#### Detailed BIO-DATA As on Aug 9, 2025

**Dr. Praveen KumaR**

**Professor (HAG SCALE)**

**Transportation Engg. Group**

Department of Civil Engineering

Indian Institute of Technology, Roorkee

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**DATE OF BIRTH** November 10, 1964

**EDUCATIONAL QUALIFICATIONS**

1. B.E. (Civil Engg.), MNIT, Jaipur, 1987
2. M.E. (Transportation Engg.), IIT Roorkee, 1990
3. Ph.D. (Transportation Engg.) IIT, Roorkee 1997

**FIELDS OF SPECIALIZATION**

1. Rural Road Network Planning
2. Rural Roads
3. Industrial Waste Utilization in Road Works
4. Pavement Performance Studies
5. Modified Bituminous Binders
6. Intelligent Transport System
7. Urban Road Planning

**NATIONALITY** Indian

**EXPERIENCE**

1. Research (1992-1998) as Scientist for about six years at Central Road Research Institute, New Delhi, a National Laboratory under CSIR
2. Assistant Professor in Transportation Engineering Section of Civil Engineering Department at University of Roorkee, (IIT Roorkee), May 1998-Feb 2004.
3. Associate Professor in Transportation Engineering Group of Civil Engineering Department at Indian Institute of Technology, Roorkee, Feb 2004- Dec 2007
4. Professor in Transportation Engineering Group of Civil Engineering Department at Indian Institute of Technology, Roorkee, Dec 2007-Dec 2015
5. Associate Dean, Faculty Affairs, IIT Roorkee, Jan 2010 - Dec 2012
6. Coordinator, Transportation Engineering Group, Civil Engineering Department, IIT Roorkee, July 2010 –June 2012 and December 2015 onwards
7. Chairman, Library Advisory Committee, M G Central Library, IITR, Jan 2013 – March 2016.
8. **Professor in HAG Scale** in Transportation Engineering Group of Civil Engineering Department at Indian Institute of Technology, Roorkee, Jan 1, 2016 onwards.
9. **DIRECTOR, NATIONAL INSTITUTE OF TECHNOLOGY, DELHI OCT 2018 TO AUGUST 2020.**
10. Head, Civil Engineering Department, IIT Roorkee, April 18 2022 to April 17, 2025

**COUNTRIES VISITED**

United States (Washington), Australia (Adelaide), China (Shanghai), Nepal (Kathmandu) and Dubai.

**PRESTIGIOUS SPONSORED & CONSULTANCY PROJECTS COMPLETED**

1. Planning of Rural Roads in Jaipur District, sponsored by Public Works Department, Rajasthan, 1992-1993
2. Use of Granulated Blast Furnace Slag in Road Works, sponsored by Visakhapatnam Steel Plant, Visakhapatnam, 1993-94
3. Utilisation of Steel Industry Waste in Road Construction, sponsored by RDCIS, (SAIL), Ranchi, 1993-96
4. Planning of Rural Roads in Ghaizabad District, sponsored by Public Works Department, Uttar Pradesh, 1995-98
5. Preparation of Master Plan for Rural Roads of Adilabad, Karimnagar and Warangal Districts of Andhra pradesh sponsored by World Bank, 1997-98
6. Utilization of Steel plant by-products in Road Works, sponsored by SAIL, Rourkela, 1994-98
7. Use of Fly-Ash in Embankment of Indo-Japan Friendship Bridge (New Nizamudin Bridge), sponsored by PWD, Delhi, 1997-1998.
8. Development of an Approach for Intelligent Transport System for Indian Environment sponsored by AICTE 2000-2003.
9. Feasibility Study of Transport Nagar at Haridwar.
10. Feasibility Study of Transport Nagar at Rishikesh
11. Scrutiny of PMGSY Proposals in Uttaranchal and Uttar Pradesh, 2001 onwards as Coordinator, State Technical Agency.
12. Guidance to PIUs of Uttar Pradesh, Bihar, Jharkhand and West Bengal for construction of Rural Roads under Pradhan Mantri Gram Sadak Yojna (PMGSY) as Coordinator, Principal Technical Agency
13. Development of Design Procedure for Reinforced Flexible Pavement, MHRD, 2003-2006.
14. Design and Monitoring of Ardh Kumabh Mela Roads of Haridwar District, 2003-2004.
15. Rural Roads Pavement Performance Studies for PMGSY, sponsored by NRRDA, MoRd, Govt of India, Rs 20 Lakhs
16. Development of Specifications of WMA for Indian Conditions, sponsored by DST, Rs 13 Lakhs, 2015-2017
17. Development of Specifications for use of Waste Plastic in Asphalt Mixtures: a Major Step twards Building Sustainable Rural Infrastructure, Rs 55 Lakhs (PI Dr Nikhil Saboo), 2023
18. Development of Damage Prediction based Mechanistic-Empirical Flexible Pavement Design Guidelines for India, MoRTH, Rs 1.8 Crore (PI Dr Nikhil Saboo). 2023
19. Development of Green and Sustainable Bio-Bitumen, MoRTH, Rs 1.03 Crore (Rs 50 Lakhs direct funding and Rs 53 Lakhs from MoRTH Chair). (PI Dr Nikhil Saboo) 2024
20. Performance Evaluation of PMGSY Roads constructed using New Technology, Full Depth Reclamation (FDR) with cement and Additives Rs 74.74 Lakhs, NRRDA, 2024 (PI Dr Nikhil Saboo)

## SPONSORED PRJECTS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| S.No. | Title of Project | Funding Agency | Financial Outlay | Year of start & total period | Name of P.I. and other investigators | Status Started or completed or in progress |
|  | Development of an Approach for Intelligent Transport System for Indian Environment | AICTE | 3 Year Salary +3 lakhs | 2000 | Prof Praveen Kumar | Completed |
|  | Development of Design Procedure for Reinforced Flexible Pavement | MHRD | 5 Lakhs | 2003 | Prof Praveen Kumar | Completed |
|  | Rural Roads Pavement Performance Studies for PMGSY, | NRRDA, MoRd, | Rs 20 Lakhs | 2010 | Prof Praveen Kumar | Completed |
|  | Development of Specifications of WMA for Indian Conditions | DST | Rs 13 Lakhs, | 2015 | Prof Praveen Kumar | Completed |
|  | SEG of Unnat Bharat Abhiyan for Rural Infrastructure | IIT Delhi | 12 Lakhs | 2018 | Prof Praveen Kumar | In Progress |
|  | Increase in MoRTH Chair Endowment Fund  From 1 Crore to 7 Crore | MoRTH | 6 Crore | 2023 | Prof Praveen Kumar | In Progress |
|  | Development of Specifications for Use of Waste Plastic in Asphalt Mixtures: a Major Step towards building Sustainable Road Infrastructure | NRIDA | 55 Lakhs | 2022 | Dr Nikhil Saboo  Prof Praveen Kumar | In Progress |
|  | Development of Green and Sustainable Bio-Bitumen | MoRTH | 1Crore | 2023 | Dr Nikhil Saboo  Prof Praveen Kumar | In Progress |
|  | Performance Evaluation of PMGSY Roads constructed Using New Technology, Full Depth Reclamation (FDR) with cement and Additives | NRIDA | 48 Lakhs | 2024 | Dr Nikhil Saboo  Prof Praveen Kumar | In Progress |
|  | Development of Damage-Prediction-Based Mechanistic Empirical Flexible Pavement Design for India | MoRTH | 1.8 Crore | 2023 | Dr Nikhil Saboo  Prof Praveen Kumar | In progress |

## ORGANISATIONAL CAPABILITES

1. Session Coordinator, International Conference on Roads and Road Transport Problems (ICORT-95), Dec. 11-14, 1995.
2. Session Coordinator, National Get-Together on Road Research and its Utilization, organised by CRRI, New Delhi, Jan. 3-4, 1997.
3. Convenor, Session Coordination Committee, Indo-US Workshop on Ground lmprovement using Geosynthetics, organised by CRRI in collaboration with University of New Orleans, Louisiana (USA), March 26-28, 1997.
4. Member, Finance Committee, PIARC World Conference, organised by CRRI and PIARC-G2 Group, New Delhi.
5. Member, Hindi Samiti, Central Road Research Institute, New Delhi for about 4 years.
6. Secretary, SAC, Transportation Engg. Section, Deptt of Civil Engg., University of Roorkee, Roorkee.(1998-2004).
7. Member, Rural Roads Committee, Indian Roads Congress, New Delhi. (1999 onwards)
8. O.C.Central Facilities at Civil Engineering Department, UOR 1998-2002.
9. O.C.Purchase at Civil Engineering Department, UOR 2000-2002.
10. Staff Advisor, Yoga, IIT Roorkee (UOR), 1999-2009.
11. Member, UOR/IITR Convocation Function related Committees, 1999, 2000, 2001, 2002, 2003, 2016
12. Convener, National Seminar on “Reforms in Technical Education” organised at University of Roorkee, Roorkee, March 26-27, 2001.
13. Warden, Ravindra Bhawan (IV Year Students Hostel) 2001 -2004
14. Session Coordinator, 2nd International Conference on Fluid Mechanics and Fluid Power, Roorkee Dec12-14, 2002.
15. Co-convener, Session Coordination Committee, International Geotechnical Conference, IIT Roorkee, Dec17-19, 2003.
16. Member, Hindi Implementation Committee, IIT Roorkee, 2001-2003.
17. Member, Rural Road Planning Committee of Pradhan Mantri Gram Sadak Yojna (PMGSY), Delhi.
18. **Coordinator, State Technical Agency, (IITR) of PMGSY for Uttar Pradesh and Uttarakhand 2001 -2018**
19. **Coordinator, Principal Technical Agency, (IITR) of PMGSY for Uttar Pradesh, Uttarakhand, 2002 -2018 and 2021 onwards**
20. **Member, Six Member National Executive Committee of Pradhan Mantri Gram Sadak Yojna** (PMGSY), 2003 -2018.
21. Member, Research Council, Pradhan Mantri Gram Sadak Yojna at national level, 2003 onwards
22. Staff Advisor, Cognizance (Tech Fest)-2004, 2005, Civil Engg Deptt.
23. Member, State Level Standing Committee for Pradhan Mantri Gram Sadak Yojna, Uttaranchal, 2004 onwards
24. Manager Adarsh Bal Niketan SeniorSecondrySchool, IITR, 2006 -2012.
25. Nominated Member, DPC, Humanities Deptt,. IITR, 2009 -2012
26. Secretary, Department Professorial Committee (DPC) of Civil Engg Deptt, IITR, 2008-2010.
27. **Associate Dean, Faculty Affairs, IITR, Jan 2010 – Dec 2012**
28. **Coordinator, Transportation Engineering Group, Civil Engineering Department, IIT Roorkee, July 2010-2012, December 2015 to July 2018.**
29. President, Saraswati Mandir Samiti, IIT Roorkee, 2012-2014
30. Chairman, Library Advisory Committee, M G Central Library, IITR, Jan 2013 -2016
31. Chairman, 59th ILA International Conference on Managing Libraries in the Changing Information World: From Surviving to Thriving, Feb 22-24, 2014.
32. National Coordinator, Subject Expert Group on Rural Infrastructure under Unnat Bharat Abhiyan of MHRD, May 2018 onwards
33. Head, Civil Engineering Department, IIT Roorkee, April 18 2022 to April 17, 2025
34. **DIRECTOR, NATIONAL INSTITUTE OF TECHNOLOGY, DELHI OCT 2018 TO AUGUST 2020.**

### BOOKS, CODES AND OTHER PUBLICATIONS

1. A Chapter on Rural Road Network Planning Technology developed by me in “Directory of Rural Technologies Part IV, National Institute of Rural Development, Rajendra Nagar, Hyderabad-500 030
2. A Chapter in Rural Roads Manual, IRC SP-20, 2002
3. A Chapter in Quality Assurance Handbook for Rural Roads, NRRDA, Ministry of Rural Development, Govt. of India, May 2007.
4. **About 450 Technical Research Papers in Indian and International Journals& Conferences.**
5. Editor of NEWS LETTER of Central Road Research Institute, New Delhi for about five years.
6. Editor of SADAK DARPAN, a Research Journal of Central Road Research Institute, New Delhi for about three years.
7. Member of Editorial Board, Hindi version of "DOCUMENT ON RURAL

ROAD DEVELOPMENT IN INDIA Vol. I & ll published by Central Road Research lnstitute, New Delhi, 1994.

1. Editor, Samvaad, IIT Roorkee News Bulletin (2002 -2012)
2. Editor, Proceedings of National Seminar on “Reforms in Technical Education” March 26-27, 2001
3. Member, Editorial Board, Manthan, IIT Roorkee Research Publication (2003-2006)
4. Invited Editor, Open Transportation Journal, (International Web Based Transportation Journal)
5. Member of Drafting Committee for IRC Code on “Guidelines on Tree Plantation along Rural Roads”, IRC: SP:1-3-2014, Indian Roads Congress.
6. Member, Peer Review Committee for Revision of Quality Assurance Handbook for Rural Roads, NRRDA, Ministry of Rural Development, Govt. of India, Dec 2016.
7. A book on Rural Roads for PG Students in writing stage.

**RESEARCH GUIDANCE**

Ph.D. – Twenty One Awarded, Nine in Progress

M. E./M.Tech.- Ninety Six

M.Tech. Project-42

B.Tech. Project- 9

**PRODUCTION OF TV/ VIDEO FILM**

Worked as Script Writer and Technical Consultant for the film on Rural Transportation, produced by Technical Teachers Training Institute Chandigarh.

**AWARDS**

1. CSIR National Research Prize for 1995-96.
2. Young Teachers’ Career Award of AICTE in April 2000.
3. Best Paper on Road Research Award of Indian Roads Congress (Bihar PWD Medal) for the year 1999-2000.
4. Pt Jawahar Lal Nehru Centenary Award of Indian Roads Congress for year 2000.
5. The Brij Mohan Lal Memorial Award-2001 and 2008 of The Institution of Engineers (India) for best paper, given in 2002 and 2009
6. Outstanding Teacher Award (Best Teacher)–2003, 2007 and 2011 of Indian Institute of Technology, Roorkee
7. Best Paper Award of Indian Society for Construction Materials and Structures (ISCMS) for 2002.
8. Star Performer for 2003-04, 2004-05 and 2005-06 by Indian Institute of Technology, Roorkee.
9. Utkrast Shikshak Samman by Bharat Vikas Parishad, Uttarakhand
10. Commendation Certificate for Outstanding Work by Indian Roads Congress, 2006.
11. BOLT (Best Teacher) Award by Air India and Dainik Jagran, 2006, 2007
12. Shiksha Ratan Puraskar by India International Friendship Society , 2007
13. Best paper of the session in National Seminar on “Role of Infrastructure for Sustainable Development”, organized by The Institution of Engineers Roorkee Local Centre, October 12-14, 2012.
14. The Institution prize of The Institution of Engineers (India) for best paper, given in 2013.
15. Best Paper on Road Research Award of Indian Roads Congress (Bihar PWD Medal) on Paper “Effect of Modulus of Subgrade Reaction on Thickness of Rigid Pavement” for the year 2016-17.
16. Excellence Award-2017 on 50th Engineers Day by the Institution of Engineers, Roorkee
17. Best Paper on Road Research Award of Indian Roads Congress (Bihar PWD Medal) on Paper “Effects of Using Waste Plastic on Fatigue and Rutting Characteristics in Flexible Pavements” published in year 2018-19 awarded in 2022.
18. Distinguished Alumni Aaward by MNIT Jaipur for 2023

**HONOURS**

1. Member, Six Member National Executive Committee of Pradhan Mantri Gram Sadak Yojna (PMGSY), 2003 onwards.
2. Member, Board of Studies, HBTI, Kanpur, 2016-18
3. Member, Board of Studies, NIT Uttarakhand 2016-18
4. Member, Rural Roads Committee H-5, Indian Roads Congress, New Delhi. (1999 -2023)
5. Member, Research Council, Pradhan Mantri Gram Sadak Yojna at national level, 2003 onwards
6. Member, State Level Standing Committee for Pradhan Mantri Gram Sadak Yojna, Uttaranchal, 2004 onwards
7. Secretary, Department Professorial Committee (DPC) of Civil Engg Deptt, IITR, 2008-2010.
8. Chairman, Library Advisory Committee, M G Central Library, IITR, Jan 2013 -2016.
9. **Fourth Rank among Top 100 IIT Professors in India in 2016 based on Research papers Published in India as per Confideration of Indian Industry (CII).**
10. **President of India Nominee (Visitor’s Nominee) for Civil Engineering Departmentof IIT Delhi, 2016-19, IIT Madras 2017-21, IIT Jodhpur 2018-21, Court of Banaras Hindu University, 2017-19, all NITs, 2018-25 and IIT Bhubneshwar 2022-25, IIT Hyderabad 2022-25, All IITs and all NITs 2024 onwards**
11. Member, HRB Core Group, Indian Roads Congress 2017-19.
12. Member, Flexible Pavements &Airfield Runways Committee H-2, Indian Roads Congress, New Delhi. (2018-23)
13. Member, HSS Committee: Highways Specifications & Standards Committee, Indian Roads Congress, New Delhi. (2021-23)
14. Member, HRB - Identification, Monitoring and Research Application (IMRA) Committee, Indian Roads Congress, New Delhi. (2021-23)
15. **Member of Board of Governors (BoG) of IIT-BHU as Council Nominee of MHRD. (2018-25)**
16. Co-Convener/Secretary, Standing Committee of NIT Council, 2019-20.
17. Member, National Subject Advisory Committee (NSEAC) for Unnat Bharat Abhiyan Oct 2020 to Oct 2022.
18. UGC Nominee on the Governing Body of Vasavi College of Engineering, Hyderabad. (2021-2026)
19. UGC Nominee on the Governing Body of Shri Shankaracharya Technical Campus, Bhilai (Chhattisgarh) (2021-2026).
20. AICTE Nominee for Selection Committees of HBTU, 2023 Oct onwards
21. Member, Building and Works Committee, NCERT, for 3 years wef Oct 10, 2024
22. Member, Committee of Expert Committee for Revision of Operation Manual PMGSY by NRIDA, 2024
23. Member, Committee of Experts in PMGSY works for preparation of PMGSY-IV Guidelines
24. Convener, Rural Roads Committee, H-5, Indian Roads Congress for 2025-27
25. Chairman, National Advisory Committee for PMGSY, 2025 onwards.
26. Co-Convener, Accreditation Committee of IRC, 2025 onwards

**SOCIAL RESPONSIBILITIES**

1. Secretary, Bharat Vikas Parishad, Noida, 1995-96
2. State Coordinator, Bharat Ko Jano, Bharat Vikas Parishad, Western Uttar Pradesh, 1996-98
3. State Coordinator, Bharat Ko Jano, Bharat Vikas Parishad, Uttarakhand, 2002-04
4. President, Saraswati Mandir Samiti, IIT Roorkee, 2012-2014
5. President, Bharat Vikas Parishad, Roorkee, 2016-17
6. Member, Prant Sampark Toli of RSS

## MEMBERSHIP OF PROFESSIONAL BODIES

1. Indian Roads Congress (Life Member)
2. The Institution of Engineers (India)-Fellow
3. Indian Geotechnical Society-Fellow (LF-0632)
4. Indian Society for Continuing Engineering Education
5. The Institute of Urban Transport.
6. Vigyan Bharti
7. Life member, Transportation Research Group

**SOFTWARE DEVELOPMENT**

1. Facility Based Rural Road Network Design
2. Overlay Design of Flexible Pavements
3. Intelligent Transport System
4. Flexible Pavement Design
5. All or Nothing Method for Route Choice
6. Toll Booth
7. Trip Distribution
8. Incident Management
9. Capacity Restrained Method for Route Choice
10. Traveler Information System
11. GIS Based Rural Road Planning
12. PMGSY
13. Multipath Assignment Technique
14. Advanced Traveller Information System

**TRAINING COURSE AS PRINCIPAL COURSE COORDINATOR**

1. Organised a Two week Q. I. P. COURSE on “Planning, Design, Construction of Rural Roads” at University of Roorkee, June 15-29, 1999
2. Organised an One week Training Course on “Construction of Roads Under Pradhan Mantri Gram Sadak Yojna (PMGSY) for RES Engineers” July 5-11, 2002.
3. Organised a 5 days Training Course on “Roads For World Bank Aided Projects” for PWD Engineer, Jan 7-11, 2003.
4. Organised an One week Training Course on “Roads Under Pradhan Mantri Gram Sadak Yojna (PMGSY) for RES Engineers” Jan27-Feb 01, 2003.
5. Organised an One week Training Course on “Rural Roads Construction under Pradhan Mantri Gram sadak Yojna (PMGSY) for RES Engineers” May 26-30, 2003
6. Organised an One week Training Course on “Rural Roads Construction under Pradhan Mantri Gram Sadak Yojna (PMGSY) for RES Engineers” June 9-13, 2003
7. Organised a three days training course on “Construction for Pradhan Mantri Gram Sadak Yojna (PMGSY) for Executive Engineers of PWD and RES sponsored by NRRDA” Dec 11-13, 2003
8. Organised a Five days Training Course on “Rural Roads Construction under Pradhan Mantri Gram Sadak Yojna (PMGSY) for RES Engineers” Dec 23-27, 2003
9. Organised a Three days Training Course on “Rural Roads Construction under Pradhan Mantri Gram Sadak Yojna (PMGSY) for RES Engineers” Feb 4-6, 2004.
10. Organised a Three days Training Course on “Rural Roads Construction under Pradhan Mantri Gram Sadak Yojna (PMGSY) for RES Engineers” June1-3, 2004.
11. Organised a Three days Training Course on “Rural Roads Construction under Pradhan Mantri Gram Sadak Yojna (PMGSY) for RES Engineers” July 1-3, 2004.
12. Organised a Three days Training Course on “Rural Roads Construction under Pradhan Mantri Gram Sadak Yojna (PMGSY) for RES Engineers” Nov 15-17, 2004.
13. Organised a Three days Training Course on “Rural Roads Construction under Pradhan Mantri Gram Sadak Yojna (PMGSY) for RES Engineers” March 21-23, 2005.
14. Organised a Three days Training Course on “Rural Roads Construction under Pradhan Mantri Gram Sadak Yojna (PMGSY) for URRDA Engineers” Aug 4-6, 2005.
15. Organised a Three days Training Course on “Rural Roads Construction under Pradhan Mantri Gram Sadak Yojna (PMGSY) for RES Engineers” April 5-7, 2006.
16. Organised a Three days Training Course on “Rural Roads Construction under Pradhan Mantri Gram Sadak Yojna (PMGSY) for URRDA Engineers” July 21-23, 2006.
17. Organised a Three days Training Course on “Rural Roads Construction under Pradhan Mantri Gram Sadak Yojna (PMGSY) for RES Engineers” Sept 14-16, 2006.
18. Organised a Five days Q. I. P. Course on “Planning, Design, Construction and Maintenance of Rural Roads for PMGSY” Feb 10-14, 2007
19. Organised a Five Days Q.I.P.Course on “Urban Transportation Planning” on June 24-28, 2007.
20. Organised a Five Days Training Course on Rural Roads Construction and Other Works under NABARD for their Officers, at Lucknow on Sept 6-10, 2007 .
21. Organised a Five Days Training Course on Rural Roads Construction and Other Works under NABARD for their Officers, at Lucknow on Nov 21-26, 2007 .
22. Organised a Five Days Training Course on Rural Roads Construction and Other Works under NABARD for their Officers, at Lucknow on Sept 2-8, 2008.
23. Organised a Five Day Training Course on Hydraulics and Rural Roads under National Rural Employment Guarantee Act sponsored by Madhya Pradesh Employment Guarantee Council, Bhopal, on Sept 15-19, 2008.
24. Organised a Five Day Training Course on Hydraulics and Rural Roads under National Rural Employment Guarantee Act sponsored by Madhya Pradesh Employment Guarantee Council, Bhopal, on Dec 15-19, 2008.
25. Organised a Five Day Training Course on Hydraulics and Rural Roads under National Rural Employment Guarantee Act sponsored by Madhya Pradesh Employment Guarantee Council, Bhopal, on Jan 5-9, 2009.
26. Organised a Three days Training Course on “Rural Roads Construction under Pradhan Mantri Gram Sadak Yojna (PMGSY) and CC Raod Construction under Ambedkar Gram Yojna for RES Engineers” Jan 21-23, 2011.
27. Organised a Three days Training Course on “Rural Roads Construction under Pradhan Mantri Gram Sadak Yojna (PMGSY) and CC Raod Construction under Ambedkar Gram Yojna for RES Engineers” March 22-24, 2011.
28. Organised a Three days Training Course on “Rural Roads Construction under Pradhan Mantri Gram Sadak Yojna (PMGSY) and CC Raod Construction under Ambedkar Gram Yojna for RES Engineers” April 22-24, 2011.
29. Organised a Five Days Training Course on “Survey, Investigation and Pavement Design” sponsored by Road Construction Department, Bihar at IITR on Feb 25 to March 1, 2013.
30. Organized a Five Days Training Course on “Survey, Investigation and Design of Bridges” sponsored by Road Construction Department, Bihar at IITR on March11 to March 15, 2013.
31. Organised a Three days Training Course on “Rural Roads Construction under Pradhan Mantri Gram Sadak Yojna (PMGSY) for RED Engineers” Sept 7-9, 2013.
32. Organised a Three days Training Course on “Rural Roads Construction under Pradhan Mantri Gram Sadak Yojna (PMGSY) for RED Engineers” Oct 3-5, 2013.
33. Organised a Three days Training Course on “Rural Roads Construction under Pradhan Mantri Gram Sadak Yojna (PMGSY) for RED Engineers” Oct 24-26, 2013.
34. Organised a Three days Training Course on “Rural Roads Construction under Pradhan Mantri Gram Sadak Yojna (PMGSY) for RED Engineers” Nov 27-29, 2013.
35. Organised a Three days Training Course on “PMGSY-II alongwith Earthquake Resistant Structures for RED Engineers” July 24-26, 2014.
36. Organised a Three days Training Course on “PMGSY-II alongwith Earthquake Resistant Structures for RED Engineers” Aug 21-23, 2014.
37. Organised a Three days Training Course on “PMGSY-II alongwith Earthquake Resistant Structures for RED Engineers” Sept 11-13, 2014.
38. Organised a Three days Training Course on “PMGSY-II alongwith Earthquake Resistant Structures for RED Engineers” Oct 16-18, 2014.
39. Organised a Three days Training Course on “PMGSY Roads alongwith Earthquake Resistant Structures for RED Engineers” May 16-18, 2017.
40. Organised a Three days Training Course on “New Technologies in PMGSY for RED Engineers” Jan 23-25, 2018.
41. Organised a Three days Training Course on “New Technologies under PMGSY for RED Engineers” May 19-21, 2022.
42. Organised a Seven days Training Course on “Total Quality Management including Quality Control Tests for MoRTH Engineers” Oct 31 to Nov 6, 2022.
43. Organised a Three days Training Course on “New Technologies including FDR for RED Engineers” June 1-3, 2023.
44. Organised a Three days Training Course on “New Technologies including FDR for RED Engineers” July 3-5, 2023.
45. Organised a Three days Training Course on “New Technologies including FDR for RED Engineers” Feb 19-21, 2024.
46. Organised a Three days Training Course on “New Technologies including FDR for RED Engineers” June 17-19, 2024.

About 1300 Field Engineers/Teachers have attended these courses.

Apart from this, delivered lectures in various other 30courses organized by NITHE, NABARD, NRRDA, IITs and other organisations.

**SEMINAR/WORKSHOP ORGANISATION (as Chairman /Organising Secretary)**

1. Organising Secretary, Seminar on “Technical Reforms in Technical Education” on March 26-27, 2001 sponsored by Govt of India attended by about 110 delegates from different parts of the country including Directors of National Laborataries/ Engineering Colleges.
2. Organising Secretary, Workshop on Project Formulation and Quality Monitoring under Pradhan Mantri Gram Sadak Yojna, on September, 2, 2005, sponsored by National Rural Roads Development Agency, Ministry of Rural Development, Govt of India, attended by 50 delegates including 5 IAS officers, Chief Engineers of Various States, Directors and Professors of various Engineering Colleges.
3. Chairman, 59th ILA International Conference on Managing Libraries in the Changing Information World: From Surviving to Thriving, Feb 22-24, 2014, attended by Foreign delegates and Indian delegates.
4. Organising Secretary, National Conference on “Fifteen Years of PMGSY” organized at IIT Roorkee, sponsored by National Rural Roads Development Agency (NRRDA), Ministry of Rural Development, Govt. of India, on Aug 6-7, 2016, attended by 150 delegates including Shri Ram Kripal Yadav, Minister of State for Rural Development, Govt. of India,, Shri Ramesh Pokhariyal Nishank, Ex Chief Minister, Uttarakhand, Shri Rajesh Bhusan, IAS and Director General, NRRDA, Chief Engineers of Various States, Directors of various research and academic organisations, Faculty Members from IITs, NITs and other engineering Colleges.
5. Supported Task Force Committee Meeting for Development of Indian Highway Capacity Manual (Indo-HCM) at IIT Roorkee on Sept 9-10, 2016 as Coordinator, Transportation Engineering Group, Civil Engineering Department, IIT Roorkee.
6. Organising Secretary, “National Conference on Roads and Transport (NCORT-2017), on completion of 170 years of Civil Engineering Education at IIT Roorkee held on October 14-15, 2017 sponsored by National Rural Roads Development Agency, Ministry of Rural Development, Govt of India, It was attended by Mr Manoj Kumar, Director General (Roads), Ministry of Roads and Transport, Govt. of India, Mr S K Nirmal, Secretary General, IRC, Dr D S Rawat, Minister for Higher Education, Govt. of Uttarakhand, Prof R J Furlonge from West Indies, Dr I K Pateriya, Director, NRRDA, Mr Uttam Kumar, Director, NRRDA, Prof Satish Chandra, Director, CRRI and about 200 delegates.

**Appendix**

**patents**

1. Ayush Kumar Agrawal, Praveen Kumar, Harish Kumar and Manisha Bharti, Design for Battery Operated Ventilator System, Patent No. 401739 wef May 27, 2020, IPR, Gov of India.
2. Ankit Sharma, G D Ransinchung R N, Praveen Kumar, A Method for Determination of Performance Grade of Unmodified Asphalt Binder Using Rheometer, Patent No. 463154 wef July 27, 2022, IPR, Gov of India.
3. Deb Soumyadeep, Kumar Praveen and Saboo Nikhil, Apparatus and Method for Producing Recycled Waste Plastic Modified Bitumen, Patent No. 567604 wef Feb 7, 2024, IPR, Govt of India

**Research Papers Published in National/International Journals**

1. Gupta A.K., Jain S. S. and Kumar Praveen, The Effect of External Atmospheric Conditions on Speed of Road- Vehicles, Journal of The Institution of Engineers (India), Vol. 73, No.2, Aug. 1992 pp. 31 - 34.
2. Gupta, A.K. and Kumar Praveen , Development of Roads and Road Based Traffic in India, Journal of the Institution of Engineers (India), Vol.74, Sept. 1993 pp. 28-32.
3. Gupta A.K., Khanna S.K. and Kumar Praveen, Route Choice Analysis on an Identified Rural Corridor, Indian Highways, Vol.21, No.11, Nov. 1993, pp.5 -12.
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3. Priti Rai, Praveen Kumar, Nikhil Saboo, “Feasibility of Mustard Oil (MO) in Rejuvenating Aged Polymer Modified Binder (PMB)”, 15th International Conference on “Transportation Planning & Implementation Methodologies for Developing Countries (TPMDC) 2024.
4. Priti Rai, Praveen Kumar, Nikhil Saboo, “Assessing repeated recycling capacity of 100% RAPM binder using mustard oil”, AM3P 2025, Vienna, Austria. [**https://doi.org/10.34726/9259**](https://doi.org/10.34726/9259)
5. Ankit Sharma, Gondaimei Ransinchung Rongmei Naga, Praveen Kumar, Amar Kumar Sri Naga Venkata Duggi, Jahnvi Sharma, "A Systematic Approach to Identifying and Verifying the Optimal Rejuvenator Dose in Hot Mix Asphalt Recycling," Poster Presentation in *Towards More Sustainable Asphalt Pavements* on 6th January 2025, *Transportation Research Board (TRB) Annual Meeting 2025*, 05-09 January 2025, Washington D.C., USA.
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7. Mohanshu Bhardwaj, Praveen Kumar and Nikhil Saboo (2025) “Redefining HiMA: an approach to performance-based characterization” Advances in Materials and Pavement Performance Prediction (AM3P 2025) DOI: [**https://doi.org/10.34726/9259**](https://doi.org/10.34726/9259)
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10. Soumyadeep Deb, Praveen Kumar, Nikhil Saboo, “Production of recycled plastic modified bitumen- Effect of base bitumen”, AM3P-2025, Vienna, Austria.
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12. Priti Rai, Praveen Kumar, Nikhil Saboo, “Rheological behaviour of asphalt blends during re-recycling process”, TIPCE 2025, IIT Roorkee, India. **(Accepted).**
13. Priti Rai, Praveen Kumar, Nikhil Saboo, “Rejuvenation of Aged Polymer-Modified Asphalt Binder for Sustainable Recycling”, CTRG 2025, IIT Guwahati, India. **(Accepted).**

### DETAILS OF THESES SUPERVISED

1. **Ph.D.Theses at IIT Roorkee**

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| SN | TITLE OF THESIS | YEAR AWARDED | NAME OF STUDENT | Co-SUPERVISOR |
| 1. | Development of Design Procedure for Reinforced Flexible Pavement | 2005 | Mr Moustafa Ahmed Kamel Abdel Ghaffar | Dr Satish Chandra |
| 2. | Rheological Behaviour of Bituminous Binders FOR Indian Conditions | 2007 | Mr K.Lakshman Singh | Prof H.C.Mehndiratta |
| 3. | Reinforced Flyash in Rural Road sub-bases | 2007 | Mr Shailendra Pratap Singh | - |
| 4. | Methodology for Advanced Traveller Information System for Developing Countries | 2007 | Mr Varun Singh | - |
| 5. | Study of Sub-base Materials in Rural Roads | 2009 | Mr Abdhesh Kumar Sinha | Dr Satish Chandra |
| 6. | Web GIS based Advanced Public Transport System Using Mapserver and Ant Algorithm | 2012 | Mr Sanjeev Suman | - |
| 7. | Structural and Functional Performance Modeling of Low Volume Roads | 2012 | Mr Ankit Gupta | Dr Rajat Rastogi |
| 8. | Strength Characteristics of Modified Bitumen with various Aggregates | 2013 | Mr Maninder Singh | Dr M R Maurya |
| 9. | Utilization of Waste Materials in Subgrade of Pavement | 2014 | Mr Aditya Kumar Anupam | Dr G D Ransinchung R N |
| 10 | Use of Wollastonite Micro-Fiber in Rehabilitation of PQC Roads | 2015 | Mr Shashikant Sharma | Dr G D Ransinchung R N |
| 11 | Strength Characteristics of Polymer Modified Asphalt Binders and Mixes | 2016 | Mr Nikhil Saboo | - |
| 12 | Development of Warm Stone Matrix Asphalt | 2017 | Mr Rajiv Kumar | Prof Satish Chandra |
| 13 | Nonlinear Viscoelastic Analysis of Un-aged and Aged Asphalt Binders | 2018 | Mr Bhupendra Singh | - |
| 14 | Development of ITS Architecture for Multi Modal System | 2018 | Miss Shambavi Mishra | - |
| 15 | Effect of Molecular Structure and Concentration of SBS Polymer on the Performance Properties of Modified Asphalt Binder | 2022 | Mr Yogesh Kumar | Dr Sham S Ravindranath  (DPT) |
| 16 | Development of PQC Mix for Sustainable Concrete Pavement incorporating Non Conventional Materials. | 2022 | Mr Surendra Kumar Saini | Dr G D Ransinchung R N |
| 17 | Evaluation of Aged Bituminous Paving Mixtures Rejuvenated with Different Recycling Agents. | 2022 | Mr Ankit Sharma | Dr G D Ransinchung R N |
| 18 | Development of Interactive Traveller Information System | 2024 | Mr Gurmesh | Prof M Parida |
| 19 | Development of Temperature Prediction Model For Flexible Pavements | 2024 | Mr Ashish Walia | Prof Rajat Rastogi  Prof S S Jain |
| 20 | Modelling of Traffic Noise for Mid Block Locations in Urban Areas | 2024 | Mr Saurabh Upadhayay | Prof M Parida |
| 21 | Effects of Filler in Performance of Cold Mix for BM and DBM Courses. | 2024 | Ms Pinki Meena | Dr G D Ransinchung R N |
| 22 | Feasibility Study of Geopolymer Treated Base using Full Depth Reclamation Technique | In Progress | Mr Abhitesh Sachdeva | Dr G D Ransinchung R N |
| 23 | Rheological Studies of Re-recycling of RAP Material | In Progress | Ms Priti Roy (Priti Rai) | Dr Nikhil Saboo |
| 24 | Comparative Study on Cold Mix, Warm Mix and Hot Mix Asphalt by using Bamboo Fibre | In Progress | Mr Soumyadeep Deb | Dr Nikhil Saboo |
| 25 | Performance of Unbound Pavement Materials in Changing Moisture Conditions | In Progress | Mr Rami Khedar | Dr G D Ransinchung R N |
| 26 | Characterisation of Highly Modified Asphalt (HiMA) for Application in Tropical Climatic Conditions | In Progress | Mr Mohanshu Bhardwaj | Dr Nikhil Saboo |
| 27 | Development of Rutting and Material Characteristic Models for Unbound Layers in Flexible Pavement | In progress | Mr Sumit Kumar | Dr Nikhil Saboo |
| 28 | Functional and Structural Evaluation of Flexible Pavements using FWD | In Progress | Mr Madhur Saini | Dr Nikhil Saboo |
| 29 | Influence of Rejuvenator on the Performance of Warm Mix Asphalt with Reclaimed Asphalt Pavement | In Progress | Mr Saurabh Kumar Tiwari | Dr Rajiv Kumar, CRRI |
| 30 | To be Decided | In Progress | Mr Rajan Paileshbhai Tank | Dr G Bharath, CRRI |

1. **M.Tech. Theses**

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| --- | --- | --- | --- | --- |
| SN | TITLE OF THESIS | YEAR AWARDED | NAME OF STUDENT | Co-SUPERVISOR |
| 1. 1 | Maintenance Manage System for Rural Roads | 1994 | Mr Naseem Ahmed | Dr Ashok Kumar |
|  | Computer Aided Design of Flexible Pavement Overlays | 1999 | Mr Raveendra Kumar | Dr Satish Chandra |
|  | Laboratory Studies for Use Steel Industry Waste in Bituminous Layer of Pavement | 2000 | Mr Lalit Narayan Singh | Dr S.S.Jain |
|  | Development of an Approach for Intelligent transport System for Urban Areas | 2000 | Mr Pankaj Singh | Dr S.S.Jain |
|  | Effect of Delayed Compaction on Lime-Flyash-Soil Mixes | 2000 | Mr Rajib Gogoi | Dr H.C. Mehndiratta |
|  | Loadman and Benkelman Beam Deflection Studies on Identified Road Sections | 2000 | Lt.Col.N.K.Sharma | Dr S.S.Jain |
|  | Design of Highway Embankments using Flyash in Alternate Layers | 2001 | Mr Karri Sriniwas Rao | Dr H.C. Mehndiratta |
|  | Parametric Studies on Flexible Pavement Reinforced with Jute | 2001 | Mr M.V.Maruthi Sreedhar | Dr H.C. Mehndiratta |
|  | Strength Characteristics of Bituminous Concrete with different types of Filler | 2001 | Mr Berhanu Abesha Feyissa | Dr Satish Chandra |
|  | Development of Relationship Between Skid Resistance and Pavement Materials | 2001 | Mr Mukesh Kumar | Dr S.S.Jain |
|  | Incident management Using Intelligent Transport System | 2001 | Mr Poosarla Eswar Rama Kumar | Dr S.S.Jain |
|  | Facility Based Network Planning of Rural Roads Using GIS | 2001 | Mr Marem Sudhakar | Dr Manoj Arora |
|  | Computer Aided Design of Bituminous Mixes for Pavements | 2001 | Mr. Akhilesh Kumar Maurya | Dr Satish Chandra |
|  | Development of Software for trip Assignment in Urban Areas | 2002 | Maj. N.S.Bains | Dr Manoj Arora |
|  | A Parametric Study on Reinforced Flyash in Highway Embankments | 2002 | Mr. Siddhartha Rokade | Dr H.C. Mehndiratta |
|  | A Comparative Study on Flexible Pavements Reinforced with Coir/synthetic Geotextiles | 2002 | Miss Telukuntla Padma | Dr H.C. Mehndiratta |
|  | Computer Aided design of Pavement Based on IRC: 37-2001 | 2002 | Mr Sataya Narayain | Dr Satish Chandra |
|  | Development of Graphical Interface for Rural Road Accessibility Planning | 2002 | Mr Varun Singh | Dr Satish Chandra |
|  | Development of Intelligent Transport System in GIS Environment | 2002 | Mr Dhanunjay Reddy | - |
|  | Development of a Software for Rural Road Connectivity under PMGSY | 2002 | Mr Umesh Chandra Sahoo | - |
|  | An Analytical Study on Effect of Regional variations on Cost of Rural Roads under PMGSY | 2003 | Mr Anant Kumar | Dr H.C. Mehndiratta |
|  | A Study on Plastic Sheet Reinforced Flyash Embankments | 2003 | Mr A.K.Durgarao | Dr H.C. Mehndiratta |
|  | Resilience Modulus of Reinforced Subgrade Soils | 2003 | Mr K.Sriniwas Rao | Dr Satish Chandra |
|  | Development of Software for Route Assignment using Multipath Technique | 2003 | Mr. Ujjal Chatraj | Dr Satish Chandra |
|  | Intelligent transport System for Delhi Metro Railway | 2003 | Mr Sunil Kumar | - |
|  | Effect of Randomly Distributed Fibers on Fly Ash Embankments | 2004 | Mr Sejla Chandra Narayan | Dr H.C. Mehndiratta |
|  | Comparative Study on Different Subbase Materials | 2004 | Mr R.Vishal | Dr Satish Chandra |
|  | Multi modal Advanced Travelers’ Information System for Delhi Metro | 2004 | Mr K.N.S.S. Yoganand | Mr Atul Agrawal |
|  | Effect of Mixing and Compacting Temperature on Physical Properties of Bituminous Mixes | 2004 | Mr Chandra Kiran Kumar Akisetty | Dr H.C. Mehndiratta |
|  | Investigations on Cost Effective Design of Roads under PMGSY | 2004 | Mr Ramaa Kumar Velicherla | Dr H.C. Mehndiratta |
|  | Relationship between Rheological and Conventional Properties of Bitumen | 2004 | Mr Anil Durga Prasad B. | Dr H.C. Mehndiratta |
|  | Use of Fly Ash as Filler in Bituminous Mixes | 2005 | Mr Virendra Singh | Dr H.C. Mehndiratta |
|  | Advanced Traveler Information System for a MetropolitanCity | 2005 | Mr A Venkateswarlu | - |
|  | Investigation on Optimal Use of Gravel in Flexible Pavements | 2005 | Mr Sateesh Kumar M. | Dr H.C. Mehndiratta |
|  | Rural Infrastructure Planning with Emphasis on Road Networks | 2005 | Mr T.V.Ramakanth Jami | Prof Nalini Singh |
|  | Software for Pradhan Mantri Gram Sadak Yojna | 2005 | Mr Mahendra Kumar Lal | - |
|  | Planning of Rural Roads in GIS Environment | 2006 | Mr Anukul Saxena | - |
|  | Use of Glass Grid in Pavement Layers | 2006 | Mr R.Dilip Kumar Reddy | Dr H.C. Mehndiratta |
|  | A Parametric Study on Shape of Aggregates Affecting Bituminous Surface of Flexible Pavements | 2006 | Mr Matin Ahmed | Dr H.C. Mehndiratta |
|  | Investigation on Fibre Modified Bituminous Mixes | 2006 | Mr Satish Immadi | Dr H.C. Mehndiratta |
|  | Effect of Jute Textile in Various Layers of Pavement | 2006 | Mr G.R.Toshniwal | Dr H.C. Mehndiratta |
|  | Software Development for Multipath Route Assignment Technique | 2006 | Mr Ranjeet Kumar | - |
|  | Development of Software for Trip Distribution using gravity Method | 2006 | Miss Renu Vaska | - |
|  | A Comparative Study of Emulsion and Modified Bitumen in Road Construction | 2007 | Mr N.G.Sorum | - |
|  | Use of Waste Plastic in Bituminous Layer of Pavement | 2007 | Mr Pankaj Gupta | - |
|  | Performance Study of PMGSY Roads | 2007 | Mr M.D.A.Sajid | Dr Satish Chandra |
|  | Investigation of Reinforced Embankments | 2007 | Mr M.Ramanjaneya Reddy | - |
|  | Behaviour of Granular Materials Under Cycling Loading | 2007 | Mr S.R.Rajendra Nimani | Dr Satish Chandra |
|  | Software for Online Monitoring of Pradhan Mantri Gram Sadak Yojna | 2007 | Mr Gajendra Kumar Varshney | - |
|  | Rheology of Waste Plastic Fiber Modified Bitumen | 2008 | Miss Rashi Garg | - |
|  | Effect of Various Parameters on Performance of PMGSY Roads | 2008 | Mr Patel Vishal P. | - |
|  | Laboratory Study of Low Cost Bituminous Wearing Courses | 2008 | Mr Nikesh Chandra | - |
|  | Land-uses and activity-based traffic forecasting model | 2009 | Mr Akash Jain | Dr Rajat Rastogi |
|  | Planning of Rural Roads using GIS and GPS | 2009 | Mr A.S.Subramanyam | Dr R.D.Garg  Dr B Kanagadurai |
|  | Lab study on Chemical and Rheological Changes in Modified Bitumens | 2009 | Lt. Col. Manoj Gupta | Dr M.R.Maurya |
|  | Development of ITS using GPS | 2009 | Mr Rishi Kesh Meena | - |
|  | Laboratory Study on Permeability of Different Sub-base and Base Courses | 2010 | Mr Akhil Bhutani | - |
|  | Laboratory Study on Equivalency Factors for different Sub-base and base Courses | 2010 | Mr Shashi Kant Sharma | - |
|  | Laboratory Study on Moisture Susceptibility of Various Bituminous Courses | 2010 | Maj Praveen Anand | - |
|  | A laboratory Study on Mastic Asphalt | 2011 | Col. Shiv Kumar | - |
|  | Incident Management System in GIS Environment for ChandigarhCity | 2011 | Mr Raj Kumar Nagarwal | - |
|  | Development of Deterioration Model using ANN | 2011 | Mr Siddhartha Upadhayay | Dr J K Ghosh |
|  | Self Consolidating Concrete containing Wollastonite Microfiber for repair of PQC | 2012 | Mr Abhishek Jindal | Dr G D Ransinchung R N |
|  | Influence of Moisture States of Recycled Aggregates in PQC | 2012 | Mr Arun P Chauhan | Dr G D Ransinchung R N |
|  | A Rheological Study on Modified Binders | 2012 | Mr Mohd. Tanveer Khan | - |
|  | Comparative Study on Organic and Inorganic Waste Material Reinforcement in Non-bituminous Layers | 2012 | Miss Pooja Sharma | Dr G D Ransinchung R N |
|  | Moisture Damage Study in Close Graded and Open Graded Bituminous Mixes | 2012 | Mr Sharad Kumar | Dr G D Ransinchung R N |
|  | Geometric Design for Rural Roads Using MXROAD Software | 2013 | Mr Sandeep Batar | Dr G D Ransinchung R N |
|  | A Laboratory Study on Short Term and Long Term Ageing of Bitumen Using Modifiers | 2013 | Miss Shambhavi Mishra | - |
|  | A Comparataive Laboratory Study on Permeability of Sub-base Materials using Various Chemical Additives and Fibers | 2013 | Mr Dharam Pal Singh | Dr G D Ransinchung R N |
|  | Performance Evaluation of Silty Soil Subgrade Reinforced with Pine Needle and Flyash | 2013 | Mr Amit Kumar Bera | Dr G D Ransinchung R N |
|  | Influence of Recycled Coarse and Fine Aggregate on the Performance of Dense Graded Bituminous Macadam Mixtures | 2013 | Mr Supriya Marik | Dr G D Ransinchung R N |
|  | Effect of Wax Content on Binder and Rutting Performance of Bituminous Concrete-A Laboratory Study | 2014 | Maj Devendra Mishra | Dr G D Ransinchung R N |
|  | Study on Performance of Bituminous Mixes using FWD | 2014 | Lt. Col. Mayank Mehta | Dr G D Ransinchung R N |
|  | A Study on Rheology of Multiple Bitumen Modifiers | 2014 | Miss Radhika | - |
|  | Development of Master Curves for Finding Mixing and Compacting Temperatures by Different Methods | 2014 | Mr Ankit Verma | - |
|  | Performance Evaluation of Roads using FWD | 2015 | Shobhit Tiwari | - |
|  | Performance of Bituminous Mixes using Modified Binders | 2015 | Bhaskar Pratim Das | Dr G D Ransinchung R N |
|  | Pore Structure and Permeability of Concrete Containing Recycled Concrete Aggregate | 2015 | Gyandeep Bhumarkar | Dr G D Ransinchung R N |
|  | Identification of Road Surface Defects using Geomatics Techniques | 2015 | Animesh Singh | Dr R D Garg |
|  | A Study on Visco-elastic Properties of Modified Bitumen in Non-Linear Region | 2016 | Nigil M | - |
|  | Durability and Performance Characteristics of DBM with Warm Mix Additives | 2016 | Roopak Jain | Dr Satish Chandra |
|  | Characteristics of Stone Mix Asphalt using Warm Mix Addditive | 2016 | Shashank Singh Chauhan | Dr Satish Chandra |
|  | Coir Reinforcement in Non-bituminous Layers of Pavement | 2017 | Anshul Ojha | - |
|  | Development of Incident Management System for a Planned City | 2017 | Gurmesh | - |
|  | Effect of Seasonal Variation on FWD Results | 2017 | Aditya Chaudhry | - |
|  | Use of Zycosoil in Modification of Bitumen | 2017 | Ankit Verma | - |
|  | Effect of Plastic Modification on Fatigue and Rutting  Characteristics | 2018 | Ravendra Singh | - |
|  | Effect of Carbon Black on Ageing of Bitumen | 2018 | Miss Malvee Singla | - |
|  | Development of Advanced Traveller Information System using Ant Algorithm | 2018 | Miss Nidhi Chaudhry | - |
|  | Use of Bitumen Emulsion in WMM Layer of Flexible Pavement | 2019 | Sandeep Chausali | Dr G D Ransinchung R N |
|  | A Study on Warm Mix Additives | 2021 | Dheeraj Adwani | Dr G D Ransinchung R N |
|  | Evaluation of Sasobit Modified Recycled Asphalt Pavement | 2022 | Mukesh Seervi | Dr Nikhil Saboo |
|  | Use of Waste Plastic in Asphalt Mixture | 2023 | Rajesh Kr Chaudhary | Dr Nikhil Saboo |
|  | Use of Waste Engine Oil for Rejuvenation of Aged Asphalt Binder | 2023 | Bikash Thakur | Dr Nikhil Saboo |
|  | Effect of Waste Plastic incorporated through Dry Process on the Mechanical properties of Asphalt Mixtures | 2024 | Tara Nath Sharma | Dr Nikhil Saboo |
|  |  | 2026 | Chetan Singh Rathore |  |

**( C) M.Tech. Project**

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| --- | --- | --- | --- |
| SN | TITLE OF PROJECT | YEAR AWARDED | NAME OF STUDENT |
|  | Software for Route Assignment using Moore’s Algorithm | 2000 | Mr A K Maurya |
|  | Software for Trip Distribution Based on Furness Method | 2001 | Mr A K Niranjan |
|  | Software for Trip Distribution based Gravity Model | 2001 | Mr Satya Narayain |
|  | A Study on Roorkee Bypass Route Choice | 2002 | Mr Jitendra Kumar Yadav |
|  | Software for Rigid Pavement Design | 2002 | Mr Ujjal Chataraj |
|  | Relationship between Softening Point, Penetration Value and Ductility | 2002 | Mr K Sriniwas Rao |
|  | Software for Horizontal Alignment and Vertical Alignment of Highway Geometric Design | 2002 | Mr Amit Verma |
|  | Software for Trip Generation using Cross Classification Technique | 2002 | Mr Yoganand Jetti |
|  | Effect of Compacting Effort and Curing Period on CBR Values | 2003 | Mr Anil Durga Prasad |
|  | Lab Study on Rheological Study of Bitumen | 2003 | Mr R. Vishal |
|  | Cold Mixes using Bituminous Emulsion | 2004 | Mr Satish Kumar M. |
|  | Computer Aided Design of Toll Booth | 2004 | Mr Venkateshwar Avaari |
|  | Trip Distribution Forcasting Using Growth Factor Method | 2005 | Mr Mahendra Kumar Lal |
|  | Variation in Test Values of Bitumen with Temperature | 2005 | Mr Yajuvendra Singh Rajpurohit |
|  | Lab Study on Various Modified Binders | 2005 | Mr Matin Ahmed |
|  | Behaviour of Soil under Normal and Modified CBR Tests | 2005 | Mr Abhishek J Agrawal |
|  | Rheometric Study on Lime Flyash Modified Bitumen | 2006 | Mr Ranga Swami Sirigiri |
|  | Average Increase in Volume and Cost of PMGSY Roads | 2006 | Mr Pankaj Gupta |
|  | Software for Mix Design | 2006 | Mr Gajendra Kumar Varshney |
|  | Effects of CBR, Traffic and Quarry Distance on Cost of PMGSY Roads | 2007 | Miss Averneni Deepti |
|  | Investigation on Properties of Non-Stirred CRMB | 2007 | Mr Kotkar Kishore Laxman |
|  | Effect of Admixtures on Soil Strength | 2007 | Mr Gaurav Pandey |
|  | Comparison of Long Term and Short Term Ageing Effect on Bitumen | 2008 | Mr Mukesh Kumar Jain |
|  | Effect of Delay in Compaction on Marshall Properties | 2008 | Mr Santosh Khushnure |
|  | Combined Effect of Fibre and Chemical Stabilizer on Subgrade Soil | 2008 | Maj Vishal Sharma |
|  | Computer Aided Design of Bituminous Mixes | 2008 | Mr Rishikesh Meena |
|  | Laboratory Study on Skid Resistance of Mastic Asphalt | 2009 | Maj Parveen Anand |
|  | Comparative Study of Ageing Effect on Various Bituminous Materials | 2009 | Mr More Prasad jagannath |
|  | Comparative Study of Emulsion and Bitumen | 2009 | Mr Narsimharao Veeravalli |
|  | Cold Mix Design of Bituminous Courses | 2010 | Mr Devendra Kumar |
|  | Field Data Collection for ATIS Studies | 2010 | Mr M Rajshekhar |
|  | A Laboratory Study on Rutting behaviour of bituminous mixes | 2010 | Mr V.G.Narayana |
|  | Application of ANN for Trip Generation | 2010 | Mr Siddhartha Upadhayay |
|  | A study on Compactive Energy in Marshall tests | 2011 | Mr Avinash S Rajpurohit |
|  | Comparative Study of Various Type of Commercial Stabilisers | 2011 | Mr Ganupalli S Rao |
|  | Comparative Study of Short Term and Long Term Ageing | 2011 | Mr Peelipuram Naveen Kumar |
|  | Development of Software for Marshall Method of Mix Design | 2012 | Mr Sandeep Batar |
|  | A Laboratory Study on Effect of Temperature on Rutting of Bituminous Courses | 2012 | Miss Shambhavi Mishra |
|  | A Laboratory Study on Various Fine Materials in WMM | 2012 | Mr Dharampal Singh Kandari |

**B.TECH PROJECT**

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| --- | --- | --- | --- | --- |
| SN | TITLE OF THESIS | YEAR AWARDED | NAME OF STUDENT | Co-SUPERVISOR |
| 1 | Design and Planning of Roorkee By-pass | 2001 | Full B Tech. Class | Guided as Deputy O C Project of Full Class |
| 2 | Planning, Design and Construction of Rural Roads | 2009 |  | - |
| 3 | Development of Advanced Traveler Information System | 2011 | Akhil Singh, Ankit Agrawal, Rohit Agrwal, Sumit Gupta | Dr R D Garg |
| 4. | Development of Advanced Traveler Information System for HaridwarCity | 2014 | Anubhav Kumar, Anupriya, Ashutosh Gaurav, Kriti Garg | Dr R D Garg |
| 5. | Development of Advanced Traveler Information System for DehradunCity | 2016 | Gulshan Dhannai & Group | - |
| 6. | Rheological Study on Modified Binder | 2016 | Himanshu Gupta & Group | - |
| 7. | A study of Haridwar Kumbh Mela | 2016 | Lovey Gupta & Group | - |
| 8. | Rehabilitation of Roorkee City | 2015 | Full B Tech IV year Class | Guided as Deputy OC Project |
| 9. | A Study on Effects of ‘PET’ as a Bitumen Modifier on Conventional and Rheological Properties of Bitumen | 2017 | Gaurav Singh, Prashant Kumar, Deepak Kumar Meena, Sadashiv Mishra | - |
| 10 | A Comparative Study on Dry and Wet Process of Mixing of Plastic in Bitumen | 2018 | Shubham Gupta, Vaibhal Jindal, Yogesh Sharma, Siddhartha Singh | - |
| 11 | Smart City of Dehradun | 2022 | Full B Tech Class | Project Incharge for Transportation Engineering |

**Ph.D. THESIS OF OTHER INSTITUTIONS EXAMINED**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SN | TITLE OF THESIS | YEAR | NAME OF STUDENT | SUPERVISOR AND INSTITUTION |
|  | Investigations on Pastes and Mortars of Cement partially replaced by Wollastonite and Microsilica | 2008 | Mr G D Ransinchung R N | Dr Brind Kumar, IIT-BHU, Varanasi |
|  | Traffic Models for Real Time Area Traffic Control Systems in Heterogeneous Traffic Conditions | 2009 | Mr Suresh P S | Prof K V Krishna Rao, IIT Bombay |
|  | An Investigation of Cell-Filled Pavement for Low Volume Roads | 2010 | Mr Subrat Roy | Prof K Sudhakar Reddy, IIT Kharagpur |
|  | Performance Evaluation of Low Volume Roads | 2010 | Mr Umesh Chandra Sahoo | Prof K Sudhakar Reddy, IIT Kharagpur |
|  | Study of Rigid pavements for Village Roads in Alluvial Regions | 2011 | Mr R K Srivastawa | Prof S K Duggal, MNIT, Allahabad |
|  | Pavement Deterioration Models for Low Volume Roads | 2012 | Mr S Shankar | Prof CSRK Prasad, NIT, Warangal |
|  | Landside Hazard Analysis and its Mitigation along National Highway-21 in the Mid Himalayan Zone of Himachal Pradesh, india | 2012 | Mr Bikram Singh Masouria | Dr Ravi Sharma, Dr Raman Parti, NIT Hamirpur |
|  | Design Consistency Evaluation of Rural Highways | 2013 | Ms Sowmya N J | Prof A U Ravishankar, NIT Surathkal |
|  | GIS Enabled Approach for Planning of Road Network for Iran | 2014 | Mr Abed Mohammadi | Prof K M Lakshmana Rao JNTU, Hyderabad |
|  | Quantification of Rural Accessibility and Development of a Need Based Approach for Rural Road Network Planning | 2015 | Ms K Shalini | Prof A K Sarkar  BITS Pilani |
|  | Evaluation of Activated Fly Ash Treated Reclaimed Asphalt Pavements for Sustainable Design of Base Courses. | 2016 | Ms Deepti Avirneni | Dr Sireesh Saride  IIT Hyderabad |
|  | Technical and Environmental Feasibility of the Use of Coal Bottom Ash as Mechanical Stabiliser in Subgrade Soil in Road Construction in Mauritius | 2016 | Mr Abdus Salaam Cadersa | University of Mauritus, Reduit, Mauritius |
|  | Geospacial Modelling an Analysis of Agri-Food Supply Chain Network | 2017 | Mr Vivek Kumar Purwar | Dr Varun Singh, MNIT Allahabad |
|  | Evaluation of Modified Binders and Mixes with warm Mix Asphalt (WMA) Additives | 2017 | Mr Ashok Juglanti | Dr Rajan Choudhry, IIT Guwahati |
|  | Evaluation of LVR using LWD | 2018 | Mr. Vinod Kumar Adigopula | Dr Rakesh Kumar  NIT Surat |
|  | Agent Based Geosimulation of Fire Emergency Response | 2018 | Mr Mainak Bandyopadhyay | Dr Varun Singh, MNIT Allahabad |
|  | Incorporating Sustainability in Investment Decision making for Infrastructure Projects | 2018 | Ms Angela Delia Reidy | Prof Arun Kumar  Queensland University of Technology, Australia |
|  | Behavior of Geosynthetic Inter-layered Asphalt Overlays | 2018 | Mr Vinay Kumar V | Dr Sireesh Saride  IIT Hyderabad |
|  | Strength Characteristics of Sand Mixed Randomly Distributed Fibers | 2018 | Mr Kuldeep Singh Kulhar | Prof M Raisinghani, Vivekanand Global University  Jaipur |
|  | Impact of Geometric Characteristics on Capacity of Hill Roads | 2018 | Mr Achyut Das | Prof K Ramachandra Rao  IIT Delhi |
|  | Investigation on Effectiveness of Warm Mix Asphalt Additives for Modified and Unmodified Asphalt Binders based on Rheological Performance Parameters | 2018 | Mr Aniket Vasant Rao Kataware | Prof Dharamveer Singh  IIT Bombay  (Thesis only) |
|  | Design and Performance of Open Graded Friction Course Mixes with Electric Arc Furnace Steel Slag | 2019 | Ms Madhu Lisha Pattnaik | Prof Rajan Choudhary  IIT Guwahati |
| 1. igue | Fatigue and Healing Characteristics of Asphalt Concrete Mixtures containing Relaimed Asphalt Pavement (RAP) Material | 2020 | Miss Mullapudi Ramya Sri | Prof Sudhakar Reddy, IIT Kharagpur |
|  | Applications of Rice Straw Ash in Rigid Pavements | 2020 | Mr Arunabh Pandey | Dr Brind Kumar  IIT-BHU |
|  | Development of Data Driven Decision Support System Approaches using Non Destructive Testing for enhancing pavement Management System | 2020 | Miss Vidhi Vyas | Pof A P Singh  BITS Pilani |
|  | Application of nanotechnology for Prevention of Moisture Damage of Flexible Pavements | 2020 | Mr Hillol Chakravarty | Prof Sanjeev Sinha, NIT Patna |
|  | Effect of Nano Materials on Strength and Durability Characteristics of High Volume Flyash Pavement Quality Concrete | 2020 | Mr Bimal Kumar | Prof Sanjeev Sinha, NIT Patna |
|  | Effective Use of Bio-Oil Obtained by Pyrolysis of Municipal Solid Waste in Flexible Pavement | 2020 | Mr Swanand B Kulkarni | Prof M S Ranadive, CoE, Pune |
|  | Mechanistic Empirical Approach to Design of Fiber Reinforced Bituminous Pavements | 2021 | Ms Shaina Hashim | Dr Asha Lata  University of Kerala Thiruvanathpuram |
|  | Experimental Investigation on the Performance of Asphalt Mixes Using Waste Materials | 2021 | Mr Vishnu T B | Dr Lakshman Singh, NIT Silchar |
|  | Performance Evaluation of Foam Bitumen Stabilization Using Warm RAP Material and Aggregates | 2021 | Mr.Fadamoro Oluwafemi Festus | Dr Devesh Tiwari  Dr Siksha Swaroopa Kar, CRRI, ACSIR |
|  | Decision Support System for Urban Pavement Maintenance Management | 2021 | Ms Rejani V. U. | Dr. Sunitha V., Dr. Samson Mathew, NIT Trichi |
|  | Evaluation of the Properties of Pyrolytic Char Modified Asphalt Binders and Mixtures | 2022 | Mr Abhinay Kumar | Dr Rajan Chaudhary, IIT Guwahati |
|  | Development of Rational Pavement Condition Index and Strategic Planning for Maintenance and Rehabilitation of Flexible Pavement | 2022 | Mr Rajnish Kumar | Dr Sanjeev Kumar Suman, NIT Patna |
|  | Technical, economic and environmental feasibility of the use of coal bottom ash as a mechanical stabiliser in subgrade soil in road construction in Mauritius". | 2022 | Mr Abdus Salaam Cadersa | Prof. T. Ramjeawon and Dr A. Chan Chim Yuk, University of Mauritius, Mauritius |
|  | Utilisation of Basic Oxygen Furnace Steel Industry Slag in Open Graded Asphalt Friction Course Mixes | 2022 | Mr Santanu Pathak | Dr Rajan Chaudhary, IIT Guwahati |
|  | “Prioritization of Low Volume Roads Using Analytical Hierarchy Process and VIKOR Methods for Pavement Management  System” | 2022 | Ms Vineesha Chundi | Dr Sridhar Raju, BITS Pilani Hyderabad Campus |
|  | Laboratory and Field Performance Evaluation of High Modulus Asphalt Mixes for High Volume Roads | 2022 | Mr Badhita Anil Kumar | Dr K S Reddy,  Dr Amarnath Reddy, IIT Kharagpur |
|  | Development of Speed Based Consistency Evaluation of Four lane Highway Geometry Using Naturalistic Driving Data | 2023 | Mr Suresh Nama | Dr Akhilesh Maurya, IIT Guwahati |
|  | Evaluation of Fatigue characteristics of bituminous binders and mixtures under constant  and variable amplitude loading | 2023 | Ms Priyadarshini Saha Chaudhary | Dr Amarnath Reddy, IIT Kharagpur |
|  | Novel Application of Multi Walled Carbon Nano Tubes | 2023 | Mr Anish Kumar | Dr Sanjeev Sinha, NIT Patna |
|  | Analysis and Prediction of Road Accident cost | 2024 | Ms Sumayya Naznin | Dr. A. U. Ravi Shankar & Dr. Mithun Mohan  NIT Karnataka |
|  | Effect of Traffic Volume on Ambient Air Quality on Multilane Divided Urban Roads and Signalized Intersections” | 2024 | Mr. Rama Kanth Angatha, | Dr Arpan Mehar  NIT Warangal |
|  | Occupancy Time Analysis and Delay  Estimation for Right-Turning Vehicles at Three-Legged Uncontrolled  Intersection | 2024 | Mr. Ramesh Babu Kota, | Dr Arpan Mehar  NIT Warangal |
|  | Passenger Perception of Service Quality Attributes in Active Transportation and Paratransit Systems in Jaipur-A parametric Study | 2024 | Mr Pankaj Sharma | Dr Jinendra Kumar Jain, MNIT Jaipur |
|  | Utilization of Reclaimed Asphalt Pavement (RAP) in Rigid Pavement Construction. | 2024 | Mr. Dipikanta Rout | Dr Awdhesh Kumar Sinha NIT Jamshedpur |
| 1. Perfo | Performance Evaluation of Warm Mix Asphalt with Cashew Nut Shell Liquid as an Additive | 2024 | Ms Margret Sherin Joseph | Dr Bindu C S, Cochin University of Science and Technology, Kochi |
|  | Utilization of Coal Overburden Materials in Pavement Construction | 2025 | Mr Subhash Chandra | Dr Sanjeev Sinha, NIT Patna |
|  | Development of Two Lift Concrete pavement with different Concretes | 2025 | Mr Dadi Rambabu | Dr Shashikant Sharma, NIT Jalandhar |

**BRIEF BIO-DATA OF DR PRAVEEN KUMAR**

**Dr Praveen Kumar is Professor of Transportation Engg (HAG Scale) and Ex-Head of Civil Engg Deptt of IIT Roorkee. He was Director of National Institute of Technology Delhi between Oct 2018 and Aug 2020.** He worked as Associate Dean (Faculty Affairs) of IIT Roorkee since Jan 2010 to Dec 2012. He was assigned the responsibility of Coordinator, Transportation Engineering Group of Civil Engineering Department for the session 2010-2012 and again on Dec 2015 to July 2018.

He obtained his B.E. degree from NIT Jaipur, M.E. and Ph.D. from IIT Roorkee. He has served the Central Road Research Institute, New Delhi for six years as a Scientist in Soil Stabilization and Rural Roads Division. His areas of specialization are Waste Material Utilization in Low Cost Roads, Rural Roads Network Planning, Pavement Materials, Pavement Performance Studies and Intelligent Transport System.

Dr Praveen Kumar has published about 500 research papers in National and International Journals and Conferences. He has completed about 250 sponsored and consultancy projects. He has developed the Rural Roads Master Plans of various districts in Andhra Pradesh, Rajasthan and Uttar Pradesh based on Optimal Rural Road Network Planning. He has edited CRRI Research Journal “Sadak Darpan” for about Six Years. He has won CSIR National Prize for the year 1995-96. He was awarded the Best Research Paper Award (Bihar PWD Medal) by Indian Roads Congress for year 1999-2000 and again in 2016-17 and 2021-22. All India Council for Technical Education (AICTE) has given him the prestigious “Young Teachers’ Career Award” for R & D work on Low Cost Roads. He is also a recipient of the highest award of Indian Roads Congress –Pt. Jawaharlal Nehru Centenary Award-2000. The Institution of Engineers (India) has given him the Best Paper Award in 2002, 2009 and 2013. Indian Institute of Technology, Roorkee has given him Outstanding Teacher Award for 2003, 2007 and 2011. Besides Best Paper award of ISCMS-2002, he was adjudged as Star Performer for overall Performance by IIT Roorkee in 2003-04, 2004-05 and 2005-06. Air India has given him BOLT (Best Teacher Award) in 2006& again in 2007. Dr Praveen Kumar was a part of Six Member National Executive Committee of Pradhan Mantri Gram Sadak Yojna (PMGSY) looking after the Mega Yojna at National Level for 2003 to 2018. He was Coordinator of Principal Technical Agency and State Technical Agency for PMGSY till 2018. Presently he is Chairman of National Advisory Committee for PMGSY 2025 onwards. He has organized 46 training courses at IITR to train about 1300 field engineers of UP, Uttarakhand and other states for PMGSY. He has delivered a number of lectures in various parts of the country for the benefit of engineers of North East, Gujrat, Maharastra, MP, H.P., Haryana, Jharkhand, J& K etc. He has also contributed to the manual of rural roads developed by Rural Roads Committee of IRC (H-5). Dr Praveen Kumar has developed various softwares, which are useful in the field of Roads and Road Transport. MNIT, Jaipur has conferred the Distinguished Alumni Award on him in 2023.

# Dr Praveen Kumar has guided Twenty One Ph.Ds. and Ninety Six M.Tech. theses in Transportation Engg. Nine Ph.D.s and One M.Tech.s are in progress. He has organised Several Conferences as Organising Secretary. He has served the Civil Engg Deptt in various administrative capacities including Chairman, Academic Programme Committee. **He was Head of Civil Engineering Department during 2022-25.** He has been the Editor of IIT News Letter Samvaad and IIT Annual Report for about 10 years. He has served as Chairman of Library Advisory Committee of IITR for three years.

President of India has nominated him as Visitor’s nominee for Selection Committee of Civil Engg Deptt of IIT Delhi, IIT Madras, IIT Jodhpur, IIT Bhubneshwar, IIT Hyderabad Court of Banaras Hindu University (BHU), and later all IITs and NITs (2024 onwards). He is also Council Nominee in Board of Governors of IIT-BHU. Presently, he is holding the professorial Chair sponsored by MoRTH since 2022.

# Annexure-I

# **SUMMARY OF ACHIEVEMENTS BY Dr PRAVEEN KUMAR**

# B.E. from NIT, Jaipur, M.E and Ph. D. from IIT Roorkee

**Specialization:**

Planning, Design and Construction of Rural Roads, Waste Materials Utilization in Roads,

Intelligent Transport System and pavement Materials

###### Experience

1. Scientist B at Central Road Research Institute, New Delhi, 1992-1998
2. Asstt Professor 1998-2004, IIT Roorkee, 1998-2004
3. Associate Professor Feb. 2004-07, IIT Roorkee, 2004-07
4. Professor 2007 onwards at IITR.
5. Associate Dean, Faculty Affairs, IIT Roorkee, Jan, 2010- Dec 2012
6. Coordinator, Transportation Engineering Group July 2010 -2012, Dec 2015 –July 2018
7. Chairman, Library Advisory Committee, IIT Roorkee, 2013-2015
8. Director, NIT Delhi Oct 2018 to Aug 2020.
9. Head, Civil Engg Deptt, IIT Roorkee, April 2022 to April 2025

# **Research Publication**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Published | Accepted | Sent | Total |
| International & National Refereed Journals | 246 | 2 | 10 | 258 |
| National/International Conferences | 237 | 2 | 6 | 245 |
| Grand Total | 483 | 4 | 16 | 503 |

# **Research Guidance**

|  |  |  |  |
| --- | --- | --- | --- |
| Degree | Awarded | In Progress | Total |
| Ph.D. | 21 | 9 | 30 |
| M.Tech. | 96 | 1 | 97 |

# **Research Projects:**

# Sponsored Projects 10 (Approx 8 Crores as Principal Investigator/Co-PI)

# Consultancy Projects 300 (approximately 7 Crores as PI/CoPI)

# **Training Courses:** 46 Courses as Principal Coordinator (Total about 1300 participants)

Also delivered 40 Lectures for Engineers/Teachers at various places for NITHE, NABARD, NRRDA.

**Awards:**

1. CSIR National Research Prize in 1995-96.
2. Young Teachers’ Career Award of AICTE in April 2000.
3. Best Paper Award (Bihar PWD Medal) of Indian Roads Congress 1999-2000, 2016-17, 2018-19, 2022-23
4. Pt Jawahar Lal Nehru Centenary Award of Indian Roads Congress for year 2000.
5. The Brij Mohan Lal Memorial Award (Best paper)-2001, 2009 of The Institution of Engineers (I)
6. Outstanding Teacher Award (Best Teacher) of Indian Institute of Technology, Roorkee in 2003 and again in 2007& 2011
7. Best Paper Award of ISCMS-2002
8. Star Performer, IIT Roorkee, 2004, 2005, 2006
9. BOLT Award (Best Teacher) by Air India, 2006, 2007
10. Shiksha Ratan Puraskar by IIFS, 2007
11. Best paper Award at Conference of IE, Roorkee, 2012
12. The Institution Prize for Best Paper by The Institution of Engineers (I), 2013
13. Utkrust Shikshak Samman by Bharat Vikas Parishad, Uttarakhand.
14. Fourth Rank among Top 100 IIT Professors in India in 2016 based on Research papers Published in India by CII.
15. Distinguished Alumni Award for Academic and Research Excellence by MNIT Jaipur for 2023

**Honours:**

1. President of India Nominee (Visitor’s Nominee) for Selection Committee of Civil Engg Deptt, IIT Delhi, 2016-19, IIT Madras (2017-20) & IIT Jodhpur (2018-21), IIT Bhubneshwra (2022-25), IIT Hyderabad (2022-25), all NITs (2018-25) and Court of Banaras Hindu University (BHU), 2017-20. and later all IITs and all NITs 92024 onwards.
2. Convener, Rural Roads Committee (H-5), Indian Roads Congress 2025-27
3. Member, Flexible Pavement Committee (H-2), Indian Roads Congress 2016 onwards
4. Member, Research Council, Pradhan Mantri Gram Sadak Yojna
5. Vice Chancellor Nominee, Bharat Institute of Technology, Meerut
6. Member, Board of Studies (Civil Engg), HBTI, Kanpur
7. Member, HRB Core Group, Indian Roads Congress 2017-25.
8. Council Nominee, Board of Governors, IIT-BHU 2018-21
9. MoRTH Chair Professor, 2021-25.
10. Co-convener, Accreditation Committee, IRCX 2025 onwards

**Major Responsibilities:**

1. Director, NIT Delhi 2018-2020.
2. Head, Civil Engineering Department, IIT Roorkee April 2022 to April 2025..
3. Member, 6-Member National Executive Committee, Pradhan Mantri Gram Sadak Yojna 2003-2018
4. Coordinator, Principal Technical Agency (IITR), Pradhan Mantri Gram Sadak Yojna 2003-2018, 2021 onwards
5. Coordinator, State Technical Agency (IITR), Pradhan Mantri Gram Sadak Yojna, 2003-2018
6. Manger A.B.N.Senior Secondary School, IITR 2006 -12
7. Associate Dean (Faculty Affairs), IITR, Jan 2010 – December 2012
8. President, Saraswati Mandir Samiti, IITR 2012-14
9. State Coordinator, Bharat Ko Jano, Bharat Vikas Parishad, Uttar Pradesh and Uttarakhand

**Countries Visited**: United States, Australia, China, Dubai &Nepal

**Conferences Organised**: 5 as Convener/Chairman, 10 as Member, Organising Committee.

**Response of Students during whole tenure at IITR** : Average about 95% at UG/PG level