

Curriculum Vitae



Dr. Sunitha V. completed B.Tech. in Civil Engineering from University of Calicut, in the year 2001, M. Tech. in Traffic and Transportation Planning from NIT Calicut in 2003 and Ph.D. from IIT Madras in 2013. She joined National Institute of Technology, Tiruchirappalli in the year 2003 as Research Associate and is currently working as **Associate Professor**. She is having 19 years of experience in teaching. She has completed Four sponsored projects, two projects on "Coir Geotextiles Reinforced Low Volume Rural Road Pavement Performance Studies in Tamilnadu and Puducherry" and "Pavement Performance Studies on Coir Geotextile Reinforced Rural Roads in Tamilnadu" sponsored by Coir Board, Ministry of MSME, Government of India worth Rs. 12.5 lakhs and Rs. 420 lakhs respectively, Urban Pavement Maintenance Management Systems (UPMMS) sponsored by Ministry of Urban Development and IIT, Madras worth Rs. 10 lakh, and Life Cycle and Performance Assessment of Waste Plastic Roads sponsored by NRIDA for Rs. 20.50 lakhs. Currently she is co-ordinating three sponsored projects including Development of Optimization Models and Decision Support System for National Highways sponsored by NHAI for Rs. 68.85 lakhs, Traffic Rule and Signs based Toys by MSME and Performance Assessment of Cement Concrete Pavement in Rural Roads by NRIDA, Government of India. She is a coordinator for the MHRD sponsored Centre of Excellence in Transportation Engineering (CETransE). She is a member of State Technical Agency of Prime Minister Gram Sadak Yojana (PMGSY) program for Tamilnadu and Pondicherry.

Her area of research interest is on pavement materials and pavement management systems. She has guided 76 Post graduate and 17 Under graduate project works in various fields such as Transportation Engineering, Transportation Planning and Pavement Engineering. She also completed 4 Ph.D. and two M.S. scholars and currently guiding five Ph.D. scholars. She has published 80 papers in International/National journals, and International/National conferences, out of which 23 Journal publications are SCI/Scopus indexed. She also filed a patent for "Automated Pavement Distress Detection Device and Method Thereof". She has organised seven workshops/short Term Programmes/Conferences, etc. She is also involved in Transportation related consultancy works. She is a member of the professional bodies such as Indian Roads Congress, Institution of Engineers, Indian Geotechnical Society, ASCE, and TRG India. She is currently the co-ordinator for the M.Tech. programme in Transportation Engineering and Management. She is the Associate Dean (Research and Consultancy) and also the TEQIP Nodal Officer (Procurement).

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1. Name: **Dr. Sunitha V.**
2. Designation: Associate Professor
3. Office Address: Dept. of Civil Engineering, NIT Tiruchirappalli 620015
4. Telephone: 04312503165 (o), 04312504165 (R)
Mobile (Optional):9443302930
5. Email (Primary): sunitha@nitt.edu Email (Secondary) : sunitha.nitt@gmail.com
6. Field(s) of Specialization: Civil Engineering/Transportation Engineering

7. Employment Profile

Job Title	Employer	From	To
Associate Professor	National Institute of Technology, Tiruchirappalli	22.09.2022	Till date
Assistant Professor (Grade pay Rs. 8000/-)	National Institute of Technology, Tiruchirappalli	12.03.2018	22.09.2022
Assistant Professor (Grade pay Rs. 7000/-)	National Institute of Technology, Tiruchirappalli	27.03.2011	12.03.2018
Assistant Professor (Grade pay Rs. 6000/-)	National Institute of Technology, Tiruchirappalli	27.03.2006	26.03.2011
Research Associate	National Institute of Technology, Tiruchirappalli	06.08.2003	26.03.2006

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

Examination	Board / University	Year	Division/ Grade	Subjects
Doctor of Philosophy (Ph.D.)	Indian Institute of Technology Madras	2013	--	Civil Engineering /Transportation Engineering
Master of Technology (M.Tech.)	National Institute of Technology, Calicut	2003	I class with Honours	Traffic and Transportation Planning
Bachelor of Technology (B.Tech.)	Calicut University	2001	I class with Distinction	Civil Engineering
Pre Degree	Calicut University	1997	I class	Science Group
X th Standard	CBSE	1995	I class with Distinction	All subjects

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9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Faculty in-charge, Transportation Engineering Laboratory	Faculty in-charge, Transportation Engineering Laboratory	2006	Till date
Co-ordinator for Timetable	Co-ordinator for Timetable in Civil Engineering Department	2005	2007
Faculty adviser for Publicity Committee	Faculty adviser for Publicity Committee of Civil Engineering Association 2009, 2010	2009	2010
Organizing committee member for first year organization	Organizing committee member for first year organization programme for B.Tech. and B.Arch.	2013	2014
DPEC Member	Member, Department Project Evaluation Committee (DPEC) of M.Tech Transportation Engineering and Management	2013	2014
New MBA Building Monitoring Committee member	Monitoring the construction activities of New Management Studies Department Building	2014	2014
Member for Stock verification	Member for physical verification of moveable asserts of CEESAT	2013	2014
DPEC Member	Member, Department Project Evaluation Committee (DPEC) of M.Tech Transportation Engineering and Management	2014	Till date
Class Committee Chairman	Class Committee Chairman for M.Tech. I st Semester Environmental Engineering	2014	2015
Ph.D. Doctoral committee member	Doctoral committee member of Ph.D. Scholar Archana. S.	2014	Till date
Ph.D. Doctoral committee member	Doctoral committee member of Ph.D. Scholar Cynthia	2016	Till date
Coordinator for the M.Tech.	Coordinator for the M.Tech. Transportation Engineering and Management	2016	Till date
Stock Verification officer	Stock Verification officer for Architectural Department 2015-16	2016	2016
Ph.D. Doctoral committee member	Doctoral committee member of Ph.D. Scholar Marie Gerard Cyril Perera	2017	Till date
TEQIP Nodal Officer (Procurement)	TEQIP Nodal Officer (Procurement) for TEQIP Phase III	2017	Till date
Faculty Advisor	Faculty Advisor for students (17) in Civil Egg. Dept	2017	Till date

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Faculty assigned for Question paper Setting	Faculty assigned for Question paper Setting for Apprenticeship Trainees Recruitment	2017	2017
DPEC Member	Member, Department Project Evaluation Committee (DPEC) of M.Tech Transportation Engineering and Management	2017	2018
Stock Verification officer	Stock Verification officer for Architectural Department 2017-18	2018	2018
Stock Verification officer	Stock Verification officer for Transport 2017-18	2018	2018
Committee member	Institute day committee member – barn hall arrangement 2018	2018	2018
DPEC Member	Member, Department Project Evaluation Committee (DPEC) of M.Tech Transportation Engineering and Management	2018	2019
Class Committee Chairperson	Chairperson for 1 st year M.Tech. Environmental Engineering	2018	2019
Review Committee Member	Sangam Hardware Hackathon	2019	2019
DPEC Member	Member, Department Project Evaluation Committee (DPEC) of M.Tech Transportation Engineering and Management	2019	2020
Class Committee Chairperson	Chairperson for 1 st year M.Tech. Environmental Engineering	2019	2020
Convocation Committee Member	15 th Convocation 2019 Seating and Logistics Institute committee member	2019	2019
Associate Dean (Industry and R&D Collaboration)	Associate Dean (Industry and R&D Collaboration) in Research and Consultancy Office	2020	Till date
Program Committee member	Institute day committee member – Program Committee 16.4.2019	2019	2019
Review Committee Member	Sangam Hardware Hackathon -	2019	2019
Convocation Committee Member	15 th Convocation 2019 Seating and Logistics Institute committee member	2019	2019
Stock Verification officer	Physical verification (PV) of Assets for the year 2019-20	2019	2019
HEFA committee member	HEFA committee member	2020	Till date
DPEC Member	Member, Department Project Evaluation Committee (DPEC) of M.Tech Transportation Engineering and Management	2020	2021

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Class Committee Chairperson	Chairperson for 2 nd year B.Tech. Civil Engineering	2020	2021
Program Committee member	Institute day 2020 committee member – Program Committee	2020	2020
Committee member	MSME - Institute	2020	Till date
Committee member	Technical Assessment committee for laying synthetic badminton court in GJCC	2021	Till date

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Training in Civil Engineering Laboratories	National Institute of Technology, Warangal, TEQIP – Network – Faculty Training Scheme	2006	2006
Coordinator and Resource Person	Workshop on Urban Pavement Maintenance Management Systems (UPMMS) to Corporation Engineers, Tiruchirappalli City Municipal Corporation	2015	2015
Resource Faculty	Research Colloquium on Transportation Engineering, Rajiv Gandhi Institute of Technology, Kottayam	2016	2016
Guest speaker/resource person	one day workshop on “Innovative Techniques on Asphalt Pavement, PSNA College of Engineering and Technology, Dindigul	2016	2016
Vice President (EC) - India	Board of Governors, iSMARTi – International Society for Maintenance and Rehabilitation of Transport Infrastructures	2016	2016
Key note speaker	Two days National Workshop on Asphalt Materials: Testing and Mix Design (AMTD 2018) organized by the Department of Civil Engineering, PSNA College of Engineering and Technology, Dindigul	2018	2018
Doctoral Committee Member	Ms. Kesavarapu Madhuri, External Part Time – Ph.D. scholar, School of Chemical Engineering (SCALE) at VIT, Vellore	2018	Till date
Guest Speaker	XXVII - Five Days Training Programme on Road Safety at ZIBE Salem 8 th to 12 th October, 2018	2018	2018
Guest Speaker	30 th Five Days Road Safety Training Program at Madurai from 12 th to 16 th November 2018	2018	2018
Doctoral Committee Member	Mr. Shishodiya Ghanshyam Singh, Internal Full Time – Ph.D. scholar, School of Civil Engineering (SCE) at VIT, Vellore	2019	Till date
Technical Committee member	International Conference on Smart Cities July 17-19, 2019 South Korea, Seoul	2019	2019

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External Examiner	III semester ME Transportation Engineering students Project Work – Phase I Viva voce	2019	2019
Keynote Speaker	TEQIP-III Sponsored Faculty Development Programme on “Sustainable Construction Materials and its Characterization” during June 10-16, 2019 at PSG College of Technology Coimbatore	2019	2019
Guest lecture (online)	One Week Short Term Training & Faculty Development Program", June 22nd to June 27th, 2020 by Shri Vishnu Engineering College for Women(A) Bhimavaram West Godavari (Dt)	2020	2020
Presentation	Webinar – Coir Georoad – 2020, Central Coir Research Institute, Alleppy, Kerala on 19.08.2020	2020	2020
Member of CGCB	Member of Coir Geotextile Consultancy Bureau	2020	Till date
Member of STA Tamilnadu and Puducherry	State Technical Agency of Prime Minister Gram Sadak Yojana (PMGSY) program for Tamilnadu and Pondicherry	2014	Till date
Committee member	Assess Canal Construction and Approach Road Widening at IIT Tiruchirappalli	2022	2022
Resource Faculty	TEQIP-II sponsored 6 days online Faculty Development Program on “Innovations in Geomatics and Transportation Engineering (IGTE)” organized by Barton Hill, Thiruvananthapuram	2022	2022
Resource Faculty	Online Short Term Training Programme on “Tools for Transportation Data Analysis & Modelling” Organised by Centre for Transportation Research, NIT Calicut	2021	2021
Resource Faculty	Online Short Term Training Programme on “Tools for Transportation Data Analysis & Modelling” Organised by Centre for Transportation Research, NIT Calicut	2022	2022
Board of Studies	Board of Studies member of the Dept. of Civil Engineering, Sri Ramakrishna Engineering College, Coimbatore	2021	2023
Resource Faculty	DST Sponsored Summer School on Application on Geospatial Technology for Smart City Traffic and Transportation Planning at Chennai Institute of Technology, Chennai	2022	2022
Resource Faculty	International conference on New Technologies and Innovations in rural roads, Organized by National Rural Infrastructure Development	2022	2022

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	Agency at New Delhi, India		
Session Chair	Keynote Session in International Virtual Conference on "Smart and Sustainable Development of Urban Green Infrastructure in India and Canada" (SSDUGI – 2022) 25- 26 March 2022 at NIT Tiruchirappalli	2022	2022

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2022	Best Performer Award in Assistant Professor of Civil Engineering	National Institute of Technology Tiruchirappalli
2021	Best Performer Award in Assistant Professor Grade I (Engineering)	National Institute of Technology Tiruchirappalli
2020	Best paper award in theme Pavement Technology	7 th Conference on transportation Systems Engineering and Management 2020 (CTSEM 2020) organized by KSCSTE-NATPAC and CET Trivandrum
2020	Best Performer Award in Assistant Professor Grade I (Engineering)	National Institute of Technology Tiruchirappalli
2019	Institute Day award for Consultancy Work	National Institute of Technology Tiruchirappalli
2018	Best paper award	International Conference on infrastructure Development: Issues, Innovations and the Way Forward (ICID 2018) organized by the Dept. of Civil Engg, Mar Baselios College of Engineering and Technology, Thiruvananthapuram
2003	Second Rank Holder	National Institute of Technology, Calicut, Kerala
2001	First Rank Holder	N.S.S. College of Engineering, Palakkad, Kerala

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2001	GATE	MHRD	March 2001	March 2003

13. Details of Academic Work

(i) Curriculum Development

1. Pavement Materials and Design
2. Pavement Construction and Maintenance

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3. Pavement Analysis and Design
4. Traffic Engineering and Highway Geometrics
5. Transportation and Land Use Planning
6. Urban Transportation Systems
7. Road Transport Management and Economics
8. Highway Materials
9. Highway and Pavement Engineering
10. Railway, airport and Harbour Engineering
11. Traffic and pavement Engineering Lab
12. Highway Engineering Lab
13. CAD in Transportation Engineering Lab

(ii) Courses taught at Postgraduate and Undergraduate levels

Year and Semester	Course	Subject
2006 – 07 Odd	M. Tech. (Transportation Engineering and Management)	CE603 Transportation Systems
	M. Tech. (Transportation Engineering and Management)	CE604 Traffic and Highway Engineering Lab
	B. Tech. (Civil Engineering)	CE205 Surveying I
	B. Tech. (First Year)	MP101 Engineering Graphics
2006 – 07 Even	M. Tech. (Transportation Engineering and Management)	CE605 Road Transport Management and Economics
	M. Tech. (Transportation Engineering and Management)	CE608 CAD in Transportation Engineering
	B. Tech. (Civil Engineering)	BCV602 Transportation Engineering I
2007 – 08 Even	M. Tech. (Transportation Engineering and Management)	CE605 Road Transport Management and Economics
	B. Tech. (Civil Engineering)	CE304 Transportation Engineering I
	B. Tech. (First Year)	MP102 Computer Aided Engineering Graphics
2008 – 09 Odd	B. Tech. (First Year)	ME102 Engineering Mechanics
	B. Tech. (Mechanical Engineering)	CE281 Strength of Materials
	B. Tech. (Civil Engineering)	CE407 Computer Aided Design II
2008 – 09 Even	M. Tech. (Transportation Engineering and Management)	CE605 Road Transport Management and Economics
	M. Tech. (Transportation Engineering and Management)	CE608 CAD in Transportation Engineering
	B. Tech. (First Year)	BEI102 Basic Civil Engineering
2009 – 10	M. Tech. (Transportation Engineering and Management)	CE602 Pavement Analysis and Design

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Odd	Engineering and Management)	
	M. Tech. (Transportation Engineering and Management)	CE407 Traffic and Pavement Engineering Lab
	B. Tech. (Civil Engineering)	CE403 Transportation Engineering II
	B. Tech. (Civil Engineering)	CE211 Building Planning and Drawing
2009 – 10 Even	M. Tech. (Transportation Engineering and Management)	CE605 Road Transport Management and Economics
	M. Tech. (Transportation Engineering and Management)	CE608 CAD in Transportation Engineering
	B. Tech. (First Year)	MP101 Engineering Graphics
2010 – 11 Odd	M. Tech. (Transportation Engineering and Management)	CE602 Pavement Analysis and Design
	M. Tech. (Transportation Engineering and Management)	CE407 Traffic and Pavement Engineering Lab
	B. Tech. (Civil Engineering)	CE403 Transportation Engineering II
2010 – 11 Even	M. Tech. (Transportation Engineering and Management)	CE605 Road Transport Management and Economics
	B. Tech. (First Year)	BEI102 Basic Civil Engineering
	B. Tech. (Civil Engineering)	CE216 Strength of Materials Lab
2011 – 12 Odd	M. Tech. (Transportation Engineering and Management)	CE602 Pavement Analysis and Design
	M. Tech. (Transportation Engineering and Management)	CE407 Traffic and Pavement Engineering Lab
	B. Tech. (Civil Engineering)	CE403 Transportation Engineering II
2011 – 12 Even	M. Tech. (Transportation Engineering and Management)	CE605 Road Transport Management and Economics
	M. Tech. (Transportation Engineering and Management)	CE608 CAD in Transportation Engineering
	B. Tech. (First Year)	BEI102 Basic Civil Engineering
2012 – 13 Odd	M. Tech. (Transportation Engineering and Management)	CE602 Pavement Analysis and Design
	M. Tech. (Transportation Engineering and Management)	CE407 Traffic and Pavement Engineering Lab
	B. Tech. (Civil Engineering)	CE403 Transportation Engineering II
2012 – 13 Even	M. Tech. (Transportation Engineering and Management)	CE605 - Road Transport Management and Economics
	B. Tech. (Civil Engineering)	CE461 - Pavement Analysis and Design
	M. Tech. (Transportation Engineering and Management)	CE608 - CAD in Transportation Engineering
2013-14	M. Tech. (Transportation Engineering and Management)	CE603 - Pavement Analysis and Design

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Odd	Engineering and Management)	
	B. Tech. (Civil Engineering)	CE403 - Transportation Engineering II
	B. Tech. (Civil Engineering)	CE609 - Traffic and Pavement Engineering Laboratory
2014-15 Odd	M. Tech. (Transportation Engineering and Management)	CE603 - Pavement Analysis and Design
	M. Tech. (Transportation Engineering and Management)	CE613 - Pavement Materials
	B. Tech. (Civil Engineering)	CE609 - Traffic and Pavement Engineering Laboratory
2014-15 Even	M. Tech. (Transportation Engineering and Management)	CE602 - Road Transport Management and Economics
	B. Tech. (Civil Engineering)	CE210 - Transportation Engineering-I
	M. Tech. (Transportation Engineering and Management)	CE610 - CAD in Transportation Engineering
2015-16 Odd	B. Tech. (Civil Engineering)	CE309 - Transportation Engineering - II
	M. Tech. (Transportation Engineering and Management)	CE603 - Pavement Analysis and Design
	M. Tech. (Transportation Engineering and Management)	CE609 - Traffic and Pavement Engineering Laboratory
2015-16 Even	B. Tech. (Civil Engineering)	CE461 Pavement Analysis and Design
	M. Tech. (Transportation Engineering and Management)	CE604 Transportation Planning
	B. Tech. (Civil Engineering)	CE 310 Highway Materials Laboratory
2016-17 Odd	B. Tech. (Civil Engineering)	CE309 Transportation Engineering - II
	M. Tech. (Transportation Engineering and Management)	CE603 Pavement Materials and Design
	M. Tech. (Transportation Engineering and Management)	CE609 - Traffic and Pavement Engineering Laboratory
2016-17 Even	B. Tech. (Civil Engineering)	CE042 Pavement Analysis and Design
	M. Tech. (Transportation Engineering and Management)	CE606 Pavement Construction and Management
	M. Tech. (Transportation Engineering and Management)	CE618 Advanced Highway Materials
	M. Tech. (Transportation Engineering and Management)	CE310 Highway Materials Laboratory
	M. Tech. (Transportation Engineering and Management)	CE610 CAD in Transportation Engineering
2017-18 Odd	B. Tech. (Civil Engineering)	CEPC20 Highway and Pavement Engineering
	M. Tech. (Transportation Engineering and Management)	CE603 Pavement Materials and Design

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2017-18 Even	B. Tech. (Civil Engineering)	CE042 Pavement Analysis and Design
	M. Tech. (Transportation Engineering and Management)	CE606 Pavement Construction and Management
	M. Tech. (Transportation Engineering and Management)	CE610 - CAD in Transportation Engineering
2018-19 Odd	B. Tech. (Civil Engineering)	CEPC20 Highway and Pavement Engineering
	M. Tech. (Transportation Engineering and Management)	CE603 Pavement Materials and Design
	M. Tech. (Transportation Engineering and Management)	CE609 - Traffic and Pavement Engineering Laboratory
2018-19 Even	B. Tech. (Civil Engineering)	CE042 Pavement Analysis and Design
	M. Tech. (Transportation Engineering and Management)	CE606 Pavement Construction and Management
	M. Tech. (Transportation Engineering and Management)	CE610 - CAD in Transportation Engineering
2019-20 Odd	B. Tech. (Civil Engineering)	CEPC20 Highway and Pavement Engineering
	M. Tech. (Transportation Engineering and Management)	CE603 Pavement Materials and Design
	M. Tech. (Transportation Engineering and Management)	CE609 - Traffic and Pavement Engineering Laboratory
2019-20 Even	M. Tech. (Transportation Engineering and Management)	CE604 Transportation Planning
	M. Tech. (Transportation Engineering and Management)	CE606 Pavement Construction and Management
	M. Tech. (Transportation Engineering and Management)	CE610 - CAD in Transportation Engineering
2020-21 Odd	B. Tech. (Civil Engineering)	CEPC20 Highway and Pavement Engineering
	M. Tech. (Transportation Engineering and Management)	CE603 Pavement Materials and Design
	M. Tech. (Transportation Engineering and Management)	CE609 - Traffic and Pavement Engineering Laboratory
2020-21 Even	B. Tech. (Civil Engineering)	CEPE20 Pavement Analysis and Design
	M. Tech. (Transportation Engineering and Management)	CE606 Pavement Construction and Management
2021-22 Odd	B. Tech. (Civil Engineering)	CEPC20 Highway and Pavement Engineering
	M. Tech. (Transportation Engineering and Management)	CE603 Pavement Materials and Design
	M. Tech. (Transportation Engineering and Management)	CE609 - Traffic and Pavement Engineering Laboratory
2021-22 Even	B. Tech. (Civil Engineering)	CEPC23 Railway, Airport and Harbor Engineering

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	M. Tech. (Transportation Engineering and Management)	CE606 Pavement Construction and Management
	B. Tech. (Civil Engineering)	CELR17 Transportation Engineering Laboratory

(iii) Projects guided at Postgraduate level

Sl. No.	Title of Thesis	Name of student	Year of Completion
1.	Effect of Binder Content on Moisture Susceptibility of Bituminous Mixtures at Different Test Conditions	Anjumol M Sadhu	2022
2.	Development of Finite Element Response Model of Geocell Reinforced Pavements	Ankit Kumar Singh	2022
3.	Effect of Overloading on Flexible Pavement Performance	Kawaldeep Singh Bhatia	2022
4.	Investigation on the Performance of Warm Mix Asphalt with Reclaimed Asphalt Pavement	Nihil John	2022
5.	Performance Assessment of Plastic Waste Modified Bituminous Mix Pavements Constructed by Dry Process	Suneel Singh	2022
6.	Performance Assessment of Plastic Waste Modified Bitumen Pavement Constructed by Wet Process	Tejas Shrivastava	2022
7.	Study on the Effect of Geopolymer on Rheological Properties of Crumb Rubber Modified Binders	Tummala Venkata Ganesh	2022
8.	Cost- Benefit and Life Cycle Cost Study of Rigid and Flexible Pavements	Shreya Chitibhatta	2022
9.	Bus Passenger Origin Destination Matrix Estimation from Electronic Ticketing Machine Data	Susan Francis	2021
10.	Modelling the Attitude of Employees towards Public Transport using Structural Equation Approach	Shilpa Rajan	2021
11.	Impact of Covid-19 on Mode Choice Commuters	Sabavath Jawaharlal	2021
12.	Investigation of Moisture Damage of Hot Mix Asphalt using Artificial Neural Network	Mohit Singh Parihar	2021
13.	Two-Objective Optimization of Pavement Management System for Urban Roads	Bhupendra Sharma	2021
14.	Cycle Time Study and Optimisation of various Major Activities in Road Construction	Kavinraj K B	2021
15.	Stress Strain Analysis on Granular Sub Base and Stabilized Sub Base	Dhanavath Srikanth	2020
16.	Dynamic Segmentation of Urban Roads for Pavement Maintenance and Rehabilitation	Jyothis V Lal	2020
17.	Pavement Distress Detection Using Low Cost Sensors and Image Processing	P Sarath Chandra	2020
18.	Investigating the Effects of WMA Additives on Rheology of Bitumen	Prachi Malviya	2020

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19.	Preparation of Design Charts for Coir Reinforced Pavements by Back Calculating the Resilient Modulus	Sampuri Subhash	2020
20.	Study on Pervious Paver Blocks under Static Loading	Vadakupuram Aravinda Sai	2020
21.	Analysis of Structural Behaviour of Interlocking Concrete Block Pavement	Murshida P	2020
22.	Cost-Benefit and Life Cycle Cost Study of Flexible and Rigid Pavements	Vaddi Sai Prakash	2020
23.	Pavement Distress Detection using Smartphone and Image Processing	Nisha M Samuel	2019
24.	Road Roughness Assessment Using Smartphone Sensor	Rashmi Doley	2019
25.	Strategic Analysis for Urban Road Network Maintenance - A Case Study of Tiruchirappalli City	Kanchupati Venkateswarlu	2019
26.	Travel Demand Modelling for School Trips: A Case Study of Tiruchirappalli City	Suryansh Singh	2019
27.	Analysis of Flexible Pavement with Combination of Alternative Materials	Bhavinlal K	2019
28.	Effect of Short-Term Ageing on Asphalt Binders	Priyanka Pravin Suryawanshi	2019
29.	Experimental and Numerical Analysis of Coir Geotextile Reinforced Flexible Pavement	Chithu Babu	2019
30.	Prioritisation and Optimum Allocation of Funds for Pavement Maintenance and Rehabilitation	Manishita Das	2019
31.	Experimental Study on Mixture Characteristics of Warm Mix Asphalt	Satyanjuli Koch	2018
32.	Pavement Maintenance Management System using Functional Characteristics of Pavement	Raunak Kumar Dixit	2018
33.	Effect of Overloading of Vehicles in Pavement Design	Varun Kumar Danda	2018
34.	Rheology of Binders at Pavement Service Temperature	Sidarth Sahu	2018
35.	Study of Drainage Characteristics on Flexible Pavements	Ratti Chandra Sekhar	2018
36.	Experimental Investigation on the Rheological Properties of the Bitumen	Pasupuleti Sandhya Rani	2017
37.	Mix Characterization and Fatigue Performance of RAP	Divya K. Sadasivan	2017
38.	Optimization of Pavement Maintenance Management of Urban Roads in Tiruchirappalli District	Parvathy M. R.	2017
39.	Analysis of Coir Geotextile Pavements Using Finite Element Method	Dommeti Bhaskar	2017
40.	Evaluation of Coir Geotextile Reinforced Flexible Pavements	Charutha Mohan T.	2017
41.	Evaluation of Marshall Stability Properties and	Mohit	2017

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	Fatigue Behaviour of Bituminous Mixes Using Waste Plastic		
42.	Study on Effect of Coir Geotextile as Reinforcement in Flexible Pavement	M. Dhanunjaya	2016
43.	Cost Effective Rehabilitation Alternative for Flexible Pavements- Whitetopping	Shrey Agrawal	2016
44.	Evaluation of Properties of Subgrade Soil by In-situ and Laboratory Tests	T. Rajasekhar Rao	2016
45.	Mode Choice Modelling of Work Trips in Tiruchirappalli City Using Decision Tree	Bush B. Thomas	2016
46.	Laboratory Investigations on Reclaimed Asphalt Pavement	Prabeesha T. P.	2016
47.	Experimental Investigation on Rheological Properties of Modified Asphalt Binder by using Dynamic Shear Rheometer	Karan Salokhe	2016
48.	Pavement Management System for Urban Roads in Tiruchirappalli City using GAMS	Karthik K. R.	2015
49.	Evaluation of Performance Enhancers in Subgrade and Base Layers of Flexible Pavement	B. Anil Kumar	2015
50.	Experimental Investigation on the Properties of Modified Bitumen Binders	Puli Sridhar	2015
51.	Effect of Copper Slag as Replacement of Fine Aggregate in Sub-base Layer	K. Bhanu Prakash	2015
52.	Pavement Performance Model for PMGSY Roads in India	Praveen S. B.	2015
53.	Optimization of Maintenance Strategies of Urban Roads in Tiruchirappalli City	Cyril Santosh J.	2014
54.	Application of Jute and Coir Geotextiles in Flexible Pavement	Lijin Rajeev	2014
55.	Performance Studies on Bituminous Concrete Mixes Using Waste Plastics	Nizar M. U.	2014
56.	Effect of Flyash and Steel Slag in Sub-base layer	K. Venu Madhav	2014
57.	Experimental Investigation on Material Properties of Various Types of Binders	Latha D.	2014
58.	Experimental Analysis of Stone Matrix Asphalt with Additives	Naveen Kumar R.	2013
59.	Optimization of Pavement Management System for Urban Roads in Tiruchirappalli City	Navin Ganesh V.	2013
60.	Potential of Coir in Sub-Grade Improvement and Pavement Performance Study	E. Venkatraman	2013
61.	Comparative Study of Soil Strength Estimation Models Developed Based on CBR, DCP and Geogauge Test Results	Kapirapu Srinivas	2013
62.	Residential Location Modelling for Tiruchirappalli City	Manju K. R.	2013
63.	Experimental Study on Properties of Pervious	Gourshetty Raju	2012

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	Concrete and its Applicability in Pavement		
64.	Urban Pavement Maintenance Management System for Tiruchirappalli City	B.V. Bhargava Sai	2012
65.	Fatigue Behaviour Study of Sub-grade Soil with Performance Enhancers	K. Rama Devi	2012
66.	Pavement Distress Analysis using Image Processing Techniques	Pradyumna Sagar Sahoo	2011
67.	Urban Pavement Maintenance Management System for Tiruchirappalli City	R. Arichandran	2011
68.	Performance Study of Semi Dense Bituminous Concrete by adding Polymer Fibres	C.H Murali Krishna	2011
69.	Coir Geotextile Reinforced Rural Road Pavement Performance Study	Sudheer Kumar Raju	2011
70.	GIS – GPS Based Pavement Management System	Mohammed Shinas S.	2010
71.	Facility Based Regional Rural Road Planning	Arun Chandran	2009
72.	Genetic Algorithm Approach for Pavement Maintenance and Rehabilitation	P. Gauthaman	2009
73.	Application of Coir Geotextiles in Flexible Pavement	R. Sathya Prakash	2009
74.	Development of Performance Based Flexible Pavement Deterioration Models – A Case Study of NH – 210	E. Karthick	2009
75.	Study of Work Trip Pattern of Two Contrasting Residential Settlements in Tiruchirappalli City	Resmi R.	2007
76.	Regional Road Network Planning - A Case Study of Four Districts of Tamilnadu	Swathi N.	2007

MS (By Research) Guided

Sl. No.	Title of Thesis	Name of student	Year of Completion
1	Experimental Investigation on the Partial Replacement of Fine Aggregate with Waste Granite Fines in Concrete Paving Block	Arjun Siva Rathan R.T.	2015
2	Study on Effect of Modifiers on the Rheological Properties of Unaged Binder	Naguru Sai Rahul Reddy	2021

(iv) Other contribution(s)

UG Projects guided:

Sl. No.	Title of Thesis	Name of student	Year of Completion
1	Effect of Overloading on Flexible Pavement Performance	Anand Mohan Karthika G Kumar	2022

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		Mohamed Jihad P Palagudi Venkata Sai Siva Purnath Unnikrishnan	
2	Smartphone Based Pavement Distress Detection	Ashish Choudhary Ashok Kumar Jat Sakshi Wankhed Sangay Ngedup	2021
3	Experimental Investigation of Waste Plastic Mixed Bitumen	K. Yamini M. Yamini P. Sree Surya Sunnam Omkar Mansa	2020
4	Comparison of Simulated Models and Field Analysis of Overtaking Sight Distance for Heterogeneous Traffic	Inderjeet Singh Sardar Abhijit Samadhan Vikas Yadav Yogesh Jagaraj	2019
5	Fatigue Analysis of Binder in Intermediate Pavement Temperature	B. Mahathi G. Deeksha Hage Nano R. Mounika	2018
6	Challenges in Land Acquisition for Construction of Service Roads	Gokul Ranga Prasad Panner Selvam Jaya Solomon Rizwan Ahamed Venkkat G Krishnan	2018
7	Predictive Modelling on NH67 and Accident analysis of Tiruchirappalli city	Adarsh Kumar Piyush Raj Saurabh Jain Sourav Banerjee	2017
8	Comparative Study of Actuated Signals and Fixed Signal in Tiruchirappalli City	Arun Kumar P Amarnath Jailalith Mallepudi Sri Harsha Mallipudi Pranay Bhaskar	2017
9	Household Trip Generation model for Abhishekapuram Zone in Tiruchirappalli	Jishnu H Nair Mihir Rimjha S. Srikrishnan	2016
10	Stabilization of Clay Soil by Adding Industrial Waste of Barium Carbide	Vignesh K. Poovendiran T. Rohith Kiran R. G. Venkatesweren N.	2015
11	Roughness Prediction Model for Urban Pavement	Debabratha Pal Pranav Chheda R. Roopesh Kumar Raj Nishan Simran Singh	2013
12	Deterioration Model for Urban Pavement	Manoj Kumar M Ashok Kumar K Prasanna C	2012
13	Bus Transport Efficiency Assessment	Hemamalini Nagarajan Rajesh Kumar	2011

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		Akshath Dorai	
14	Locomotive Scheduling	Hamza M. Bhavnagarwalla M. Siddharth Raman Titus T. Jose	2009
15	Effect of Gradation on the Properties of Bituminous Concrete Mixes	Bhounik Goswami Harish A. Jatin Lohmorh	2008
16	Design of a Road Using MXroad	Hema P. Sathiya V.	2007
17	Application of GIS in Real Estate	Abhinav Saxena Saurabh Nehte	2007

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Coir Geotextiles Reinforced Low Volume Rural Road Pavement Performance Studies in Tamilnadu and Puducherry	Coir Board, Ministry of MSME, Government of India	08.04.2008	08.04.2012	Completed
Urban Pavement Maintenance Management Systems (UPMMS)	Ministry of Urban Development and IIT, Madras, Chennai	29.11.2010	29.11.2012	Completed
Pavement Performance Studies on Coir Geotextiles Reinforced Rural Roads in Tamilnadu	Coir Board, Ministry of MSME, Government of India.	01.04.2011	31.03.2020	Completed
Centre of Excellence in Transportation Engineering	MHRD, Government of India	08.05.2013	08.05.2020	On-going
Life Cycle and Performance Assessment of Waste Plastic Roads	NRRDA, Government of India	16.09.2019	31.10.2021	Completed
Evaluation of Pavement Performance of Coir Reinforced Rural Roads in Tamilnadu	Coir Board, Ministry of MSME, Government of India.	05.02.2021	05.02.2022	On-going
Traffic Rules and Signs-	Ministry of MSME,	09.03.2021	09.03.2022	On-going

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based Toys	Government of India.			
Development of Optimization Models and Decision Support System for National Highways	National Highway Authority of India	22.10.2020	22.10.2023	On-going
Performance Assessment of Cement Concrete Pavement in Rural Roads	NRIDA, Government of India	01.04.2022	31.03.2023	On-going

15. Number of Ph.Ds guided

Name of the Ph.D. Scholar	Title of Ph.D. Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award/Submitted
Janani L	Pavement Condition Assessment using Smartphone Sensors	Supervisor	2021
Rejani V. U.	Decision Support System for Urban Road Maintenance Management Based on Pavement Data	Supervisor	2021
Arjun Siva Rathan	Analysis of Concrete Paver Blocks Using Waste Materials	Supervisor	2022
Anusudha V.	Pavement subgrade stabilization using Coir Geotextile	Co-Supervisor	2022
Chetan R. Bhole	Performance Evaluation of Coir Geotextile Reinforced Rural Roads	Supervisor	Ongoing
Jegan Bharath Kumar A	Experimental Investigation of Moisture Susceptibility of Asphalt Mix	Supervisor	Ongoing
Chandra Prathap	Effect of Overloading on Pavements	Supervisor	Ongoing
Manjusha M	Distress Severity Level Detection of Pavement using Image Collected by UAV	Supervisor	Ongoing
Rekha Nair	Rheological Properties of Modified Bitumen	Supervisor	Ongoing

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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
July 03, 2004	National Conference on Applications of GIS and GPS in Civil Engineering	National	Participant	Jaya Engineering College, Thiruninravur	Jaya Engineering College, Thiruninravur
25 th February 2005	Environment Friendly Transportation”, PRITHVI 2005	International	Participant	Global Eco Meet, Trivandrum, Kerala	Trivandrum, Kerala
19 th – 23 rd June 2006	Training in Civil Engineering Laboratories under TEQIP – Network – Faculty Training Scheme	National	Participant	TEQIP	National Institute of Technology, Warangal
10 th – 12 th January 2007.	Indo – U.S. Workshop on Recent Advances in Transportation Engineering	International	Participant	IIT Madras	I.I.T., Madras
4 th to 6 th February 2007	International Conference on Nanomaterial and its applications	International	Participant	Department of Chemistry, NIT Trichy	NIT Trichy
1 st and 2 nd February 2007	workshop on “Finite Element Methods for Engineers”	National	Participant	TEQIP Community Services	NIT Trichy
19-23 February 2007	QIP short term course on “Recent advancements in	National	Participant	NIT Trichy	NIT Trichy

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	Environmental Engineering”				
16 - 21 July 2007	QIP Short Term Training Programme on “Recent Advances in Flexible Pavement Engineering”	National	Participant	IIT Madras	IIT, Madras
2007	workshop on “Concrete Mix Design”	National	Participant	NIT Trichy	NIT Trichy
23 - 28 June 2008	QIP Short Term Training Programme on “Asphalt Binder and Mixture Characterization	National	Participant	IIT Madras	IIT, Madras
08 – 09 August 2008	workshop on “Right to Information ACT, 2005 and Role of Information Officer”	National	Participant	National Archives of India, RTI Cell, New Delhi and NIT Trichy	NIT Trichy
05 – 10 January 2009	Induction Training Programme on “Instructional Design and Delivery System”	National	Participant	National Institute of Technical Teachers Training and research, Chennai	National Institute of Technical Teachers Training and research, Chennai
01 st March 2011	seminar on “New Materials in Road Construction For stabilized Pavements”	National	Participant	IIT Madras	IIT, Madras
09 – 10 September 2011	seminar on “Modern Construction Methods and Materials”	National	Participant	The Institution of Engineers (India), Tiruchirappalli	NIT Trichy
July 13 – 14, 2012	National Conference on “Urban Mobility	National	Participant	IIT Madras	IIT, Madras

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	– Challenges, Solutions and Prospects”				
15 April, 2015	Workshop on Urban Pavement Maintenance Management Systems (UPMMS) to Corporation Engineers, Tiruchirappalli	National	Coordinator and Speaker	NIT Trichy	City Municipal Corporation, Tiruchirappalli
April 28 – 29, 2015	Workshop on “Conclave on Academic Reforms - CAR 2015”	National	Participant	NIT Trichy	NIT Trichy
23 June 2016	one day workshop on “Innovative Techniques on Asphalt Pavement”	National	Speaker	PSNA College of Engineering and Technology, Dindigul	PSNA College of Engineering and Technology, Dindigul
23 September 2016	Research Colloquium on Transportation Engineering	National	Speaker	Rajiv Gandhi Institute of Technology, Kottayam	Rajiv Gandhi Institute of Technology, Kottayam
24-25 October, 2016	Dissemination Workshop on Development of Warrants for use of Modified Binders for Improved performance of Flexible Pavements – A DST-IIT Madras Initiative	National	Participant	IIT Madras	IIT Madras
12-16 November 2018	30 th Five Days Road Safety Training Program	National	Speaker	Asian Institute of Transport Development (AITD), New Delhi	Hotel Heritage Residency, Madurai
8-12 October 2018	XXVII - Five Days Training Programme on	National	Speaker	Asian Institute of Transport Development	Zibe Salem

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	Road Safety			(AITD), New Delhi	
23- 25 th Feb 2019	Introduction to Machine Learning and Deep learning – with Applications to Engineering systems	National	Participant	IIT Bombay	NIT Trichy
15 - 16 April, 2019	web based Procurement Management Support System (PMSS)	National	Participant	NPIU	BMS College of Engineering, Bangalore
23- 25 th April 2019	Faculty Development Program for Machine Learning and Deep learning	National	Participant	IIT Bombay	IIT Bombay
18 th September 2019	Supporting Student Learning & Well-Being- Crafting the new Millennial	National	Participant	NIT Tiruchirappalli	River View Resort, Tanjore
19 February 2020	Entrepreneurship and Startup Incubation Program	National	Speaker	Institution of Engineers (India), Madurai	Office of Institution of Engineers (India), Madurai
28 th May 2020	Data – Driven Road Safety Management	National	Participant	KSCSTE – NATPAC, Kerala	KSCSTE – NATPAC, Kerala
22 – 27 June 2020	Short Term Training and Faculty Development Program on Recent Advancements in Civil Engineering Challenges and Future Perspectives –	Resource Faculty		Shri Vishnu Engg College for Women, Andhra	Shri Vishnu Engg College for Women, Andhra

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	Part II				
14-18 th July 2020	Prospects of Sustainability in Pavement Construction in India	National	Participant	TEQIP III	Dr. B.R. Ambedkar NIT, Jalandhar
06 th August 2020	NIC-CPP e-Procurement Portal (World Bank Tenders)	National	Participant	TEQIP III	NIT, Srinagar
19 August 2020	Webinar on the Construction of Roads under PMGSY III using CGT	National	Speaker	Coir Board CCRI	Online
21-25 August 2020	FDP on Sustainable Materials for Smart Cities Challenges and Recent Trends	National	Speaker	S R Engineering College Warangal, Telangana	S R Engineering College Warangal, Telangana
3 March 2021	MSME Motivation Campaign – Thanjavur Toy & Arts Plate Cluster	National	Speaker	MSME Govt. of India	Thanjavur
27 May to June 2021	Short Term Training Programme on “Tools for Data Analysis & Modelling (TTDAM)	National	Speaker	NIT Calicut	NIT Calicut
17-21 January 2022	Short Term Training Programme on “Tools for Data Analysis & Modelling (TTDAM)	National	Speaker	NIT Calicut	NIT Calicut
26-27 August, 2021	International Conference on Transportation Systems Engineering &	International	Co-Chair	NIT Calicut	NIT Calicut

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	Management (CTSEM 2021)				
2 - 22 May 2022	Summer School on Application on Geospatial Technology for Smart City Traffic and Transportation Planning	Speaker	Resource Faculty	DST	Chennai Institute of Technology, Chennai
24 th to 26 th May 2022	International conference on New Technologies and Innovations in rural roads	International	Speaker	National Rural Infrastructure Development Agency and The World Bank, India	New Delhi

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 on “Testing of Construction Materials”, under TEQIP Community Services	National	26-27, February 2007	Co-ordinator	Dept. of Civil Engineering NIT Tiruchirappalli
Coir Board Sponsored Training Programme on Technological Initiatives under PMGSY	Local	7, October 2013	Co-ordinator	Dept. of Civil Engineering NIT Tiruchirappalli
workshop on “Transportation Infrastructure Planning – Latest Technologies”, under TEQIP	National	2–22, November 2013	Co-ordinator	Dept. of Civil Engineering NIT Tiruchirappalli
Workshop on Urban Pavement Maintenance Management Systems (UPMMS) to Corporation Engineers	Local	15, April 2015	Co-ordinator	Dept. of Civil Engineering NIT Tiruchirappalli
2 nd Conference on Transportation Systems Engineering and	National	1–2, May 2015	Organizing Secretary	Dept. of Civil Engineering NIT

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Management (CTSEM) under Centre of Excellence in Transportation Engineering (CETransE)				Tiruchirappalli
Short Term Training Programme on Recent Trends in Transportation Engineering	National	11-16, July 2016	Co-ordinator	Dept. of Civil Engineering NIT Tiruchirappalli
Workshop on Traffic Simulation Tools under Centre of Excellence in Transportation Engineering (CETransE)	National	1-2, December 2016	Co-ordinator	Dept. of Civil Engineering NIT Tiruchirappalli
Workshop on Binder Rheology under Centre of Excellence in Transportation Engineering (CETransE)	National	15 - 17 December, 2016	Co-ordinator	Dept. of Civil Engineering NIT Tiruchirappalli
Workshop on Sustainability in Road Construction under Centre of Excellence in Transportation Engineering (CETransE)	National	17 th December, 2016	Co-ordinator	Dept. of Civil Engineering NIT Tiruchirappalli
Workshop on Traffic Simulation Tools under Centre of Excellence in Transportation Engineering (CETransE)	National	24 - 26, August 2017	Co-ordinator	Dept. of Civil Engineering NIT Tiruchirappalli
Training Programme on Basic Training for Newly Inducted Officers in PMGSY sponsored by Directorate of Rural Development and Panchayat Raj, Govt of Tamilnadu	National	23 - 27 October 2017	Co-ordinator	Dept. of Civil Engineering NIT Tiruchirappalli
Training Programme on Preparation of DPRs sponsored by Directorate of Rural Development and Panchayat Raj, Govt of Tamilnadu	National	13 - 15, November 2017	Co-ordinator	Dept. of Civil Engineering NIT Tiruchirappalli
Workshop on Design and Construction of Sustainable Pavements	National	20 - 24, November 2017	Co-ordinator	Dept. of Civil Engineering NIT

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under Centre of Excellence in Transportation Engineering (CETransE)				Tiruchirappalli
Geotextile Reinforced Sustainable Pavements	National	8 – 12, July 2019	Co-ordinator	Dept. of Civil Engineering NIT Tiruchirappalli
Webinar on “Research Grants & Patent Filing”	National	12 – 28 October 2020 (5-days 7 Lectures)	Co-ordinator	NIT Tiruchirappalli
6th Conference of Transportation Research Group of India (CTRG-2021)	International	14 - 17 December, 2021	Vice-Chairperson	NIT Tiruchirappalli

18. Invited Talks delivered

Topic	Date	Inviting Organization
Material Characterization of Pavement Materials	18-23, May 2009	NIT Tiruchirappalli
Material Characterization of Pavement Materials	13-18, July 2009	NIT Tiruchirappalli
Material Characterization of Pavement Materials	8 th – 13 th February, 2010	NIT Tiruchirappalli
Material Characterization of Pavement Materials	9 th May, 2014	NIT Tiruchirappalli
Material Characterization of Aggregates in concrete	29 th February 2016	NIT Tiruchirappalli
Geotechnical Aspects of Pavements	10 th – 12 th March 2016	NIT Tiruchirappalli
Flexible Pavement Design	23 rd June 2016	PSNA College of Engineering and Technology, Dindigul
Pavement Management for rural Roads	23 rd September 2016	Rajiv Gandhi Institute of Technology, Kottayam
Recent Developments in Pavement Design and Maintenance	15th February 2018	PSNA College of Engineering and Technology, Dindigul
Design of safe links	10th October, 2018	Asian Institute of Transport Development (AITD), New Delhi
Design of Safe Links and Design of Safe Intersection	13th November, 2018	Asian Institute of Transport Development (AITD), New Delhi

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Sustainable Construction Materials and its Characterization	13 June, 2019	Department of Civil Engineering, PSG College of Technology, Coimbatore
Introduction to CEDI & Incubation Services	19 th February, 2020	The Institution of Engineers (India), Madurai
Recent Trends in Pavement Engineering	25 June, 2020	Shri Vishnu Engineering College for Women, W.G District, Andhra Pradesh
Design Guidelines for Construction of Rural Roads using Coir Geotextiles	19 th August, 2020	Webinar on the Construction of Roads under PMGSY-III using CGT organized by Coir Board, Ministry of MSME, GoI
Maintenance Management of Rural Roads	24 th September 2020	Five Day Faculty Development Programme on “Transport Infrastructure Asset Management” at NIT Karnataka, Surathkal
Cluster Analysis	18-23 March, 2021	Online Short Term Training Programme on “Tools for Transportation Data Analysis & Modelling” Organised by Centre for Transportation Research, NIT Calicut
Cluster Analysis	17-21 January 2022	Online Short Term Training Programme on “Tools for Transportation Data Analysis & Modelling” Organised by Centre for Transportation Research, NIT Calicut
Pavement management system (PMS) using GIS and Green pavement materials overview for smart cities	2 nd to 22 nd May 2022	DST Sponsored summer school on application on geospatial technology for smart city traffic and transportation planning at Chennai institute of technology, Chennai
Experience on use of Coir in Rural Roads	24 th to 26 th May 2022	International conference on New Technologies and Innovations in rural roads, Organized by National Rural Infrastructure Development Agency at New Delhi, India

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19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	Indian Road Congress	M-29704, 2004
Associate Member	The Institution of Engineers (India)	AM097458-5, 2009
Life Member	Indian Geotechnical Society	LM-3666, 2013
Life Member	Transportation research Group of India (TRG)	20143, 16.11.2020
Affiliate Member	ASCE American Society of Civil Engineers	12216129, April 2021

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Singapore	27 - 29 July 2016	8 th International Conference on Maintenance and Rehabilitation of Pavements (MAIREPAV8)

21. Publications

(A) Refereed Research Journals:

Sl. No.	Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year
1	Samson Mathew, A. K. Raji, S. Malagi and V. Sunitha	Rural Connectivity based on ranking of villages – a Case study of Mandhya District of Karnataka	Journal of The Institute of Engineers (India)	Vol. 88	34-42	2007
2	V. Sunitha , A. Veeraragavan, Karthik K. Srinivasan, and Samson Mathew	Cluster-Based Pavement Deterioration Models for Low-Volume Rural Roads	ISRN Civil Engineering	Vol. 2012	Article ID 565948	2012
3	V. Sunitha , A. Veeraragavan, Karthik K. Srinivasan, and Samson Mathew	Application of Factor Analysis in Maintenance Management of Low Volume Roads	International Journal of Pavement Research and Technology	Volume 6, No. 2	130-135	March 2013

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4	R.T Arjun Siva Rathan, V. Sunitha and Samson Mathew	Experimental Investigation on the Partial Replacement of Fine Aggregate with Waste Granite Fines in Concrete Paving Block	International Journal of Earth Sciences and Engineering	Volume 7, No. 5	1099 - 1104	October 2014
5	Latha, D., Sunitha, V. , Mathew, S.	Experimental Investigation to Find Transition Temperature of VG-30 Binder	International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering	volume 9, No. 12	1558 - 1562	2015
6	L. Janani, Raunak Kumar Dixit, V. Sunitha and Samson Mathew	Prioritisation of Pavement Maintenance Sections Deploying Functional Characteristics of Pavements	International Journal of Pavement Engineering			2019
7	Janani L., Sunitha V. , Mathew S.	Influence of Surface Distresses on Smartphone-Based Pavement Roughness Evaluation	International Journal of Pavement Engineering			2020
8	Janani L., Samuel, N. M., Sunitha V. and Mathew S	Vibration vs. Vision: Best Approach for Automated Pavement Distress Detection	International Journal of Pavement Research and Technology			2020
9	Arjun Siva Rathan R.T, Sunitha V	Mechanical and Microstructural study on interlocking concrete block pavers using waste granite dust	International Journal of Pavement Engineering	23 (2)		2020
10	Anusudha V, Sunitha V , Samson Mathew	Field Evaluation of Coir Geotextile Reinforced Subgrade for Low Volume Pavements	Journal of Natural fibers			2020

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11	Janani L., Sunitha V. , Mathew S.	Effect of combining algorithms in smartphone based pothole detection	International Journal of Pavement Research and Technology			2020
12	Anusudha, V., Sunitha, V. , Mathew, S.	Performance of coir geotextile reinforced subgrade for low volume roads	International Journal of Pavement Research and Technology			2020
13	Rejani V.U./ Velayudhan Sunitha , Samson Mathew	Upgradation of pavement deterioration models for urban roads by non-hierarchical clustering	International Journal of Pavement Research and Technology			2020
14	Anusudha Visvanathan, Sunitha Velayudhan and Samson Mathew	Evaluation of Coir Geotextile Reinforcement for Low Volume Roads	Journal of Natural Fibers			2020
15	Arjun Sivarathan R. T., Sunitha V. , MurshidaP., and Anusudha V.	Influence of Bedding and Jointing Sand on the Shear Strength Characteristics of Interlocking Paver Blocks-Bedding Sand Surface	International Journal of Pavement Engineering	23 (7)		2020
16	Arjun Siva Rathan Raveendran Thulasibai, Sunitha Velayudhan , Murshida Pathath, Janani Lekshmipathy, and Anusudha Visvanathan	Experimental and Numerical Evaluation of the Parameters Influencing the Shear-Stress Behavior of Interlocking Paver Blocks–Bedding Sand Interface Using Large-Scale Direct Shear Test	Journal of Materials in Civil Engineering	33(6)		2021
17	Arjun Siva Rathan	Mechanical and structural	Construction and Building	292		2021

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	Raveendran Thulasibai, Aravinda Sai, Sunitha Velayudhan	performance evaluation of pervious interlocking paver blocks	Materials			
18	Arjun Siva Rathan, Sunitha Velayudhan, Anusudha Visvanathan	Parametric study to investigate the deflection and stress behaviour of Interlocking Concrete Block Pavement	Road Materials and Pavement Design			2021
19	Janani Lekshmiopathy Rashmi Doley, Sunitha Velayudhan, Samson Mathew	Precision Enhancement of Smartphone Sensor-Based Pavement Roughness Estimation by Standardizing Host Vehicle Speed	Canadian Journal of Civil Engineering			2021
20	Arjun Siva Rathan, Sunitha Velayudhan	Development of Deflection Prediction Model for the Interlocking Concrete Block Pavements	Transportation Research Record, Journal of TRB	2676(3)		2021
21	Arjun Siva Rathan, Sunitha Velayudhan	Development of Design Procedure for Interlocking Concrete Block Pavement	International Journal of Pavement Engineering			2021
22	Arjun Siva Rathan, Sunitha Velayudhan	Numerical Modelling and Optimization on the Geometric Properties Influencing the Deflection Behaviour of Interlocking Concrete Block Pavement	Journal of Transportation Engineering: Part B, Pavements/ASCE	148 (3)		2022
23	Arjun Siva Rathan, Sunitha Velayudhan	Development of Effective Wearing Layer Elastic Modulus for	Construction and Building Materials/Elsevier			2022

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		Interlocking Concrete Block			
24	Arjun Siva Rathan, Sunitha Velayudhan, Anusudha Visvanathan	Influence of Thickness Parameters on the Performance of Interlocking Concrete Block Pavement	ACI Materials Journal		2022

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Venue	Year
Samson Mathew, D. Srividya and V. Sunitha	Selection of Site for Vegetable Market in Tiruchirappalli Using Integrated GIS and User Optimisation	National Conference on Applications of GIS and GPS in Civil Engineering	151-161	Jaya Engineering College, Thiruninravur	July 03, 2004
Samson Mathew, D. Srividya, V. Sunitha and R. Sundaresan	User Optimized Vegetable Market Site Selection Using Integrated GIS	National Conference on Advances in Road Transportation (ART – 2005)	182 – 188	National Institute of Technology, Rourkela, Orissa	February 12 – 13, 2005
Samson Mathew, V. Sunitha , V. M. Rajanandhini and R. Resmi	Integrated Transportation System for Tiruchirappalli City	National Conference on GIS, GPS and RS applications in Transportation Planning and Management	76-84	St. Peters Engineering College, Chennai	November 21 st to 22 nd , 2006
Samson Mathew, A. K. Raji, V. Sunitha and Swathi N.	Rural Road Network Planning - A case study of Karimnagar District in Andhra Pradesh	National conference of Focussing on Advances in Civil Engineering FACE	85-90	Thangal Kunju Musaliar College of Engineering, Kerala	1 st – 3 rd , February 2007
Samson Mathew, V. Sunitha , R. Resmi and Pooja. S. Nair	Commuters Rating on Bus Transport System in Tiruchirappalli City	National conference of Focussing on Advances in Civil	175 - 180	Thangal Kunju Musaliar College of Engineering, Kerala	1 st – 3 rd , February 2007

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		Engineering FACE			
S. Moses Santhakumar, Samson Mathew, V. Sunitha and J Sheeba	Travel Characteristics of Tamil Nadu Rural Population	National Conference on Earthquake and Transportation Engineering NCETE '07	TE143	Sona College of Technology, Salem	22 nd to 23 rd March 2007
R. Jayasankar, V. Sunitha , S. Abdul Rasheed, and A. Siddique	A Study on Cost Effectiveness of Stabilized Flyash for Rural Road Construction,	ROAD 07, National Conference, Workshop and Exposition on Trends in Road Making Materials, Methods & Machines – for Quality, Economy & Speed	95 – 109	Lakshmi Narain College of Technology, Bhopal	21 st – 24 th April 2007
S. Moses Santhakumar, Samson Mathew, R. Jayasankar and V. Sunitha	Impact of PMGSY on Travel Characteristics of Tamil Nadu Rural Population	National Conference on Rural Roads,	349 – 358	Vigyan Bhawan, New Delhi	May 22 – 24 2007
Samson Mathew, V. Sunitha , G. S. Ramanujam and A.Veeraragavan	Application of Genetic Algorithm in Pavement Maintenance and Rehabilitation Optimization	Proceedings of International Conference on Transportation Planning and Implementation Methodologies for Developing Countries TPMDC-2008	Paper ID 38	Indian Institute of Technology Bombay	December 3-6, 2008
P. Gauthaman, V. Sunitha , and Samson Mathew	Genetic Algorithm Approach for Pavement Maintenance and Rehabilitation	Student Symposium on Research in Civil Engineering	pp. 193 – 194	Department of Civil Engineering at IITM, Chennai	March 05 – 06, 2009
Mohammed Shinas S, Nisha Radhakrisnan, and V. Sunitha	GIS-GPS Based Pavement Management System	National Symposium for Post Graduate Students NSPGS 2010		PSG College of Technology, Coimbatore	April 24 – 25, 2010

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Samson Mathew and V. Sunitha	Urban Pavement Maintenance Management Systems (UPMMS)	National Conference on Urban Mobility – Challenges, Solutions and Prospects		IITM, Chennai	July 13 – 14, 2012
D. Latha and V. Sunitha	Experimental Investigation on Viscosity Behaviour of Binders	National Conference on Latest Advancements in Civil Engineering (LACE – 2014)		R.M.K. Engineering College, Kavaraipeitai	April 3, 2014
J. Cyril Santhosh and V. Sunitha	Optimization of Maintenance Strategies of Urban Roads in Trichirappalli City	Colloquium in Transportation Systems Engineering and Management, CTSEM 2014	paper ID 243	NIT, Calicut	May 12-13, 2014
K. Venu Madhav and V. Sunitha	Effect of Flyash and Steel Slag in Sub-base Layer	Colloquium in Transportation Systems Engineering and Management, CTSEM 2014	paper ID 242	NIT, Calicut	May 12-13, 2014
Lijin Rajeev and V. Sunitha	Application of Jute and Coir Geotextiles in Flexible Pavement	Colloquium in Transportation Systems Engineering and Management, CTSEM 2014	paper ID 239	NIT, Calicut	May 12-13, 2014
J. Cyril Santhosh and V. Sunitha	Pavement Prediction Modelling for Urban Roads in Trichirappalli City	Annual Conference for Innovations and Developments in Civil Engineering, ACIDIC 2014	819-826	NITK, Surathkal	May 19-20, 2014
K. Venu Madhav and V. Sunitha	Effect of Flyash and Steel Slag in Sub-base Layer	Annual Conference for Innovations and Developments in Civil Engineering,	70-79	NITK, Surathkal	May 19-20, 2014

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		ACIDIC 2014			
R.T Arjun Siva Rathan, V. Sunitha and Samson Mathew	Experimental Investigation on the Partial Replacement of Fine Aggregate with Waste Granite Fines in Concrete Paving Block	International Conference on Ingenious Technologies and Sustainable Developments in Civil Engineering, ICICE 2014	paper ID EM30	Noorul Islam University, Kumaracoil, Kanyakumari	October 8, 2014
Praveen S B, V. Sunitha , Samson Mathew and A. Veeraragavan	Pavement Performance Model for PMGSY Roads in India	2 nd Conference on Transportation Systems Engineering and Management (CTSEM 2015)	paper ID 118	NIT Tiruchirappalli	May 1-2, 2015
Karthik. K. R , V. Sunitha and Samson Mathew	Pavement Management System for Urban Roads in Tiruchirappalli City	2 nd Conference on Transportation Systems Engineering and Management (CTSEM 2015)	paper ID 124	NIT Tiruchirappalli	May 1-2, 2015
Syed Sahir and V. Sunitha	Study on Effect of Coir Geotextie as Reinforcement in Pavement Design	2 nd Conference on Transportation Systems Engineering and Management (CTSEM 2015)	paper ID 131	NIT Tiruchirappalli	May 1-2, 2015
Puli Sridhar and V. Sunitha	Experimental Investigation on the Properties of Modified Bitumen Binders	2 nd Conference on Transportation Systems Engineering and Management (CTSEM 2015)	paper ID 133	NIT Tiruchirappalli	May 1-2, 2015
Bhanu Prakash and V. Sunitha	Effect of Copper Slag as a Replacement of Fine Aggregate in Sub-Base Layer	2 nd Conference on Transportation Systems Engineering	paper ID 134	NIT Tiruchirappalli	May 1-2, 2015

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		and Management (CTSEM 2015)			
Anil Kumar Badita and V. Sunitha	Evaluation of Performance Enhancers in Subgrade and Base Layers of Flexible Pavement	2 nd Conference on Transportation Systems Engineering and Management (CTSEM 2015)	paper ID 135	NIT Tiruchirappalli	May 1-2, 2015
Chetan R Bhole, V. Sunitha and Samson Mathew	Effect of Coir Geotextile as Reinforcement on the Load Settlement Characteristics of Weak Subgrade	International Conference on Structural Engineering and Construction Management (ICSECM)	87-94	Srilanka	December 11 – 14, 2015
Latha, D., Sunitha, V., Mathew, S.	Experimental Investigation to Find Transition Temperature of VG-30 Binder	17 th International Conference on Civil Engineering and Applied Mechanics, ICCEAM 2015	3520 - 3524	Dubai, UAE	December 23-24, 2015
Praveen, S B, Sunitha, V., Samson Mathew and A. Veeraragavan	Pavement Performance Model for PMGSY Roads in India	8 th International Conference on Maintenance and Rehabilitation of Pavements (MAIREPAV8)		Singapore	27 - 29 July 2016
Chetan R Bhole, Sunitha, V., Samson Mathew and A. Veeraragavan	Field Implementation and Performance of Coir Geotextiles Reinforced Roads	8 th International Conference on Maintenance and Rehabilitation of Pavements (MAIREPAV8)		Singapore	27 - 29 July 2016
Karthik, K R, Rejani V. U., Sunitha, V., Samson Mathew and A.	Urban Pavement Maintenance Management System For Tiruchirappalli City	8 th International Conference on Maintenance and Rehabilitation of Pavements		Singapore	27 - 29 July 2016

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Veeraragavan		(MAIREPAV8)			
Karan Salokhe, P.Sandhya Rani and V. Sunitha	Experimental Investigation on Rheological Properties of Bitumen	3rd Conference on Transportation Systems Engineering and Management (CTSEM 2016)	343-350	BMS College of Engineering, Bangalore	October 24-25, 2016
Rejani V. U., Sunitha, V. and Samson Mathew	Urban Pavement Maintenance Management System for Tiruchirapalli City	3rd Conference on Transportation Systems Engineering and Management (CTSEM 2016)	464-472	BMS College of Engineering, Bangalore	October 24-25, 2016
P.Sandhya Rani, V. Sunitha	Experimental Investigation on the Rheological Properties of the Bitumen	CTSEM-2017		Anna University, Chennai	May 12-13, 2017
Rejani V. U., Sunitha V. and Samson Mathew	Pavement Maintenance Management System for Tiruchirappalli City	International Conference on Maintenance and Rehabilitation of Constructed Infrastructure Facilities (MAIREINFRA - 2017)		Seoul	July,19-21, 2017
V. Sunitha, A. Veeraragavan, Karthik K Srinivasan and Samson Mathew	Deterioration Models for Latent Class Clustered Pavement Sections	National Conference on Roads and Transport (NCORT-2017)		Indian Institute of Technology Roorkee	October 14-15, 2017
Sunitha V., Bhanu Prakash K., Janani L	Sustainable use of Copper Slag as a Replacement of Fine Aggregate in Sub-base layer	International Conference on Desalination	163	National Institute of Technology, Tiruchirappalli	April, 21, 2018
Sunitha V., Sidarth Sahu,	Utilization of Recycled Waste	International Conference on	162	National Institute of Technology,	April, 21, 2018

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Mohit Negi	Plastic in Pavement	Desalination		Tiruchirappalli	
Arjun Siva Rathan, Sunitha V. , Raunak Kumar Dixit	Eco-friendly use of Waste Granite Fines in Concrete Paving Block	International Conference on Desalination	132-133,163	National Institute of Technology, Tiruchirappalli	April, 21, 2018
Chandra Sekhar, Sunitha V.	Study of Drainage Characteristics on Flexible Pavements	International Conference on Desalination	164	National Institute of Technology, Tiruchirappalli	April, 21, 2018
Janani L, Raunak Dixit, Sunitha V. and Samson Mathew	Development of relationship between functional and structural characteristics of pavement	International Conference on infrastructure Development: Issues, Innovations and the Way Forward (ICID 2018)		Dept. of Civil Engg, Mar Baselios College of Engineering and Technology, Thiruvananthapuram	21-23 June 2018
Sai Rahul Reddy N., Sunitha V.	Analyzing the Rutting Resistance of Modified Binders Using MSCR Test –	New and effective Innovations, Technologies and Key challenges 2020” NCCE –	26	NIT Karnataka Surathkal	30th – 31st January 2020
Sai Rahul Reddy N., Sunitha V.	Investigating the Rheological Properties of Waste plastic Modified Binders	International Conference Innovative Trends in Civil Engineering for Sustainable Development	197 - 198	NIT Warangal	13-15 September 2019
Anusudha, V., Sunitha, V. Babu, C., Bhole, C.R., Mathew, S.	Numerical Studies on Coir Geotextile Reinforced Flexible Pavement	MAIREPAVE 2020		Zurich, Switzerland	June 2020
Anusudha V., Sunitha V. , Samson Mathew	Finite Element Analysis on Coir Geotextile Reinforced Rural Roads	7 th Conference on Transportation Systems Engineering and Management, CTSEM 2020	PT 75-PT 79	KSCSTE – NATPAC and CET Trivandrum	29-30 December, 2020
Arjun Siva Rathan,	Evaluation on the Influence of	7 th Conference on	PT48 – PT51	KSCSTE – NATPAC and CET	29-30 December,

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Sunitha Velayudhan	Bedding Sand Source in the Shear Behaviour of Interlocking Concrete Block Pavement	Transportation Systems Engineering and Management, CTSEM 2020		Trivandrum	2020
Janani L., Sunitha V. , Samson Mathew	Smartphone Sensor-Based Pavement Roughness Estimation	7 th Conference on Transportation Systems Engineering and Management, CTSEM 2020	PT52 – PT 56	KSCSTE – NATPAC and CET Trivandrum	29-30 December, 2020
Mohit Singh Parihar, V. Sunitha , Jegan Bharath Kumar. A	Investigation of Moisture Damage of Hot Mix Asphalt using Artificial Neural Network	7 th Conference on Transportation Systems Engineering and Management, CTSEM 2020	PT 67- PT 70	KSCSTE – NATPAC and CET Trivandrum	29-30 December, 2020
Shilpa Rajan, V. Sunitha and S. Shaheem	Understanding the Travel Behaviour of Government Employees – A Case Study of Thiruvananthapuram city	7 th Conference on Transportation Systems Engineering and Management, CTSEM 2020	TP 25- TP 28	KSCSTE – NATPAC and CET Trivandrum	29-30 December, 2020
Susan Francis, V. Sunitha , Samson Mathew	Bus Passenger Origin Destination Matrix Estimation from Electronic Ticketing Machine Data	7 th Conference on Transportation Systems Engineering and Management, CTSEM 2020	TP 17- TP 20	KSCSTE – NATPAC and CET Trivandrum	29-30 December, 2020
Arjun Siva Rathan, Aravind Sai, Sunitha Velayudhan	Investigation on the Mechanical Properties and Structural Behaviour of Novel Pervious Interlocking Paver Block	Transportation Research Board (TRB) 100th Annual Meeting		United States (online)	5-29, January, 2020
Arjun Siva Rathan R.T and	Determination of Effective Elastic	8th International		NIT Calicut	2021

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Sunitha V	Modulus of Interlocking Concrete Block Pavement Wearing Layer	Conference on “Transportation Systems Engineering and Management” (CTSEM 2021)			
Anusudha Visvanathan, Sunitha Velayudhan and Samson Mathew	Experimental Studies on Coir Geotextile Reinforced Low Volume Rural Road	6th Conference of the Transportation Research Group of India (CTRG-2021)		Tiruchirappalli	2021
Arjun Siva Rathan R.T and Sunitha V	Influence of Thickness Parameters on the Mechanical Behaviour of Interlocking Concrete Block Pavement	6th Conference of the Transportation Research Group of India (CTRG-2021)		Tiruchirappalli	2021
Mohit Singh Parihar, Jegan Bharath Kumar and V. Sunitha	Moisture damage prediction of hot mix asphalt using Artificial Neural Network	6th Conference of the Transportation Research Group of India (CTRG-2021)		Tiruchirappalli	2021
Susan Francis, V. Sunitha and Samson Mathew	Potential of Electronic Ticketing Machine Data in Public Transport Planning	6th Conference of the Transportation Research Group of India (CTRG-2021)		Tiruchirappalli	2021
Anjumol M Sadhu, Dr. Sunitha V.	Effect of Binder Content on Moisture Susceptibility of Bituminous Mixtures at Different Test Conditions	International Virtual Conference on "Smart and Sustainable Development of Urban Green Infrastructure in India and Canada" (SSDUGI – 2022)	Paper ID: SSDUGI_6 pp: 28-29	Shastri Indo Canadian Institute and NIT Tiruchirappalli	25- 26 March 2022
Nihil John, Sunitha V	Investigation on the Performance of	International Virtual	Paper ID: SSDUGI_20	Shastri Indo Canadian Institute	25- 26 March

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	Warm Mix Asphalt mixture with Reclaimed Asphalt Pavement	Conference on "Smart and Sustainable Development of Urban Green Infrastructure in India and Canada" (SSDUGI – 2022)		and NIT Tiruchirappalli	2022
Tummala Venkata Ganesh, Sunitha V.	Study on the Effect of Geopolymer on Rheological Properties of Crumb Rubber Modified Binders	International Virtual Conference on "Smart and Sustainable Development of Urban Green Infrastructure in India and Canada" (SSDUGI – 2022)	Paper ID: SSDUGI_25 pp: 56-57	Shastri Indo Canadian Institute and NIT Tiruchirappalli	25- 26 March 2022
Tejas Shrivastava, Arjun Siva Rathan R.T, Sunitha V	Performance assessment of plastic waste modified bitumen pavement constructed by wet process	International Virtual Conference on "Smart and Sustainable Development of Urban Green Infrastructure in India and Canada" (SSDUGI – 2022)	Paper ID: SSDUGI_72 pp: 118-119	Shastri Indo Canadian Institute and NIT Tiruchirappalli	25- 26 March 2022
Ankit Kumar Singh, V. Sunitha, Sh. Satish Pandey	Finite Element Analysis of Geocell Reinforced Flexible Pavements	International Virtual Conference on "Smart and Sustainable Development of Urban Green Infrastructure in India and Canada" (SSDUGI – 2022)	Paper ID: SSDUGI_73	Shastri Indo Canadian Institute and NIT Tiruchirappalli	25- 26 March 2022

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Kawaldeep Singh Bhatia, Dr.V.Sunitha, R. Chandra Prathap	Effect of overloading on flexible pavement performance	International Virtual Conference on "Smart and Sustainable Development of Urban Green Infrastructure in India and Canada" (SSDUGI – 2022)	Paper ID: SSDUGI_74 pp: 120-121	Shastri Indo Canadian Institute and NIT Tiruchirappalli	25- 26 March 2022
Suneel Singh, Arjun Siva Rathan R.T, Sunitha V	Performance assessment of plastic waste modified bitumen mix pavements constructed by dry process	International Virtual Conference on "Smart and Sustainable Development of Urban Green Infrastructure in India and Canada" (SSDUGI – 2022)	Paper ID: SSDUGI_75 pp: 122-123	Shastri Indo Canadian Institute and NIT Tiruchirappalli	25- 26 March 2022

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
V. Anusudha, V. Sunitha, Chithu Babu, Chetan R. Bhole, and Samson Mathew	Numerical Studies on Coir Geotextile Reinforced Flexible Pavement	Lecture notes in Civil Engineering, Scopus	2020	2366-2565

22. Project Details List:

Ongoing Projects & Past Projects

i. Ongoing Projects:

Sl. No	Project Title	Project Invigilator & Co PI	Project Area	Funding Agency
1	Development of Optimization Models and Decision Support System for National Highways	Dr. V. Sunitha (PI)	Pavement Engineering	National Highway Authority of India
2	Traffic Rules and Signs-based Toys	Dr. V. Sunitha (PI) Dr. S. Muthukumaran	Transportation Engineering	Ministry of MSME,

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		(Co PI)		Government of India
3	Evaluation of Pavement performance of Coir reinforced Rural Roads in Tamilnadu	Dr. V. Sunitha (PI) Dr. S. Moses Santhakumar (Co PI) Dr. Samson Mathew (Co PI)	Pavement Engineering	Coir Board, Ministry of MSME, Government of India
4	Centre of Excellence in Transportation Engineering (CETransE)	Dr. S. Moses Santhakumar (PI) Dr. Samson Mathew (Co PI) Dr. V. Sunitha (Co PI) Dr. Nisha Radhakrishnan (Co PI)	Pavement, ITS & Transportation Planning Engineering	MHRD, Government of India

ii. Past / Completed Projects:

Sl. No	Project Title	Project Invigilator & Co PI	Project Area	Funding Agency	Completed Year
1	Life Cycle and Performance Assessment of Waste Plastic Roads	Dr. V. Sunitha (PI)	Pavement Engineering	NRIDA, Government of India	2021
2	Pavement Performance Studies on Coir Geotextiles Reinforced Rural Roads in Tamilnadu	Dr. Samson Mathew (PI) Dr. S. Moses Santhakumar (Co PI) Dr. V. Sunitha (Co PI)	Pavement Engineering	Coir Board, Ministry of MSME, Government of India	2018
3	Urban Pavement Maintenance Management Systems (UPMMS)	Dr. Samson Mathew (PI) Dr. V. Sunitha (Co PI)	Pavement Engineering	Ministry of Urban Development and IIT, Madras, Chennai	2015
4	Coir Geotextiles Reinforced Low Volume Rural Road Pavement Performance Studies in Tamilnadu and Puducherry	Dr. Samson Mathew (PI) Dr. S. Moses Santhakumar (Co PI) Dr. V. Sunitha (Co PI)	Pavement Engineering	Coir Board, Ministry of MSME, Government of India	2012

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Consultancy details

Sl. No.	Title of Project	Funding Agency	Amount (Rs. lakhs)	Duration	
				From	To
1	Bituminous Mix Design - Vellore Division - NH 179A	SPL Infrastructure Private Limited, Chennai	1.48	18.03.2021	09.09.2021
2	Scrutiny of PMGSY proposals of Tamil Nadu state for the years 2019-20 and 2020-21	National Rural Infrastructure Development Agency	24.55	01.04.2019	12.05.2021
3	Scrutiny of PMGSY proposals of Puducherry state for the year 2020-21	National Rural Infrastructure Development Agency	1.34	01.04.2020	12.05.2021
4	Bituminous Mix Design - WMM, DBM, DAC, SDAC - Tuticorin Airport	Airport Authority of India, Tuticorin Airport	1.77	19.11.2019	03.11.2020
5	Mix Design for the Asphaltic Concrete	Reliance Infrastructure Limited, C/o Nuclear Power Corporation of India Ltd	1.18	21.12.2019	31.10.2020
6	Upgradation of PUR to ODR - CBR test for NABARD and Rural Roads – Trichy Division – Musiri	The Divisional Engineer (H), NABARD and Rural Roads, Tiruchirappalli	9.20	25.02.2020	19.06.2020
7	Scrutiny of Plan & Profile - Oddanchatram - Madathukulam section of NH-209	DGM (Tech) Cum Project Director NHAI Dindugul	8.56	04.03.2020	27.04.2020
8	Mix Design for DBM and BC - Trichy Dindigul section of NH 83	Vignesh and Co., Madurai	1.18	14.02.2020	19.03.2020
9	Road Safety Audit for a length of 27.20 km in the Madurai Ring Road, Tamil Nadu	Tamil Nadu Road Infrastructure Development Corporation, Chennai, Tamil Nadu	5.44	28.03.2019	23.10.2019

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10	Scrutiny of PMGSY proposals of Puducherry state for the year 2018-19	National Rural Infrastructure Development Agency	16.80	01.04.2018	27.03.2019
11	Upgradation of PUR to ODR - CBR test for NABARD and Rural Roads – Trichy Division – Musiri	The Divisional Engineer (H), NABARD and Rural Roads, Tiruchirappalli	3.07	27.08.2019	01.10.2019
12	Upgradation of PUR to ODR - CBR test for NABARD and Rural Raods Division – Perambalur	The Divisional Engineer (H), NABARD and Rural Roads, Tiruchirappalli	3.48	28.08.2019	01.10.2019
13	Mix Design of DBM, DAC – Cochin Airport Resurfacing of Runway, Taxiway	CIAL – Cochin International Airport Limited	4.13	23.7.2019	30.09.2019
14	Scrutiny of PMGSY proposals of Puducherry state for the year 2018-19	National Rural Infrastructure Development Agency	12.86	01.04.2018	27.03.2019
15	Mix Design for the bituminous Nagapattinam to Thanjavur of NH-67	NHAI, Yoga and Co., Madurai	1.18	27.12.2018	30.01.2019
16	Design for GSB Provision of HMS	Vishal Infrastructure Ltd. Bangalore	1.18	23.08.2018	20.11.2018
17	Bitumen Extraction Madurai Kanyakumari section of NH7	NHAI – PIU Madurai	1.65	17.09.2018	14.11.2018
18	Overlay Design by Benkelman Beam Deflection Test at SIPCOT Perundhurai	The Project Officer, SIPCOT Industrial Growth Centre, Perundhurai	1.42	14.03.2018	12.06.2018
19	Scrutiny of Plan & Profile of Two-Lane Project Karaikudi – Ramanathapuram section of NH210	DRA-SP-VM (JV) No.6, Raja Dhinagar Place East Street Ramanathapuram	10.00	09.11.2017	02.02.2018
20	Common	Govt. & Private	10.00	27.03.2006	07.11.2017

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	Consultancy Works of Civil Department				
21	Scrutiny of Plan & Profile of Coimbatore-Pollachi section of Dindigul – Bangalore Road (NH 209)	KNR Constructions Limited, Coimbatore	4.32	06.02.2017	22.02.2017
22	Approval of Plan and Profile of Thanjavur – Pudukkottai Section of NH226	NHAI	7.59	28.08.2014	28.04.2016
23	Approval of Plan and Profile of Thirumayam – Manamadurai Section of NH226	NHAI	10.68	28.08.2014	28.04.2016
24	Design of Job Mix Formula for the construction of Automotive Test Track works of NATRiP at Oragadam, Chennai	Sunmax Constructions	10.91	15.12.2014	09.12.2015
25	Road Safety Audit of Walayar – Vadakkancherry Section from Km 182+250 to Km 240+000 of NH47	NHAI	4.86	30.03.2015	15.05.2015
26	Proof checking of Two-laning of Trichy – Karaikudi Section of NH210 Widening	NHAI	7.12	26.07.2011	31.01.2012

Certification:

I, the undersigned, certify that, to the best of my knowledge and belief, this resume correctly describes myself, my qualifications and my experience.

Dr. Sunitha V.

11.07.2022