

Department : Civil Engineering

1. Notable Achievements

(a) Faculty Members

S. No.	Name	Details of Prizes / Awards / Fellowships (International & National Recognition)	Organization
1	Dr. S. MOSES SANTHAKUMAR		

(b) Students

S. No.	Name	Details of Prizes / Awards / Internships(International & National Recognition)	Organization

2. Conference/Seminars/Symposia/Workshops organized by the Department at NIT Tiruchirappalli

a) Conference

S. No.	Coordinator	Programme	Period

b) Seminar

S. No.	Coordinator	Programme	Period

c) Symposium

S. No.	Coordinator	Programme	Period

d) Workshop

S. No.	Coordinator	Programme	Period
1	S. Moses Sathakumar	NRIDA sponsored three-day Training Programme on DPR Preparation for AEEs/AEs of Rural Development Department	13-15/11/2017
2	S. Moses Sathakumar	NRIDA sponsored five-day Training Programme on Basic Training for Newly Inducted Officers in PMGSY for AEEs/AEs of Rural Development Department	23-27/10/2017
3	S. Moses Sathakumar	Three – day Workshop on Binder Rheology organized by CETransE	15-17/12/2016
4	S. Moses Sathakumar	Three – day Short Term Training Programme on Recent Trends in Pavement Engineering organized by CETransE	12-14/12/2016

5	S. Moses Sathakumar	Three – day Workshop on Traffic Simulation Tools organized by CETransE	01-03/12/2016
6	S. Moses Sathakumar	National Conference on Transportation Systems Engineering and Management (CTSEM)	01-02/05/2015
7	S. Moses Sathakumar	Training Programme on Coir Geo-textiles for the Rural Development AEEs and AEs	07/10/2013
8	S. Moses Sathakumar	DRD sponsored One-day Refresher Course on Quality Control of PMGSY Roads for State Quality Monitors	09/05/2013
9	S. Moses Sathakumar	PMGSY Workshop on Rural Road Planning and Design for AEEs of RD Dept and ADEs of NH Dept	22/02/2013
10	S. Moses Sathakumar	NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department	13-18/07/2009
11	S. Moses Sathakumar	NRRDA sponsored three -day Training Programme on PMGSY for the AEEs of the Rural Development Department	23-25/06/2009
12	S. Moses Sathakumar	NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department	18-23/05/2009
13	S. Moses Sathakumar	TEQIP sponsored One Day Workshop on Design, Construction and Maintenance of Roads	29/10/2007
14	S. Moses Sathakumar	NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department	01-06/11/2004
15	S. Moses Sathakumar	NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department	25-30/10/2004
16	S. Moses Sathakumar	NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department	04-09/10/2004
17	S. Moses Sathakumar	NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department	20-25/09/2004
18	S. Moses Sathakumar	NRRDA sponsored three -day Training Programme on PMGSY for the AEs of the Rural Development Department	17-19/09/2003
19	S. Moses Sathakumar	ISTE – AICTE sponsored Winter School on Advanced Computer Applications in Transportation Engineering (ACATE)	December 1998

3. Articles published by the faculty and students in refereed articles

4. (a) SCI/SCIE Articles

S. No.	Title of the Paper	Author(s)	Name of the Articles	Year Vol. (No) Page

(b) Other Articles

S. No.	Title of the Paper	Author(s)	Name of the Articles	Year Vol. (No) Page
1	Rear End Crashes on National Highways - Serious Threat to Road Safety	N.S.L. Aparna and S. Moses Santhakumar	Journal of Development Management and Communication	2015 Vol. II, No. 4 ISSN 2348-7739
2	Simulation Study of Vehicle Queue and Delay Time at Toll Plaza – A Case Study	V. Dinesh Kumar, K. Kavitha and S. Moses Santhakumar	STM Journals	2015 pp.1-15
3	Feasibility Study of Emergency Vehicle Signal Preemption System for Tiruchirappalli City	K. Kavitha and S. Moses Santhakumar	International Journal of Applied Engineering Research	2015 Vol. 10 No. 62
4	Estimation of IRI from PCI in Construction Work Zones	R. Vidya, S. Moses Santhakumar and Samson Mathew	ACEE International Journal of Civil and Environmental Engineering	2013 Vol. 2, No. 1
5	Simulation Study of Construction Work Zones – A Case Study	R. Vidya, and S. Moses Santhakumar	Recent Trends in Civil Engineering & Technology, STM Publications	2012 Vol. 2, No. 2
6	Impact of Work Zones on Speed Variation During Widening of the Highway	R. Vidya, S. Moses Santhakumar and Samson Mathew	International Journal of Engineering Science and Technology	2012 Vol. 4, No. 2 pp. 546 – 554
7	Evaluation of Short Term Transportation	P.Partheeban and S. Moses Santhakumar		2009

	System Management Measures using GIS		European Journal of Transportation Research	
8	Traffic Incident Management System using GIS	P.Partheeban and S. Moses Santhakumar	Indian Highways	2007
9	GIS Based Transportation Information Management System	S. Moses Santhakumar P.Partheeban and Venu Bhaskar Reddy	Indian Highways	2002
10	Optimal Bus Stop Spacing and Location using GIS	P.Partheeban and S. Moses Santhakumar	Urban Transport Journal, Institute of Urban Transport (India)	2000 Vol. 1, No. 2 pp. 63-78
11	Geographic Information System for Major Roads	P.Partheeban and S. Moses Santhakumar	Indian Journal of Transport Management, Central Institute of Road Transport	2000 Vol. 24, No. 2 pp. 169-176
12	Geographical Information System for Major Roads – A Case Study of Tiruchirappalli	P.Partheeban and S. Moses Santhakumar	Indian Highways	1998
13	Extraction of Small Area Network for Analysis of TSM Options	S. Selvaradj and S. Moses Santhakumar	Transportation Research Board, National Research Council	1998
14	Development of Areawide Traffic Control System for Tiruchirappalli	S. Moses Santhakumar and Srinivas Pathuri	Journal of Traffic and Transportation	1998
15	User Perception of the Shuttle Bus Transit System in Madurai	S. Moses Santhakumar	Indian Highways	1998
16	Applicability of GIS/IVHS/GPS Technology for Indian Conditions	P.Partheeban and S. Moses Santhakumar	Journal of Traffic and Transportation	1997

17	Headway Distribution at Origin of Urban Bus Routes	S. Moses Santhakumar	Journal of Traffic and Transportation	1996
18	Expert System for Tyre Management in Public Transport Corporations	S. Moses Santhakumar	Journal of Traffic and Transportation	1993 pp. 17-25
19	Wave Data off Trivandrum using an On-line Data Analysis System	P. M. Koola and S. Moses Santhakumar	Journal of the Institution of Engineers (India)	1993 Vol. 73, Part CV5 pp. 163-167
20	User Compliance at Pedestrian Subways	M. Subbi Reddy and S. Moses Santhakumar	Transportation Research Board, National Research Council	1992
21	Transportation Systems Management Options to Improve Urban Bus Route Performance using Computer Simulation	P. Hariharan and S. Moses Santhakumar	Transportation Research Board, National Research Council	1992 TRR 1338 pp. 22-27
22	Identification of Representative Wave Record from Multiple Wave Records	P. M. Koola and S. Moses Santhakumar	Marine Engineering Journal, Institution of Engineers	1991
23	Comparative Study of Pedestrian Crossings using Computer Simulation	S. Moses Santhakumar	Indian Highways - Computer Applications in Highway Engineering	1991 Vol. 19, No. 6 pp. 89-97
24	Performance Evaluation and Design of Signal Settings by Simulation	S. Moses Santhakumar	Indian Highways	1991 Vol. 19, No. 3 pp. 11-21
25	Components of In-Vehicle Travel Time on City Bus Routes	D.J. Victor and S. Moses Santhakumar	Journal of the Institution of Engineers (India)	1987 Vol. 68, Part C11 pp. 51-53
26	Distribution of Green Time and Red Time at Police-Controlled T-junctions and Mid-block Pedestrian Crossings	D.J. Victor and S. Moses Santhakumar	Indian Highways	1987 Vol. 15, No. 6

27	Simulation Study of Bus Transit	D.J. Victor and S. Moses Santhakumar	Journal of Transportation Engineering, American Society of Civil Engineers	1986 Vol. 112, No. 2 pp. 199-211
28	Boarding Time and Stopped Time of City Buses in Madras	D.J. Victor and S. Moses Santhakumar	Indian Highways	1995 Vol. 13, No. 10 pp. 28-33

(b) Scopus

S. No.	Title of the Paper	Author(s)	Name of the Articles	Year Vol. (No) Page

5. Participation/Paper presentation by the faculty and students in Conference/Seminar/Symposia

(a) Conference

S. No.	Title of the Paper	Author(s)	Title of the Proceedings	Page No. & Year	Venue
1	Factors Influencing Traffic Accidents – A Case Study of Tiruchirappalli City	Hemanthini A.R. and S. Moses Santhakumar	12 th Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC)	Paper ID 315 2016	IIT Bombay
2	Non-Lane-Based Microscopic Modelling Under Heterogeneous Traffic Conditions	Venkata Varsha Gandla and S. Moses Santhakumar	12 th Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC)	Paper ID 286 2016	IIT Bombay
3	Field implementation and Performance of Coir Geotextiles Reinforced Roads	Chetan Bhole, V. Sunitha, Samson Mathew and S. Moses Santhakumar	International Conference on Maintenance and Rehabilitation of Pavements (MAIREPAV8)	2016	Singapore
4	Traffic Incident Duration and Incident		International Conference on Engineering and Material Sciences 2016 (ICEMS 2016)	2016	Jaipur National University

	Recovery Time Prediction Model for Tiruchirappalli City	K. Kavitha and S. Moses Santhakumar			
5	Safety Analysis for Urban Roads in Tiruchirappalli City	AR. Hemanthini and S. Moses Santhakumar	International Conference on Engineering and Material Sciences 2016 (ICEMS 2016)	2016	Jaipur National University
6	Spatial Distribution of Urban Road Network in Trichy City using Quick-bird Satellite Image	R.Then-mozhi, Nisha Radhakrishnan and S. Moses Santhakumar	International Conference on Sustainable Developments in Science Engineering Technology & Humanities	2016	PSN Engineering College, Dindigul
7	Evaluation of Existing Road Transport Infrastructure in Trichy City Using GIS	R.Then-mozhi, Nisha Radhakrishnan and S. Moses Santhakumar	GeoSmart India/ GeoSmart Asia 2016	2016	Greater Noida
8	<u>Emergency Vehicle Signal Preemption System For Tiruchirappalli City Having Heterogeneous Traffic Condition</u>	K. Kavitha and S. Moses Santhakumar	25th World Road Congress on Roads and Mobility – Creating New Value from Transport	Paper No. IP735 2015	PIARC, Seoul
9	GIS Based Quantitative-Spatial Assessment of Existing Road Network in Trichy City Using Statistical Approaches	R.Then-mozhi, Nisha Radhakrishnan and S. Moses Santhakumar	Conference on Transportation Systems Engineering and Management (CTSEM)	2015	NITT
10	Co-ordination of Traffic Signal as an ITS Measure for Urban Arterials	S. Naveen Kumar and S. Moses Santhakumar	Conference on Transportation Systems Engineering and Management (CTSEM)	2015	NITT
11	Impact of Emergency Vehicle Signal Preemption on Urban Traffic	K. Kavitha and S. Moses Santhakumar	Conference on Transportation Systems Engineering and Management (CTSEM)	2015	NITT
12	Accident Analysis and Remedial Measures for Tiruchirappalli City	AR. Hemanthini and S. Moses Santhakumar	Conference on Transportation Systems Engineering and	2015	NITT

			Management (CTSEM)		
13	Simulation Study of Vehicle Queue and Delay Time at Toll Plaza	V. Dinesh Kumar and S. Moses Santhakumar	Conference on Transportation Systems Engineering and Management (CTSEM)	2015	NITT
14	Improvements to Public Transport in Chennai by Integrated Multimodal Transportation System	R. Rajkumar and S. Moses Santhakumar	Conference on Transportation Systems Engineering and Management (CTSEM)	2015	NITT
15	Analysis and Mitigation of Rear End Collisions on Highways	N.S.L. Aparna and S. Moses Santhakumar	Conference on Transportation Systems Engineering and Management (CTSEM)	2015	NITT
16	Analysis of Geometric Features and Traffic Characteristics of Service Roads Using Simulation	D. Arundoss and S. Moses Santhakumar	Conference on Transportation Systems Engineering and Management (CTSEM)	2015	NITT
17	Simulation Based Performance Evaluation of Urban Roundabout with Signals	C. Ritika and S. Moses Santhakumar	Conference on Transportation Systems Engineering and Management (CTSEM)	2015	NITT
18	Feasibility of Monorail for Tiruchirappalli City	Ch. Sudheer Kumar and S. Moses Santhakumar	Conference on Transportation Systems Engineering and Management (CTSEM)	2015	NITT
19	Spatial Temporal Analysis of Urban Expansion and Population Growth in Trichy City Using GIS	R.Then-mozhi, Nisha Radhakrishnan and S. Moses Santhakumar	National Conference on Technological Innovations for Sustainable infrastructure	2015	NIT Calicut
20	Feasibility Study of Emergency Vehicle Signal Preemption System for Tiruchirappalli City	K. Kavitha and S. Moses Santhakumar	International Conference on Advances in Civil Engineering Materials and Processes (ICACEMAP)	2015	Coimbatore Institute of Tech., Coimbatore

21	Simulation of Traffic Flow Around an Urban Roundabout	S. Iswarya and S. Moses Santhakumar	First Annual Conference on Innovations and Developments in Civil Engineering, ACIDIC-2014	2014	NITK, Surathkal
22	Simulation of Pedestrian Crossing Behaviour along an Urban Corridor	S. Divya and S. Moses Santhakumar	First Annual Conference on Innovations and Developments in Civil Engineering, ACIDIC-2014	2014	NITK, Surathkal
23	Potential of Coir Fiber in Subgrade Improvement	Chetan Bhole, V. Sunitha, Samson Mathew and S. Moses Santhakumar	1st International Conference on Natural Fibers, ICNF2013	2013	Guimarães-Portugal
24	Speed Detection and Management – ITS Application	Arif Ashraf, Nisha Radhakrishnan, Samson Mathew and S. Moses Santhakumar	India Geospatial Forum, Hyderabad	2013	Inter-national Convention Centre, Hyderabad
25	Traffic Signal Co-ordination as an ITS Measure for Urban Arterials in Chennai City	S. Naveen Kumar, S. Moses Santhakumar and Samson Mathew	National Conference on Urban Mobility – Challenges, Solutions and Prospects	2012	IIT Madras
26	Urban Speed Management using ITS	Arif Ashraf, Nisha Radhakrishnan, Samson Mathew and S. Moses Santhakumar	National Conference on Urban Mobility – Challenges, Solutions and Prospects	2012	IIT Madras
27	Development of GIS based Framework to Plan and Monitor PMGSY Roads	M. Hemalatha. S. Moses Santhakumar and Samson Mathew	International Conference on Geospatial Technologies and Applications, Geomatrix '12	2012	IIT Bombay
28	Co-ordination of Traffic Signals as an	S. Naveen Kumar and	National Conference on Sustainable	pp. 88-99 2012	St. Peter's College Engineering

	ITS Measure for Urban Arterials	S. Moses Santhakumar	Transportation using ITS		and Tech., Chennai
29	Estimation of IRI from PCI in Construction Work Zones	R. Vidya and S. Moses Santhakumar	Second International Joint Conference on Advances in Engineering and Technology	2011	AET – ACE, Noida
30	Urban Speed Management – A Case Study of Tiruchirappalli City	Basil Bas-heerudeen, Samson Mathew, S. Moses Santhakumar and Nisha Radha-krishnan	Research Symposium at Urban Mobility India	2011	New Delhi
31	Development of Park & Ride System in Tiruchirappalli City	G. Evangeline Joyce and S. Moses Santhakumar	International Conference of Transportation Research Group of India	2011	Bangalore
32	Road Surface Image Segmentation, Texture Analysis and Classification using Image Processing	R. Vidya, S. Moses Santhakumar and Samson Mathew	National conference on Sustainable Urban & Transportation Planning: Issues & Management Strategies (SUTRIMS 11)	2011	SVNIT, Surat
33	Traffic Information and Management	G. Evangeline Joyce, S. Moses Santhakumar and Samson Mathew	National Conference on Current Trends in Telematics	2011	Sri Ram Engineering College, Chennai
34	Advanced Driver Assistance Systems (ADAS): A State of the Art	Dhanush Laxman, S. Moses Santhakumar and Samson Mathew	National Conference on Current Trends in Telematics	2011	Sri Ram Engineering College, Chennai
35	Dynamic Route Guidance System - A Case Study of Tiruchirappalli City	J. Vijay Anand, S. Moses Santhakumar and Samson Mathew	Indo-US Workshop On Emerging Trends In Intelligent Transportation Systems	2010	IIT Madras

36	Speed Variation in the Construction Work Zone	S. Moses Santhakumar	Proceedings of Symposium on Research in Civil Engineering	pp. 201-202 2009	IIT Madras
37	Effect of Temperature Differential on Warping Stresses in Rigid Pavements	S. Sreenivasulu, R. Jayasankar, S. Moses Santhakumar and Samson Mathew	Proceedings of Symposium on Research in Civil Engineering	pp. 191-192 2009	IIT Madras
38	GIS Based Analysis of PMGSY Road Network of Tamil Nadu	S. Moses Santhakumar, Samson Mathew and A. Ganesh Raja	National Conference on Application of GIS in Civil Engineering	pp. 173-191 2008	Karunya University, Coimbatore
39	Intelligent Transportation System Applications in Road Safety – A Case Study of Tiruchirappalli City	S. Moses Santhakumar, Samson Mathew and K. Rahul	National Conference on Application of GIS in Civil Engineering	pp. 15–24 2008	Karunya University, Coimbatore
40	Impact of PMGSY on Travel Characteristics of Tamil Nadu Rural Population	S. Moses Santhakumar, Samson Mathew, R. Jayasankar and V. Sunitha	National Conference on Rural Roads	2007	Ministry of Rural Development, New Delhi
41	Travel Characteristics of Tamil Nadu Rural Population	Samson Mathew, S. Moses Santhakumar, V. Sunitha and J. Sheeba	National Conference on Earthquake and Transportation Engineering	pp. 144-153 2007	Sona College of Tech., Salem
42	Vehicle Tracking – Principles and Applications	S. Moses Santhakumar	Workshop on Vehicle Tracking using GPS and GIS	pp. 1-17 2007	IRTT, Erode
43	Studies on Polymer Modified Bituminous Mixes	Chetan Bhole, V. Sunitha, Samson Mathew and S. Moses Santhakumar	National Seminar on Roads 2007	pp. 172-178 2007	Institution of Engineers (India), Belgaum
44	Application of GPS in Study of Highway Geometrics	Samson Mathew, S. Moses Santhakumar, S. Saraswathy and V. Palanikumar	National Conference on GIS, GPS and RS Applications in Transportation Planning and Management	pp. 151-159 2006	St. Peter's Engineering College, Chennai

45	Pavement Management System for Rural Roads	S. Moses Santhakumar, Samson Mathew and A. Siddique	National Conference on GIS, GPS and RS Applications in Transportation Planning and Management	pp. 122-132 2006	St. Peter's Engineering College, Chennai
46	Applications of Geographical Information Systems in the Transportation Sector	S. Moses Santhakumar, Samson Mathew and Sayed Bilal	National Conference on GIS, GPS and RS Applications in Transportation Planning and Management	2006	St. Peter's Engineering College, Chennai
47	Influence of Fly Ash, WMA on Properties of Self Compacting Concrete	R. Jayasankar and S. Moses Santhakumar	Second National Conference on Advances in Materials and Mechanics of Concrete Structures	2005	IIT Madras
48	GIS-GPS Based Monitoring of Water Supply Trucks of Tiruchirappalli Corporation	R. Sundaresan, Samson Mathew and S. Moses Santhakumar	National Conference on Applications of Information and Communication Technologies in Urban Infrastructure Planning and Management	2005	Jaya Engineering College, Chennai
49	Free Speeds of Vehicles on NH-45 and NH-67	Samson Mathew and S. Moses Santhakumar	National Conference on Advances in Road Transportation (ART-2005)	pp. 287-299 2005	NIT, Rourkela
50	Signal Timing Optimisation for Urban Arterials in Tiruchirappalli City	Samson Mathew and S. Moses Santhakumar	National Conference on Advances in Road Transportation (ART-2005)	pp. 274-286 2005	NIT, Rourkela
51	Vehicle Tracking using GPS - A Case Study of Two Wheeler Tracking in NIT Tiruchirappalli Campus	Samson Mathew and S. Moses Santhakumar	National Conference on Application of GIS and GPS in Civil Engineering	pp. 138-147 2004	Jaya Engineering College, Chennai
52	Application of GIS to PMGSY Roads	S. Moses Santhakumar	National Conference on Applications of GIS for Rural Development	2003	TTTI, Chennai
53	Transportation System Management for Madurai City Using GIS	S. Moses Santhakumar and G. Gokuldas	International Conference on GIS – Map India 2003	2003	New Delhi
54	Vehicle Tracking System - A Case Study of Madurai Ring Road	S. Moses Santhakumar	International Conference on Sustainable	pp. I-485-496	New Delhi

		and P. Partheeban	Development in Road Transport	2001	
55	GIS Based Emergency Response System	S. Moses Santhakumar and P. Partheeban	International Seminar on Sustainable Development in Road Transport	pp. I-439-451 2001	New Delhi
56	A Geographical Information System for the Highways around Tiruchirappalli	P. Partheeban and S. Moses Santhakumar	National Seminar on Trends and Techniques in Transportation	1997	R E C, Warangal
57	Applicability of GIS in Highway and Transportation Engineering	P. Partheeban and S. Moses Santhakumar	National Seminar on GIS and Geological Remote Sensing	1997	Bharathidasan University, Tiruchirappalli
58	Decentrali-sation of Bus Terminus for Congestion Reduction in Madurai City (Tamil Nadu) - A Case Study	S. Moses Santhakumar	International Conference on New Challenges for Civil Engineers of Developing Countries	1996	JMI, New Delhi
59	Investigation on Thick Lift Construction and Design of Large Aggregate Mixes	T. S. Venkataraman and S. Moses Santhakumar	Seminar on Bituminous Roads Design and Construction Aspects	1994	Indian Roads Congress, New Delhi
60	Prediction of Delays at Narrow Bridges using Computer Simulation	S. Moses Santhakumar	National Seminar on Advances in Transportation Systems	pp. B13.1-5 1992	IIT Madras
61	Optimisation of Inventory Control of Public Transport Spares using Computer Simulation	S. Moses Santhakumar	National Seminar on Advances in Transportation Systems	pp. B7.1-5 1992	IIT Madras
62	Prediction of Impact of Water Stress on Yield of Paddy using Computer Simulation	S. Krishnamoorthi and S. Moses Santhakumar	National Seminar on Use of Computers in Hydrology and Water Resources	pp. 3:16-25 1991	Central Water Commission, New Delhi

(b) Seminar

S. No.	Title of the Paper	Author(s)	Title of the Proceedings	Page No. & Year	Venue

(c) Symposium

S. No.	Title of the Paper	Author(s)	Title of the Proceedings	Page No. & Year	Venue

6. Sponsored Projects awarded

Coordinator(s)	Name of the project	Sponsoring agency	Amount (Rs. in Lakhs)

7. Patents**(a) Patents Filed**

S. No.	Title of the patent	Name of Faculty/Student	Name of the Agency	Year

(b) Patents Published

S. No.	Title of the patent	Name of Faculty / Student	Name of the Agency	Year

(c) Patents Granted

S. No.	Title of the patent	Name of Faculty/Student	Name of the Agency	Year

8. Consultancy work carried out

S. No.	Title of the work	Faculty	Agency	Amount (Rs. in lakhs)
1	State Technical Agency (STA) for the Pradhan Mantri Gram Sadak Yojana (PMGSY) Scheme	S. Moses Santhakumar	National Rural Infrastructure Development Agency, GoI	56.76
2	Centre of Excellence in Transportation Engineering (CETransE)	S. Moses Santhakumar	Ministry of Human Resources Development, GoI	250.0

3	Evaluation of Pavement Performance of Coir Reinforced Rural Roads in Tamil Nadu	S. Moses Santhakumar	Coir Board, Ministry of MSME, GoI	34.5
4	Pavement Performance Studies on Coir Geotextiles Reinforced Rural Roads in Tamilnadu	S. Moses Santhakumar	Coir Board, Ministry of MSME, GoI	419.87
5	Pavement Evaluation Studies on the Performance Enhancer RBI Grade 81	S. Moses Santhakumar	M/s. Maarvel Touchnology Pvt. Ltd.	4.0
6	Urban Speed Management using ITS	S. Moses Santhakumar	Ministry of Urban Development and Indian Institute of Technology, Madras, Chennai	15.0
7	Coir Geotextiles Reinforced Low Volume Rural Road Pavement Performance Studies in Tamilnadu and Puducherry	S. Moses Santhakumar	Coir Board, Ministry of MSME, GoI	12.5
8	Preparation of State of the Art Report on Facilities for Pedestrians/Physically Challenged Persons/ Passengers	S. Moses Santhakumar	Ministry of Road Transport and Highways, GoI	3.6
9	Preparation of State of the Art Report on Road Safety with Emphasis on Non-Motorised Traffic	S. Moses Santhakumar	Ministry of Road Transport and Highways, GoI	3.6
10	Rural Road Traffic Volume Study in Tamilnadu	S. Moses Santhakumar	National Rural Roads Development Agency, GoI	10.0
11	Rural Road Pavement Performance Study (RRPPS)	S. Moses Santhakumar	National Rural Roads Development Agency, GoI	10.0
12	GIS-GPS Based Monitoring of Public Transport Vehicles	S. Moses Santhakumar	Ministry of Human Resources Development, GoI	12.0
13	Household Survey to Assess Rural Transport Infrastructure	S. Moses Santhakumar	IIM, Bangalore	0.3
14	Modernisation of Transportation Engineering	S. Moses Santhakumar	Ministry of Human Resources	30.0

	Laboratory through Plan Fund		Development, GoI	
15	Multimedia Tools for Teaching of Civil Engineering	S. Moses Santhakumar	AICTE, GoI	5.0
16	Strengthening of the Transportation Engineering Laboratory at Civil Engineering Department, R.E.C., Tiruchirappalli.	S. Moses Santhakumar	Ministry of Human Resources Development, GoI	8.0
17	Consultancy Works in Pavement Design, Material Testing and Site Investigation	S. Moses Santhakumar	Govt. & Private	10.00
18	Design of Job Mix Formula for the construction of Automotive Test Track works of NATRiP at Oragadam, Chennai	S. Moses Santhakumar	Sunmax Constructions	10.91
19	Road Safety Audit of Walayar – Vadakkancherry Section from Km 182+250 to Km 240+000 of NH47	S. Moses Santhakumar	NHAI	4.86
20	Approval of Plan and Profile of Thanjavur – Pudukkottai Section of NH226	S. Moses Santhakumar	NHAI	7.59
21	Approval of Plan and Profile of Thirumayam – Manamadurai Section of NH226	S. Moses Santhakumar	NHAI	10.68
22	Concurrent Evaluation of Flood Management Programme in the Kollidam River	S. Moses Santhakumar	WRO, PWD	26.53
23	Proof checking of Two-laning of Trichy – Karaikudi Section of NH210 Widening	S. Moses Santhakumar	NHAI	7.12

9. Ph. D.

(a) Graduation details

S. No.	Name of the Research Scholar	Guide	Title of the Thesis	Date of Viva voce
1	P. Partheeban	S. Moses Santhakumar	Evaluation of Transportation System Management Techniques using GIS	2003

2	R. Vidya	S. Moses Santhakumar	Studies on Impacts of Construction Work Zones on Road User Costs	2015
3	S. Naveen Kumar	S. Moses Santhakumar	Traffic Signal Control as an ITS Measure for Urban Arterials in Chennai City	On-going
4	K. Kavitha	S. Moses Santhakumar	Development of Incident Management System using ITS	On-going
5	R. Thenmozhi	S. Moses Santhakumar	Residential Location modeling using GIS	On-going
6	Sowjanya	S. Moses Santhakumar	Study of Road Safety at Intersections	On-going
7	B. Brahmaiah	S. Moses Santhakumar	Modeling Flow Behaviour on Urban Arterials	On-going
8	Sandeep Singh	S. Moses Santhakumar	Speed - Flow Relationships and Capacity Modeling on Inter-City Expressways	On-going

(b) Thesis Submitted details

S. No.	Name of the Research Scholar	Guide	Title of the Thesis	Date of Thesis submission
1	P. Partheeban	S. Moses Santhakumar	Evaluation of Transportation System Management Techniques using GIS	2003
2	R. Vidya	S. Moses Santhakumar	Studies on Impacts of Construction Work Zones on Road User Costs	2015

10. Books /book chapters authored by faculty

S. No.	Name of the books /Book chapters	Author(s)	Publisher	Year of Publication

11. Major Equipment / Software Purchased (more than Rs. 5.00 lakh.)

S. No.	Name of the Equipment	Amount (Rs. In Lakhs)

12. Invited / Guest Lectures Delivered by the Faculty

Faculty	Topic	Programme	Place & Date
S. Moses Santhakumar	Intelligent Transportation Systems for Road Safety in the Training Programme on Road Safety Engineering Measures for		Asian Institute of Transport

	the Engineers of the Tamilnadu Highways Department		Development at Madurai 14/11/2018
S. Moses Santhakumar	Safety in Construction Zones and Hazardous Road Locations in the Training Programme on Road Safety Engineering Measures for the Engineers of the Tamilnadu Highways Department		Asian Institute of Transport Development at Madurai 14/11/2018
S. Moses Santhakumar	Intelligent Transportation Systems for Road Safety in the Training Programme on Road Safety Engineering Measures for the Engineers of the Tamilnadu Highways Department		Asian Institute of Transport Development at Salem 09/10/2018
S. Moses Santhakumar	Safety Aspects in Construction and Maintenance in the Training Programme on Road Safety Engineering Measures for the Engineers of the Tamilnadu Highways Department		Asian Institute of Transport Development at Salem 08/10/2018
S. Moses Santhakumar	Intelligent Transportation Systems for Road Safety in the Training Programme on Road Safety Engineering Measures for the Engineers of the Tamilnadu Highways Department		Asian Institute of Transport Development at Trichy 10/08/2018
S. Moses Santhakumar	Hazardous Road Locations and Case Studies in the Training Programme on Road Safety Engineering Measures for the Engineers of the Tamilnadu Highways Department		Asian Institute of Transport Development at Anna University, Chennai 16/05/2018
S. Moses Santhakumar	Safety in Construction Zones for Roads and Bridges in the Training Programme on Road Safety Engineering Measures for the Engineers of the Tamilnadu Highways Department		Asian Institute of Transport Development at Anna University, Chennai 16/05/2018
S. Moses Santhakumar	Green Transportation in the Inauguration of International Conference		St. Peter's College Engineering and Technology, Chennai 27/09/2017
S. Moses Santhakumar	Intelligent Transportation Systems in the Inauguration of National Conference		NSN College of Engineering and Technology, Karur 30/03/2017

S. Moses Santhakumar	Urban Mobility in the Annual Seminar on Urban Development - Traversing towards Sustainability		Madras School of Social Work, Chennai 10/03/2017
S. Moses Santhakumar	Intelligent Transportation Systems in the Inauguration of International Conference		Alagappa Chettiar College of Engineering and Technology, Karaikudi 24/10/2016
S. Moses Santhakumar	Essentials of Research in the Inauguration of the PhD Programme		Periyar Maniammai University, Thanjavur 28/11/2015
S. Moses Santhakumar	Intelligent Transportation Systems in the Inauguration of National Conference		SNS College of Engineering and Technology, Coimbatore 23/07/2015
S. Moses Santhakumar	Recent Advances in Civil Engineering at the Department Day Function		Shivani Engineering College, Trichy 31/03/2015
S. Moses Santhakumar	Intelligent Transportation Systems at the National Conference		Ramakrishna College Engineering and Technology, Trichy 10/03/2015
S. Moses Santhakumar	Recent Advances in Civil Engineering at the Inauguration of Civil Engineering Association		Mt. Zion College Engineering and Technology, Pudukkottai 28/08/2014
S. Moses Santhakumar	Intelligent Transportation Systems at the Inauguration of Civil Engineering Association		Roevers College Engineering and Technology, Perambalur 27/08/2014
S. Moses Santhakumar	Advances in Civil Engineering at the Civil Engineering Association		Francis Xavier Engineering College, Tirunelveli 14/07/2014
S. Moses Santhakumar	Intelligent Transportation Systems at the TEQIP sponsored National Workshop on Recent Developments in Transportation Engineering		Coimbatore Institute of Technology, Coimbatore 07/03/2014

S. Moses Santhakumar	Intelligent Transportation Infrastructure at the TEQIP sponsored Faculty Development Program on Innovative Practices in Highway Design, Construction, Maintenance and Safety		Thiagarajar College of Engineering, Madurai 20/02/2014
S. Moses Santhakumar	Intelligent Transportation Systems at the TEQIP Workshop on Transportation Infrastructure Planning – Latest Technologies		Department of Civil Engineering, NITT 21/11/2013
S. Moses Santhakumar	Keynote Address at the National Conference on Latest Advances in Civil Engineering for Sustainable Development – LACE 2013		SNS College of Technology, Coimbatore 10/04/2013
S. Moses Santhakumar	Road Safety with Emphasis on Non-Motorised Traffic at the 67 th Meeting of the Highway Research Board		73 rd Annual Session of the Indian Roads Congress, Coimbatore 08/01/2013
S. Moses Santhakumar	Applications of ITS under Indian Conditions in the National Conference on Sustainable Transportation using ITS (STUITS)		St. Peter's College Engineering and Technology, Chennai 17/02/2012
S. Moses Santhakumar	Recent Advances in Civil Engineering in the Inauguration of Civil Engineering Association		Roevers College Engineering and Technology, Perambalur 09/02/2012
S. Moses Santhakumar	Advances in Civil Engineering at the Civil Engineering Association		M.A.M. College of Engineering & Technology, Trichy 14/07/2011
S. Moses Santhakumar	Intelligent Transportation Systems at the Inauguration of Civil Engineering Association		PRIST University, Thanjavur 29/08/2010
S. Moses Santhakumar	ITS Applications in Road Safety at the Workshop on Innovative Techniques in Road Safety Management		Sri Ram Engineering College, Chennai 28/07/2010
S. Moses Santhakumar	Project Management in the Training Programme on Design, Construction and Maintenance of Bridges for the Engineers of Rural Development Department and Panchayat Raj		Department of Civil Engineering, NITT 28/06/2010
S. Moses Santhakumar	Project Management in the Training Programme on Design, Construction and Maintenance of Bridges for the Engineers of Rural Development Department and Panchayat Raj		Department of Civil Engineering, NITT 21/06/2010

S. Moses Santhakumar	Project Management in the Training Programme on Design, Construction and Maintenance of Bridges for the Engineers of Rural Development Department and Panchayat Raj		Department of Civil Engineering, NITT 31/05/2010
S. Moses Santhakumar	Research – Is it necessary for a teacher? at the Inauguration of ISTE Chapter		Karunya University, Coimbatore 09/12/2008
S. Moses Santhakumar	Intelligent Transportation Systems at the Advanced Training Programme on Application of Geomatics in Urban Transportation Planning and Management		St. Peters University, Chennai 27/10/2008
S. Moses Santhakumar	Advanced Public Transportation Systems at the Advanced Training Programme on Application of Geomatics in Urban Transportation Planning and Management		St. Peters University, Chennai 27/10/2008
S. Moses Santhakumar	Intelligent Transportation Systems at the National Seminar		SASTRA, Thanjavur 26/09/2008
S. Moses Santhakumar	Road Safety- An Engineering Perspective at the Inaugural function of the Civil Engineering Association		Karunya University, Coimbatore 22/07/2008
S. Moses Santhakumar	Relative Grading System at the Meeting of Directors and HODs		Karunya University, Coimbatore 21/07/2008
S. Moses Santhakumar	Relative Grading System at the Board of studies meeting		Bharathidasan Institute of Management, Trichy 12/05/2008
S. Moses Santhakumar	Intelligent Transportation Systems		Institution of Engineers (India), Trichy 06/05/2008

13. Guest Lectures Organized by the Department at NIT, Tiruchirappalli

Name of the Expert	Organization	Topic	Period
S. Moses Santhakumar	NITT	NRIDA sponsored three-day Training Programme on DPR Preparation for AEEs/AEs of Rural Development Department	13-15/11/2017
S. Moses Santhakumar	NITT	NRIDA sponsored five-day Training Programme on Basic Training for	23-27/10/2017

		Newly Inducted Officers in PMGSY for AEEs/AEs of Rural Development Department	
S. Moses Santhakumar	NITT	Three – day Workshop on Binder Rheology organized by CETransE	15-17/12/2016
S. Moses Santhakumar	NITT	Three – day Short Term Training Programme on Recent Trends in Pavement Engineering organized by CETransE	12-14/12/2016
S. Moses Santhakumar	NITT	Three – day Workshop on Traffic Simulation Tools organized by CETransE	01-03/12/2016
S. Moses Santhakumar	NITT	National Conference on Transportation Systems Engineering and Management (CTSEM)	01-02/05/2015
S. Moses Santhakumar	DRD, Chennai	Workshop on Alternate Technologies and Materials for PMGSY Roads for the EEs and AEEs of the Rural Development Department	17/11/2014
S. Moses Santhakumar	DRD, Chennai	Workshop on R&D Technology Initiatives for the EEs and AEEs of the Rural Development Department	18/09/2014
S. Moses Santhakumar	NITT	Training Programme on Coir Geotextiles for the Rural Development AEEs and AEs	07/10/2013
S. Moses Santhakumar	NITT	DRD sponsored One-day Refresher Course on Quality Control of PMGSY Roads for State Quality Monitors	09/05/2013
S. Moses Santhakumar	NITT	PMGSY Workshop on Rural Road Planning and Design for AEEs of RD Dept and ADEs of NH Dept	22/02/2013
S. Moses Santhakumar	DRD, Chennai	DRD sponsored One-day Workshop on Alternate Technologies for Road Construction for the EEs and AEEs of the Rural Development Department	07/02/2013
S. Moses Santhakumar	SIRD, Chennai	SIRD sponsored Training Programme on Convergence of Pradhan Mantri Gram Sadak Yojana (PMGSY) with other RD Programmes	01/11/2011
S. Moses Santhakumar	NITT	NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department	13-18/07/2009
S. Moses Santhakumar	NITT	NRRDA sponsored three -day Training Programme on PMGSY for the AEEs of the Rural Development Department	23-25/06/2009

S. Moses Santhakumar	NITT	NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department	18-23/05/2009
S. Moses Santhakumar	NITT	TEQIP sponsored One Day Workshop on Design, Construction and Maintenance of Roads	29/10/2007
S. Moses Santhakumar	New Delhi	NHAI sponsored Road Safety – Training of Users for Dissemination of Road Safety Manual – Users Workshop (UW6)	20-22/10/2005
S. Moses Santhakumar	New Delhi	NHAI sponsored Road Safety – Training of Users for Dissemination of Road Safety Manual – Users Workshop (UW5)	17-19/10/2005
S. Moses Santhakumar	NITT	NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department	01-06/11/2004
S. Moses Santhakumar	NITT	NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department	25-30/10/2004
S. Moses Santhakumar	NITT	NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department	04-09/10/2004
S. Moses Santhakumar	NITT	NRRDA sponsored six-day Training Programme on PMGSY for the AEs of the Rural Development Department	20-25/09/2004
S. Moses Santhakumar	NITT	NRRDA sponsored three -day Training Programme on PMGSY for the AEs of the Rural Development Department	17-19/09/2003
S. Moses Santhakumar	NITT	ISTE – AICTE sponsored Winter School on Advanced Computer Applications in Transportation Engineering (ACATE)	December 1998

14. Any other notable achievements

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Department

Kindly include department profile between 180 and 200 words

	Department at NIT, Tiruchirappalli / delivered by the Faculty		
9.	Conference / Seminar / Symposia / Workshops organized by the Department	X / Y / Z / AA	
10.	Fellowships (Faculty) / Internship in Abroad (Student)	X / Y	

(a)	(b)
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Kindly include two photographs of important events (Specify the Name and Date of the Event)