

CURRICULUM VITAE



- Name** : **DR. F. S. UMRIGAR**
- Present Designation** : **Ex Principal
BVM Engineering College
(An Autonomous Institute) &
Syndicate Member , S.P. University
Vallabh Vidyanagar**
- Residence Address** : **“PREM” Bungalow
Nr. Chitrlekha Bungalow
Sundarvan Society
Opp.Saurashtra Patel Hostel
VALLABH VIDYANAGAR - 388120**
- Email Address** : farokhumrigar@gmail.com
- Date of Birth** : 16-6-54 (Sixteen June Nineteen Fifty Four)
- Academic Qualifications** : **B.E.(Civil), 1976, S.V.Regional College of Engg. &
Technology (Now SVNIT) Surat
South Gujarat University (4 th rank).**
- M.Tech. (Civil) Transportation System Engg.,
1982, Indian Institute of Technology, Kanpur.
(Cumulative Point Index: 9.5 / 10)**
- Ph.D. (Civil Engg.) Transportation Engg., 1990
University of Roorkee, Roorkee (Now IIT, Roorkee)**

Membership of Professional Bodies:

- Life Member, Indian Roads Congress (LM IRC)
- Life Member, Indian Society for Technical Education (LM ISTE)
- Fellow of Institution of Engineers (FIE)

Thesis Title & Supervisors :

- M.Tech.:** Modelling for Simultaneous Selection of Optimal Bus Routes and their Frequencies - A Case Study for Ahmedabad. (Dr. B. R. Marwah, Professor of Civil Engg., I.I.T. Kanpur).
- Ph.D. :** Ownership and Regulatory Options for Urban Bus Transit System in India. (1. Dr.P.K.Sikdar, Ex Director CRRRI New Delhi , Ex Professor , I.I.T. Bombay; 2.Dr.S.K.Khanna, Ex. Chairman, A.I.C.T.E. New Delhi; 3.Dr.P.S.Rana, Ex. General Manager, Delhi Transport Corporation, New Delhi.).

Merit Scholarship :

Received for entire study period during B.E., M.Tech. & Ph.D.

Professional Experience :

- Building Supervisor and Junior Engineer for 2 years (1976-1978) at Surat.

As on 30.06.16

- Teaching Experience at Civil Engineering Department in Birla Vishvakarma Mahavidyalaya (BVM) Engineering College, Vallabh Vidyanagar, Gujarat:
 - Asstt. Lecturer from 23-1-78 to 22-1-80;
 - Lecturer from 23-1-80 to 31-7-84 (Upgraded & Selected);
 - Asst. Professor from 1-8-84 to 31-8-94;
 - In-charge Transportation Engineering Section from 12-8-93 to 03-04-2002
 - Professor of Civil Engg. from 1-9-94 to 3-4-02.
- In-charge of Credit System, BVM Engineering College from 29.10.96 to 18.12.1998.
- **Principal, BVM Engg. College from 04.04.2002 to 30.06.16 (14 Years).**
- **BVM Awarded Autonomous status by UGC New Delhi for 6 years from Academic year 2015 - 16.**
- **Dean**, Faculty of Engineering & Technology, Sardar Patel University, Vallabh Vidyanagar since 2002.
- Member of Academic Committee for 4 Year Engineering degree program at Gujarat Technological University, Ahmedabad.
- **Syndicate Member**, Sardar Patel University, Vallabh Vidyanagar since 2002.
- Recognized PG Teacher for M.E. & Ph.D.(Civil Engineering & Transportation Engineering).
- **Chairman, GTU Innovation Sankul – Vallabh Vidyanagar Zone – II.**
- Research Paper Evaluation Referee – Indian Road Congress, New Delhi.

Ph.D. Thesis Supervisor :

Four Ph.D. students awarded Ph.D. degree from S. P. University.

Guiding 4 (Four) students in the area of Civil Engineering / Transportation Engineering.

Publications :

Published over 74 papers at National and International levels. (Pl. see Annexure I).

Participation in Academic & Co - Curricular Activities :

Participated as Chairman, Member, Hon. Secretary, Rector, Dean for various academic, Experts or literary activities. (Annexure II)

Participation in Professional Meetings :

Participated in 56 Professional meetings in the form of Summer/Winter Schools, Workshops, Seminars, Conferences (National / International), Annual Convention. (Pl. see Annexure III).

Consultancy & Extension Services :

One of the consultant for Transportation Planning Project and Interaction Design, organized 6 Short Term courses / workshop / seminar, delivered 10 special lectures in Transportation Eng. And Technical education field, Examiner at UG/PG programmes of other Universities and co-authored two books. (Pl. see Annexure IV.)

PUBLICATIONS

1. Marwah B. R., Umrigar F. S., and Patnaik S. B. "Optimal Design of Bus Routes and Frequencies for Ahmedabad", TRB Record 994, Transportation Research Board, Washington, pp.41-46, 1984.
2. Marwah B. R., Umrigar F. S. and Patnaik S. B., "A Model for simultaneous Design of Optimal Bus Routes and Frequencies", Proc. of Sixteenth Convention of Operation Research Society of India (ORSI), December 1983.
3. Marwah B. R., Umrigar F. S., and Patnaik S. B., "Optimal Routing and Scheduling of Bus Transit Network", Road Transport, Bombay, October, 1982.
4. Umrigar F. S., Sikdar P. K., and Khanna S. K., "Role of Private Operators on Urban Bus Transit System Supply", Transport Workshop, April 6-9, Indian Institute of Management, Ahmedabad, 1987.
5. Umrigar F. S., Sikdar P. K., and Khanna S. K., "Exploring the Scope of Private Participation for Urban Public Transport Supply in India", Proceeding of the International Symposium on Performance of Public Transport, Monash University, Australia, August 1987.
6. Khanna S. K., Gupta A. K., Jain S. S., Vasan R. M., Umrigar F. S., and Singh G.R., "Transport Planning Methodology", Base paper for Workshop on Transport Planning in Developing Countries (tpdc-2), New Delhi, India, April 4, 1987.
7. Umrigar F. S., Sikdar P. K., and Khanna S. K., "Framework of a Model for Evaluating Ownership-Operation Options for Urban Bus Transit", Journal of Australian Road Research, 18(4), pp.232-246, 1988.
8. Umrigar F. S., Sikdar P. K., and Khanna S. K., "Performance of Urban Bus Transit System in India under different Ownership Structures", Proceedings of Codatu IV, the Conference on Urban Transport in Developing Countries, Jakarta, Indonesia, June 5-10, 1988.
9. Umrigar F. S., Sikdar P. K., and Khanna S. K., "Ownership and Regulatory Management of Urban Public Transit", Base paper for panel discussion on Urban Transport Planning Issues (utpi-87), New Delhi, December 15, 1987.
10. Umrigar F. S., Sikdar P. K., and Khanna S. K., "Urban Bus Transit in India - Potential for Better Efficiency", Accepted for presentation in the International Conference on Urban Management and Development, Lyon, France, September 20-22, 1988.
11. Umrigar F. S., Sikdar P. K., and Khanna S. K., "Effectiveness of Urban Bus Services in India under Existing Organisational Setups", Accepted for presentation in the 16th PTRC Summer Annual Meeting on Transport & Planning, University of Bath, England, September 12-16, 1988.
12. Umrigar F. S., Sikdar P. K., and Khanna S. K., "Ownership Policy Options and Regulatory Mechanisms for Urban Bus Systems in India", INDIAN HIGHWAYS, Indian Roads Congress, 17(7), pp.43-63, 1989.

13. Umrigar F. S., Sikdar P. K., and Khanna S. K., "Exploring the Scope of Private Participation for Urban Public Transport Supply in India", *TRANSPORT REVIEWS*, 9(2), pp.135-146, London, UK, 1989.
14. Umrigar F. S., Sikdar P. K., Khanna S. K. and Rana P. S., "Quality of Urban Bus Services - Evaluating Different Ownerships", Proc. of the National Conference on Transportation System Studies : Policy and Analysis (NCOTSS - 88) Bombay, December 15-17, 1988.
15. Umrigar F. S., Sikdar P. K., Khanna S. K. and Rana P. S., "Performance Based Policy Framework for Ownership Options in Urban Bus Transit Management", Proc. of the International Conference on Roads and Road Transport Problems (ICORT - 88), New Delhi, India, December 12-15, 1988.
16. Umrigar F. S., Sikdar P. K., and Khanna S. K., "Design Parameters for formulating Ownership-Regulatory Policy of Urban Bus Transport", Proc. of the Mini-Workshop on Transport Policy, Planning Commission, New Delhi, India, May 2, 1989.
17. Umrigar F. S., Sikdar P. K., Khanna S. K., and Rana P. S., "Cost Models for Evaluation of Urban Bus Services under Different Ownerships", Proc. of Annual Transportation Convention, ATC-89, Pretoria, South Africa, August 4-7 1989.
18. Umrigar F. S., Sikdar P. K., and Khanna S. K., "Ownership Issue of Urban Public Transport(Bus) Systems in India", Paper published In *Developing World LAND Transport*, by Heraty M. J.(Editor-in-Chief), Grosvenor Press International, England, 1989.
19. Umrigar F. S., Sikdar P. K., and Khanna S. K., "Regulatory Mechanism for Coexistence of Public and Private Ownerships in Urban Bus System", Proc. of Second National Conference on Emerging Issues in Transport Sector and Paper Selected for presentation in the Main Session on Scope for Private Participation, Organised by The Chartered Institute of Transport, New Delhi, India, September 14-16, 1989.
20. Virendra Kumar, Umrigar F. S., Ravi Shankar A. U., Chandra, S., Mehndiratta H.C. and Sikdar P. K., "Theme Introducing Paper: Control of Vehicles, Insurance and Authority of States and Centre", Proc. of National Seminar on Motor Vehicles Act 1988 and Provisions for Road Safety, December 23, 1989, New Delhi, India, pp.67-72, 1989.
21. Umrigar F. S., Sikdar P. K., and Khanna S. K., "Central Technological Framework for Financially Viable Urban Bus Transport System in India", Proc. of Second National Conference on Transportation System Studies: Analysis and Policy (NCOTSS-90), IIT, New Delhi, December 1-3, 1990.
22. Dholakia K. M. and Umrigar F. S., "Modelling Framework for Evaluating the Performance of Technical Institutions Under Static Versus Dynamic System", Proc. of the XX Annual Convention of Indian Society for Technical Education, Department of Science and Technology; Government of Gujarat and Charutar Vidya Mandal, Vallabhvidyanagar, December 20-22, 1990.

23. Umrigar F. S., "Generation of Bus Transport O - D Matrix from Existing Route Data", Journal of Engineering and Technology, Sardar Patel University, Vol. 6, pp 32-34, December, 1991.
24. Umrigar F. S., and Mishra C. B., "Overview of Pedestrian Safety on Roads in Ahmedabad", Journal of Engineering and Technology, Sardar Patel University, Vol. 8, pp 32-34, December, 1993.
25. Umrigar F. S., "Generation of Bus Transport O -D Matrix from Existing Route Data", Indian Highways, Indian Roads Congress, Vol. 22, No.2, February, 1994.
26. Umrigar F. S., and Mishra C. B., "Entrepreneurship Development through Technical and Management Education", Proc. of one day Seminar on Institutional Management, organized jointly by I.S.T.E (Gujarat), Institution of Engineers (India) and Department of Business Studies (S.P.Uni.), at Vallabh Vidyanagar, March 17, 1994.
27. Umrigar F. S. "Centralised Versus Decentralised Management Structures in Technical Institution", Proc. of one day Seminar on Institutional Management, organized jointly by I.S.T.E. (Gujarat), Institution of Engineers (India) and Department of Business Studies (S. P. Uni.), at Vallabh Vidyanagar, March 17, 1994.
28. Jain N., Mishra C. B. and Umrigar F. S., "Role of Urban Architecture in Tackling Road Traffic Noise", Submitted to Journal of Engineering and Technology, Sardar Patel University, Vallabh Vidyanagar, 1995.
29. Umrigar F. S., "Urban Public Transport in India for 21st Century: Consumer as Hero", Proc. of International Conference on New Horizons in Roads and Road Transport (ICORT-95), New Delhi, India, Vol II, pp.843-859, Organised by University of Roorkee, December 11-14, 1995.
30. Umrigar F. S., and Sikdar, P. K., "Urban Mobility Through Competitive Advantage of Bus System", Submitted for Special Issue of the Indian Journal of Transport Management on Competitive Efficiency in Public Transport to be published in January 1996. Central Institute of Road Transport, Pune, India.
31. Swadas B. P., Patel J. H., and Umrigar F.S. "Centralised Versus Decentralised Management Structure for Technical Institution - Challenges Ahead, Organised by Sopter, ISTE chapter, L.D. College of Engineering, Ahmedabad, February 10, 1996.
32. Umrigar F.S. "Urban Passenger Mobility at Minimum Cost", Proc. of one day Seminar on Recent Trends in Transportation Engineering (Expressways), sponsored by BVM Engg. College, Institution of Engineers (I) and Indian Society for Technical Education, 11.09.97.
33. Patel J. H., and Umrigar F. S. "Technical Faculty Shortage - Present Picture and Some Remedies," Paper presented in the seminar on "Faculty Shortage - Present Status and Remedies", sponsored by AICTE and ISTE, 10th October, 1998.
34. Umrigar F. S., "Professional Excellence and Dignity", Paper presented in the seminar on Professional Excellence and Dignity, sponsored by ISTE and B&B Institute of Technology, 4th December, 1999.

35. Patel, J. H. and Umrigar F. S., "Testing Consultation and Research in Professional Educational Institutions - Need of the Hour", Paper presented in the Seminar on "Scope of Research, Testing and Consultation in Professional Educational Institutes", at the 6th Annual Convention of ISTE Gujarat Section held at S.V.M. Institute of Technology, Bharuch on Sunday, 23rd September, 2001.
36. Umrigar F. S., "Road Traffic Management and Safety Issues", Journal of Engineering & Technology, Sardar Patel University, Vallabh Vidyanagar, Vol. 15, pp. 16-20, July, 2002.
37. Umrigar F. S., "A System Approach to Handle Highway Traffic" Editorial for Journal of Engineering & Technology, Sardar Patel University, Vallabh Vidyanagar, Vol. 15, pp. 2, July, 2002.
38. Umrigar F. S. and Zala L. B., "Integration of Road-Rail Passenger Movement for Indian Intercity Traffic – Mobility at Minimum Cost", Paper accepted for publication in "Indian Highways", IRC, New Delhi.
39. Umrigar F. S., "Urban Transport Plan", Editorial for Journal of Engineering & Technology, Sardar Patel University, Vallabh Vidyanagar, Vol. 16, P. II, September, 2003.
40. Umrigar F. S. and Verma A. K., "Soil Stabilization and Use of Local Material and Industrial Wastes for Rural Road Construction", paper presented at Training Programme for AEs/Jes of SIA for PMGSY Programme project, at SVNIT, Surat, 9th October, 2003.
41. Umrigar F. S., "Planning for Sustainable Urban Transport : Movement of Urbanities and Automobiles", paper accepted for presentation at the National Conference Urban Air Pollution : Issues and Management, 9UAPIM-03), at SVNIT, Surat, December, 2003.
42. Umrigar F. S., Zala L. B. and Mr. Y. Deshani "Road Surface Evaluation for Riding Quality and Rehabilitation" paper presented at National Conference on Traffic Engineering & Road Safety in India – Problems & Prospects (TRAFFICON-04) at Bangalore 26th & 27th November, 2004 pp 197 – 205.
43. Umrigar F. S. and Zala L. B. "Intellegent Transport System (ITS) for Sustainable Transport System", Journal of Engineering & Technology, Sardar Patel University, Vallabh Vidyanagar, Vol. 17, December, 2004.
44. Umrigar F. S. and Patel B. S. "Hotel Management Student Health & Welfare" paper presented at STTP programme on Hostel Management Student Health and Welfare held at SVNIT, Surat.
45. Umrigar F. S. Editorial - "Enhancing Quality of Technical Education in India in Context of Globalization" Editorial for Journal of Engineering & Technology, Sardar Patel University, Vallabh Vidyanagar, Vol. 18, December, 2005.
46. Umrigar F. S., Sheth K. N. "The Effect of Activation Temperature on Removal of Cadmium and Chromium using activated carbon made from Potato peel" Journal of Engineering & Technology, Sardar Patel University, Vallabh Vidyanagar, Vol. 18, December, 2005.

47. Umrigar F. S., Editorial – “Be an Architect for Growth – Message of the Engineering Faculty” Journal of Engineering & Technology, Sardar Patel University, Vallabh Vidyanagar, Vol. 19, December, 2006.
48. Dr. K. N. Sheth; Dr. S. A. Puranik; Dr. F. S. Umrigar; Prof. J. H. Patel, “Production and Characterization of Adsorbents from Agro Wastes” Journal of Engineering & Technology, Sardar Patel University, Vallabh Vidyanagar, Vol. 19, December, 2006.
49. Dr. F. S. Umrigar, Prof. L. B. Zala, Shri P. S. Ajmeri and Shri M. R. Bhagat, “Airport Airside Capacity Study : A Case Study for S.V.P. International Airport, Ahmedabad” Journal of Engineering & Technology, Sardar Patel University, Vallabh Vidyanagar, Vol. 20, December, 2007.
50. Dr. F. S. Umrigar, Prof. L. B. Zala, “Geographic Information System in Road Network Management” Proc. of IEEE International Conference on Innovative Technologies, ICIT-09, June.09
51. Dr. F. S. Umrigar, Dr. L. B. Zala, Prof. Jayesh Pitroda, “A study of Utilization Aspect of Fly Ash in Indian Context” Proc. Of National Conf. Emerging vistas of Tech. in 21st Century at Parul Inst. Of Engg. & Tech., Waghodia
52. Dr. F. S. Umrigar, Dr. L. B. Zala and Rushikesh P. Dangar, “*Pavement Deterioration – A case study on National Highway 8B Section Rajkot-Bannabore (Km 185/0-Km 216/8)*”, Proc. of National Conf. on Recent Trends in Engineering and Technology, 13-14th May, 2011 (NCRTE-2011), BVM Engg. College, VVNagar.
53. Dr. F. S. Umrigar, Dr. L. B. Zala, Dr. T. A. Desai and Kevin B. Modi, “Transportation Planning Models – *A Review*” Proc. of National Conf. on Recent Trends in Engineering and Technology, 13-14th May, 2011 (NCRTE-2011), BVM Engg. College, VVNagar.
54. Prof. C. B. Mishra, Dr. F. S. Umrigar, “*Use of Steel Fiber in Concrete Pavement – A Review*” Proc. of National Conf. on Recent Trends in Engineering and Technology, 13-14th May, 2011 (NCRTE-2011), BVM Engg. College, VVNagar.
55. Prof. J. J. Bhavsar, Prof. J. R. Pitroda, Dr. L. B. Zala, Dr. F. S. Umrigar “Fly Ash Bricks Masonry : An Experimental Study” Proc. of National Conf. on Recent Trends in Engineering and Technology, 13-14th May, 2011 (NCRTE-2011), BVM Engg. College, VVNagar.
56. Dr. F. S. Umrigar, Dr. L. B. Zala, Prof. Jayesh Pitroda, “A study of Utilization Aspect of Fly Ash in Indian Context”, Proc. Of National Conf. Emerging vistas of Tech. in 21st Century at Parul Inst. Of Engg. & Tech., Waghodia
57. Prof. J R Pitroda, Dr L B Zala, Dr F S Umrigar (2012), “*Hypo Sludge Management: Opportunities For Developing Low Cost Concrete With Glass Fibres*” International Journal Global Research Analysis, (GRA), Volume: 1, Issue: 7, Dec 2012, ISSN No 2277 – 8160, pp-56-58.
58. Prof. Jayeshkumar Pitroda, Dr. L.B.Zala, Dr.F.S.Umrigar (2012), “*Experimental Investigations on Partial Replacement of Cement with Fly Ash in Design Mix Concrete*” International Journal of Advanced Engineering Technology,IJAET/Vol.III/ Issue IV/Oct.-Dec., 2012/126-129

59. Jayeshkumar R. Pitroda, Dr. F S Umrigar (2013), “*Evaluation of Modulus of Elasticity of Concrete with Partial Replacement of Cement by Thermal Industry Waste (Fly Ash) and Paper Industry Waste (Hypo Sludge)*” International Journal of Engineering Science and Innovative Technology (IJESIT) Volume 2, Issue 1, January 2013, ISSN: 2319-5967 ISO 9001:2008 Certified, pp-133-138.
60. Jayeshkumar Pitroda, Dr. F S Umrigar (2013), “*Evaluation of Sorptivity and Water Absorption of Concrete with Partial Replacement of Cement by Thermal Industry Waste (Fly Ash)*” International Journal of Engineering and Innovative Technology (IJEIT) Volume 2, Issue 7, January 2013, ISSN: 2277-3754, ISO 9001:2008 Certified, pp-245-249.
61. Prof. Jayeshkumar Pitroda, Dr. L.B.Zala, Dr.F.S.Umrigar (2013), “*Innovative Use of Paper Industry Waste (Hypo Sludge) in Design Mix Concrete*” International Journal of Advanced Engineering Technology, IJAET / Vol. IV/ Issue I / Jan.-March., 2013 / 31-35
62. Prof. Jayeshkumar Pitroda, Dr. L.B.Zala, Dr.F.S.Umrigar (2013), “*Durability of concrete with Partial Replacement of Cement by Paper Industry Waste (Hypo Sludge)*” International Journal of Innovative Technology and Exploring Engineering (IJITEE) , ISSN: 2278-3075, Volume-2, Issue-3, February 2013 / 101-104
63. Dr. F S Umrigar, Jayesh Pitroda, Gaurav Patel “*Pond Ash: Opportunities for Eco-Friendly Material (As Fine Aggregate) In Green Concrete*” Journal of International Academic Research for Multidisciplinary, JIARM, Volume 1 Issue 8 September 2013 • ISSN: 2320 – 5083,169 / 174
64. Dr. F. S. Umrigar, Jayesh Pitroda, Dr. L. B. Zala “*Utilization of Hypo Sludge by Eco-Efficient Development of Rigid Pavement in Rural Roads*” International Journal of Engineering Trends and Technology (IJETT), ISSN: 2231-5381, Volume-4, Issue-9, Sep 2013/3994-4000
65. Jayesh Pitroda, Dr. L. B. Zala, Dr. F. S. Umrigar “*Hypo Sludge: Opportunities for Sustainable Development of Low Cost Rural Roads*” International Journal of Civil Engineering and Technology (IJCIET), ISSN 0976 – 6308 (Print), ISSN 0976 – 6316 (Online) Volume 4, Issue 5, September – October, pp. 130-142
66. Jayesh Pitroda, Dr. L. B. Zala, Dr. F. S. Umrigar “*A Techno-Economic Study on Thermal Waste- Fly Ash Concrete in Rigid Pavement*” Journal of International Academic Research for Multidisciplinary, JIARM, Volume 1 Issue 9 October 2013 • ISSN: 2320 – 5083/239 - 25
67. Bhavin Kashiyani, Jayesh Pitroda, Dr F S Umrigar “*Plastic Waste: Opportunities for Eco-Friendly Material of Bituminous Road Construction*” Conference Proceedings ISBN: 978-81-923462-3-6, Proceedings of National Conference CRDCE13, 20-21 December 2013, SVIT, Vasad, ID: vCME 8, PP 1-8
68. Bhavya Rana, Jayesh Pitroda, Dr F S Umrigar “*Sugar Cane Bagasse Ash for Eco-Friendly Fly Ash Bricks*” Conference Proceedings ISBN: 978-81-923462-3-6, Proceedings of National Conference CRDCE13, 20-21 December 2013, SVIT, Vasad, ID: vCME 9, PP 1-8

69. Dipak Thakore, Dr. L B Zala, A. A. Amin, Dr F S Umrigar “*Traffic flow characteristics for heterogeneous traffic on a urban road – A case study of selected street of Anand city*” Journal of International Academic Research for Multidisciplinary, ISSN : 2320-5083.
70. Shweta Chauhan, Dr. L B Zala, A. A. Amin, Dr F S Umrigar “*Traffic Studies for selected road corridor of Anand City : Ganesh Intersection to Janta Intersection*” Journal of International Academic Research for Multidisciplinary Vol.
71. Dr F S Umrigar, Dr L B Zala, N F Umrigar “*Physical Integration of Multimodal Transportation at Selected Station of Ahmedabad BRTS Corridor*” National Conf. on Recent Advances in Civil & Structural Engineering – ISBN : 978-81-927554-1-0, April, 2014 at ADIT, New Vallabh Vidyanagar.
72. Dr F S Umrigar, Dr L B Zala, A. A. Amini “*Evaluation of Parking Facilities – A Case Study of Surat Railway Station*” National Conf. on Recent Advances in Civil & Structural Engineering – ISBN : 978-81-927554-1-0, April, 2014 at ADIT, New Vallabh Vidyanagar.
73. Mamta Mistry, Dr. L B Zala, A. A. Amin, Dr F S Umrigar “*A Study of behaviour of heterogeneous traffic and traffic flow parameters on rural roads (NH-8 Ahmedabad to Vadodara)*” National Conference on Recent Advances in Civil & Structural Engineering (RACSE-14) : 978-81-927554-1-0.
74. Parth Soni, L B Zala, F S Umrigar “*Traffic signal Co-ordination on selected stretches of Ahmedabad*” National Conference on Recent Advances in Civil and Structural Engineering (RACSE-14) ISBN:978-81-927554-1-0.

PARTICIPATION IN CO - CURRICULAR ACTIVITIES

- Chairman, BVM ISTE Chapter from 1999 to 2003.
- Faculty Advisor of "The Hostelite"(Monthly Newsletter and Annual Issues of BVM Hostels' Students) for four years(1983 to 1986).
- Faculty Advisor for Science Quiz Competition for National Science Day Celebrations, 1990.
- Faculty Advisor for Hostel Sports Activities from 1990 to 1995.
- Discharged duty as Deputy Officer -in- charge for Educational Tour of Final year B.E. students in 1979.
- Member of Printing & Publication Committee of BVM Engineering College for 3 years.
- Member of Advisory Committee of "Shrutam", Sardar Patel University Newsletter for 3 years.
- Member of Time - table & Examination Committee of BVM Engineering College from 1991 to 1996.
- Member of In - House Computerization Committee of BVM Engineering College.
- Chairman of Board of Studies in Civil Engineering at Sardar Patel University, Vallabh Vidyanagar from 19.07.99 to July, 2002.
- Member of Faculty of Engineering, Sardar Patel University, Vallabh Vidyanagar and **Dean from July 2002 to July 2008.**
- Ex-Officio Member of "Vishvakarma", BVM Annual Magazine from 1995 to 1998.
- Hon. Secretary of BVM Staff Club for the year 1994-95.
- Discharged Duty as Judge for "Science Symposium", Organized by Rotary Club Anand Round Town ,October 10,1995.
- Discharged Duty as Judge for " Personality Contest" for M.Sc. Students , Organised by Physical Society, Sardar Patel University, Vallabh Vidyanagar, January 5,1996.
- Member, Local Programme Review Committee, Community Polytechnic Wing, B. & B. Polytechnic, Vallabh Vidyanagar.
- Rector, CVM Engineering Hostels (A-B-, G-V) from 16.12.98 to April, 2002.
- Member of the Prime Minister's Employment Generation Programme (**PMEGP**) – Task Force Committee, District Industry Centre, Anand.

PARTICIPATION IN PROFESSIONAL MEETINGS / PROGRAMMES

Sr. No.	Organizing Institute	Date	Subject
1	S. V. Regional College of Engg. & Tech.Surat.	May 15-27,'78	Summer School on Rural Environment & Planning.
2	College of Engg. Poona.	May 21 to June 2,'79	Summer School on Systems Approach to Water Resources Engg.
3	M.I.T.S. Gwalior.	Dec. 20,'79 to Jan. 3,'80	Winter School on Quality Control in Civil Engg. Construction.
4	Indian Institute of Technology, New Delhi.	Dec.22-24,'86	International Conference on Transportation System Studies (ICOTSS - 86).
5	University of Roorkee, Roorkee.	April 4,'87	Workshop on Transportation Planning for Developing Countries (tpdc-2).
6	University of Roorkee, Roorkee.	Jun-22 to July 5' 87	QIP Summer School on Urban Public Transport Planning, Operations & Management
7	University of Roorkee, Roorkee.	Dec. 15,'87	Panel Discussion on Urban Transport Planning Issues (utpi - 87).
8	University of Roorkee, Roorkee.	Feb.20-21,'88	National Seminar on Interaction Between Institutions & Industries through STEPS.
9	*University of Roorkee, Roorkee.	Dec.12-14,'88	International Conference on Roads & Road Transport Problems (ICORT-88).
10.	*Indian Institute of Technology, Bombay.	Dec.15-17,'88	National Conference on Transportation System Studies (NCOTSS-88).
11.	*Indian Institute of Technology, New Delhi	May 2,'89	Mini-workshop on Transport Perspective in the 8 th Five Year Plan
12.	University of Roorkee, Roorkee	Jun-18 to July 1,'89	QIP Summer School on Computer Aided Drafting in Mini & Micro Computers
13.	University of Roorkee, Roorkee	Dec. 9,'89	National Workshop on Post Graduate Education in Emerging Areas of Civil Engineering
14.	*University of Roorkee, Roorkee	Dec.23,'89	National Seminar on Motor Vehicles Act 1988 & Provisions for Road Safety

Sr. No.	Organizing Institute	Date	Subject
15	University of Roorkee, Roorkee	Jan.22,'90	Panel Discussion on Flexible Pavement Evaluation – Maintenance and Strengthening Measures
16	National Building Organizatio, Delhi	Sept.24-25,'90	Workshop on Modular Coordination and Prefabrication
17	*Indian Society for Technical Education	Dec.20-22,'90	XX Annual Convention of ISTE on Performance Appraisal and Development System in Technical Institutions
18	Sardar Patel University, Vallabh Vidyanagar	Jan.10,'91	Seminar on University Education Problems and Prospects
19	NBO Regional Housing Development Centre, BVM VVNagar	Oct. 23-24 1993	Regional Seminar on Costs and Capabilities for Housing
20	*University of Roorkee, Roorkee	Dec. 11-14 1995	International Conference on New Horizons in Roads & Road Transport (ICORT-95)
21	*SOPTER (ISTE Chapter) L.D. College of Engg. Ahmedabad.	Feb. 10, 1996	Seminar on Technical Institutions – Challenges Ahead.
22	Charutar Vidya Mandal, Vallabh Vidyanagar	March 2, 1996	Seminar on Education for 21 st Century Prospects & Challenges
23	Dept. of Agr. Prod. Process Engg. & Inst. of Engineers (I), V.V.Nagar.	March 9, 1996	Seminar cum Technical Lecture on Green House Engineering
24	BVM Engg. College & S. P. University	April 21 to May 17, 1997	Continuing Education Programme cum Refresher Course on the Use of Computer Softwares
25	BVM Engg. College, Vallabh Vidyanagar	Sept. 11, 1997	Seminar on Recent Trends in Transportation Engg. Expressways)
26	BVM Engg. College, Vallabh Vidyanagar	Oct. 17-18, 1997	Seminar on Restructuring of Technical Education System for better Efficiency & Effectiveness
27	* BVM Engg. College, Vallabh Vidyanagar	Oct. 10, 1998	Seminar on Faculty Shortage Present Status & Remedies
28	Sardar Patel Uni., Govt. of Gujarat	Jan 1, 1999	Seminar on New Challenges for Museums during 21st Century
29	B&B Inst. of Techno. Vallabh Vidyanagar	Dec. 4, 1999	Seminar on Professional Excellence & Dignity
30	SICART Vallabh Vidyanagar	Dec. 5, 1999	Seminar on Science and Technology
31	Nirma Inst. Of Technology Govt. of Gujarat	April 24-26, 2000	Seminar on Challenges to Higher & Technical Educ.

Sr. No.	Organizing Institute	Date	Subject
32	S.V.Regional College of Engg. & Technology, Surat	July 24, 2000	Participating as Invitee Faculty in Staff Induction Training Programme
33	M.S.University of Baroda	Sept. 10, 2000	Seminar on Role of Information Technology in Educational System
34	DDIT, Nadiad	Sept. 16, 2000	Seminar on Kalpsar Project Present Status and Future Prospects
35	Nirma Inst. of Technology, A'bad	Dec. 14-16, 2000	National Seminar on "Shaping Technical Education for the Future"
36	BVM Engg. College Vallabh Vidyanagar	March 25, 2001	Workshop on Management of Hostels
37	* SVM Inst. of Technology, Bharuch	Sept. 23, 2001	Seminar on Scope of Research, Testing and consultation in Professional Educational Inst.
38	*A. D. Patel Inst. Of Tech. New Vallabh Vidyanagar	October 13, 2002	ISTE VII th Annual Convention and Seminar on Role of Technical Edu. For Sustainable Development
39	+ B&B Inst. Of Technology Vallabh Vidyanagar	April 25, 2003	National Seminar on "WTO - Opportunity or Threat to Technical Edu. In the Context of Excellence And Quality Assurance"
40	Charutar Vidya Mandal Vallabh Vidyanagar	November 3 – 7, 2003	"CREATE" Training Module for Heads of the Institutions
41	++ Sardar Patel University Vallabh Vidyanagar	March 20, 2004	One Day Workshop on "Exploring Reforms in the Present System of Evaluation and Examination
42	+ Traffic Engineers & Safety Trainers, Bangalore	November 26 & 27, 2004	National Conference on Traffic Engineering & Road Safety in India Problems & Prospects
43	H.M. Patel Career Development Centre, Vallabh Vidyanagar	19 th & 20 th November, 2005	Empowering The Heads of the Institutions for Excellence and Growth
44	+ BBIT, Vallabh Vidyanagar	4 th March, 2006	One Day National Workshop on Pollution Awareness
45	IIM Ahmedabad	3 rd April, 2006	National Conference on Challenges In Creating World Class Educational Institutions
46	+ G. H. Patel College of Engg. & Tech. V.V.Nagar	22 nd April, 2006	One day Seminar on Intellectual Property Rights and Patents

Sr. No.	Organizing Institute	Date	Subject
47	Gyan Sarovar, Mt. Abu	21.11.06 to 26.11.06	Value Added Education and Academic Values
48	M. S. University, Vadodara	25.02.07	Expert for One Day seminar on Transportation Planning & Management
49	Indian Institute of Management, Ahmedabad	10.03.07 to 11.03.07	Training Programme
50	University of Pune, Pune	21.05.07 to 26.05.07	Executive Development Programme
51	CII, Mumbai	07.02.08 to 08.02.08	Patenting in India & Abroad
52	H.M.Patel Academic Centre, Karamsad	03.02.09	Advocacy Meeting-cum-Workshop for Principals, (Red Ribbon Activities of Govt. of Gujarat)
53	Sardar Patel University, Vallabh Vidyanagar	01.03.09	Workshop on Integral Education
54	Institution of Engineers (I) V.V.N. L. C., BVM	05.10.09	Planning For Sustainable Urban Transport Movement Of Urbanites And Automobiles
55	SICART, V.V.Nagar	14.12.09	Workshop on Higher Education Perspective & Future Scenario
56	BVM Engg. College	22.04.10	Seminar on Road Safety Awareness
57	Inst. Of Engrs. & GTU	03.01.11	Innovation in Higher Education by Sam Pitroda
58	ADIT, New Vidyanagar	03.08.11	One Day Regional Seminar on 21 st Century : Priorities in Tech. & Higher Education
59	National Board of Accreditation (NBA)	25-27 March, 2012	WOSA 2012 meet at New Delhi
60	BVM Engineering College	13.05.12 to 14.05.12	National Conference at BVM
61	CEPT, Ahmedabad	09.03.12	Workshop on Transportation Infrastructure
62	Gujarat Tech. University	16.06.12	Meeting on Designing Structure of Technical University
63	Knowledge Consortium of Gujarat	08.01.14	Industry Institute Interaction Meet with Board of Apprentice Training (BOAT)
64	Leadership exposure visit IIT, Kanpur	02.05.14	IIT, Gandhinagar

65	Environmental Management Framework (EMF) and Procurement	27.05.14	KCG, Ahmedabad
67	TEQIP-II Workshop on Good Governance, Leadership and Management	16-17 October, 2014.	New Delhi
68	Workshop on Academic Leadership & Best Practices	19.09.15	IIT, Gandhinagar.
*	Presented Research Paper		
+	Worked as Chairman for One Technical Session.		
++	Worked as a Convener for working group "Creating Question Bank"		

Annexure IV

CONSULTANCY & EXTENSION SERVICES

(i) Consultancy Work Undertaken :

One of the Consultants for the project entitled "Conceptual Plan for Future Traffic Requirements on Road Network around Ahmedabad and Gandhinagar ", entrusted to Sheladia Associates and Consultants(India) Pvt. Ltd; Ahmedabad.

(ii) Organized Short term courses/workshop/seminar :

- (a) Coordinator for the Winter School on "Recent Trends in Design and Management of Urban Bus Transit System"(28th December, 1992 to 9th January,1993),at Department of Civil Engineering, BVM Engineering College, Vallabh Vidyanagar, Gujarat; Sponsored by Indian Society for Technical Education, New Delhi,India.
- (b) Coordinator for One day Seminar on "Recent Trends in Transportation Engineering (Expressways), Thursday, 11.9.97, at Department of Civil Engineering, BVM Engineering college, sponsored by BVM Engineering College, Institution of Engineers (I) and Indian Society for Technical Education, New Delhi and well-wishers.
- (c) Co-organized and participated in the workshop on "Indian Standards", sponsored by ISTE and BVM Engineering College, September 26-27, 1999.
- (d) Convener of Dr. S. N. Patel Seminar on "Computer-aided Civil/Structural Engineering Planning, Design and Construction Management or Case studies, sponsored by BVM Alumni Association, December 5, 2000.
- (e) Co-ordinator of the Workshop on "Management of Hostels", organized by BVM Engineering College, sponsored by CVM, March 25, 2001.
- (f) Co-ordinator of AICTE sponsored ISTE Summer School on "Highway Safety Management and Devices", May 14-26, 2001.

(iii) Special Lectures Delivered:

- (a) "Urban Public Transport Scene in India - General Performance", in the Workshop on Traffic and Transportation Management, organised by Gujarat Engineering Research Institute, Vadodra, August 21-22 1990.
- (b) "Technological Framework for Planning and Management of Urban Bus Services", in ISTE Winter School on Transportation Management for Small and Medium Size Cities, at S.V.R. College of Engineering and Technology, Surat, 28th January to 9th February 1991.
- (c) "Policy for Urban Bus Services - Global Scenario" in ISTE Winter School on Transportation Management for Small and Medium Size Cities, at S.V.R. College of Engineering and Technology, Surat, 28th January to 9th February 1991.
- (d) "Quantification of the Quality of Urban Bus Services "under joint auspices of Institution of Engineers(India), and Indian Society for Technical Education (ISTE) Chapter, Vallabh Vidyanagar, 3rd November 1993.
- (e) "Memory Retention Techniques" in ISTE Student Chapter, BVM Engineering College, Vallabh Vidyanagar, August 1, 1995.
- (f) "Time Management Techniques" in ISTE Student Chapter, BVM Engineering College, Vallabh Vidyanagar, Oct. 10, 1995.
- (g) "Strength, Weakness, Opportunity and Threat (SWOT) Analysis of Teachers/Institutions", Symposium arranged under joint auspices of Institution of Engineers(I) and Indian Society of Technical Education, Vallabh Vidyanagar, January 3, 1996.
- (h) "Effective Technical Education, Institute Industry Interaction", in ISTE Summer School on Industry Institute Interaction at BVM Engineering college, Vallabh Vidyanagar from 11.5.98 to 16.5.98.
- (i) "Urban Public Transport in India for 21st Century", in ISTE Summer School on Road Traffic - Environment Problems and Solutions at BVM Engineering College, Vallabh Vidyanagar from 15.6.98 to 27.6.98.
- (j) "Credit System in Technical Education",
 - (i) for staff Induction Training Programme at SVR, Surat, 24.07.2000.
 - (ii) for Fresh teachers of BVM Engineering College, V.V.Nagar, 15.09.2000.
 - (iii) for teachers of ADIT, V. V.Nagar, 8.11.2000.
- (k) Urban Public Transport System, 2 Days National Conference on Civil Engineering Trends, Issues & Challenges at M. S. University, Vadodara on 12.03.06. Also Chaired One Technical Session on Highways.
- (l) Chaired the Technical Session for One Day National Workshop on Pollution

Awareness held on 04.03.06 organized by BBIT, Vallabh Vidyanagar.

- (m) Chaired the Technical Session on 22.04.06 at GCET for the One day Seminar on Intellectual Property Rights and Patents.
- (n) “Strategy and Art of Reinventing Excellence in Education” during at ADIT on 13.02.07.
- (o) Delivered an Expert Lecture on Recent Technology in Sustainable Urban Transportation and Highway Engineering at DJMIT, Mogar on 14.02.14.

(iv) Interaction With Other Institutions:

- (a) One of the Experts for finalizing the Syllabi of the Subjects in Advance Diploma Program in Civil Engineering (with Transportation Engineering as specialization) Course at B.& B. Polytechnic, Vallabh Vidyanagar.
- (b) Member, Board of Studies for the One Year Post-Diploma Course in Computer Applications in Civil Engineering at B. & B. Polytechnic, Vallabh Vidyanagar.
- (c) Recognized PG teacher for M.E. and Ph.D. in Civil Engineering and Transportation Engineering.
- (d) Examiner for the evaluation of M.E. dissertation(thesis) of post-graduate students in Highways and Transportation Engineering at M.S.University of Baroda, Vadodara; and of post-graduate students in Transportation Planning at Centre for Environment Planning & Technology, Ahmedabad.
- (e) Paper-setter and/or Examiner for under-graduate students in the field of Transportation Engineering at M.S.University of Baroda, Vadodara; at South Gujarat University, Surat; at Gujarat University, Ahmedabad; and Birla Institute of Technology, Ranchi (Bihar).
- (f) Member (Academic / Professional) on Departmental Board of Under Graduate Studies by SVNIT, Surat.
- (g) Invited by SVNIT, Surat for interaction among the eminent Transportation professionals, researchers and academicians from premier institutes like IIT, NIT, IRC, CRRI etc. regarding the M.Tech. (Transportation) Program to be introduced by SVNIT from the A.Y. 2007-08 on 28.03.07.
- (h) Reviewed two papers (i) Impact of Roadside Friction on Travel Speed of Indian Roads (ii) Overloading on Highways & Related Issues received from IRC, New Delhi for publication.

(v) Publication of Books :

- (i) Co-author of the Book "Basic Civil Engineering" published by Atul Prakashan, Ahmedabad, 1998 - 1st Edition and 2000 - 2nd Edition.
- (ii) Coauthor of the Resource Material for "Transportation Engineering (C 506)", for Diploma students Distance Learning Mode, World Bank Project executed by DTE, Gujarat.

(vi) Ph.D. Thesis Supervisor :

- (i) Ph.D. degree awarded to 4 (Four) students.
- (ii) Guiding 4 (Four) students in the area of Civil Engineering / Transportation Engineering.

(vii) Awards

- (i) Bharat Excellence Award for the year 2015
- (ii) Mahatma Gandhi Award for Excellence to Outstanding Men & Women of India 2015.