

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

Curriculum Vitae



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

I am **Dr. Sunitha V.** I completed my B.Tech. Degree from University of Calicut, in the year 2001, M. Tech. Degree from NIT Calicut in 2003 and Ph.D. from IIT Madras in 2013. I joined National Institute of Technology, Tiruchirappalli in the year 2003 as Research Associate and is currently working as **Assistant Professor**. I am having 16 years of experience in teaching. I have completed Two sponsored projects, one project on "Coir Geotextiles Reinforced Low Volume Rural Road Pavement Performance Studies in Tamilnadu and Puducherry" sponsored by Coir Board, Ministry of MSME, Government of India worth Rs. 12.5 lakhs and another on Urban Pavement Maintenance Management Systems (UPMMS) sponsored by Ministry of Urban Development and IIT, Madras worth Rs. 10 lakhs. Currently I am co-ordinating two sponsored projects on Pavement Performance Studies on Coir Geotextile Reinforced Rural Roads in Tamilnadu sponsored by Coir Board, Ministry of MSME, Government of India worth Rs. 420 lakhs and another on Performance Monitoring and Evaluation of Pilot Projects of PMGSY Roads Sanctioned by NRRDA with New Technology/Material - RBI Grade 81 sponsored by NRRDA for Rs. 7 lakhs. I am a coordinator for the MHRD sponsored Centre of Excellence in Transportation Engineering (CETransE). I am a member of State Technical Agency of Prime Minister Gram Sadak Yojana (PMGSY) program for Tamilnadu and Pondicherry.

My area of research interest is on pavement materials and pavement management systems. I have guided 47 Post graduate project works in various fields such as Transportation Engineering, Transportation Planning and Pavement Engineering. Currently five PhD scholars are working under my guidance. I have published 45 papers in International/National journals, and International/National conferences. I have organised seven workshops/short Term Programmes/Conferences, etc. I am also involved in Transportation related consultancy works. I am a member of the professional bodies such as Indian Roads Congress, Institution of Engineers and Indian Geotechnical Society. I am currently the co-ordinator for the M.Tech. programme in Transportation Engineering and Management.

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1. Name: Dr. Sunitha V.
2. Designation: Assistant Professor
3. Office Address: Dept. of Civil Engineering, NIT Tiruchirappalli 620015
4. Telephone (Direct) (Optional):
Telephone : _____ Extn (Optional): 3165 (O), 4165 (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 |
|---|--|------------|------------|
| Assistant Professor (Grade pay Rs. 8000/-) | National Institute of Technology, Tiruchirappalli | 12.03.2018 | Till date |
| Assistant Professor (Grade pay Rs. 7000/-) | National Institute of Technology, Tiruchirappalli | 27.03.11 | 12.03.2018 |
| Assistant Professor (Grade pay Rs. 6000/-) | National Institute of Technology, Tiruchirappalli | 27.03.06 | 26.03.11 |
| Research Associate | National Institute of Technology, Tiruchirappalli | 06.08.03 | 26.03.06 |

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 | |
| 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 | Doctoral committee member of Ph.D. | 2017 | Till date |

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| | | | |
|---|--|------|-----------|
| committee member | Scholar Marie Gerard Cyril Perera | | |
| 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 |
| 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 |
| Review Committee Member | Sangam Hardware Hackathon | 2019 | 2019` |

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 | 2016 | 2016 |

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|--------------------------------|--|------|-----------|
| | Engineering and Technology, Dindigul | | |
| 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 |

11. Awards, Associateships etc.

| Year of Award | Name of the Award | Awarding Organization |
|---------------|--------------------|---|
| 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 |

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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
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. Traffic and pavement Engineering Lab
10. Highway Engineering Lab
11. 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 |

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| | | |
|-----------------------|--|---|
| | 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 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 |
| | 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 |

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| | | |
|-----------------------|--|---|
| 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 Odd | M. Tech. (Transportation Engineering and Management) | CE603 - Pavement Analysis and Design |
| | 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 |

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|---------------------|--|---|
| 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 |
| 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 |

(iii) Projects guided at Postgraduate level

2006-2007

1. Study of Work Trip Pattern of Two Contrasting Residential Settlements in Tiruchirappalli City
2. Regional Road Network Planning - A Case Study of Four districts of Tamil Nadu

2008-2009

3. Genetic Algorithm Approach for Pavement Maintenance and Rehabilitation
4. Development of Performance Based Flexible Pavement Deterioration Models – A Case Study of NH – 210
5. Facility Based Regional Rural Road Planning
6. Application of Coir Geotextile in Flexible Pavement

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2009-2010

7. GIS – GPS Based Pavement Management System
8. 2010-2011
9. Coir Geotextile Reinforced Rural Road Pavement Performance Study
10. Pavement Distress Analysis using Image Processing Techniques
11. Urban Pavement Maintenance Management System for Tiruchirappalli City
12. Performance Study of Semi Dense Bituminous Concrete by adding Polymer Fibres

2011-2012

13. Urban Pavement Maintenance Management System (UPMMS)
14. Experimental study on properties of pervious concrete and its applicability in pavement
15. Evaluation of fatigue behaviour of sub-grade and sub-base soil performance enhancers

2012-13

16. Optimization of pavement management system for urban roads in Tiruchirappalli city
17. Experimental analysis of stone matrix asphalt with additives
18. Residential location modeling for Tiruchirappalli city
19. Potential of coir in sub-grade improvement and pavement performance
20. Comparative study of soil strength estimation models developed based on CBR, DCP and GEOGAUGE test results

2013-14

21. Optimization of Maintenance Strategies for Urban Roads in Tiruchirappalli City
22. Effect of Flyash and Steel Slag in Sub-base layer
23. Performance Studies on Bituminous Concrete Mixes Using Waste Plastics
24. Application of Jute and Coir Geotextiles in Flexible Pavement
25. Experimental Investigation on Material Properties of Various Types of Binders

2014-15

26. Pavement Management System for Urban Roads in Tiruchirappalli City using GAMS
27. Evaluation of Performance Enhancers (RBI-81, Cement) in Base Layer of Pavement
28. Study of Effect of Coir Geotextile as Reinforcement in Pavement Design
29. Effect of Copper Slag as Replacement of Fine Aggregate in Sub-base Layer
30. Experimental Investigation on the Properties of Modified Bitumen Binders
31. Pavement Performance Model for PMGSY Roads in India

2015-16

32. Study of Effect of Coir Geotextile as Reinforcement in Flexible Pavement
33. Evaluation of Subgrade Soil Properties using Insitu and Laboratory Tests
34. Mode Choice Modelling of Work Trips in Tiruchirappalli City Using Decision Tree

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35. Cost Effective Rehabilitation Alternative for Flexible Pavement- Whitetopping
36. Laboratory Investigation on Reclaimed Asphalt Pavement
37. Experimental Investigation on Rheological Properties of Asphalt Binder using Dynamic Shear Rheometer

2016-17

38. Experimental Investigation on the Rheological Properties of the Bitumen
39. Mix Characterization and Fatigue Performance of RAP
Optimization of Pavement Maintenance Management of Urban Roads in Tiruchirappalli District
40. Analysis of Coir Geotextile Pavements Using Finite Element Method
41. Evaluation of Coir Geotextile Reinforced Flexible Pavements
42. Evaluation of Marshall Stability Properties and Fatigue Behaviour of Bituminous Mixes Using Waste Plastic

2017-18

43. Study of Drainage Characteristics on Flexible Pavements
44. Rheology of Binders at Pavement Service Temperature
45. Effect of Overloading of Vehicles in Pavement Design
46. Pavement Maintenance Management System using Functional Characteristics of the Pavement
47. Experimental Study on Mixture Characteristics of Warm Mix Asphalt

MS (By Research) Guided

Experimental Investigation on the Partial Replacement of Fine Aggregate with Waste Granite Fines in Concrete Paving Block – Arjun Siva Rathan R.T.

(iv) Other contribution(s)

UG Projects guided:

1. Design of a Road Using MXroad
2. Application of GIS in real estate plot selection: Thillainagar area
3. Locomotive scheduling
4. Effect of gradation on the properties of bituminous concrete mixes
5. Bus Transport Efficiency Assessment
6. Deterioration Model for Urban Pavement
7. Roughness Prediction Model for Urban Pavement
8. Household Trip Generation for Abhishekapuram Zone in Tiruchirappalli
9. Predictive Modelling on NH67 and Accident analysis of Tiruchirappalli city
10. Comparative Study of Actuated Signals and Fixed signal in Tiruchirappalli city
11. Stabilization of Clay Soil by Adding Industrial Waste of Barium Carbide
12. Challenges in Land Acquisition for Construction of Service Roads
13. Fatigue Analysis of Binder in Intermediate Pavement Temperature

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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 | 31.03.2014 | On-going |
| Centre of Excellence in Transportation Engineering | MHRD, Government of India | 08.05.2013 | 08.05.2017 | On-going |
| Performance Monitoring and Evaluation of Pilot Projects of PMGSY Roads Sanctioned by NRRDA with New Technology/Material - RBI Grade 81 Manufactured by Alchemist Technology Ltd, New Delhi | NRRDA | 2013 | | On-going |

15. Number of PhDs guided

| Name of the PhD Scholar | Title of PhD Thesis | Role(Supervisor/ Co-Supervisor) | Year of Award |
|-------------------------|---------------------|---------------------------------|---------------|
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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 | I.I.T., 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 | National | Participant | NIT Trichy | NIT Trichy |

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| | advancements in Environmental Engineering” | | | | |
| 16 - 21 July 2007 | QIP Short Term Training Programme on “Recent Advances in Flexible Pavement Engineering” | National | Participant | IIT, Madras | IIT, Madras |
| | 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 - | National | National | Participant | IIT, Madras | IIT, Madras |

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| 14, 2012 | Conference on “Urban Mobility – Challenges, Solutions and Prospects” | | | | |
| April 28 – 29, 2015 | workshop on “Conclave on Academic Reforms - CAR 2015” | National | Participant | NIT Trichy | NIT Trichy |
| 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 |
| 23- 25 th Feb 2019 | Introduction to Machine Learning and Deep learning – with Applications to Engineering systems | National | Participant | IIT, Bombay | NIT Trichy |

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 |

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| 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 Management (CTSEM) under Centre of Excellence in Transportation Engineering (CETransE) | National | 1–2, May 2015 | Organizing Secretary | Dept. of Civil Engineering NIT 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 | National | 23 - 27 October 2017 | Co-ordinator | Dept. of Civil Engineering NIT Tiruchirappalli |

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| Directorate of Rural Development and Panchayat Raj, Govt of Tamilnadu | | | | |
| 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 under Centre of Excellence in Transportation Engineering (CETransE) | National | 20 - 24, November 2017 | Co-ordinator | Dept. of Civil Engineering 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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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 |

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:

| Author(s) | Title of Paper | Journal | Volume (No.) | Page numbers | Year | Impact Factor of the Journal (Optional) |
|---|---|---|--------------|-------------------|---------------|---|
| 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 | November 2007 | |
| 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 | |

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|--|--|---|---------------------|----------------|-----------------|-------|
| 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 | |
| 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 | |
| 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 | |
| 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 | Published Online | | 2019 | 2.322 |

(B) Conferences/Workshops/Symposia Proceedings

| Author(s) | Title of Abstract/ Paper | Title of the Proceedings | Page numbers | Conference Theme | Venue | Year |
|---|---|--|-----------------|---------------------|---|------------------|
| Samson Mathew, D. Srividya and V. | Selection of Site for Vegetable Market in | National Conference on Applications of | 151-161 | | Jaya Engineering College, Thiruninravur | July 03, 2004 |

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| | | | | | | |
|--|---|---|-----------|--|---|--|
| Sunitha | Tiruchirappalli Using Integrated GIS and User Optimisation | GIS and GPS in Civil Engineering | | | | |
| 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 Engineering FACE | 175 - 180 | | Thangal Kunju Musaliar College of Engineering, Kerala | 1 st – 3 rd , February 2007 |
| 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, | 95 – 109 | | Lakshmi Narain College of Technology, Bhopal | 21 st – 24 th April 2007 |

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|--|--|---|---------------|--|--|---------------------|
| | | Methods & Machines – for Quality, Economy & Speed | | | | |
| 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 |
| 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, Kavaraipettai | April 3, 2014 |

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|--|---|--|---------------|--|--|-----------------|
| 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, ACIDIC 2014 | 70-79 | | NITK, Surathkal | May 19-20, 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 | Pavement Performance Model for | 2 nd Conference on Transportation | paper ID 118 | | NIT Tiruchirappalli | May 1-2, 2015 |

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|---|--|--|--------------|--|---------------------|-------------------|
| Mathew and A. Veeraragavan | PMGSY Roads in India | Systems Engineering and Management (CTSEM 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 and Management (CTSEM 2015) | paper ID 134 | | NIT Tiruchirappalli | May 1-2, 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. | Effect of Coir Geotextile as | International Conference on | 87-94 | | Srilanka | December 11 – 14, |

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| | | | | | | |
|--|---|---|-------------|--|---------------------------------------|----------------------|
| Sunitha and Samson Mathew | Reinforcement on the Load Settlement Characteristics of Weak Subgrade | Structural Engineering and Construction Management (ICSECM) | | | | 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. Veeraragavan | Urban Pavement Maintenance Management System For Tiruchirapalli City | 8 th International Conference on Maintenance and Rehabilitation of Pavements (MAIREPAV8) | | | Singapore | 27 - 29 July 2016 |
| Karan Salokhe, P.Sandnya 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 | Urban Pavement Maintenance | 3rd Conference on Transportation | 464-472 | | BMS College of Engineering, Bangalore | October 24-25, 2016 |

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|---|---|---|-------------|--|---|---------------------|
| Mathew | Management System for Tiruchirapalli City | Systems Engineering and Management (CTSEM 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, Mohit Negi | Utilization of Recycled Waste Plastic in Pavement | International Conference on Desalination | 162 | | National Institute of Technology, Tiruchirappalli | April, 21, 2018 |
| 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 |

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| | | | | | | |
|---|---|---|--|--|--|--------------------|
| 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 |
|---|---|---|--|--|--|--------------------|

(C) Books & Monographs

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