

EDUCATION

Qualification	Year of Passing	% of Marks	College/University
Ph.D	Pursing		Visvesvaraya Technological University
M.Tech - TEM	September, 2009	74.25	BMS College Of Engineering
B.E. - CIVIL	January,2007	63.04	Dr. Ambedkar Institute of Technology, Bangalore

TECHNICAL SKILLS

Application frameworks	Mx-Road(Basic), Auto Cad, Autolisp, Loop, Microsoft Office, Staad Pro
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MEMBERSHIP

- Life Member -The Indian society for technical education
- Member – Indian Roads Congress

FIELDS OF SPECIALIZATION

- Highway Engineering
- Traffic Engineering
- Transport Planning
- Infrastructure Management
- Road Safety Audit

PROJECTS

Title: Road Safety Auditing of NH-4 Stretch – A Case Study

- The present study was undertaken to audit an existing National Highway (NH-4) between Mumbai and Chennai.
- For analysis a stretch of 27 kilometers was selected which comes under Nelamangala Zone and has high number of accidents as recorded by the Police.
- The study also involved investigating the effects of factors like carriageway width, Relative Accident Rate, Annual Accident Rate and traffic characteristics like traffic volume and mean speed on accident.
- Regression Analysis between Causative Factors and Accident Rate, including Road Safety Audit was carried out for the stretch.

INDUSTRIAL TRAINING

Title: Feasibility study of using pre-cast element technology for construction of Grade Separator at 29th Main BTM Layout Junction

- Organization : TRANSPORT TRAINING INSTITUTE AND CONSULTANCY
- Duration : Three months

PROJECTS UNDERTAKEN

- Conducted "**Axial Load Survey**" at Devanahalli on NH-207, Bangalore, Karnataka.
- Conducted "Traffic Survey" at Ramakrishna Ashram Circle, Bangalore, Karnataka.
- Conducted several consultancy works in B.M.S.College of Engineering in Highway Engineering Department.

WORK EXPERIENCE

Total Experience: 11 years 05 months

B M S COLLEGE OF ENGINEERING **22nd Sept 14 – Till**
date

Role: Assistant Professor

Environment: Highway Engineering, Traffic Engineering, Transport Planning

Theory Subject handled for Under Graduate (Civil Engineering)

- Pavement Design
- Building Planning & Drawing
- Geometric Design of Roads
- Building Materials & Testing
- Highway Engineering
- Transportation Systems & Traffic Engineering
- Urban Transport Planning

Theory Subject handled for Post Graduate (Transportation Engineering & Management)

- Geometric Design of Transportation Facilities

Laboratory handled

- Computer Aided Design Laboratory
- Highway Materials Laboratory

Other Activities in the Department

- Website Upgradation
- Placement Co-ordinator
- Time table officer
- CIE Conduction Co-ordinator 2015-16 & 2016-17
- Collection and Compilation of department data for NIRF-MHRD 2016
- Organising Committee Member for National Workshop on "Emerging Trends in Transportation Engineering and Management (NETTEM – 2015)" in association with IITM and Sponsored by Ministry of Urban Development, GOI and TEQIP-II.

- Organising Committee Member for 3rd Conference "Transportation Systems Engineering And Management CTSEM-2016" Sponsored by TEQIP-II
- Worked for PG-NBA-2017

Other Activities in the Institute

- Co-ordinator for Graduation Day 2015, 2016, 2017 & 2018.
- Transportation Co-ordinator for PhaseShift-2015
- Co-ordinator for Teachers' Day 2016
- Valuation Co-ordinator for SEE – 2nd Semester Unit - Worked as Co-ordinator to ensure smooth completion of 2nd Semester valuation and announcement of results in time – 2015-16
- Valuation Co-ordinator for SEE – 7th Semester Unit - Worked as Co-ordinator to ensure smooth completion of 7th Semester valuation and announcement of results in time – 2017-18
- One of the Organising committee member for 5th IEEE International Conference – MITE 2017 held at B.M.S. College of Engineering during 26th to 30th October 2017.
- One of the Co-ordinator for 16th International Conference on "Remote Engineering and Virtual Instrumentation"(REV 2019) held during 3rd to 6th February 2019.

Few Consultancy works in the Department

- Prepared Traffic Survey and Analysis Report for Bull Temple Road and Katrigruppe Main Road near B M S College of Engineering, Bangalore.
- Analysis and Report on the Bump Integrator Study For NH-4 Road Section Between Bangalore And Nelamangala In Karnataka.
- Analysis and Report on the Bump Integrator Study For NH-7 Road Section Between Bangalore And Devanahalli In Karnataka.
- Analysis and Report on the Bump Integrator Study for Section NH-17 Between Kundapur To Surathkal In Karnataka
- Analysis and Report on the Bump Integrator Study for Upgradation Of The Road From Manuguli (Km (0+000) - Devapura (Km109+953) Of SH61 In The State Of Karnataka
- Analysis and Report on the Bump Integrator Study for Section NH-17 Between Kundapur To Surathkal In Karnataka

DAYANANDA SAGAR COLLEGE OF ENGINEERING

25th Jan 12 – 20th Sept 14

Role: Assistant Professor

Environment: Highway Engineering, Traffic Engineering, Transport Planning, Infrastructure Management

Theory Subject handled for Under Graduate (Civil Engineering)

- Urban Transport Planning
- Transportation Engineering-I
- Transportation Engineering-II
- Building Planning & Drawing

Theory Subject handled for Post Graduate (Highway Technology)

- Airport Planning & Design Structures
- Road Construction Planning & Management

Laboratory handled

- Computer Aided Design Laboratory
- Concrete And Highway Materials Laboratory

Projects Guided

- **Guided 5** Post Graduate students for thesis work of Master Degree in transportation Engineering and Management.
- **Guided 8** Post graduate students for thesis work of Master Degree in Highway Technology.
- **Guided 11** Under graduate students for project work of Bachelor of Civil Engineering.

Papers Published

- LABORATORY INVESTIGATIONS ON BITUMINOUS CONCRETE BY PARTIALLY REPLACING NATURAL AGGREGATES (NA) WITH RECYCLED CONCRETE AGGREGATES (RCA) by Dheeraj N. Kumar and Sourabh V. D, 3rd Conference on Transportation Systems Engineering and Management (CTSEM-2016), November 2016.
- Laboratory Investigation of Black Cotton Soil and Red Soil Stabilized with terrasil and cement by Venugopal G & Dheeraj N. Kumar Manjunath K.R, National conference on Recent Advances in Materials Science & its Applications (RAMSA-16), September 2016.
- DENSITY AND COMPACTION CHARACTERISTICS OF WMA USING ADDITIVES by Prof. Dheeraj N Kumar & Varadraj N.K, International Journal of Research in Engineering & Technology (IJERT), eISSN: 2319-1163 | pISSN: 2321-7308, Volume: 03 Issue: 06 | Jun-2014.
- LABORATORY INVESTIGATION ON HOT MIX ASPHALT USING RECLAIMED ASPHALT PAVEMENT (RAP) FOR BITUMINOUS CONCRETE MIX by Prof. Dheeraj N Kumar, Prof. Manjunath K R & Spurti O. Tambake, International Journal of Research in Engineering & Technology (IJERT), eISSN: 2319-1163 | pISSN: 2321-7308, Volume: 03 Issue: 06 | Jun-2014.
- Utilisation of Waste Foundry Sand in Rigid Pavement Structure by Dheeraj N Kumar & Chidananda M.L, International Conference on Convergence of Science, Engineering & Management in Education and Research - A Global Perspective (II Edition) ICCSEM 2013, September 2013.
- Comparative Study On Hot Mix And Warm Mix Asphalt Using Zycosoil And Densicryl Additives For BC Mix by Dheeraj N Kumar, Manjunath K R & Santosh T.K, International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 2 Issue 7, July – 2013.
- Road Safety Audit by Dheeraj N Kumar & Arun S Bagi, IOSR Journal of Mechanical and Civil Engineering (IOSRJMCE), ISSN : 2278-1684 Volume 1, Issue 6 (July-August 2012), PP 01-08.

Other Activities

- Web page Up gradation
- Placement Co-ordinator
- Participated in the Workshop RART-2012 on 26th & 27th April 2012, organized by Highway Technology section, Department of Civil Engineering, RV College of Engineering, Bangalore.

- Participated in a two-week ISTE Workshop on Introduction to Research methodologies conducted by IIT Bombay (National Mission on Education through ICT –MHRD).
- Attended One Day Workshop on “Urban Transportation Management” (UTM-2017) held on 11th March 2017 at Hotel Lalith Ashok, Bangalore.
- Attended two weeks AICTE-ISTE Short term Training Programme on “Advances in Finite Element Methods & Applications” from 17th to 28th July 2017 conducted in B.M.S. College of Engineering, Bengaluru.
- Attended Indian Roads Congress – 78th Annual Session at Palace Grounds from 3rd to 6th November 2017.
- Attended QIP Short term course on “Sustainability Issues in Civil Engineering” during 7th to 11th May 2018, conducted by IISc, Bangalore.
- Attended QIP Short term course on “Modelling and Analyzing Sustainable Transport” during 17th December to 21st December 2018, conducted by IISc, Bangalore.
- Attended Two week online course on “Digital Transformation In Teaching Learning Process” from 14th February to 6th March 2020, conducted by Indian Institute of Technology, Bombay in Association with TEQIP-3 and funded by Ministry of HRD, Govt. of India.

TRANSPORTECH CONSULTANTS

01st Oct 09 – 24th Jan 12

Role: Project Assistant

RESPONSIBILITIES

- Conducted land surveys, establishing Bench Marks, Contour Mapping and Preparation of Strip Plans with Sectional Details using Computer Aided Designs (Auto Cad) for Engineering Projects.
- Conducted traffic surveys for mid blocks, junctions on Rural and Urban Roads and prepared project reports.
- Conducted Pavement evaluation studies inclusive of Benkelman Beam Deflection Studies to evaluate the overlay thickness required for existing pavements; in addition conducted Bump Integrator Studies to evaluate the road unevenness, Axle Load Studies to evaluate the Vehicle Damage Factor(VDF)

DHV BV – DHV India Pvt. Ltd

01st June 07 – 31st Oct 07

Role: Junior Design Engineer.

RESPONSIBILITIES

- Worked for Karnataka Municipal Reforms Project under World Bank funded.
- Greater Bangalore Sewerage Component and Road Restoration System.
- Involved in preparing Design and Detailed Project Report (DDPR) of sewerage system for Byatarayanapura and Rajarajeshwari Nagar CMCs.

DESIGN CONSORTIUM

01st July 06 – 31st May 07

Role: Engineer

RESPONSIBILITIES

- Designed and prepared drawings for residential buildings.
- Involved in preparing estimates for Pradhana Mantri Gram Sadak Yojana (PMGSY) projects, pavement, and culvert and curve design calculations.
- Worked for Jalnirmal projects, designing water supply schemes and handling estimates using Loop software.

PERSONAL PROFILE

Name : **Dheeraj N Kumar**
Father Name : **Late M Narendra Kumar**
Mother Name : **Jayanthi N Kumar**
Date of Birth : **11th April 1985**
Sex : **Male**
Nationality : **Indian**

I hereby declare that all the information given above is true to the best of my knowledge.

Place: Bengaluru

Date: 29.05.2020

Yours Sincerely,

(DHEERAJ.N.KUMAR)