensing	
Life Membership Indian Society of	Indian Society of	ISG_L-1269
Geomatics ISG	Geomatics	
Life Membership Indian Geotechnical	Indian Geotechnical	LM 3655
society	Society	

20. Academic Foreign Visits

Country	Duration of Vis	sit	Programme
Taiwan	01.10.2005	to	Student Programme
	01.12.2005		
Austria	22.05.2006	to	3 rd IAG Symposium on Geodesy for
	24.05.2006		Geotechnical and Structural Engineering
			and 12 th FIG Symposium on Deformation
			Measurements
Netherlands	13.05.2013	to	Geospatial World Forum 2013
	19.05.2013		
Singapore	24.04.2016	to	ACE 2016
	28.04.2016		
Budapest	04.09.2017	to	EWGT Conference 2017
	06.09.2017		

21. Publications

(A) <u>Refereed Research Journals</u>:

Title of Paper	Journal	Volu me (No.)	Page nos.	Year	Author(s)/No. of Authors
Flood risk assessment for a medium size city using geospatial techniques with integrated flood models	Springer Climate		39-77 10.1007/ 978-3- 030- 67865- 4_3	2021	Surendar Natarajan and Nisha Radhakrishnan (2)
Simulation of Rainfall-Runoff Process for an Ungauged Catchment Using an Event- Based Hydrologic Model- A Case Study of	Journal of Earth System Science	130, Issue 1 , Article Numb er: 30	https://do i.org/10.1 007/s120 40-020- 01532-8	2021	Surendar Natarajan and Nisha Radhakrishnan (2)

Koraiyar Basin					
in					
Tiruchirappalli					
City					
Flood Hazard	Environmental	192(11	https://do	2020	Surendar Natarajan and
Delineation in	Monitoring and		<u>i.org/10.1</u>	2020	Nisha Radhakrishnan
Ungauged	Assessment), Article	<u>1.01g/10.1</u> 007/s106		(2)
Catchment by	Assessment	Numb	<u>61-020-</u>		(2)
Coupling		er: 689			
1 0		el. 009	<u>08650-2</u> .		
Hydrologic and					
Hydraulic Madala					
Models with					
Geospatial					
Techniques-A					
Case Study of					
Koraiyar Basin,					
Tiruchirappalli					
City, Tamil					
Nadu, India					
Assessment of	5	49 (4)	pages	2021	Surendar Natarajan and
Rainfall-Runoff	Indian Society		793–812		Nisha Radhakrishnan
due to the	of Remote		https://do		(2)
Impacts of Land	Sensing		i.org/10.1		
Use Changes by			007/s125		
Integrated			24-020-		
Geospatial			01260-у		
Empirical					
Approach -					
Study on					
Koraiyar Basin,					
Tiruchirappalli					
City, India					
An Integrated	Journal of	101 (2)	381-398	2020	Surendar Natarajan and
Hydrologic and	Institution of		<u>https://do</u>		Nisha Radhakrishnan
Hydraulic Flood	Engineers		<u>i.org/10.1</u>		(2)
Modeling Study	(India) Series.A		<u>007/s400</u>		
for a Medium-			<u>30-019-</u>		
Sized Ungauged			<u>00427-2</u>		
Urban					
Catchment Area:					
A Case Study of					
Tiruchirappalli					
City Using					
HEC-HMS and					
HEC-RAS					
Estimation of	Indian Journal	49 (7)	1269-	2020	Surendar Natarajan and
Flood Mitigation	of Geo Marine		1279		Nisha Radhakrishnan
Parameter for	Sciences				(2)
Tiruchirappalli					
City using					

Mathematical Relational Model					
Study of trend of Rainfall data: A Case Study of Koraiyar Basin, Tamil Nadu	5	49(11)	1772- 1778	2020	Surendar Natarajan and Nisha Radhakrishnan (2)
Spatial accessibility analysis of schools using geospatial techniques	Spatial Information Research	28 (6)	699–708 https://do i.org/10.1 007/s413 24-020- 00326-w	2020	R. Shanmathi Rekha, Nisha Radhakrishnan , Samson Mathew (3)
Accessibility Analysis for Healthcare Centers using Gravity Model and Geospatial Techniques	TeMA - Journal of Land Use, Mobility and Environment	13(1)	5-20 https://do i.org/10.6 092/1970 - 9870/641 4	2020	R. Shanmathi Rekha, Shayesta Wajid, Nisha Radhakrishnan , Samson Mathew (4)
Simulation of Extreme Event- Based Rainfall- Runoff Process of an Urban Catchment Area Using HEC- HMS	Modeling Earth Systems and Environment	5 (4)	1867– 1881 <u>https://do</u> <u>i.org/10.1</u> <u>007/s408</u> <u>08-019-</u> <u>00644-5</u>	2019	Surendar Natarajan and Nisha Radhakrishnan (2)
Accessibility Analysis of Health care facility using Geospatial Techniques	Transportation Research Procedia	27	1163– 1170	2017	Shanmathi Rekha R, Shayesta Wajid, Nisha Radhakrishnan and Samson Mathew (4)
Studying Land use - Travel Demand Interaction using 3S Technology for Tiruchirappalli city	Journal of Indian Society of Remote Sensing	Volum e 45, Issue 5	815-824	2017	Nisha Radhakrishnan, Aswathy R, Samson Mathew (3)
Land use and Transportation – Understanding Linkage between Travel Behaviour and	A journal of the Transportation Research Group of India [TRG] Transportation in Developing Economies			2015	Navyatha Metta, Nisha Radhakrishnan , Samson Mathew (3)

Residential	(Accepted for				
Location	Publication)				
Application of	,	Volum	39-47	2015	Sathees Kumar, Nisha
geospatial	Journal of	e 6,	57 17	2015	Radhakrishnan, Samson
techniques to	Sustainable	Issue 1			Mathew (3)
land suitability	Building	155uc 1			Withiew (3)
analysis	Technology and				
allalysis	Urban				
	Development				
Trin Constian		Vol. 2,		2014	Siverreleach C Nicha
Trip Generation				2014	Sivaprakash G, Nisha
Analysis in the		Issue 1			Radhakrishnan (2)
Devathanam	Scientific				
Ward of					
Tiruchirappalli	Development				
City (Tamil					
Nadu)		X 7 1		2014	
Analysis of		Volum	5555-	2014	Nisha Radhakrishnan,
Urban Sprawl		e 39,	5563		Satheesh Kumar Eerni,
Pattern in		Issue 7			Sathees Kumar P (3)
Tiruchirappalli	Engineering				
City using					
applications of					
Remote sensing					
and GIS					
technique					
Land Use	,	Volum	145-156	2014	Sathees Kumar, Nisha
Change	Natural Hazard	e 5,			Radhakrishnan, Samson
Modeling Using	and Risk	Issue 2			Mathew (3)
a Markov Model					
and Remote					
Sensing					
GIS based			207-216	2014	Sathees Kumar,
assessment of		· · · · ·			Tirumalaivasan, Nisha
Ground Water	Science and	Issue 1			Radhakrishnan (3)
Vulnerability	Engineering				
Using					
DRASTIC					
Model					
Application of				2014	Nisha Radhakrishnan
GPS in					(1)
Structural	(Accepted for				
deformation	publication)				
Monitoring: A					
Case Study on					
Koyna Dam					
Groundwater	Geomatics,	Volum	339-354	2013	Sathees Kumar,
Vulnerability	Natural Hazards	e 4,			D.Thirumalaivasan,
Assessment	and Risk	Issue 4			Nisha Radhakrishnan,
I LIGING CINITACC					Samson Mathew (4)
Using SINTACS Model					Sumson Mune (1)

Trip Matrix Estimation from Traffic Counts using Cube Land Use Land Cover Change Detection And Forecasting For Tiruchirappalli City Using Remote Sensing And GIS	International Journal of Research in Engineering & Technology Journal of Remote sensing & GIS	eISSN : 2319- 1163/p ISSN: 2321- 7308 Volum e 3, Issue 1	21-32	2013	SubhaNair,NishaRadhakrishnan,SamsonMathew (3)SatheesKumar,NishaRadhakrishnan,SamsonMathew (3)
StudyinVariationofozoneconcentrationoverIndiansubcontinentusingUsingOzoneMonitoringInstrument data	Journal of Remote sensing & GIS	Volum e 2, Issue 2	13-20	2011	Nisha Radhakrishnan, D. Svega (2)
ApplicationofGPSinidentifyingActiveFaultplane in WesternMaharashtraPeninsularShield of India	Journal Geological Society of India	Vol.77 (4)	360-366	2011	Radhakrishnan, N (1)
Monitoring Crustal deformation of Western Maharashtra Peninsular Shield of India using GPS,	Journal of the Institution of Engineering (India)	Vol. 91, FEB	39 - 42	2011	Radhakrishnan, N., Kulkarni, M. N (2)
Land use and Land cover Assessment along Tiruchirappalli	The IUP Journal of Earth Sciences	Vol. 5, No. 1,	60 - 68	2011	Parthasarathy,C.,Kumaresan, K., Sumbrui,C.,Kumar,S.,Radhakrishnan,N.,Mathew, S. (6)

city using					
Remote Sensing					
Post-seismic	The IUP Journal	Vol. 4,	45 - 55	2010	Radhakrishnan, N.,
effect of	of Earth	No. 3			Patel, P., Kulkarni, M. N.
Sumatra-	Sciences				
Andaman					
earthquake on					
Western Part of					
Indian plate					
Monitoring of	The IUP Journal	July	54 - 62	2008	Radhakrishnan, N.,
Co-seismic	of Earth	2(3),			Kulkarni, M. N., Sakr, K
Movement of	Sciences				
Koyna Dam					
using GPS, ,					
Global	Survey Review	July	629 - 636	2006	Kulkarni, M. N.,
Positioning		38(301			Radhakrishnan, N., Rai,
System in)			D.
Disaster					
Monitoring of					
Koyna Dam,					
Western					
Maharashtra.					
Deformation	GPS WORLD	Nove	14 - 19	2004	Kulkarni, M. N.,
Studies of		mber			Radhakrishnan, N., Rai,
Koyna Dam,		15(11)			D
Western India,					
Using GPS					

(B) <u>Conferences/Workshops/Symposia</u> Proceedings

Title of Abstract/ Paper	Conference Name	Venue	Year	Author(s)/ No. of
				Authors
Development of Car-following	6 th Conference of	Tiruchira	14-17	Madhu Errampalli,
Models under Mixed Traffic	Transportation	ppalli	Decem	Himanshu Verma
Conditions in Urban Areas	Research Group of		ber	and Nisha
(Submitted)	India, (CTRG-		2021	Radhakrishnan (3)
	2021)			
Analyzing The Relationship	National	NIT	2019	Surendar
Between Land Use-Land	Conference on	Trichy		Natarajan and
Cover and Rainfall-Runoff	Recent trends in	-		Nisha
Using An Integrated	Architecture &			Radhakrishnan (3)
Geospatial-Empirical SCS-CN	Civil Engineering			
Approach in Tiruchirappalli	towards Energy			
City	Efficient and			
(Published)	Sustainable			
Pp: 481 - 487	Architecture			
ISBN 978-93-5346-040-2	(NCACESD2019)			

AccessibilityAnalysisofOpenSpaceinTiruchirappalliCityusingGeospatialTechniques(Published)pg: 47 - 51ISBN : 978-81-942768-3-8AccessibilityAnalysisAccessibilityAnalysisHealthCareCareusingGeospatialTechniques	7 th Conference on Transportation Systems Engineering and Management (CTSEM) 4th Conference of the Transportation Research Group of India, CTRG 2017	Online Conferenc e Mumbai	2020 Dec 17- 20, 2017	Shanmathi Rekha, A Manikandan, Nisha Radhakrishnan and Samson Mathew (4) Shanmathi Rekha R, Shayesta Wajid, Nisha Radhakrishnan and Samson Mathew (4)
SustainablesolutionsforimprovingPublicTransportridershipinThiruvananthapuramCityAccessibilityAnalysisof	4th Conference of the Transportation Research Group of India, CTRG 2017 20 th Euro Working		Dec 17- 20, 2017 Sep 4-	Shaheem S., NishaRadhakrishnanandSamsonMathew (3)ShanmathiRekha
Health care facility using Geospatial Techniques	group on Transportation Meeting, EWGT 2017	Hungary	6, 2017	R, Shayesta Wajid, Nisha Radhakrishnan and Samson Mathew (4)
Analysis of Trend of Precipitation Data: A Case Study of Tiruchirappalli City, Tamil Nadu	International Conference on Material Mechanics and Management	College of Engineeri ng, Trivandru m	July 13- 15, 2017	Surendar Natarajan and Nisha Radhakrishnan (2)
Accessibility analysis of Health Care Facility within Tiruchirappalli city using Geospatial Techniques	3rd Conference on Transportation Systems Engineering & Management (CTSEM)	BMS College of Engineeri ng, Bengaluru , Karnataka	Nov 24-25, 2016	R. Shanmathi Rekha, Shayesta Wajid, Nisha Radhakrishnan and Samson Mathew (4)
Estimation of Urban Road Area Using GIS	3rd Conference on Transportation Systems Engineering & Management	BMS College of Engineeri ng, Bengaluru , Karnataka	Nov 24-25, 2016	Thenmozhi R, Nisha Radhakrishnan and Moses Santhakumar
Study of Impact of Built Environment on Pedestrian Accidents using GIS and Statistical Model DOI:10.5176/2031- 394X_ACE16.118	4th Annual International Conference on Architecture and Civil Engineering (ACE 2016)	Singapore	April 25-16, 2016	Nisha Radhakrishnan, K. R. Vinod Kumar, Samson Mathew (3)
Spatial Distribution of Urban Road Network in Trichy City	International Conference ICSETH-2016	PSN Engineeri ng	March 10-11, 2016	Thenmozhi R, Nisha Radhakrishnan

Using Quick-bird Satellite Image Study of Para Transit System in	on Sustainable Developments in Science Engineering Technologies and Humanities GeoSmart	College, Tirunelvel i Greater	March	and Moses Santhakumar (3) Ankit Singh
Tiruchirappalli	India/GeoSmart ASIA 2016	Noida, India	1-3, 2016	Raghuwanshi, Nisha Radhakrishnan (2)
Evaluation of Existing Road Transport Infrastructure In Trichy City using GIS	GeoSmart India/GeoSmart ASIA 2016	Greater Noida, India	March 1-3, 2016	Thenmozhi R, Nisha Radhakrishnan and Moses Santhakumar (3)
Geospatial Analysis of Accessibility and Mobility For Facilities	GeoSmart India/GeoSmart ASIA 2016	Greater Noida, India	March 1-3, 2016	ShanmathiRekhaR,NishaRadhakrishnanandSamsonMathew (3)
Land use and Transportation – Understanding Linkage between Travel Behaviour and Residential Location	3 rd Conference of the Transportation Research Group of India	Kolkata	Dec 17- 20, 2015	Navyatha Metta, Nisha Radhakrishnan, Samson Mathew (3)
GIS based Quantitative-Spatial Assessment of Existing Road Netwoek in Trichy City using Statistical Approaches	2ndNationalConferenceinTransportationSystemsEngineeringandManagement(CTSEM)	NIT Trichy	May 1- 2, 2015	Thenmozhi, Nisha Radhakrishnan , Moses Santhakumar (3)
Commuting Pattern and Residential Location Choice Analysis of Households in Tiruchirappalli City	2ndNationalConferenceInTransportationSystemsEngineeringAndManagement	NIT Trichy	May 1- 2, 2015	Navyatha Metta, Nisha Radhakrishnan, Samson Mathew (3)
Land Use Based Travel Demand Modelling for Tiruchirapalli City	2ndNationalConferenceInTransportationSystemsEngineeringAndManagement	NIT Trichy	May 1- 2, 2015	Anu B Chand, Nisha Radhakrishnan (2)
GIS-GPS based Pavement Management System for Tiruchirappalli City	2ndNationalConferenceInTransportationSystems	NIT Trichy	May 1- 2, 2015	Deepthi K, Nisha Radhakrishnan , Samson Mathew, V Sunitha (4)

	Engineering And Management			
Spatial Temporal Analysis of Urban Expansion And Population Growth in Trichy City using GIS Site Suitability Analysis for	NationalConferenceonTechnologicalInnovationsForSustainableInfrastructuresColloquiumOn	NIT Calicut NIT	March 13, 2015 May	Thenmozhi, Nisha Radhakrishnan (2) Sunny Dhruva,
Urban Residential Development	Transportation Systems Engineering And Management, CTR, CED	Calicut	12-13, 2014	Nisha Radhakrishnan (2)
Trip Matrix Estimation from Traffic Counts using Cube (Published in journal)	PDACEG: International Conference On Recent Innovations In Civil Engineering	Gulbarga, Karnataka	Oct 25- 27, 2013	Subha Nair, Dr. Nisha Radhakrishnan, Dr. Samson Mathew (3)
Impact Assessment of Built Environment on Pedestrian Accidents	Geospatial World Forum	Beurs- World Trade Centre, Rotterda m, Netherlan ds	May 13-16, 2013	Nisha Radhakrishnan, K.R.Vinodhkumar, Sathees Kumar, Samson Mathew (4)
Speed Detection And Management – 'ITS'application	India Geospatial Forum	India, Hyderaba d	Jan 22- 24, 2013	Arif Ashraf, Nisha Radhakrishnan , Samson Mathew, S. Moses Santhakumar (4)
Estimation of Origin Destination Matrix using Link Volume Counts	India Geospatial Forum	India, Hyderaba d	Jan 22- 24, 2013	Subha Nair, Sathees Kumar, Nisha Radhakrishnan , Samson Mathew (4)
Future Travel Demand Forecasting – A case study in Tiruchirappalli District	India Geospatial Forum	India, Hyderaba d	Jan 22- 24, 2013	Sivaprakash G, Nisha Radhakrishnan (2)
Travel Time and Delay Analysis using GIS and GPS	India Geospatial Forum	India, Hyderaba d	Jan 22- 24, 2013	Ankit Pachori, Nisha Radhakrishnan (2)
Urban Speed Management system using ITS	National Conference on Urban Mobility – Challenges,	IIT Madras	July 13- 14, 2012	S. Moses Santhakumar, Samson Mathew, Nisha

	solutions and prospects			Radhakrishnan (3)
The Impact of Built Environment on Pedestrian Motor Vehicle Collision along Tirichirappalli Urban Road Network	ProceedingsofGeomatrix'12,INDIA,InternationalConferenceOn GeospatialTechnologiesandApplications	IIT Bombay	Feb 26- 29, 2012	K. R. Vinodhkumar, Nisha Radhakrishnan , Sathees Kumar (3)
Analyzing the Relation between Land Use and Travel Demand Using 3S Technology	ProceedingsofGeomatrix'12,INDIA,InternationalConferenceOnGeospatialTechnologiesandApplications	Bombay	Feb 26- 29, 2012	Aswathy R, Sathees Kumar, Nisha Radhakrishnan (3)
Forecasting Urban Sprawl and Traffic Conditions in Tiruchirappalli City	Urban mobility	Delhi	Dec 3- 6, 2011	Satish Kumar Eerni, Nisha Radhakrishnan , Samson Mathew (3)
Urban Speed Management - A Case Study Of Tiruchirappalli City	Urban mobility	Delhi	Dec 3- 6, 2011	Basil Basheerudeen, Samson Mathew, Moses Santhakumar, Nisha Radhakrishnan (4)
Structural Deformation Monitoring of Large Engineering Structures using GPS: A Case study on Koyna Dam, Western Maharashtra	2nd National Conference on Geospatial Technologies and Applications, Geomatrix'11	IIT Bombay, Mumbai	Feb 26- 27, 2011	Nisha Radhakrishnan , Madhav N Kulkarni (2)
Estimation of Origin and Destination Matrix from Link Volume Counts using Bi-Level Programming	Geospatial World Forum	Hyderaba d	Jan 18- 21, 2011	Maneesha M, Nisha Radhakrishnan, Samson Mathew (3)
Land Use Change Analysis in Tiruchirappalli City Using Remote sensing and GIS	Geospatial World Forum	Hyderaba d	Jan 18- 21, 2011	Sathees kumar, Nisha Radhakrishnan, Samson Mathew (3)
A Study on NPS Modelling in River Cauvery Using GIS	Geospatial World Forum	Hyderaba d	Jan 18- 21, 2011	Sankar Cheela, Parvathy Nair A, Jaya Krishna A,

				Nisha Radhakrishnan (4)
GIS based Traffic Management Techniques for Vizianagaram city	Urban Mobility India	Delhi	Dec 3- 5, 2010	Satish Kumar Eerni, VR Sankar Cheela, Nisha Radhakrishnan (3)
GIS-GPS Based Pavement Management System	National Symposium for Post Graduate Students NSPGS 2010	PSG College of Technolo gy, Coimbato re	April 24-25, 2010	Mohammed Shinas S, Nisha Radhakrisnan , Sunitha V (3)
Remote sensing and GIS in land use planning	11 th ESRI India User Conference 2010	Noida	April 21 – 22, 2010	Sathees kumar P, Nisha Radhakrishnan (2)
Study of recent crustal movements around artificial lakes, Case studies: Aswan Lake, Egypt and Koyna Lake in Western Maharashtra, India	The Eleventh General Scientific Meeting	Helwan, Cairo, Egypt	Dec 17- 21, 2006	Kamal Sakr, Abdel- Morem Mohamed, Madhav N. Kulkarni, Nisha Radhakrishnan (4)
Study of ongoing Deformation of field and record of dam movement during Earthquake by GPS on Koyna dam	APSG 2006	Jeju Island, South Korea	16-18 October 2006	M N Kulkarni, Nisha R, Kamal Sakr (3)
GPS Measurement of Koyna Dam Deformation during Occurrence of Local Earthquakes	VI Hotine – Marussi Symposium of Theoretical and Computational Geodesy	Wuhan Universit y, China	29 th May – 2 nd June 2006	Nisha Radhakrishnan, Madhav N. Kulkarni, Kamal Sakr (3)
Direct GPS measurement of Koyna Dam during Earthquake	3rdIAGSymposiumonGeodesyforGeotechnicalandStructuralEngineeringEngineeringand12 th FIGSymposiumonDeformationMeasurements	Baden, Austria	May 22 – 24, 2006	Nisha Radhakrishnan, Madhav N. Kulkarni, Kamal Sakr (3)
Global Positioning System in Disaster Monitoring of Koyna Dam, Western Maharashtra	ISRS Annual Convention and National Symposium on Converging Space Technologies for	Jaipur	Novem ber 3 – 5, 2004	Madhav N. Kulkarni, Nisha Radhakrishnan , Deepa Rai (3)

Techniques for Monitoring Deformation in Large Engineering Structures	National Development Proceedings of the Third International Symposium on NEW TECHNOLOGIES FOR URBAN SAFETY OF MEGA CITIES IN ASIA		October 18-19, 2004	Madhav N. Kulkarni, Nisha Radhakrishnan , Deepa Rai (3)
Monitoring deformations of Koyna Dam using GPS	World Conference on Disaster manangement DMIC-2003	Hyderaba d	Novem ber 10- 12, 2003	Kulkarni, M.N., Nisha R ., V.S. Tomar, P. Pillai (4)
Studies on Ozone and trace gases with HALOE over India	ISRS Annual Convention 2003, National Symposium on Resource Management with Special Reference to Geoinformatics and Decentralized Planning	Trivandru m	Decem ber 9- 12, 2003	Nisha Radhakrishnan, Sanjeev Kumar, M.V.R. Murti and C.S.Rao (4)
Comparison of zone mixing ratios of MLS and HALOE and trace gas studies of UARS satellite data over Indian subcontinent	Symposium on Advances on Microwave Remote Sensing Applications	IIT Bombay, Mumbai	January 21-23, 2003	Nisha Radhakrishnan, M.V.R. Murti and C.S.Rao (3)