

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae



Brief Profile: 1-2 paragraphs (not exceeding 500 words)

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 project worth INR 2.2 Crores in the domain of land use land cover assessment, urban planning, transport planning and ITS. She has completed one 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 completed one Ph.D. candidate and is currently guiding three Ph.D. students in the areas of Land use based urban planning, Land use based Transportation Planning and Flood modelling. She has guided over 24 PG projects in the mentioned areas over the last 8 years and is currently guiding 4 more students. 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 in total 12 international publications and 7 National Publications in the research areas of GPS, Remote sensing and GIS in urban planning, land use assessment and Transportation Engineering. She has over 40 publication papers in International and National conferences on Geospatial technology/ Transportation Engineering. She has been serving as a Survey Lab in charge for the last 8 years 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 worth INR 6.5 Lakhs 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.

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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 (Honors)	Civil Engineering
A.I.S.S.C.E (10+2)	C.B.S.E	1996 - 1997	79.2 % Distinction (Honors)	Science Stream
A.I.S.S.E (Class 10 th)	C.B.S.E	1994 – 1995	78 % Distinction (Honors)	-

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Survey Lab In-charge	Civil Engineering Department	January 2009	Till date
Time Table coordinator	Civil Engineering Department	April 2009	July 2011
Project coordinator for Final year B.Tech. Project	Civil Engineering Department	2011	2012
Time Table coordinator	Civil Engineering Department	June 2012	June 2013
Department Project Evaluation Committee (DPEC) member	M.Tech. Transportation Engineering & Management/ Civil Engineering Department	2011	2012
Department Project Evaluation Committee (DPEC) member	M.Tech. Transportation Engineering & Management/ Civil Engineering Department	2012	2013
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Department Project Evaluation Committee (DPEC) member	M.Tech. Transportation Engineering & Management/ Civil Engineering Department	2014	2015
Department Project	M.Tech. Transportation Engineering	2015	2016

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Evaluation Committee (DPEC) member	& Management/ Civil Engineering Department		
Department Project Evaluation Committee (DPEC) member	M.Tech. Transportation Engineering & Management/ Civil Engineering Department	2016	2017
Department Project Evaluation Committee (DPEC) member	M.Tech. Transportation Engineering & Management/ Civil Engineering Department	2017	2018
Class committee chairperson for	M.Tech. Structural Engineering (Sem II) 2012 – 2013/ Civil Engineering Department	2012	2012
Staff Advisor Pragyan 2012	Institute Level	2011	2012
Annual Sports Da'12 – Medical Aid Committee	Institute Level	April 12, 2012 04.04.2012	-
Staff Advisor Pragyan 2013	Institute Level	2012	2013
First Year Orientation Programme Member	Institute Level/Civil Department	2013 July 19, 2013	
Staff Advisor Pragyan 2016	Institute Level	2015	2016
Stock Verification Officer for Physics Department	Institute Level	17.06.2013	
Stock Verification Officer for Physical Education Department	Institute Level	04/07/2014	
Stock Verification Officer for Metallurgical & Material Science	Institute Level	06/04/2016	
CPDA Committee member	Institute Level	18.07.2016	
Civil Engineering Association Faculty Advisor	Institute Level	2016	2018
Institute Transport Committee Member	Institute Level	November 2016 22.11.2016	To date

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Media Interface of NITT (MINT) Member	Institute Level	13.02.2017	To date
Press and Media Committee - Convocation 2017	Institute Level	June 28, 2017	August, 12, 2017
Convocation 2016 – Registration Committee	Institute Level	2016	2016
MIS – Academic Office Committee for Civil Department	Institute Level/Department Level	2017	2018

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Doctoral Committee member for Shr. N. Nasir	School of Civil Engineering, SASTRA University	2016	Till Date
Doctoral Committee member for Shr. G. Siva	School of Civil Engineering, SASTRA University	2016	Till date
Doctoral Committee member for Mr. Vigneshwaran S.	Vellore Institute of Technology (VIT)	2017	Till Date

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
26-27,2011	2nd National Conference on Geospatial Technologies and Applications, Geomatrix'11	IIT Bombay, Mumbai

12. Fellowships

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

13. Details of Academic Work

(i) Curriculum Development

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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 Tiruchirappalli.

Sl. No.	Course No. & Title	Level (UG/PG)	Year Modified	Changes incorporated
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 Techniques
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

The course objectives, syllabus and course outcomes thus formulated for the above mentioned subjects are given in Annexure I.

Other contribution(s):

- (a) Involvement in Survey Laboratory development - Involved in procurement of equipment for UG/PG Curriculum (as Survey Lab In-charge). – Annexure II

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- (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 In-charge).
 - (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.
- (ii) Courses taught at Postgraduate and Undergraduate levels
- (i) Postgraduate level
 - a. Geographic Information System and Remote Sensing
 - b. Geospatial Techniques
 - c. CAD Lab in Transportation Engineering
 - (ii) Undergraduate level
 - a. Surveying I
 - b. Surveying II
 - c. Surveying
 - d. Advanced Surveying Techniques
 - e. Remote Sensing and GIS
 - f. Basic Civil Engineering
 - g. Introduction to Civil Engineering
 - h. Survey Lab I
 - i. Survey Lab II

(iii) Projects guided at Postgraduate level

Sl. No.	Name	Year of Completion	Specialization	Title of Thesis
1.	Mohammad Shinas S	2009 - 2010	TEM	GIS – GPS based Pavement Management System
2.	Satheesh Kumar Eerni	2010 - 2011	TEM	Quantifying the Urban Sprawl in Tiruchirappalli city

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3.	Maneesha M	2010 - 2011	TEM	Estimation of Orgin-Destination Matrix from Link Volume counts
4.	D Svega	2010 - 2011	EE	A study in variation of Ozone concentration in atmosphere using Ozone Monitoring Instrument data
5.	Aswathy R	2011 - 2012	TEM	Analysing the relation between Landuse and Travel Demand using 3S Technology
6.	Sandhiya K	2011 - 2012	TEM	GIS based Safe Bus stop location in Trichy city
7.	Vinod Kumar K R	2011 - 2012	TEM	Impact of Built Environment on Pedestrian-Vehicle Collision along Tiruchirappalli city road network
8.	Siva Prakash	2012 - 2013	TEM	Travel Demand Forecasting for Tiruchirappalli District
9.	Arif Ashraf	2012 - 2013	TEM	Speed Detection and Management – An ITS Application
10.	Ankit Pachouri	2012 - 2013	TEM	Geospatial Based Travel Time and Delay Analysis along Tiruchirappalli Road Network
11.	Subha Nair	2012 - 2013	TEM	Estimation of Origin – Destination Matrix using BI-Level Programming
12.	Sunny Dhruva	2013 - 2014	TEM	Site Suitability Analysis For Urban Residential Development For Tiruchirappalli City
13.	Saleel K	2013 - 2014	TEM	Accident Analysis Using GIS
14.	Nithin A	2013 - 2014	TEM	Speed Management For Urban Roads In Tiruchirappalli Using ITS
15.	Ravindra Kumar	2013 - 2014	TEM	Urban Sprawl In Tiruchirappalli City Using GIS
16.	B. Subhash	2013 - 2014	EE	Modelling of Water Supply and Sewage Pipeline distribution for NIT Trichy using Remote Sensing and GIS Techniques
17.	Deepthi K	2014 - 15	TEM	GIS-GPS Based Pavement Management System
18.	Navyatha M	2014 - 15	TEM	Residential Modeling for Tiruchirappalli City
19.	Rohith Ch	2014 - 15	TEM	Speed Management For Urban Roads In Tiruchirappalli Using ITS
20.	Anu B Chand	2014 - 15	TEM	3S Technology Based Travel Demand Modeling

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21.	Hussain Daruwala	2015 -16	TEM	Evaluation of Bus Route Network in Tiruchirappalli City
22.	Gaurav Singh	2015 - 16	TEM	Identification of Risk factors for Vulnerable road users and their relation with road infrastructure
23.	Ankit Singh Raghuwanshi	2015 - 16	TEM	Study of Para transit system in Tiruchirappalli city
24.	I. Sai Krishna	2015 - 16	TEM	Accessibility and site suitability analysis of Healthcare facilities using GIS
25.	Shayesta Wajid	2016 - 17	TEM	Accessibility Analysis of Health Care Facility within Tiruchirappalli City
26.	Shifa	2016 – 17	TEM	Residential Site Suitability Analysis using GIS and Linguistic Quantifiers
27.	Babu Naik	2016 - 17	TEM	Mobility of Paratransit System in Tiruchirappalli City
28.	Babu Rao	2016 - 17	TEM	Consolidation of Bus stops and development of Transit Travel Time Model for Public Transport

(iv) Other contribution(s)

- (i) Involvement in Survey Laboratory development - Involved in procurement of equipment for UG/PG Curriculum (as Survey Lab In-charge). – *Annexure II*
- (j) 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 In-charge).
- (k) Instrumental in purchasing Remote Sensing Software and including it in the practical classes and for UG, PG project works.
- (l) Part of the team instrumental in upgradation/ procurement of software/equipment for the use of UG/PG project works.
- (m) 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
- (n) Involved in including experimental exercises on GIS software package ArcGIS in CAD in Transportation Engineering (M.Tech. TEM)
- (o) Involved in including experimental exercises on Remote sensing software packages ERDAS, ENVI in CAD in Transportation Engineering (M.Tech. TEM).

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- (p) 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.

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Urban Speed Management using ITS (7.7)	Centre of Excellence in Urban Transport, IIT Madras and Ministry of Urban Development	2010	2015	(a) Purchase of ANPR-Radar system and Inductive loop detector (b) Guided M.Tech Projects – 3 Nos. (c) Conferences - 3
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)	2012	2014	(a) Purchase of Quickbird and IRS images, ERDAS 2011 software (b) PhD candidate completed – 1 No. and 1 No. ongoing (c) M.Tech. projects completed – 11 (d) Journals – 8 (e) Conferences - 12
Centre of Excellence in Transportation Engineering (200)	MHRD, Government of India	2013	2017	(a) Purchase initiator for purchase of instruments and software required for the Traffic/ ITS/ GIS related works (b) Lab Incharge for ITS Lab at NIT Trichy (c) PhD Candidate Ongoing - 1 (d) M.Tech. projects Ongoing - 4 (e) Conferences - 6
Urban Speed Management using ITS (7.7)	Centre of Excellence in Urban Transport, IIT Madras and	2010	2015	(a) Purchase of ANPR-Radar system and Inductive loop detector (b) Guided M.Tech

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	Ministry of Urban Development			Projects – 3 Nos. (c) Conferences - 3
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15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
P Sathees Kumar	Land Use Based Urban Transport Planning using Geospatial Techniques	Supervisor	2016

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 Organized by	Venue
January 24, 2009	All Indian Workshop on “NBC 2005”	National	Participant	National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli
August 13, 2010	One day workshop on Urban Transport: Challenges and Solutions	National	Participant	Ministry of Urban Development	Department of Civil Engineering, IIT Madras
April 28 – 29, 2015	Conclave on Academic Reforms (CAR 2015)– Innovation, Practice and Roadmap	National	Participant	National Institute of Technology, Tiruchirappalli	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,	NRRDA sponsored six-day Training	National	Participant	PMGSY, NRRDA	National Institute of

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2009	Programme on PMGSY for the AEs of the Rural Development				Technology, Tiruchirappalli
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 Technology, Tiruchirappalli and the Departmental of Civil and Environmental Engineering, 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 Environment, School of Civil Engineering, 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	2nd National Conference on Geospatial Technologies and Applications, Geomatrix'11	National	Paper Presentation	IIT Bombay	IIT Bombay
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 Engineering, Bangalore	BMS College Of Engineering,

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					Bangalore
September 04 – 06, 2017	EWGT 2017	International	Paper Presentation	EWGT 2017	Hotel Gellert, Budapest, Hungary

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
Workshop				
GIS – GPS Based Pavement Management System	National	April 2015	organizer	CETransE - NITT, CEoUT- IIT Madras, MHRD,
Transportation Infrastructure Planning – Latest Technologies	National	November 21-22, 2013	coordinator	CETransE NITT
Recent Trends in Transportation Engineering	National	July 11-16, 2016	coordinator	TEQIP II NITT
Traffic Simulation Tools	Nationals	December 01-03, 2016.	coordinator	CETransE NITT
Recent trends in Pavement Engineering	National	December 12 - 14, 2016	coordinator	CETransE, NITT
Binder Rheology	National	December 15 - 17, 2016	coordinator	CETransE, NITT
Application of Total Station/GPS in Survey	Local	January 19 – 20, 2017	organizer	NITT
Conferences				
2 nd Conference on Transportation Systems Engineering and Management	National	May 1 – 2, 2015	Organizing Secretary	NITT

18. Invited Talks delivered

Topic	Date	Inviting Organization
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Global Positioning System and its application	February 17, 2009	Institution of Engineers (India), Tiruchirappalli Local Centre
Advanced Surveying Techniques	August 24, 2011	Oxford College of Engineering, Tiruchirappalli
Application of GPS in Deformation Monitoring	May 16, 2012	Summer Training Program on "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

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Membership Institution of Engineers	The Institution of Engineers (India)	AM097457 - 1
Life Membership India Society of Remote Sensing ISRS	India Society of Remote Sensing	L3606
Life Membership Indian Society of Geomatics ISG	Indian Society of Geomatics	ISG_L-1269
Life Membership Indian Geotechnical society	Indian Geotechnical Society	LM 3655

20. Academic Foreign Visits

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

21. Publications

(A) Refereed Research Journals:

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Author(s)	Title of Paper	Journal	Volume (No .)	Page numbers	Year	Impact Factor of the Journal (Optional)
Kulkarni, M. N., Radhakrishnan, N. , Rai, D., 2004	Deformation Studies of Koyna Dam, Western India, Using GPS	GPS WORLD	15(11)	14 - 19	2004	
Kulkarni, M. N., Radhakrishnan, N. , Rai, D.	Global Positioning System in Disaster Monitoring of Koyna Dam, Western Maharashtra	Survey Review	38(301)	629 - 636	2006	
Radhakrishnan, N	Application of GPS in identifying Active Fault plane in Western Maharashtra Peninsular Shield of India,	Journal Geological Society of India	77	360-366	2011	
Nisha Radhakrishnan, D. Svega,	Study in variation of ozone concentration over Indian subcontinent using Ozone Monitoring Instrument data	Journal of Remote sensing & GIS	2	13-20	2011	
Sathees Kumar, Nisha Radhakrishnan, Samson Mathew,	Land Use Land Cover Change Detection And Forecasting For Tiruchirappalli City Using Remote Sensing And GIS	Journal of Remote sensing & GIS	3	21-32	2012	
Sathees Kumar, D.Thirumalaivasan, Nisha Radhakrishnan, Samson Mathew,	Groundwater Vulnerability Assessment Using SINTACS Model	Geomatics, Natural Hazards and Risk	4	339-354	2013	
Sathees Kumar, Nisha Radhakrishnan, Samson Mathew	Land Use Change Modeling Using a Markov Model and Remote Sensing	Geomatics, Natural Hazard and Risk	5	145-156	2014	
Sathees Kumar, Tirumalaivasan, Nisha	GIS based assessment of Ground Water Vulnerability Using	The Arabian Journal for Science and	39	5555-5563	2014	

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Radhakrishnan	DRASTIC Model	Engineering				
Sivaprakash, Nisha Radhakrishnan	Trip Generation Analysis in the Devathanam Ward of Tiruchirappalli City (Tamil Nadu)	IJSRD - International Journal For Scientific Research & Development	2	2321-0613	2014	
Sathees Kumar, Nisha Radhakrishnan, Samson Mathew	Application of geospatial techniques to land suitability analysis	International Journal of Sustainable Building Technology and Urban Development	6	39-47	2015	
Nisha Radhakrishnan, Aswathy R, Samson Mathew	Studying Land use - Travel Demand Interaction using 3S Technology for Tiruchirappalli city	Journal of Indian Society of Remote Sensing	45	815-824	2017	
Shanmathi Rekha R, Shayesta Wajid, Nisha Radhakrishnan and Samson Mathew	Spatial Accessibility Analysis and Location-Allocation of Healthcare Service using Geospatial Techniques	20 th Euro Working group on Transportation Meeting, EWGT 2017	27	1163–1170	2017	
National						
Radhakrishnan, N., Kulkarni, M. N., Sakr	Monitoring of Co-seismic Movement of Koyna Dam using GPS	The IUP Journal of Earth Sciences	2(3)	54 – 62	2008	
Radhakrishnan, N., Kulkarni, M. N.,	Monitoring Crustal deformation of Western Maharashtra Peninsular Shield of India using GPS	Journal of the Institution of Engineering (India)	91	39 – 42	2010	
Radhakrishnan, N., Patel, P., Kulkarni, M. N.,	Post-seismic effect of Sumatra-Andaman earthquake on Western Part of Indian plate	The IUP Journal of Earth Sciences	4	45 – 55	2010	
Parthasarathy, C., Kumaresan, K., Sumbui, C., Kumar, S., Radhakrishnan, N., Mathew, S.,	Land use and Land cover Assessment along Tiruchirappalli city using Remote Sensing	The IUP Journal of Earth Sciences	5	60-68	2011	

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Nisha Radhakrishnan	Application of GPS in Structural deformation Monitoring: A Case Study on Koyna Dam	Indian Journal of Geomatics			2014	
Subha Nair, Dr. Nisha Radhakrishnan , Dr. Samson Mathew	Trip Matrix Estimation from Traffic Counts using Cube	IC-RICE 2013			2013	
Navyatha Metta, Nisha Radhakrishnan , Samson Mathew	Land use and Transportation – Understanding Linkage between Travel Behaviour and Residential Location	A journal of the Transportation Research Group of India [TRG			2015	

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
Nisha Radhakrishnan, Madhav N. Kulkarni, Kamal Sakr	Direct GPS measurement of Koyna Dam during Earthquake”,	3rd IAG Symposium on Geodesy for Geotechnical and Structural Engineering		12th FIG Symposium on Deformation Measurements	Baden, Austria,	May 22 – 24, 2006.
Nisha Radhakrishnan , Madhav N. Kulkarni, Kamal Sakr, VI Hotine – Marussi	GPS Measurement of Koyna Dam Deformation during Occurrence of Local Earthquakes	Symposium of Theoretical and Computational Geodesy: Challenge and Role of Modern Geodesy		VI Hotine – Marussi Symposium of Theoretical and Computational Geodesy Challenge and Role of Modern Geodesy	Wuhan University, China	29 th May – 2 nd June 2006
M N Kulkarni, Nisha R, Kamal Sakr	Study of ongoing Deformation of field and	APSG 2006			Jeju Island, South Korea	16-18 October 2006

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	record of dam movement during Earthquake by GPS on Koyna dam					
Kamal Sakr, Abdel-Morem Mohamed, Madhav N. Kulkarni, Nisha Radhakrishnan	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,	Cairo, Egypt	17 – 21, 2006
Satish Kumar Eerni, VR Sankar Cheela, Nisha Radhakrishnan	GIS based Traffic Management Techniques for Vizianagara m city			Urban Mobility India	India	December 3 – 5, 2010.
Sankar Cheela, Parvathy Nair A, Jaya Krishna A, Nisha Radhakrishnan	"A Study on NPS Modelling in River Cauvery Using GIS			Geospatial World Forum, Hyderabad,	India	18 - 21 January 2011
Sathees kumar, Nisha Radhakrishnan , Samson Mathew	Land Use Change Analysis in Tiruchirappalli City Using Remote sensing and GIS			Geospatial World Forum, Hyderabad	India	18 - 21 January 2011

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, Maneesha M, Nisha Radhakrishnan, Samson Mathew, , “	Estimation of Origin and Destination Matrix from Link Volume Counts using Bi-Level Programmin g”			Geospatial World Forum, Hyderabad	India	18 - 21 January 2011.
Samson Mathew, Moses Santhakumar, Nisha Radhakrishnan,	“Urban Speed Management - A Case Study Of Tiruchirappalli City”			Urban mobility, Delhi,.	India	December 3 – 6, 2011
Satish Kumar Eerni, Nisha Radhakrishnan, Samson Mathew,	“Forecasting Urban Sprawl and Traffic Conditions in Tiruchirappalli City”			Urban mobility, Delhi,		December 3 – 6, 2011
Aswathy R, Sathees Kumar, Nisha Radhakrishnan,	“Analyzing the Relation between Land Use and Travel Demand Using 3S Technology.	Proceedings of Geomatrix’12, INDIA, International Conference on Geospatial Technologies and Applications,	.		IIT Bombay.	February 26 – 29, 2012
K. R. Vinodhkumar, Nisha Radhakrishnan	The Impact of Built Environment on Pedestrian Motor Vehicle Collision along Tirichirappalli Urban Road Networ	<i>Proceedings of Geomatrix’12</i>		International Conference on Geospatial Technologies and Applications	IIT Bombay	February 26 – 29, 2012
Ankit Pachori, Nisha Radhakrishnan	“Travel Time and Delay	India Geospatial			Internal Convention	22 -24 January

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	Analysis using GIS and GPS	Forum, Hyderabad			Centre, Hyderabad	2013
Sivaprakash G, Nisha Radhakrishnan	Future Travel Demand Forecasting – A case study in Tiruchirappalli District	India Geospatial Forum, Hyderabad			Internal Convention Centre, Hyderabad	22 -24 January 2013
Subha Nair, Sathees Kumar, Nisha Radhakrishnan , Samson Mathew	Estimation of Origin Destination Matrix using Link Volume Counts	India Geospatial Forum, Hyderabad			Internal Convention Centre, Hyderabad	22 -24 January 2013
Nisha Radhakrishnan , K.R.Vinodhkumar, Sathees Kumar, Samson Mathew	Impact Assessment of Built Environment on Pedestrian Accidents	India Geospatial Forum, Hyderabad			Internal Convention Centre, Hyderabad	22 -24 January 2013
Nisha Radhakrishnan , K.R.Vinodhkumar, Sathees Kumar, Samson Mathew	Impact Assessment of Built Environment on Pedestrian Accidents	Geospatial World Forum, Beurs-World Trade Centre,			Rotterdam, Netherlands	13 – 16, May 2013
Subha Nair, Dr. Nisha Radhakrishnan , Dr. Samson Mathew	Trip Matrix Estimation from Traffic Counts using Cube	IC-Rice 2013		International Conference On Recent Innovations In Civil Engineering, Gulbarga, Karnataka	Pdaceg – Karnataka - India	October 25 -27, 2013
Ankit Singh Raghuvanshi, Nisha Radhakrishnan ,	Study of Para Transit System in Tiruchirappalli	GeoSmart India/GeoSmart ASIA 2016			Greater Noida India	March 1-3, 2016
Thenmozhi R, Nisha Radhakrishnan and Moses Santhakumar	Spatial Distribution of Urban Road	GeoSmart India/GeoSmart ASIA 2016			Greater Noida India	March 1-3, 2016

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	Network in Trichy City Using Quick-bird Satellite Image					
Nisha Radhakrishnan, K. R. Vinod Kumar, Samson Mathew	Study of Impact of Built Environment on Pedestrian Accidents using GIS and Statistical Model	4th Annual International Conference on Architecture and Civil Engineering (ACE 2016)			Singapore	April 25 – 26, 2016
Surendar Natarajan and Nisha Radhakrishnan	Analysis of Trend of Precipitation Data: A Case Study of Tiruchirappalli City, Tamil Nadu	International Conference on Material Mechanics and Management, College of Engineering			Trivandrum	13-15 July 2017,
Shanmathi Rekha R, Shayesta Wajid, Nisha Radhakrishnan	Spatial Accessibility Analysis and Location-Allocation of Healthcare Service using Geospatial Techniques	20 th Euro Working group on Transportation Meeting, EWGT 2017,			Budapest, Hungary	September 04 – 06, 2017
<i>National conference proceedings</i>						
Nisha Radhakrishnan, M.V.R. Murthi and C.S.Rao,	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, Sanjeev Kumar,	Studies on Ozone and trace gases	National Symposium on Resource		ISRS Annual Convention 2003	Trivandrum, Kerala,	, December 9-12,

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M.V.R. Murti and C.S.Rao,	with HALOE	Management with Special Reference to Geoinformatics and Decentralized Planning, Trivandrum				2003.
Nisha R., V.S. Tomar, P. Pillai,	Monitoring deformations of Koyna Dam using GPS	World Conference on Disaster management		DMIC-2003	Hyderabad	November 10-12, 2003
Madhav N. Kulkarni, Nisha Radhakrishnan, Deepa Rai	Techniques for Monitoring Deformation in Large Engineering Structures	Deepa Rai, Proceedings of the Third International Symposium on NEW TECHNOLOGIES FOR URBAN SAFETY OF MEGA CITIES IN ASIA			Agra	October 18-19, 2004
Madhav N. Kulkarni, Nisha Radhakrishnan, Deepa Rai	Global Positioning System in Disaster Monitoring of Koyna Dam, Western Maharashtra	ISRS Annual Convention and National Symposium on Converging Space Technologies for National Development			Jaipur	November 3 – 5, 2004.
Sathees kumar P, Nisha Radhakrishnan	Remote sensing and GIS in land use planning	11 th ESRI India User Conference 2010			Noida	April 21 – 22, 2010
Mohammed Shinas S, Nisha Radhakrishnan, Sunitha V	GIS-GPS Based Pavement Management System”, Mohammed Shinas S	National Symposium for Post Graduate Students NSPGS 2010, PSG			Coimbatore	April 24 – 25, 2010.

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Nisha Radhakrishnan, Madhav N Kulkarni	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	February 26 - 27, 2011
S. Moses Santhakumar, Samson Mathew, Nisha Radhakrishnan	Urban Speed Management system using ITS	ational Conference on Urban Mobility – Challenges, solutions and prospects			IIT Madras and CDAC	July 13 – 14, 2012.
Sunny Dhruva”, Nisha Radhakrishnan,	Site Suitability Analysis for Urban Residential Development	Transportation Systems Engineering And Management , CTR, CED			NIT Calicut	May 12-13, 2014
Thenmozhi, Nisha Radhakrishnan	Spatial Temporal Analysis of Urban Expansion And Population Growth in Trichy City using GI	National Conference on Technological Innovations For Sustainable Infrastructures			NIT Calicut	March 13, 2015
Deepthi K, Nisha Radhakrishnan, Samson Mathew, V Sunitha,	GIS-GPS based Pavement Management System for Tiruchirappalli City	National Conference In Transportation Systems Engineering And Management			NIT Trichy,	May 1 – 2
Anu B Chand, Nisha Radhakrishnan	Land Use Based Travel Demand Modelling	National Conference In Transportation			NIT Trichy,	

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	for Tiruchirappalli City	n Systems Engineering And Management				
Navyatha Metta, Nisha Radhakrishnan , Samson Mathew	Commuting Pattern and Residential Location Choice Analysis of Households in Tiruchirappalli City	National Conference In Transportation Systems Engineering And Management			NIT Trichy,	May 1 – 2
Thenmozhi, Nisha Radhakrishnan , Moses Santhakumar,	GIS based Quantitative- Spatial Assessment of Existing Road Network in Trichy City using Statistical Approaches	National Conference In Transportation Systems Engineering And Management			NIT Trichy,	May 1 – 2
Navyatha Metta, Nisha Radhakrishnan , Samson Mathew	Land use and Transportation – Understanding Linkage between Travel Behaviour and Residential Location	3 rd Conference of the Transportation Research Group of India held at Kolkata (India)			Kolkata (India)	17 - 20 December, 2015.
Thenmozhi R, Nisha Radhakrishnan and Moses Santhakumar	“Estimation of Urban Road Area Using GIS	3 rd Conference on Transportation Systems Engineering & Management			BMS College Of Engineering, Bangalore.	Nov 24- 25, 2016
R. Shanmathi Rekha, Shayesta Wajid, Nisha	Accessibility analysis of Health Care	3 rd Conference on			Bangalore	November 24-25, 2016

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Radhakrishnan and Samson Mathew,	Facility within Tiruchirappalli city using Geospatial Techniques	Transportation Systems Engineering & Management				
Shanmathi Rekha R, Shayesta Wajid, Nisha Radhakrishnan and Samson Mathew,	Accessibility Analysis of Health Care using Geospatial Techniques”, Shanmathi Rekha R, Shayesta Wajid	4th Conference of the Transportation Research Group of India, CTRG 2017			Mumbai	December 17 – 20, 2017,

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number