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Anna University Kotturpuram, Chennai 600025



## Present Position

Professor, Department of Civil Engineering, College of Engineering Guindy, Anna University, Chennai from January-2009.

## Present Additional Responsibility

- ACADEMIC COUNCIL MEMBER, SONA COLLEGE OF TECHNOLOGY , SALEM, Anna University, Chennai from July-2019.
- Member, V.I.T., VELLORE D.C MEMBER, Anna University, Chennai from July-2019.
- MADRAS UNIVERSITY, SENATE MEMBER, Anna University, Chennai from August-2018.
- Subject Expert for PG Project Thesis Evaluation, Division of Transportation Engineering, Anna University, Chennai from July-2018.
- Academic Advisory Member, Chennai Institute of Technology, Anna University, Chennai from November-2017.
- ATAL INCUBATION CENTRE- 10 crore Project, Expert Member for Representing the Division of Transportation Engineering , Anna University, Chennai from October-2017.
- Faculty Advisor, Department of Civil Engineering, Anna University, Chennai from August-2016.
- Result passing Board, Karpagam College of Engineering, Anna University, Chennai from May-2016.
- Member for Doctoral committee for Full time Ph.D. , VIT University, Anna University, Chennai from November-2015.
- Member for Doctoral committee for Full time Ph.D. , VIT University, Anna University, Chennai from January-2015.
- Member for Doctoral committee for Full time Ph.D. , VIT University, Anna University, Chennai from January-2015.
- Every Semester Organise the Field Trips and educat, Department of Civil Engineering, Anna University, Chennai from February-1990.

- Every Semester Organize few Expert Guest Lectures, Department of Civil Engineering, Anna University, Chennai from February-1990.
- , , Anna University, Chennai.

### Previous Positions

- Associate professor, Division of Transportation Engineering, College of Engineering Guindy, Anna University, Chennai during January-2006 and December-2008.
- Assistant Professor, Division of Transportation Engineering, College of Engineering Guindy, Anna University, Chennai during May-2002 and December-2005.
- Lecturer Sl.Grade, Division of Transportation Engineering, College of Engineering Guindy, Anna University, Chennai during April-2000 and May-2002.
- Lecturer Sr. Grade, Division of Transportation Engineering, College of Engineering Guindy, Anna University, Chennai during February-1996 and April-2000.
- Lecturer, , College of Engineering Guindy, Anna University, Chennai during February-1990 and February-1996.
- Teacher Trainee, Division of Transportation Engineering, College of Engineering Guindy, Anna University, Chennai during December-1986 and February-1990.

### Previous Additional Responsibility

- Examiner For Ph.d. Dissertation Thesis Evaluation, SRM university, Anna University, Chennai from November-2017.
- Technical Expert For Pg Project Thesis Evaluation, Division of Transportation Engineering, Anna University, Chennai during July-2016 and June-2017.
- Anna University Representative Result Passing Boar, Karpagam College of Engineering, Anna University, Chennai during June-2016 and April-2017.
- Class Committee Chairperson, Department of Civil Engineering, Anna University, Chennai during January-2016 and May-2016.
- Technical Expert For Pg Project Thesis Evaluation, Division of Transportation Engineering, Anna University, Chennai during July-2015 and June-2016.
- Examiner For Thesis Evaluation, Thiyagarajar College of Engineering , Madurai, Anna University, Chennai from March-2015.
- Syllabus Committee & Result Passing Board Member, Mahalingam college of Engineering, Pollachi Dt., Anna University, Chennai during June-2014 and May-2015.
- Technical Expert For Pg Project Thesis Evaluation, Division of Transportation Engineering, Anna University, Chennai during June-2014 and June-2015.

- Head Of The Division, Division of Transportation Engineering, Anna University, Chennai during September-2013 and September-2014.
- Additional Chief Superintendent Of Examinations, Department of Civil Engineering, Anna University, Chennai during April-2010 and May-2010.
- Supervisor For 9 Ctdt Sponsored Projects, Division of Transportation Engineering, Anna University, Chennai during February-2009 and January-2018.
- Joint Secretary, Alumini Association, College of Engineering , Anna University Chennai, Anna University, Chennai during January-2008 and November-2010.
- Class Committee Chair Person, Department of Civil Engineering, Anna University, Chennai during August-2006 and June-2010.
- Class Committee Chair Person, Dept.of.Agricultural Engineering, CEG, Anna University, Chennai, Anna University, Chennai during August-2006 and June-2010.
- Seminar Convener, Alumini Association, College of Engineering , Anna University Chennai, Anna University, Chennai during March-2005 and August-2013.
- Chief Superintendent Examiner, Department of Civil Engineering, Anna University, Chennai from November-2004.
- Examiner For Pg Thesis Evaluation, IITM, Anna University, Chennai from May-2003.
- Examiner For Pg Thesis Evaluation, IITM, Anna University, Chennai from November-2002.
- Co Investigator, Division of Transportation Engineering, Anna University, Chennai during October-2002 and December-2007.
- Class Committee Chair Person, Division of Transportation Engineering, Anna University, Chennai during August-2002 and June-2009.
- Chief Superintendent Examiner, Department of Civil Engineering, Anna University, Chennai from May-2002.
- Examiner For Pg Thesis Evaluation, IITM, Anna University, Chennai from June-2001.
- Co Investigator, Division of Transportation Engineering, Anna University, Chennai during August-1997 and August-2002.
- Project Investigator, UGC -Major Research Project, Anna University, Chennai during June-1997 and June-1999.
- Faculty In -charge Of Dynamic Simulation Modeling, Division of Transportation Engineering, Anna University, Chennai during August-1994 and June-2014.
- Professor In -charge Of Dynamic Simulation Lab, Division of Transportation Engineering, Anna University, Chennai during August-1994 and June-2018.

- Co Investigator, Division of Transportation Engineering, Anna University, Chennai during August-1994 and August-1999.
- Co Investigator, Division of Transportation Engineering, Anna University, Chennai during November-1993 and May-1998.
- Technical Expert For Pg Project Thesis Evaluation, Division of Transportation Engineering, Anna University, Chennai during June-1990 and December-2010.
- University Laboratory Exam - Examiner, NIT Thiruchirapalli, Anna University, Chennai from March-1990.
- Co Investigator, Division of Transportation Engineering, Anna University, Chennai during August-1988 and August-1993.
- Faculty In -charge Of Computers & Softwares, Division of Transportation Engineering, Anna University, Chennai during August-1987 and August-1995.
- Faculty In -charge Of Traffic & Transportation Lab, Division of Transportation Engineering, Anna University, Chennai during August-1987 and August-2007.
- Faculty In -charge Of Highway Lab, Division of Transportation Engineering, Anna University, Chennai during August-1987 and August-2003.
- Faculty In -charge Of All Stocks Both Non- Cosumab, Division of Transportation Engineering, Anna University, Chennai during June-1987 and August-2004.
- Faculty In -charge Of Library, Division of Transportation Engineering, Anna University, Chennai during June-1987 and June-1993.
- Faculty In -charge Of Vehicle Maintenance, Division of Transportation Engineering, Anna University, Chennai during June-1987 and May-1993.
- Filed Survey Van In-charge, Division of Transportation Engineering, Anna University, Chennai during January-1987 and January-1991.
- In-charge Of Purchase Committee, Division of Transportation Engineering, Anna University, Chennai during December-1986 and July-1992.
- , , Anna University, Chennai.
- , , Anna University, Chennai.

## Other Employment

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## Degree

- ❖ M.E. in URBAN ENGINEERING, COLLEGE OF ENGINEERING GUINDY (CEG), ANNA UNIVERSITY (1988 - 1990).

- ❖ B.E. in CIVIL ENGINEERING , GOVERNMENT COLLEGE OF TECHNOLOGY, MADRAS UNIVERSITY (1981 - 1985).

## Research Degree

- ❖ Ph.D. in DYNAMIC SIMULATION OF LAND USE AND TRANSPORTATION SYSTEMS from Faculty of CIVIL ENGINEERING, COLLEGE OF ENGINEERING GUINDY (CEG), ANNA UNIVERSITY (1999 - 2002).  
Title: LAND USE TRANSPORT INTERACTION MODELLING : A SYSTEMS APPROACH.

## Area of Specialisation

- Dynamic Simulation Modelling of Traffic / Transportation and Related system

## Membership in Professional Organization

- Member in the System Dynamics Society at the International level at Albany, New York, USA
- Executive Committee Member in Alumni Association College of Engineering Guindy (AACEG), Anna Univer
- Member in System Dynamics Society of India, IIT, Kharagpur Since December 2006
- Life Member in Indian Roads Congress (IRC) Since July 2005, New Delhi, India
- Life Member in Institute of Urban Transport (IUT) (India), New Delhi, India, Since 15.10.1999 (M-31
- Life Member in Indian Society of Technical Education (ISTE), New Delhi, India, Since 1994 (LM 18832
- Life Member in Alumni Association of Urban Engineers in Chennai, Tamil Nadu, India, from 1990.

## Research Guidance

Number of Ph.D Scholars Guided	: 3
Number of Ph.D Scholars Guiding	: 6
Number of M.S (By Research) Students Guided	: 1
Number of M.E./ M.Tech. Projects Guided	: 120
Number of M.E./ M.Tech. Projects Guiding	: 4
Number of M.S (By Research) Students Guiding as Joint-Supervisor	: 1

## Papers Published in Journals

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Research Papers Published in International Journals : 16  
Research Papers Published in National Journals : 4

1. "Sustainable Infrastructure Development in PeriUrban Area - A Case study of Chennai.", System Dynamic Review,
2. " Sustainable Infrastructure Development in Selected settlementsof PeriUrban Area - A Case study of Chennai.", System Dynamic Review,
3. Umadevi G, Thirumurthy A.M, " Transportation and Environment “- The Urban Poor Deserve a Better Deal", International journal Elsevier, (1995).
4. Umadevi.G, " A Systems Approach in the Highway Research Bulletin", A Journal of Indian Roads Congress (IRC) , (2006).
5. Dr.Uma Devi, " Land Use Transport Interaction Modeling", International Journal of System Dynamics, (2007).
6. Vijayalakshmi. M , Umadevi G, " Bus Transport System along Northern Suburban Corridor – A Case Study of CMA", Journal of Town Planning, (2007).
7. Naveen Kumar S, Umadevi G, " Application of System Dynamics Simulation Modelling in Road Safety", International Journal of TRB, (2011).
8. "System Dynamics Simulation Modeling for Transportation and Energy Interaction", International Journal of Research & Scientific Innovation (IJRSI), published by Research and Scientific Innovation Society. pp. 565-567 (2014).
9. Lakshmi.M , Umadevi G, " Environment and transport interaction peri urban areas in Chennai metropolitan area", Research Journal of Applied Sciences, (2014).
10. Lakshmi. M , Umadevi G, " Dynamic modeling for accelerating sustainable land use development in peri urban areas", Research Journal of Applied Sciences, (2014).
11. Lakshmi.M , Umadevi G, " Part of Chennai Metropolitan Area", Research Journal of Applied Sciences, Vol. 7, (2014).
12. Abirami Krishna A,Umadevi G, " Sustainable Transportation and Infrastructure Development in Peri urban areas of Chennai", National Colloquium, (2014).
13. Ponnurangam P, Umadevi G, " Macro Level Simulation Model Building of Sustainable Transportation planning for Chennai city", National Colloquium, (2014).
14. " Advance Methodologies To Ensure Road Safety", International Journal of Civil Engineering and Technology (IJCIET), published by International Association of Engineering and Man. Vol. 6, Issue 6, pp. 46-52 (2015).
15. "Transport Demand and Supply Modeling for Chennai City - A Systems Approach", Published in International Journal on Emerging Researches in Engineering Science and Technology (IJEREST) , published by KVCT. pp. 347-350 (2015).

16. Abirami Krishna A U, Umadevi G, " Estimation of holding capacity based on basic infrastructures-A systems approach ", International Journal of Emerging Technology and Advanced Engineering and Technology (IJETA), Vol. 5, Issue 6, pp. 548-555 (2015).
17. Ponnurangam P, Umadevi G, " Sustainable Transportation Planning – A Systems Approach ", International Journal of Civil Engineering and Technology (IJCIET), Vol. 6, Issue 6, pp. 46-52 (2015).
18. Abirami Krishna A, Umadevi G, " Simulation Modeling of Planning Sustainable Basic Infrastructure through Density Optimization", International journal Elsevier, (2015).
19. " Sustainable Transportation Planning – A Systems Approach ", International Journal of Civil Engineering and Technology (IJCIET), published by International Association of Engineering and M. Vol. 6, Issue 6, pp. 187-195 (2015).
20. "Simulation Modelling of LUT Interaction with other infrastructure", International Journal of Simulation Modelling, (2019).

## Papers Presented in Programmes

Research Papers Presented in International Programmes : 25  
Research Papers Presented in National Programmes : 33

1. Azhaginiyal.A and Dr.Umadevi.G, "Transport, Energy, Environment and Economy interaction : A Systems Approach" presented in a International level conference on Application of System Dynamics Simulation Modelling, INDIA .
2. Naveenkumar and Dr.Umadevi.G , "Systems Dynamics Simulation modeling for Ensuring Road Safety" presented in a National level conference on Systems modeling Model Application in Road Safety, INDIA .
3. Dr.Uma Devi, "Sustainable Transportation Planning - A systems Approach" presented in a National level conference on Sustainable Transportation Planning - A systems Approach, organised by SRM university, India .
4. Dr.Uma Devi, Abirami, Krishna, "Estimation Holding Capacity" presented in a National level conference on Estimation Holding Capacity, organised by SRM university, India .
5. Umadevi, Gayathiri, "Sustainable Transportation planning with energy as an iconic tool" presented in a National level conference on Sustainable Transportation Planning with Energy as an Iconic Tool, organised by SSN college of engineering, India .
6. Dr.Uma Devi, PonnuRangam, "Sustainable Transportation planning with energy as an iconic tool" presented in a International level conference on Traffic Impact Analysis for Chennai IT corridor, organised by IIT Bombay, India .
7. Dr.Uma Devi, Gayathiri, "System Dynamic Simulation Modelling For Transportation and Energy Interaction" presented in a International level conference on multi disciplinary research and practice (ICMRP-2014), organised by ICMRP , Gujarat, INDIA, India .

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8. Umadevi.G, "Sustainable Transportation and Infrastructure Development in Peri urban areas of Chennai" presented in a National level seminar on Sustainable Transportation and Infrastructure Development in Peri urban areas of Chennai, organised by National Institute of Technology, National Colloquium, Calicut, India .
  9. "Parking Studies" presented in a National level workshop on Photogrammetry for Transportation Engineering, organised by Anna University, India from 02-May-1988.
  10. "Parking Studies,Summer school on "Photogrammetry for Transportation Engineering" presented in a International level conference on Parking Studies,Summer school on "Photogrammetry for Transportation Engineering, India from 04-May-1988 to 10-May-1988.
  11. Sriramulu C.T, "Trip generation model for Madras City " presented in a National level seminar on Advances in Transportation Systems : Planning and Management, organised by Indian Institute of Technology (IIT) Madras, India from 02-Mar-1992 to 02-Mar-1992.
  12. Umadevi G., Sriramulu C.T, "Trip generation model for Madras City " presented in a National level seminar on Advances in Transportation Systems : Planning and Management , organised by I.I.T, Madras, INDIA from 09-Mar-1992 to 09-Mar-1992.
  13. Umadevi G, "AutoCAD in generating Traffic and Urban Engineering maps and drawings" presented in a National level workshop on Traffic engineering and management , organised by DTUSE, Anna University, Madras, INDIA from 01-Sep-1992 to 02-Sep-1992.
  14. Umadevi G, "Field Studies for Traffic Management " presented in a National level workshop on Evaluation of Traffic Engineering Programmes, organised by DTUSE, Anna University, Madras, INDIA from 01-Aug-1995 to 01-Aug-1995.
  15. "Field Studies for Traffic Management " presented in a National level workshop on Evaluation of Traffic Engineering Programmes, organised by Anna University, India from 01-Aug-1995.
  16. Thirumurthy A.M, "The Urban Poor Deserve a Better Deal" presented in a International level conference on Transportation and Environment, organised by World Road Congress, Montreal from 13-Sep-1995 to 14-Sep-1995.
  17. Dr.Uma Devi, "Landuse and Transport Systems Dynamics Approach" presented in a International level conference on Landuse and Transport Systems Dynamics Approach, organised by CEG, Anna University Chennai, India from 08-Dec-1995 to 08-Dec-1995.
  18. 29. Umadevi G., Thirumurthy A.M, "Sustainable Transportation System for Indian Cities" presented in a International level conference on Civil Engineering for sustainable development, organised by University of Roorkee, INDIA from 03-Feb-1997 to 03-Feb-1997.
  19. Thirumurthy A.M, "Sustainable Transportation System for Indian Cities" presented in a International level conference on Civil Engineering for sustainable development, organised by University of Roorkee, India from 03-Feb-1997.
  20. Dr.Uma Devi, Thirumurthy A.M, "Sustainable Transportation System for Indian Cities" presented in a International level conference on Sustainable Transportation System for Indian Cities, India from 20-Nov-1997 to 21-Nov-1997.



21. Umadevi G, "Land Use Transport Interaction Modeling" presented in a National level workshop on Land Use Transport Interaction Modeling, organised by University Grants Commission, Birla Institute of Technology, Ranchi, Bihar, INDIA from 03-Jan-2000 to 03-Jan-2000.
22. "Land Use Transport Interaction Modeling" presented in a National level workshop on Evaluation Workshop, University Grants Commission, organised by Birla Institute of Technology, India from 03-Jan-2000.
23. Dr.Uma Devi, Thirumurthy A.M, "Land Use - Transport Interaction Modeling" presented in a National level seminar on Land Use - Transport Interaction Modeling, India from 06-Mar-2002.
24. Umadevi G, "Parking Management in Metropolitan Cities – A case Study of Chennai" presented in a National level conference on Parking Demand Management from 30-Mar-2002 to 30-Mar-2002.
25. Dr.Uma Devi, "Parking Demand Management" presented in a National level seminar on Parking Management in Metropolitan Cities – A case Study of Chennai, organised by Anna University, India from 30-Mar-2002 to 30-Mar-2002.
26. Thirumurthy A.M, "Land Use - Transport Interaction Modeling" presented in a National level seminar on Road Transportation in India: Emerging Trends and Techniques (ROTRAN 2002, organised by Indian Institute Technology (IIT) Kharagpur, India from 12-Sep-2002 to 13-Sep-2002.
27. Thirumurthy A.M, "Land Use Transport Interaction: Systems Dynamics Approach" presented in a International level conference on Transportation Systems Planning and Operation, organised by Indian Institute of Technology (IIT) Madras, India from 18-Feb-2004 to 20-Feb-2004.
28. Dr.Uma Devi, Thirumurthy A.M, "Land Use Transport Interaction: Systems Dynamics Approach" presented in a International level conference on Land Use Transport Interaction: Systems Dynamics Approach, India from 05-May-2004.
29. Dr.Uma Devi, "Application of Innovative Techniques in Transportation Planning" presented in a International level seminar on Application of Innovative Techniques in Transportation Planning, organised by Alumni Association of Anna University, Anna University, Chennai, India from 19-Aug-2005 to 20-Aug-2005.
30. Umadevi G., "Land Use Transport Interaction Modeling – A Systems Approach " presented in a National level conference on Sixty Seventh Annual Session of Indian Roads Congress, Panchakulla, Haryana,India from 20-Nov-2006 to 20-Nov-2006.
31. Umadevi G, "Application of Advanced Technologies in Transportation" presented in a International level conference on Application of Advanced Technologies in Transportation, Athens, Greece, Europe. from 27-May-2008 to 31-May-2008.
32. Nawaz.N and Umadevi G, "Pre-distribution Modal Split model for Peri Urban areas of Chennai" presented in a National level seminar on Advancements in Transportation Planning , INDIA from 10-Apr-2009 to 10-Apr-2009.
33. Vijaya durai and Umadevi G, "Study on transportation network development in periurban areas of Chennai" presented in a National level seminar on Advancements in Transportation Planning, INDIA from 10-Apr-2009 to 10-Apr-2009.

34. "Trip generation modelling by category analysis using transcad" presented in a National level seminar on Advancements in Transportation Planning , INDIA from 20-Apr-2009 to 20-Apr-2009.
35. Vishnuvardhan. J and Umadevi G, "System Dynamics Model for simulating the Growth of Chennai and its Fringe Areas" presented in a International level conference on Twenty Seventh International System Dynamics Conference, Albuquerque, New Mexico. from 26-Jul-2009 to 31-Jul-2009.
36. Kavinkumar and Dr.Umadevi.G , "Intersection design using VISSIM software " presented in a National level conference on Traffic Management, INDIA from 02-Apr-2010 to 03-Apr-2010.
37. Raja and Dr.Umadevi.G , "Pre distribution modal Split analysis for Peri Urban Areas" presented in a National level conference on Advancements in Transportation Planning , INDIA from 05-Apr-2010 to 05-Apr-2010.
38. Banuchandher and Dr.Umadevi.G , "System modeling for Sustainable development of Periurban Area outside CMA 2011 in Chennai" presented in a National level conference on System Dynamics from 27-Jan-2011 to 28-Jan-2011.
39. Jegan Bharath Kumar and Dr.Umadevi.G , "Microscopic Modelling Of Traffic Signals In It Corridors Using Vissim Software " presented in a National level seminar on Sustainable Transportation development in Civil Engineering 2011 from 09-May-2011 to 09-May-2011.
40. Kamalraj and Dr.Umadevi.G, "Transportation system management for T-Nagar area using CUBE software 2011 " presented in a National level conference on Transportation system management , INDIA from 09-May-2011 to 09-May-2011.
41. "Application of System Dynamics Simulation Modelling in Road Safety" presented in a International level conference on Road Safety and Simulation , organised by Purdue University,Indiana, USA from 05-Sep-2011 to 07-Sep-2011.
42. Dr.Uma Devi, "Application of System Dynamics Simulation Modeling in Road Safety" presented in a International level conference on Application of System Dynamics Simulation Modeling in Road Safety, organised by Purdue University, Indiana Polis ,USA from 14-Sep-2011 to 16-Sep-2011.
43. "'Transport, Energy, Environment and Economy interaction : A Systems Approach" presented in a International level conference on systems simulation, INDIA from 09-Jan-2012 to 11-Jan-2012.
44. Sundarraj and Dr.Umadevi.G, "Creation of GIS database for Peri Urban Areas in Chennai with Dynamic Modeling" presented in a National level seminar on Advancements in Transportation Planning , INDIA from 23-Jan-2012 to 23-Jan-2012.
45. "System simulation modeling for modal split analysis for Chennai" presented in a National level conference on System Dynamics from 20-Aug-2012 to 20-Aug-2012.
46. "Application of System Dynamic Simulation Modeling in Road Safety" presented in a International level conference on Application of System Dynamic Simulation Modeling in Road Safet, organised by Saint Peters University, Chennai,, India from 04-Jan-2013 to 05-Jan-2013.

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47. Dr.Uma Devi, "Application of System Dynamic Simulation Modeling in Road Safety" presented in a National level workshop on Application of System Dynamic Simulation Modeling in Road Safety, India from 22-Mar-2013.
  48. Azhaginiyal.A and Dr.Umadevi.G, "'Transport, Energy, Environment and Economy interaction' : A Systems model" presented in a International level conference on System Dynamics International Conference, organised by Massachusetts Institute of Technology (MIT) , USA from 01-Jul-2013 to 03-Jul-2013.
  49. Umadevi.G, "Macro Level Simulation Model Building of Sustainable Transportation planning for Chennai city" presented in a National level seminar on Macro Level Simulation Model Building of Sustainable Transportation planning for Chennai city, organised by National Institute of Technology, National Colloquium, Calicut, India from 01-May-2014.
  50. vinoth kumar, Dr.Umadevi, "Traffic Impact Analysis for Chennai IT Corridor" presented in a International level conference on Traffic Impact Analysis for Chennai IT Corridor, India from 13-Aug-2014.
  51. on Precised Accident Analysis through Photogrammetry and GIS, India from 16-Oct-2014.
  52. Umadevi.G, "System Dynamics Simulation Modeling for Transportation and Energy Interaction" presented in a International level conference on Multidisciplinary Research and Practice (ICMRP-2014), organised by Ahmedabad Management Association, India from 03-Nov-2014.
  53. Umadevi.G, "Precised Accident Analysis through Photogrammetry and GIS" presented in a International level conference on Precised Accident Analysis through Photogrammetry and GIS, organised by Indian Institute of Technology, Bombay, India from 01-Dec-2014.
  54. Umadevi.G, "Sustainable Transportation Planning with Energy as an Iconic tool" presented in a National level conference on Recent Trends in Chemical, Energy & Environmental Engineering(CEEE) 2015, organised by SSN College of Engineering, India from 02-Feb-2015.
  55. Umadevi.G, "Sustainable Transportation Planning – A Systems Approach" presented in a National level conference on Ramapuram Campus National Conference, organised by SRM University, India from 01-Apr-2015.
  56. Dr.Uma Devi, "System Dynamics Simulation Modeling For a Transition To Sustainable Transportation System” – A Review" presented in a National level conference on Innovative Practices, Recyclable Materials and Energy Efficient Methods in Civil Engineering, organised by PSG Institute of Technology and Applied Research, India from 23-Mar-2018 to 23-Mar-2018.
  57. Rathiga, Dr.Uma Devi, "System Dynamic Simulation Modelling For A Transition To Sustainable Transportation System - A Review" presented in a International level conference on System Dynamic Simulation Modelling For A Transition To Sustainable Transportation System - A Review, organised by PSG , Coimbatore, India from 23-Mar-2018 to 24-Mar-2018.
  58. Meena Roshini & G Umadevi, "Dynamic simulation of smart city Ponneri in Chennai" presented in a International level conference on International Conference on Civil and Environmental Engineering (I2C2E) , organised by KYOTA, JAPAN from 27-Nov-2018 to 28-Nov-2018.

## Books Published

1. "Applications of Geomatics in Urban Environment Management" authored by Dr.Umadevi. G, (A Chapter ) and Landuse Management – A Systems Approach”, A Chapte and published by Charulatha Publications, Chennai.(2006)
2. "System Dynamic Simulation Modeling Approaches In Transportation Planning" authored by Dr.Umadevi. G, (A Chapter ) and System Dynamic Simulation Modeling Approaches In T and published by Charulatha Publications, Chennai.(2008)

## Current Sponsored Projects

1. "Integrated Planning of Transport Demand Supply for Chennai City & Peri Urban Areas using Advanced Modeling Techniques", funded by UGC - Center for Advanced Studies (CAS) ( January-2015 - December-2020 ). Project Cost: 1200000.00.
2. "Economic Sustainability of Provision of Infrastructure in Smart City Using Innovative Techniques for T-Nagar, Chennai City" ( July-2019 - December-2019 ). Project Cost: 25000.00.
3. "Critical Analysis of Pattern of Development for a Smart City Using Innovative Approach" ( July-2019 - December-2019 ). Project Cost: 25.00.

## Sponsored Projects Completed

1. "Formulation of Road Network in Periurban Interface of Chennai Metropolitan Area (CMA)", funded by UGC, Centre for Advanced Studies (CAS) (January-2008 - December-2013). Project Cost: 1000000.00.
2. "Development of a landuse transportation modeling principles of Systems Dynamics and EMME2 assignment techniques", funded by UGC- Major Research Project (March-1993 - October-1999). Project Cost: 193000.00.
3. "Micro level Modeling of Land Use Transport Balancing in Chennai : A Systems Approach", funded by CTDT (August-2017 - February-2018). Project Cost: 25000.00.
4. "Accident Prediction & Costing Modeling for Chennai : A Systems Approach", funded by CTDT (August-2017 - February-2018). Project Cost: 25000.00.
5. "GIS Based Simulation Modeling of Sustainable Planning of Smart City In Chennai ", funded by CTDT (August-2016 - March-2016). Project Cost: 16000.00.
6. "Transport and Economy Interaction", funded by CTDT (August-2015 - February-2016). Project Cost: 25000.00.
7. "Transport and Energy Interaction", funded by CTDT (December-2013 - March-2014). Project Cost: 25000.00.
8. "Simulation Modeling for Economic Evaluation of transportation projects ", funded by CTDT (December-2013 - May-2013). Project Cost: 25000.00.

9. "Enhancing Level of Service along Urban Arterials : A systems Approach", funded by CTDT (February-2013 - June-2013). Project Cost: 25000.00.
10. "Transport Demand Supply Modeling using Simulation Modeling", funded by CTDT (December-2009 - April-2014). Project Cost: 25000.00.
11. "Traffic Impact and Circulation Studies with Simulation Modelling for Inner Ring Road, Chennai.", funded by Hilton Group of Hotels (June-2009 - February-2010). Project Cost: 100000.00.
12. "Traffic operational Management for Medium Town Thirupattur", funded by Department of Town and Country Planning, Tamil Nadu (December-2003 - August-2004). Project Cost: 100000.00.
13. "Traffic operational Management for Medium Town pattukottai", funded by Department of Town and Country Planning, Tamil Nadu (November-2001 - December-2002). Project Cost: 100000.00.
14. "Traffic Study for Doveton Road Intersection - A feasibility study", funded by Department of Town and Country Planning, Tamil Nadu (November-1997 - May-1998). Project Cost: 100000.00.
15. "Traffic Study for Turnbolls Road Intersection - A feasibility study", funded by Department of Town and Country Planning, Tamil Nadu (January-1998 - May-1998). Project Cost: 100000.00.
16. "Traffic Study for Alwerpet Intersection - A feasibility study", funded by Chennai Cooperation (January-1998 - May-1998). Project Cost: 100000.00.
17. "Traffic study for Chollaimedu Intersection - A Feasibility study", funded by Chennai Cooperation (January-1998 - May-1998). Project Cost: 100000.00.
18. "Comprehensive Traffic and Transportation Study for Madurai ", funded by Department of Town and Country Planning, Tamil Nadu (January-1996 - April-1997). Project Cost: 3500000.00.
19. "Madras Sub-Urban Rail Systems - Study on fair Policy ", funded by Ministry of Railways , Government of India (January-1993 - June-1993). Project Cost: 300000.00.
20. "Population Distribution Model - A Study on Water Distribution Network for Madras Metro Area ", funded by Chennai Cooperation (April-1994 - August-1994). Project Cost: 100000.00.
21. "Traffic operational Management for Thirunelveli District", funded by Department of Town and Country Planning, Tamil Nadu (September-1996 - January-2000). Project Cost: 1500000.00.
22. "Dynamic Simulation (DS) Modelling of Road Network Design based on geography and Geo-morphological Aspects of Evolving Sustainable Smart City", funded by CTDT (July-2018 - December-2018). Project Cost: 25000.00.
23. "Micro Level Dynamic Simulation (DS) Modelling of Traffic Impact Assessment for Chennai", funded by CTDT (July-2018 - December-2018). Project Cost: 25000.00.
24. "Urban Transportation Planning in 1990 ", funded by University Grants Commission (UGC) under Special Assistance Programme (April-1990 - October-1991). Project Cost: 100000.00.

25. "Urban Transportation and Land Use Planning in 2000", funded by University Grants Commission (UGC) under COSIST Programme (March-2000 - August-2001). Project Cost: 100000.00.

### Programme Chaired

1. Chairman, National level workshop titled "Application of System Dynamic Simulation Modeling in Road Safety" conducted by St.Peters College of Engineering from 04-Jan-2013 to 05-Jan-2013.
2. Chairman, National level conference titled "Highway Pavement Management Systems" conducted by Thaiyaga Raja College of Engineering, Madurai from 30-Jan-2015 to 31-Jan-2015.
3. Co Chairman, International level seminar titled "Air Quality Management - World Environment Day Theme 2019" conducted by CEG ANNA UNIVERSITY CHENNAI 25 from 03-Oct-2019 to 03-Oct-2019.

### Programme Organized

1. Organizer, National level seminar on "Application of Innovative Techniques in Transportation Planning" from 19-Aug-2005 to 20-Aug-2005.
2. Organizer & Core Committee Member , National level seminar on "Transportation in Chennai :Challenges and Solutions " from 19-Aug-2005 to 20-Aug-2005.
3. Organizer & Joint - Coordinator , National level seminar on "Role of NGOs and Resident Welfare Association in Ensuring Road Safety" from 16-Feb-2006 to 16-Feb-2006.
4. Convener, National level seminar on "Vechile Characteristics " from 04-Jan-2007 to 04-Jan-2007.
5. Convener, National level seminar on "Staggering of Working Hours –Demand Management technique" from 08-Mar-2007 to 08-Mar-2007.
6. Co Convener , National level seminar on "Transportation Sector of the Second Master Plan" from 25-Aug-2007 to 25-Aug-2007.
7. Convener, National level seminar on "Road Safety" from 05-Jan-2008 to 05-Jan-2008.
8. Convener, National level seminar on "Driver Safety " from 03-Jan-2009 to 03-Jan-2009.
9. EXHIBITION ORGANISER, National level seminar on "CHENSAFE - 2010 Towards road user safety" from 04-Jan-2010 to 05-Jan-2010.
10. ORGANISER, National level seminar on "CHENSAFE - 2010 Towards road user safety" from 04-Jan-2010 to 05-Jan-2010.
11. Convener, National level seminar on "Road Safety for Ever" from 05-Jan-2012 to 05-Jan-2012.

12. Convener, National level seminar on "Effective Enforcement :A Key To Road Safety " from 05-Jan-2012 to 05-Jan-2012.
13. Organiser, National level seminar on "Enhancing the Quality of Faculty in Technical Education" from 03-May-2012 to 03-May-2012.
14. Convener, National level seminar on "Road Accidents: Prevention and Investigation and Innovative Techniques in Road Saefy" from 05-Jan-2013 to 05-Jan-2013.
15. Convener, National level conference on "Advanced Methodologies and innovative Techniques in Road Safety" from 05-Jan-2013 to 05-Jan-2013.
16. Convener, National level seminar on "Key to Road Safety" from 07-Jan-2014 to 07-Jan-2014.
17. Organiser, National level seminar on "Tech Times" from 30-Apr-2014 to 30-Apr-2014.
18. ORGANISER, National level seminar on "Road Safety" from 07-Jan-2015 to 07-Jan-2015.
19. Organizer for Stall Organizing, National level conference on "CEGAM - 2018 , Organised a STALL for Representing the Dept. of Civil Engineering" from 21-Jul-2018 to 22-Jul-2018.
20. Organiser and Delegate, International level conference on "Tamil Nadu Economic Policy Dialogue at IIT Madras ,Chennai 36" from 07-Sep-2018 to 08-Sep-2018.
21. Organiser, National level conference on "Second Tamil Nadu Economic Policy Dialogue " from 04-Oct-2019 to 05-Oct-2019.
22. ORGANIZER/SPARC MHRD SPONSORED, National level seminar on "TRAFFIC MANAGEMENT WITH THE AID OF MODERN SIGNALS JOINTLY WITH GEORGIA INSTITUTE OF TECHNOLOGY ATLANTA,USA" from 09-Dec-2019 to 13-Dec-2019.

## Programme Attended

1. Participated in a International level conference organized by Department of Humanities & Social Sciences & Tamil Nadu Young Thinkers Forum (TNYTF) , India.
2. Attended a National level seminar on "Land values and Urban development" organized by , Division of Urban Systems Development, Anna University, INDIA.
3. Attended a National level seminar on "Second Master Plan for Madras" organized by Various local user organisations with in Madras Metropolitan Area, INDIA.
4. Attended a National level seminar on "Demand and Supply of Housing sites in and around Madras" organized by TamilNadu Real Estate Dealers Association , INDIA.
5. Participated in a National level workshop on "Mentoring Youth and Adolescents " organized by Anna University, India.
6. Participated in a National level workshop on "Parking Studies" organized by Anna University, India from 02-May-1988.

7. Attended a National level seminar on "Trip generation model for Madras City " organized by Indian Institute of Technology (IIT) Madras, India from 02-Mar-1992.
8. Participated in a National level workshop on "AutoCAD in generating Traffic and Urban Engineering maps and drawings" organized by Anna University, India from 01-Sep-1992.
9. Participated in a National level workshop on "Municipal Urban Development Finance" organized by Division of Urban Systems Development, Anna University, INDIA from 07-Jun-1994 to 07-Jun-1994.
10. Participated in a National level workshop on "Transportation Planning and management to the Town planners" organized by Department of Town and Country Planning, INDIA from 17-Aug-1994 to 17-Aug-1994.
11. Participated in a National level workshop on "Improving Teacher Effectiveness" organized by Indian Society for Technical Education, Anna University, INDIA from 27-Jan-1995 to 28-Jan-1995.
12. Attended a National level Short Course on "SICAD-GIS" organized by Anna University, India from 03-Jul-1995.
13. Participated in a National level workshop on "Field Studies for Traffic Management " organized by Anna University, India from 01-Aug-1995.
14. Participated in a International level conference on "The Urban Poor Deserve a Better Deal" organized by World Road Congress, Canada from 01-Sep-1995.
15. Participated in a National level workshop on "sustainable urban development" organized by Anna University, India from 01-Dec-1995.
16. Attended a National level Short Course on "Land Information Management – Application of Computer Software" organized by Anna University, India from 01-Feb-1996 to 31-Dec-1996.
17. Attended a National level Short Course on "ISTE Winter School on Modern Trends in Food Presentation Technology" organized by Anna University, India from 18-Mar-1996 to 29-Mar-1996.
18. Participated in a International level conference on "Sustainable Transportation System for Indian Cities" organized by University of Roorkee, India from 03-Feb-1997.
19. Attended a National level Short Course on "Remote Sensing and GIS " organized by Anna University, India from 01-May-1997 to 07-Jun-1997.
20. Attended a National level Short Course on "Evaluating shelters Strategies using Computer Simulation Models" organized by Anna University, India from 15-Jul-1997 to 17-Jul-1999.
21. Participated in a National level workshop on "Impact of Mass Rapid Transit System- Phase II (Thiruvanniyur to Velachery)" organized by Chartered Institute of Transport Southern India section and DTUSE, INDIA from 04-Aug-1997 to 04-Aug-1997.



22. Attended a National level seminar on "Role of Local Bodies in Urban Development and Management" organized by Division of Urban Systems Development, Anna University, INDIA from 23-Feb-1998 to 23-Feb-1998.
23. Attended a National level seminar on "Real Estate Practice: Promotion and Management of Apartments" organized by Division of Urban Systems Development, Anna University, INDIA from 28-Feb-1998 to 28-Feb-1998.
24. Attended a National level Short Course on "Parking Studies", summer school on "Photogrammetry for Transportation Engineering" organized by Anna University, Madras, India from 04-May-1998 to 10-May-1988.
25. Participated in a International level workshop on "Two weeks Quality Improvement Programm in Ports and Harbour Plannning " organized by IITM, INDIA from 07-Dec-1998 to 18-Dec-1999.
26. Attended a National level Short Course on "Quality Improvement Programme (QIP) on Ports and harbour Planning" organized by I.I.T. Chennai , India from 07-Dec-1998 to 18-Dec-1998.
27. Attended a National level seminar on "Standardization in Engineering Practice" organized by Bureau of Indian Standards and AICTE, New Delhi, INDIA from 04-Feb-1999 to 05-Feb-1999.
28. Participated in a National level workshop on "5 days training on Micro station 95, Geovec Office" organized by CEG,Anna University, Chennai and Geovec Office, INDIA from 15-Mar-1999 to 19-Mar-1999.
29. Attended a National level Short Course on "Microstation 95, Geovec office and Geomedia Pro" organized by Rolta India Ltd, Anna University, India from 15-Mar-1999 to 19-Mar-1999.
30. Participated in a National level workshop on "Impact of waste on Ground Contamination and role of Civil Engineer" organized by Anna University, INDIA from 21-Oct-1999 to 22-Oct-1999.
31. Participated in a International level workshop on "Land Use Transport Interaction Modeling" organized by Birla Institute of Technology, India from 03-Jan-2000.
32. Participated in a National level workshop on "Road Safety - Facilities for Pedestrain and Two-wheelers" organized by Division of Urban Systems Development (DUSD) Anna University, INDIA from 21-Mar-2000 to 21-Mar-2000.
33. Participated in a National level workshop on "Urban Planning, Development and Management issues" organized by Anna University, India from 18-Apr-2000 to 20-Apr-2000.
34. Attended a National level seminar on "Engineering aspects of Road Safety" organized by Anna University, India from 17-Oct-2000 to 17-Oct-2000.
35. Participated in a National level workshop on "Inter Modal Transfer Facilities at MRTS and Sub Urban Railway Station in Chennai" organized by Anna University, India from 09-Nov-2000 to 10-Nov-2000.
36. Participated in a National level workshop on "Inter Modal Transfer Facilities at MRTS and Sub Urban Railway Station in Chennai" organized by CEG,Anna University, Chennai, INDIA from 22-Nov-2000 to 22-Nov-2000.

37. Participated in a National level workshop on "Experience Sharing Workshop on Implementation of Demonstration Projects (SCP) by NGOs, DUSD" organized by CEG,Anna University, Chennai, INDIA from 13-Feb-2001 to 14-Feb-2001.
38. Attended a International level Short Course on "Introduction to ArcInfo" organized by CEG,Anna University, Chennai (DUSD), INDIA from 09-Apr-2001 to 13-Apr-2001.
39. Attended a National level Short Course on "working with ArcInfo" organized by CEG,Anna University, Chennai and ESRI INDIA, INDIA from 23-Apr-2001 to 24-Apr-2001.
40. Attended a National level Short Course on "Working with ArcView Spatial Analyst" organized by CEG,Anna University, Chennai, INDIA from 25-Apr-2001 to 26-Apr-2001.
41. Attended a National level Short Course on "Working with ArcView Network Analyst" organized by CEG,Anna University, Chennai, INDIA from 27-Apr-2001 to 27-Apr-2001.
42. Attended a National level Short Course on "Working with ArcView 3D Analyst" organized by CEG,Anna University, Chennai, INDIA from 30-Apr-2001 to 30-Apr-2001.
43. Attended a National level seminar on "Recent Trends in Quality and Reliability Systems" organized by Anna University, India from 04-Jan-2002 to 05-Jan-2002.
44. Attended a International level seminar on "Parking Management in Metropolitan Cities – A Case Study of Chennai" organized by Anna University, INDIA from 30-Mar-2002 to 30-Mar-2002.
45. Attended a National level seminar on "Parking Demand Management" organized by Indian Institute Technology (IIT) Kharagpur, India from 30-Mar-2002.
46. Participated in a International level conference on "Empowerment of Women Through Technology and Science" organized by Centre for Empowerment of Women,Anna university, India from 29-Aug-2002 to 31-Aug-2002.
47. Attended a National level seminar on "Land Use - Transport Interaction Modeling" organized by Indian Institute Technology (IIT) Kharagpur, India from 12-Sep-2002 to 13-Sep-2002.
48. Attended a National level Short Course on "Women's Executive Development in Higher Education" organized by CEG,Anna University, Chennai, INDIA from 26-Sep-2003 to 27-Sep-2003.
49. Participated in a International level conference on "Transportation Systems Planning and Operation" organized by Indian Institute Technology (IIT) Madras, India from 18-Feb-2004 to 20-Feb-2004.
50. Participated in a International level conference on "Land Use Transport Interaction: Systems Dynamics Approach" organized by Indian Institute Technology (IIT) Madras, India from 18-Feb-2004 to 20-Feb-2004.
51. Attended a International level seminar on "Transportation Systems Planning & Operation" organized by IITM, INDIA from 18-Feb-2004 to 20-Feb-2004.

52. Participated in a International level conference on "Land Use Transport Interaction: Systems Dynamics Approach" organized by Indian Institute of Technology (IIT) Madras, India from 18-Feb-2004 to 20-Feb-2004.
53. Participated in a National level conference on "Telematics in Transportation – Teletrans 2004" organized by Confederation of Indian Industry, Chennai, India from 06-Sep-2004 to 07-Sep-2004.
54. Attended a International level seminar on "Role of Women Scientists and Technologists for Social Development" organized by Centre for Empowerment of Women, Anna university, India from 10-Mar-2005 to 12-Mar-2005.
55. Attended a National level seminar on "Transportation in Chennai :Challenges and Solutions" organized by Core Committee Member , CEG ,Anna University, Chennai, INDIA from 19-Aug-2005 to 20-Aug-2005.
56. Attended a National level seminar on "Application of Innovative Techniques in Transportation Planning" organized by CEG, Anna University, Chennai, INDIA from 19-Aug-2005 to 20-Aug-2005.
57. Attended a National level seminar on "Application of Innovative Techniques in Transportation Planning" organized by Anna University, India from 19-Aug-2005 to 20-Aug-2005.
58. Attended a National level seminar on "Role of NGO'S Residence Welfare Association in Ensuring Road Safety" organized by Anna University, India from 16-Feb-2006.
59. Attended a International level Short Course on "Transportation Planning " organized by Department of Civil Engineering, St.Peters Engineering College, Avadi, Chennai 54, India from 21-Aug-2006 to 09-Sep-2006.
60. Participated in a National level conference on "Land Use Transport Interaction Modeling – A Systems Approach" organized by Land Use Transport Interaction Modeling – A Systems Approach in the 67th Annual Session of Indian Roads Congress held at Panchakulla, Haryana, INDIA from 17-Nov-2006 to 21-Nov-2006.
61. Attended a National level Short Course on "MX Road" organized by Bentley Systems, India from 01-Dec-2006.
62. Participated in a National level workshop on "Two days Training on MX Road Software for Highway Design." organized by CEG, Anna University, Chennai - Bentley Systems , INDIA from 13-Dec-2006 to 14-Dec-2006.
63. Participated in a National level conference on "System Dynamics (NCSD 2006)" organized by IIT Kharagpur/B.V.B College of Engg & Tech, Hubli-31, Karnataka., INDIA from 26-Dec-2006 to 27-Dec-2006.
64. Attended a National level seminar on "Vehicle Characteristics" from 04-Jan-2007 to 04-Jan-2007.
65. Attended a National level seminar on "Vehicle Characteristics" organized by CEG, Anna University, Chennai, INDIA from 04-Jan-2007 to 04-Jan-2007.

66. Attended a National level seminar on "Pavement Management System using HDM4" organized by Anna university , India from 02-Feb-2007 to 02-Feb-2007.
67. Attended a National level seminar on "Staggering of working hours- Demand Management Technique" organized by Anna University, India from 08-Mar-2007 to 08-Mar-2007.
68. Attended a National level seminar on "Transportation Sector of the Second Master Plan" organized by CEG,Anna University, Chennai, INDIA from 25-Aug-2007 to 25-Aug-2007.
69. Attended a National level Short Course on "Faculty of Engineering Colleges and Management " organized by Indian Heritage Academy, India from 04-Oct-2007 to 05-Oct-2007.
70. Participated in a National level workshop on "Two days Faculty Training Program" organized by Indian Heritage Academy, Bangalore, INDIA from 04-Oct-2007 to 05-Oct-2007.
71. Participated in a National level conference on "Impact of Hawking on Traffic Management in Metropolitan Cities" organized by CEG,Anna University, Chennai (DUSD), INDIA from 23-Nov-2007 to 24-Nov-2007.
72. Attended a National level seminar on "Road Safety" organized by CEG,Anna University, Chennai, INDIA from 05-Jan-2008 to 05-Jan-2008.
73. Participated in a International level workshop on "Transportation Systems and Planning" organized by IIT Madras, India from 01-Apr-2008 to 02-Apr-2008.
74. Participated in a International level conference on "Best Practices to Relieve Congestion on Mixed Traffic Urban streets in Developing Countries" organized by IIT Madras, India from 12-Sep-2008 to 14-Sep-2008.
75. Participated in a International level conference on "Global Friendship Banquet at Dubai (UAE) inaugurated by former President of UAE, IIFS, New Delhi" organized by Indian International Friendship Society (IIFS), New Delhi , UAE, DUBAI from 18-Nov-2008 to 18-Nov-2008.
76. Attended a National level seminar on "Driver Safety" organized by CEG,Anna University, Chennai, INDIA from 09-Jan-2009 to 09-Jan-2009.
77. Attended a National level seminar on "CHENSAFE - 2010 Towards road User Safety' and Organised an Exhibition with 16 Stalls" organized by CEG,Anna University, Chennai, INDIA from 04-Jan-2010 to 05-Jan-2010.
78. Participated in a National level workshop on "CHENSAFE - 2010 Towards road user safety" organized by Exhibition Organizer, CEG, Anna University , INDIA from 04-Jan-2010 to 05-Jan-2010.
79. Attended a National level seminar on "CHENSAFE - 2010 Towards road user safety" organized by CEG,Anna University, Chennai, INDIA from 04-Jan-2010 to 05-Jan-2010.
80. Attended a National level seminar on "Road Safety for ever" organized by Anna University, India from 05-Jan-2011.

81. Participated in a National level workshop on "Role of Education in Modern India inaugurated by former Governor of Assam, IIFS, New Delhi" organized by International Friendship Society (IIFS), New Delhi , INDIA from 19-Jun-2011 to 19-Jun-2011.
82. Attended a National level seminar on "CEGAM" organized by Anna University, India from 03-Jul-2011 to 04-Jul-2011.
83. Attended a National level seminar on "Excellence in Technical Education" organized by Anna University, India from 03-Aug-2011 to 03-Aug-2011.
84. Participated in a International level conference on "Application of System Dynamics Simulation Modeling in Road Safety" organized by Purdue University, USA from 14-Sep-2011 to 16-Sep-2011.
85. Attended a National level seminar on "Effective Enforcement :A Key To Road Safety" organized by CEG,Anna University, Chennai, INDIA from 05-Jan-2012 to 05-Jan-2012.
86. Attended a National level seminar on "Enhancing the Quality of Faculty in Technical Education" organized by Anna University, India from 03-May-2012 to 04-May-2012.
87. Participated in a National level workshop on "Role of Teachers in counseling in Motivating Engineering Students in Technical Education' towards Padmashree T.Muthian Centenary Celebrations." organized by CEG,Anna University, Chennai, INDIA from 03-Aug-2012 to 03-Aug-2012.
88. Participated in a National level workshop on "Application of System Dynamic Simulation Modeling in Road Safety" organized by Saint Peters University, India from 04-Jan-2013 to 05-Jan-2013.
89. Attended a National level seminar on "Application of Innovative Techniques in Transportation Planning" organized by Anna University, India from 04-Jan-2013 to 05-Jan-2013.
90. Attended a National level seminar on "Road Accidents: Prevention and Investigation and Innovative Techniques in Road Safety" organized by CEG,Anna University, Chennai, INDIA from 08-Jan-2013 to 08-Jan-2013.
91. Attended a National level seminar on "Attitude: The key To Road Safety" organized by Anna University, India from 07-Jan-2014 to 07-Jan-2014.
92. Attended a National level seminar on "Tech -Times" organized by CEG,Anna University, Chennai, INDIA from 30-Apr-2014 to 30-Apr-2014.
93. Attended a National level seminar on "CEGAM" organized by Anna University, India from 04-Jan-2015 to 05-Jan-2015.
94. Attended a National level seminar on "Road Safety" organized by Anna University, India from 07-Jan-2015 to 07-Jan-2015.
95. Attended a National level Short Course on "Orcady and Picady set of softwares" organized by Anna University, India from 02-Feb-2015 to 03-Feb-2015.

96. Attended a National level Short Course on "Statistical Package For Social Sciences (SPSS)" organized by Anna University, India from 21-Mar-2016 to 23-Mar-2016.
97. Attended a National level Short Course on "VISSIM, VISTRO, VISSUM set of package" organized by New Delhi, India from 05-Mar-2017 to 06-Mar-2017.
98. Attended a National level seminar on "Transportation Systems Engineering and Planning" organized by Anna University, India from 12-May-2017 to 13-May-2017.
99. Participated in a National level conference on "CEGAM - 2018 " organized by CEG, Anna University, Chennai, INDIA from 21-Jul-2018 to 22-Jul-2018.
100. Attended a National level seminar on "e-Learning & MOOC's in Higher Education" organized by Guru Angad Dev Teaching Learning Centre (GAD-TLC & )CTDT , Anna University, Chennai 25, India from 14-Sep-2019 to 14-Sep-2019.
101. Attended a International level seminar on "Environmental Policy & Legislation" organized by CES, CEG, AU ,CHENNAI 25, India from 18-Oct-2019 to 19-Oct-2019.

## Special Representations

1. Best Research Paper Award in IRC- Indian Road Congress - (National level Apex body) from 11-Oct-2006 to 11-Oct-2006.
2. Received Best paper Award in Ponnurangam P, Umadevi G (2015) "Sustainable Transportation from 13-Mar-2015 to 14-Mar-2015.
3. TRANSPORTATION AREA EXPERT MEMBER IN ATAL MISSION in NITIAAYOG, INDIA from 01-May-2018 to 30-Apr-2023.
4. SENATE MEMBER in MADRAS UNIVERSITY from 01-Aug-2018 to 01-Jul-2021.
5. Convener in Autonomous (Anna University Alumni Association) from 04-Apr-2007 to 18-Aug-2009.
6. Received Best paper Award in Sustainable Transportation Planning with Energy as an Iconic from 11-Feb-2005 to 11-Feb-2005.
7. Received Best paper Award in Abirami Krishna A, Umadevi G (2015) "Estimation Holding Capa from 13-Mar-2015 to 14-Mar-2015.
8. SENATE MEMBER in MADRAS UNIVERSITY from 01-Aug-2018 to 31-Jul-2021.

## Honours

1. "UGC RECOGNITION" given by UGC from India (1999).
2. "Glory of India Award " given by RAK Medical Health Sciences University from Dubai, United Arab Emirates (UAE) (2011).

3. "International Achievers Award" given by International Institute of Success Awareness New Delhi from India (2011).
4. "Shiksha Rattan Puraskar" given by India International Friendship Society New Delhi from India (2011).
5. "Indira Gandhi Shiromani Award " given by India International Friendship Society New Delhi from India (2011).
6. "Best Citizen of India " given by International Publishing House, New Delhi from India (2011).
7. "Rajiv Gandhi Excellency Award " given by India International Friendship Society New Delhi from India (2012).
8. "Indira Gandhi Excellence Award " given by India International Friendship Society New Delhi from India (2013).
9. "Indhira Gandhi Shiromani Award" given by India International Friendship Society from India (2013).
10. "Gem of India Gold Medal Award " given by India International Friendship Society New Delhi from India (2013).
11. "Glory of India Award" given by India International Friendship Society from India (2013).
12. "SHIKSHA RATTAN PURASKAR" given by India International Friendship Society from INDIA (2014).
13. "Mahatma Gandhi Ekta Samman Award" given by India International Friendship Society (IIFS) , New Delhi from India (2014).
14. "Shiksha Rattan Purashkar" given by India International Friendship Society New Delhi from India (2014).
15. "ACHIEVERS AWARD' " given by CHOLA MANDALA PERAVAI from INDIA (2014).
16. "Glory of India Award" given by India International Friendship Society from India (2015).
17. "GLORY OF INDIA AWARD " given by India International Friendship Society from INDIA (2016).
18. "INDIRA GANDHI SHIROMANI AWARD " given by India International Friendship Society from INDIA (2017).
19. "GLORY OF INDIRA AWARD – GOLD MEDALIST " given by India International Friendship Society from INDIA (2018).
20. "Guru Purnima Award" given by INDIC ACADEMY NEW DELHI from INDIA (2018).
21. "INDIRA GANDHI SHIROMANI AWARD " given by India International Friendship Society from India (2019).

22. "BHARAT JYOTI PURASKAR " given by India International Friendship Society from India (2019).
23. "JEWEL of India, October 2019" given by India International Friendship Society, New Delhi from DUBAI (2019).

## Patents

1. Having a patent for "Land Use Transport Interaction Modelling - A System Approach" awarded by India. Patent number:48504 (22-Apr-2013).

## Patents Filed

1. Filed patent rights for Land Use Transport Interaction Modeling – A System in USA. File number: 0 Filed Date: 02-Feb-2011.
2. Filed patent rights for Transit Oriented Landuse Development-(TOD) System in India. File number: 0 Filed Date: 09-May-2012.

## Experience Abroad

1. Visited Purdue University & Transportation Research Board, Indianapolis, USA, USA from 14-Sep-2011 to 16-Sep-2011. Purpose of visit :Presenting a Technical Paper .
2. Visited India and International Friendship Society, Dubai, United Arab Emirates (UAE) from 05-Dec-2011 to 09-Dec-2011. Purpose of visit :Receiving National and International Awards.
3. Visited India and International Friendship Society, Bangkok ,Thailand from 11-Nov-2013 to 15-Nov-2013. Purpose of visit :Receiving National and International Awards.

## Invited Lectures

1. Delivered a Lecture on "Advanced Training Programme on Application of Geomatics in Urban Environment Management" in Guest Lectures organized by St.Peters Engineering College, Avadi, Chennai (24-Aug-2006).
2. Delivered a Lecture on "Application of System Dynamic Modelling in Land Use Prediction in the Transport Sector" in Guest Lectures organized by St.Peters college of engineering , chennai (13-Aug-2008).
3. Delivered a Lecture on "Road Safety- A Systems Approach" in Road Safety Series of Institution of Engineers, Southern Region organized by Division of Transportation Engg. Dept. of Civil En, Chennai 600025 (30-Apr-2009).
4. Delivered a Lecture on "Transportation System Management in Chennai " in Faculty Development Programme from 22 to 28 th June organized by Division of Transportation Engg. Dept. of Civil En, Anna University, Chennai 600025 (22-Jun-2009).



5. Delivered a Lecture on "Road Safety Modelling for Chennai City- A Systems Approach" in Road safety Seminar organized by Division of Transportation Engg. Dept. of Civil En, Anna University, Chennai 600025 (29-Aug-2009).
6. Delivered a Lecture on "System Dynamic Modelling of Transportation System to ensure Safety" in Guest Lectures organized by St.Peters college of engineering , chennai (26-Jun-2014).
7. Delivered a Lecture on "Application of Dynamic System Modelling Road Safety Systems and in Predicting the Traffic " in Guest Lectures organized by Thiyagarajar college of engineering, Madurai (30-Jan-2015).
8. Delivered a Lecture on "Dynamic System Modelling in Traffic and Transportation System Enclosing the Road Safety " in Guest Lectures organized by Thiyagarajar college of engineering, Madurai (06-Mar-2015).
9. Delivered a Lecture on "Challenges and Modern Trends in Traffic And Road Safety Systems" in Guest Lectures organized by Abdul Rahman College of Engineeirng, chennai (08-Sep-2015).
10. Delivered a Lecture on "Application of Dynamic System Modelling in Smart City Application in Land Use. " in Guest Lectures organized by VIT University, Vellore (04-May-2016).
11. Delivered a Lecture on "Application of Dynamic Simulation Modeling for Sustainable Transporttaion" in TECH VISION 2035 organized by Technology Information Forecasting & Assessment Co, SBOA Junior College, Anna Nagar, Chennai-600101 (10-Jul-2016).
12. Delivered a Lecture on "Application of Traffic and Road Safety System " in Guest Lectures organized by Shri Shastha College of Engineering, chennai (18-Aug-2016).
13. Delivered a Lecture on "Application of Dynamic Simulation Modeling for Sustainable Transporttaion Planning" in Expert or Guest Lecture organized by Kongu Engineering College, Perundurai, Erode, Erode, Tamil Nadu (01-Oct-2016).
14. Delivered a Lecture on "Sustainable Planning of Smart City in Chennai- A systems Approach" in Seminar on Transporttaion Scenario in Chennai , Alumni Association organized by AACEG, Anna University ,Chennai -25, Anna Unioversity, Chennai 600025 (10-Mar-2017).
15. Delivered a Lecture on "Sustainable transportation in Peri - Urban Areas of Chennai" in Road Safety Seminar , Alumni Association organized by AACEG, Anna University ,Chennai -25, Anna University, Chennai 600025 (10-Mar-2017).
16. Delivered a Lecture on "Importance of Gender Studies ,Understanding Indigeneous genders their culture and contemporary LGBTQIA+communities" in TN SOCIAL AWARENESS OF YOUTH BY Tamil Nadu Young Thinkers Forum organized by At Guinness Hall of Manufacturing Department, CEG, , Chennai -25 (05-Aug-2018).
17. Delivered a Lecture on "Heralding Social Change Via Higher Education " in Seminar Programme on Social welfare organized by Loyola Engineering College Campus, Mahalingapuram , Nugampakam Chennai (20-Dec-2018).
18. Delivered a Lecture on "Road Safety awareness lecture" in Road Safety awareness programme organized by Mechanical Transport Training Institute (MTTI) ,A, Chennai -54 (06-Feb-2019).

19. Delivered a Lecture on "Road Safety awareness lecture" in Delivering Expert Lecture organized by Air Force station, Avadi, Chennai (06-Feb-2019).
20. Delivered a Lecture on "Application of dynamic modeling in transportation management" in Guest Lecture organized by SRM Deemed University, Ramapuram , Chennai (25-Feb-2019).
21. Delivered a Lecture on "Application of Dynamic Simulation Modeling in Transporttaion Engineering" in Delivering Expert Lecture organized by SRM College, Ramapuram Campus, Chennai (25-Feb-2019).
22. Delivered a Lecture on "National Educational Policy" in TN SOCIAL AWARENESS OF YOUTH BY Tamil Nadu Young Thinkers Forum organized by TNYTF, Nugampakam Chennai (27-Jul-2019).
23. Delivered a Lecture on "Motivational & Carrier Guidance Lecture " in Induction Programme for B.E. Civil Engg. First Year Students of 60 in numbers organized by CEG, ANNA UNIVERSITY, Anna University, Chennai 600025 (30-Jul-2019).

### Extension & Outreach Programme

1. Working Group Member, Madras Suburban Rail System A Study On Fare Policy 1993, participated by Academician, Government Authorities and funded by Indian Railways at Chennai during 02-Feb-1993 and 14-May-1993. No. of participants: 4.
2. Working Group Member, A Study On Water Distribution Network For Madras Metropolitan Area, participated by Academician, Government Authorities and funded by CMDA at Chennai during 03-Jan-1994 and 22-Mar-1994. No. of participants: 2.
3. Working Group Member, Comprehensive Traffic and Transportation Study For Madurai, participated by Academician, Government Authorities and funded by Planning and Rural Development of Tamil Nadu at Madurai during 02-Jan-1995 and 30-May-1997. No. of participants: 3.
4. working group member , Land Information Management - Pilot Project, participated by P.G. and U.G. students,Academicians, Industrial people and funded by Institute of Remote Sensing, Anna University with German (GTZ) collaboration during 1995-98 at Institute of Remote Sensing during 05-Apr-1995 and 18-Nov-1999. No. of participants: 25.
5. Organizer for Field Visit, Field Visit (madura, Punjab and shimla), participated by P.G. and U.G. students during 05-Mar-1996 and 05-Mar-1996. No. of participants: 0.
6. Organiser For Filed Visit, Field Visit (Delhi), participated by P.G. and U.G. students and funded by self at Delhi during 10-Apr-1996 and 13-Apr-1996. No. of participants: 25.
7. Organiser, Academic tour , for paper presentation, participated by U.G.students and funded by self at Roorkee Engineering College , UP in 1997 during 06-Jan-1997 and 06-Jan-1997. No. of participants: 5.

8. Working Group Member, Comprehensive Traffic and Transportation Study For Tirunelveli, participated by Academician, Government Authorities and funded by Planning and Rural Development of Tamil Nadu at Tirunelveli during 05-Mar-1997 and 18-Jul-1997. No. of participants: 10.
9. Joint Co-ordinator, Traffic study for Chiilaimedu Intersection - A feasibility Study, participated by academicians, Industrialist, Government Executive officers and funded by CMDA at Chennai during 10-Mar-1998 and 18-Nov-1998. No. of participants: 2.
10. Joint Co-ordinator, Traffic Study For Alwarpet Intersection, participated by Academician, Government Authorities and funded by CMDA at Chennai during 05-May-1998 and 10-Jul-1998. No. of participants: 3.
11. Joint Co-ordinator, Traffic Study for Doveton Road Intersection, participated by Academician, Government Authorities and funded by CMDA at Chennai during 05-May-1998 and 21-Aug-1998. No. of participants: 5.
12. Traffic Operational Plan for Medium town Krishnagiri, during 31-Dec-1998 and 31-Dec-1998. No. of participants: 0.
13. Joint Co-ordinator, Traffic Study for Turnbulls Road Intersection - A feasibility Study, participated by academicians, Government Executive officers and funded by CMDA at Chennai during 04-Jan-1999 and 16-Jan-2001. No. of participants: 2.
14. Joint Co-ordinator, Traffic operational Management plan for Medium town -Pattukottai, participated by academicians, Industrialist, Government Executive officers and funded by Department of Town and Country Planning, Government of TamilNadu. at Pattukkottai during 04-Jan-1999 and 16-Oct-2001. No. of participants: 2.
15. Joint Co-ordinator, Traffic operational management plan for medium town Tiruppattur, participated by academicians, Government Executive officers and funded by Department of Town and Country Planning, Government of TamilNadu. during 07-Jan-2004 and 23-Jun-2004. No. of participants: 10.
16. Organizer and Co-ordinator , Organizing an exhibition with stalls and Seminar on Transportation in Chennai - Challenges and Solution. , at CEG Guindy during 19-Aug-2005 and 20-Aug-2005. No. of participants: 0.
17. Active working group member in preparing the plan, Pre Project Discussion 2nd Master Plan for Chennai 2026, participated by academicians, Industrialist, Government Executive officers and funded by CMDA during 03-Apr-2007 and 11-Apr-2007. No. of participants: 20.
18. Organiser , Transportation Sector of the Second Master Plan, at Division of Transportation Engineering, Department of Civil Engineering,CEG, Anna University during 25-Aug-2007 and 31-Dec-1969. No. of participants: 0.
19. Technical Speaker , Traffic Problems in Chennai, participated by general Public and funded by All India Radio during 29-Sep-2008 and 29-Sep-2008. No. of participants: 25.
20. active working group member in preparing the plan, Finalisation of 2nd Master Plan for Chennai 2026, participated by academicians, Industrialist, Government Executive officers and funded by CMDA during 12-Nov-2008 and 13-Nov-2008. No. of participants: 0.

21. Interview, Urban Transportation Problems, and funded by All India Radio during 29-Aug-2009 and 29-Aug-2009. No. of participants: 0.
22. convener in Organising 16 Stalls for Exhibition , CHENSAFE - 2010 towards Road User Safety, participated by academicians, Industrialist, Government Executive officers and funded by AACEG at College of Engg. Guindy, Anna University Chennai -25. during 04-Jan-2010 and 05-Jan-2010. No. of participants: 500.
23. Interview, Traffic and Transportation Problems and Solutions, and funded by All India Radio during 28-Jan-2010 and 28-Jan-2010. No. of participants: 0.
24. Technical Speaker , Road Safety Discussion in NDTV, participated by General Public at NDTV during 16-Jun-2011 and 16-Jun-2011. No. of participants: 5.
25. Technical Expert in Road Safety Discussion, T.V Programm - NDTV, participated by Academician , Media People & TV Viewers of TN and funded by -- at NDTV during 16-Jun-2011 and 16-Jun-2011. No. of participants: 2.
26. Special Guest, Discussion on Road Safety and Operations in Pudhiya Thalaimurai Magazine, participated by Television Viewers of,Tamil Nadu and funded by -- at Puthiya Thalaimurai during 22-Jun-2011 and 22-Jun-2011. No. of participants: 1.
27. Techical Speaker , Road Safety and Operations, and funded by Pudhiya Thalaimurai Magazine during 22-Jun-2011 and 22-Jun-2011. No. of participants: 0.
28. Interview, All India RadioTraffic and Transportation Scenario in 2050, participated by People of All India Radio , Chennai ,Tamil Nadu and funded by - at Chennai during 01-Aug-2011 and 01-Aug-2011. No. of participants: 1.
29. Co Convener, Excellence in Technical Education , participated by P.G. and U.G. students. and funded by AACEG at College of Engg. Guindy, Anna University Chennai -25. during 03-Aug-2011 and 03-Aug-2011. No. of participants: 50.
30. Organiser , Excellence in Technical Education, and funded by Padmashree T.Muthian Centenary Celebration at Alumini Association, College of Engg,Anna University during 03-Aug-2011 and 31-Dec-1969. No. of participants: 0.
31. Expert in Transportation Planning and Management , Brain Storming Session in Transportation Planning and Management in TIFAC, participated by academicians, Government Executive officers and funded by TIFAC, Delhi at Delhi during 18-Aug-2011 and 18-Aug-2011. No. of participants: 25.
32. Co Convener, Enhancing the Quality of Faculty in Technical Education, participated by Academician , Media People , Teachers and funded by AACEG at College of Engg. Guindy, Anna University Chennai -25. during 03-May-2012 and 03-May-2012. No. of participants: 150.
33. Co Convener, Role of Teachers in Counseling in Motivating Enginerring students in Technical Education, participated by Academician , Media People, Students and funded by AACEG at College of Engg. Guindy, Anna University Chennai -25. during 03-Aug-2012 and 03-Aug-2012. No. of participants: 250.

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34. Interview, All India Radio Sustainable solutions for alarming population and Vehicle growth, at Chennai during 01-Nov-2012 and 01-Nov-2012. No. of participants: 0.
  35. Technical Expert, Raj TV Programme on Technical Discussions on Metro Rail in Chennai , participated by TV Viewers at Chennai during 07-Jun-2013 and 07-Jun-2013. No. of participants: 0.
  36. Organiser , TECH TIMES, participated by Professionals, Students & Research Scholars and funded by Anna University at Division of transportation engg. , College of Engg. Guindy, Anna University Chennai -25. during 30-Apr-2014 and 31-Dec-1969. No. of participants: 100.
  37. Technical Expert, TV Programme on BBC Technical Discussions on 'Transportation in Chennai, participated by TV Viewers at Chennai during 01-Dec-2014 and 01-Dec-2014. No. of participants: 0.
  38. Expert in Transportation Planning and Management , Tech Vision 2035, participated by academicians, Industrialist, Government Executive officers and funded by TIFAC, Delhi at Delhi during 10-Jul-2016 and 10-Jul-2016. No. of participants: 25.
  39. Chief guest - Presidential Address , Inspirational Speech for the School Children, participated by academicians, School Childrens at Chrompet during 10-Sep-2016 and 10-Sep-2016. No. of participants: 250.
  40. Special Guest, "Sadhanaiyalar" segment in Iniya Illam Programme in Pothigai Tv, at Pothigai TV during 05-Oct-2016 and 26-Oct-2016. No. of participants: 0.
  41. Guest Speaker , Motivational Talk to College Students , participated by Academician , Miscellaneous Group of Professionals , College students at Echanaari , Coimbatore during 14-Oct-2016 and 14-Oct-2016. No. of participants: 150.
  42. Organizer for Field Visit, Field Visit to Amaravathy in Andra Pradesh State, participated by Ph.D. , P.G, Students and funded by self at Organised and accompanied both Ph.D and P.G. students for field visits and study tour to the " Capi during 05-Mar-2017 and 06-Mar-2017. No. of participants: 25.
  43. Attended , Importance Of Gender Studies, Understanding indigenous genders, their culture and contemporary LGBTQIA+ communities , participated by general Audiance , College Studnets and funded by TamilNadu Young Thinkers Forum at College of Engg. Guindy, Anna University Chennai -25. during 05-Aug-2018 and 05-Aug-2018. No. of participants: 150.
  44. Organiser & Participant, Tamil Nadu Economic Policy Dialogue (TNEPD), participated by IIT AND ANNA UNIVERSITY AND OTHER ARTS COLLEGE STUDENTS and funded by TNYTF at CONFERENCE HALL OF HUMANITY DEPARTMENT, IIT MADRAS , CHENNAI 36 during 07-Sep-2018 and 08-Sep-2018. No. of participants: 1000.
  45. PARTICIPANT, TAMIL NADU SOCIAL MEDIA CONFERENCE, participated by YOTU AND OPEN TO ALLCITIZENS and funded by TNYTF at RASHIKA RANJANI SABHA ,MYLAPORE, CHENNAI during 20-Jan-2019 and 20-Jan-2019. No. of participants: 500.
  46. Organiser , Training Programme on Road Safety Audit, participated by All highway and traffic engineers and funded by HIGHWAYS DEPARTMENT at DnTE, CEG, AU, CH 25 during 23-Sep-2019 and 27-Oct-2019. No. of participants: 100.