Detailed BIO-DATA As on October 15, 2026

DR. PRAVEEN KUMAR
Deputy Director, IIT Roorkee
&
Professor (HAG)
Transportation Engg. Group
Department of Civil Engineering
Indian Institute of Technology, Roorkee
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DATE OF BIRTH November 10, 1964

EDUCATIONAL QUALIFICATIONS

(i) B.E. (Civil Engg.), MNIT, Jaipur, 1987
(ii) M.E. (Transportation Engg.), IIT Roorkee, 1990
(iii) Ph.D. (Transportation Engg.) IIT, Roorkee 1997

FIELDS OF SPECIALIZATION

(i) Rural Road Network Planning
(ii) Rural Roads
(iii) Industrial Waste Utilization in Road Works
(iv) Pavement Performance Studies
(v) Modified Bituminous Binders
(vi) Intelligent Transport System
(vii) Urban Road Planning

NATIONALITY Indian

EXPERIENCE

(i) Research (1992-1998) as Scientist for about six years at Central Road Research Institute, New Delhi, a National Laboratory under CSIR
(ii) Assistant Professor in Transportation Engineering Section of Civil Engineering Department at University of Roorkee, (IIT Roorkee), May 1998-Feb 2004.
(iii) Associate Professor in Transportation Engineering Group of Civil Engineering Department at Indian Institute of Technology, Roorkee, Feb 2004- Dec 2007
(iv) Professor in Transportation Engineering Group of Civil Engineering Department at Indian Institute of Technology, Roorkee, Dec 2007-Dec 2015
(v) Associate Dean, Faculty Affairs, IIT Roorkee, Jan 2010 - Dec 2012
(vi) Coordinator, Transportation Engineering Group, Civil Engineering Department, IIT Roorkee, July 2010 –June 2012 and December 2015 onwards

(vii) Chairman, Library Advisory Committee, M G Central Library, IITR, Jan 2013 – March 2016.

(viii) **Professor in HAG Scale** in Transportation Engineering Group of Civil Engineering Department at Indian Institute of Technology, Roorkee, Jan 1, 2016 onwards.

(ix) DIRECTOR, NATIONAL INSTITUTE OF TECHNOLOGY, DELHI OCT 2018 TO AUGUST 2020.

(x) Head, Civil Engineering Department, IIT Roorkee, April 18 2022 to April 17, 2025

(xi) DEPUTY DIRECTOR, IIT ROORKEE JUNE 2026 ONWARDS

COUNTRIES VISITED

United States (Washington), Australia (Adelaide), China (Shanghai), Nepal (Kathmandu) and UAE (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 Towards Building Sustainable Rural Infrastructure, NRIDA, 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, NRIDA, 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
1.	Development of an Approach for Intelligent Transport System for Indian Environment	AICTE	3 Year Salary +3 lakhs	2000	Prof Praveen Kumar	Completed
2.	Development of Design Procedure for Reinforced Flexible Pavement	MHRD	5 Lakhs	2003	Prof Praveen Kumar	Completed
3.	Rural Roads Pavement Performance Studies for PMGSY,	NRRDA, MoRd,	Rs 20 Lakhs	2010	Prof Praveen Kumar	Completed
4.	Development of Specifications of WMA for Indian Conditions	DST	Rs 13 Lakhs,	2015	Prof Praveen Kumar Prof Satish Chandra	Completed
5.	SEG of Unnat Bharat Abhiyan for Rural Infrastructure	IIT Delhi	12 Lakhs	2018	Prof Praveen Kumar	In Progress
6.	Increase in MoRTH Chair Endowment Fund From 1 Crore to 7 Crore	MoRTH	6 Crore	2023	Prof Praveen Kumar	In Progress

7.	Development of Specifications for Use of Waste Plastic in Asphalt Mixtures: a Major Step towards building Sustainable	NRIDA	55 Lakhs	2022	Dr Nikhil Saboo Prof Praveen Kumar	In Progress
8.	Development of Green and Sustainable Bio-Bitumen	MoRTH	1Crore	2023	Dr Nikhil Saboo Prof Praveen Kumar	In Progress
9.	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
10	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 Improvement 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.**
35. **DEPUTY DIRECTOR, INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE JUNE 12, 2026 ONWARDS**

BOOKS, CODES AND OTHER PUBLICATIONS

(i) 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

(ii) A Chapter in Rural Roads Manual, IRC SP-20, 2002

(iii) A Chapter in Quality Assurance Handbook for Rural Roads, NRRDA, Ministry of Rural Development, Govt. of India, May 2007.

(iv) About 450 Technical Research Papers in Indian and International Journals & Conferences.

(v) Editor of NEWS LETTER of Central Road Research Institute, New Delhi for about five years.

(vi) Editor of SADAK DARPAN, a Research Journal of Central Road Research Institute, New Delhi for about three years.

(vii) 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.

(viii) Editor, Samvaad, IIT Roorkee News Bulletin (2002 -2012)

(ix) Editor, Proceedings of National Seminar on "Reforms in Technical Education" March 26-27, 2001

(x) Member, Editorial Board, Manthan, IIT Roorkee Research Publication (2003-2006)

(xi) Invited Editor, Open Transportation Journal, (International Web Based Transportation Journal)

(xii) Member of Drafting Committee for IRC Code on "Guidelines on Tree Plantation along Rural Roads", IRC: SP:1-3-2014, Indian Roads Congress.

(xiii) Member, Peer Review Committee for Revision of Quality Assurance Handbook for Rural Roads, NRRDA, Ministry of Rural Development, Govt. of India, Dec 2016.

(xiv) A book on Rural Roads for PG Students in writing stage.

RESEARCH GUIDANCE

Ph.D. – Twenty Five Awarded, Five in Progress
M. E./M.Tech.- Ninety Six Awarded, Three in progress
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
19. Life Time Teaching Achievement Award-2025 by IIT Roorkee
20. Young Engineer Award of IRC to Ms Priti Rai, Ph D Student,in 2025, guided by me for the paper, Effect of Extended Aging on Physical and Rheological Properties of Unmodified and Polymer -Modified Asphalt Binders.

HONOURS

1. Member, Six Member National Executive Committee of Pradhan Mantri Gram Sadak Yojna (PMGSY), 2003-2018.
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. (2018-26)**
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

(i) Indian Roads Congress (Life Member)
(ii) The Institution of Engineers (India)-Fellow
(iii) Indian Geotechnical Society-Fellow (LF-0632)
(iv) Indian Society for Continuing Engineering Education
(v) The Institute of Urban Transport.
(vi) Vigyan Bharti
(vii) 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
4. Soumyadeep Deb, Praveen Kumar, Nikhil Saboo, "Method for detection of microplastics released from waste plastic modified asphalt mixtures", Indian Patent: IN, Application no: 202611002264. (published)

Research Papers Published in National/International Journals

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230. 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**

231. 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.

232. Mohanshu Bhardwaj, Praveen Kumar and Nikhil Saboo (2024) "Rutting Resistance Evaluation of SBS-Modified and Highly Modified Asphalt Binders." Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC 2024)

233. 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**

234. Ghosh, A., Sachdeva, A., Islam, S.S., Ransinchung, G.D.R.N., and Kumar, P., 2025. Recycling RAP in geopolymer concrete for sustainable pavement solutions. In: Advances in Materials and Pavement Performance Prediction IV: Contributions to the 4th International Conference on Advances in Materials and Pavement Performance Prediction (AM3P 2025), 7–9 May 2025, Vienna, Austria. Research Unit of Road Engineering, TU Wien. https://doi.org/10.34726/9259.

235. Priti Rai, Praveen Kumar, Nikhil Saboo, "Rheological behaviour of asphalt blends during re-recycling process", TIPCE 2025, IIT Roorkee, India.

236. Priti Rai, Praveen Kumar, Nikhil Saboo, "Rejuvenation of Aged Polymer-Modified Asphalt Binder for Sustainable Recycling", CTRG 2025, IIT Guwahati, India.

237. Sihag Gurmesh, Kumar Praveen and Parida Manoranjan, Development of Incident Management System for Efficient Usage of Transportation Infrastructure, Recent Trends in Transportation Infrastructure, Vol 1, Lecture Notes in Civil Engg, 2023, pp339-352, https://doi.org/10.1007/978-981-99-3142-2_27

238. Sharma Ankit, Ransinchung R N and Kumar Praveen, Suitability of Rejuvenator Addition Method for Hot Mix Asphalt Recycling, Recent Trends in Transportation Infrastructure, Vol 1, Lecture Notes in Civil Engg, 2023, pp127-136, https://doi.org/10.1007/978-981-99-3142-2_11

239. Soumyadeep Deb, Praveen Kumar, Nikhil Saboo, "Determining the optimum dosage of recycled plastics for wet modification of bitumen", CTRG-2025, Dec 17-20, 2025, IIT Guwahati, Assam, India.

240. Soumyadeep Deb, Praveen Kumar, Nikhil Saboo, "Assessment of airborne pollutants emitted from recycled plastic modified asphalt mixtures", TIPCE-2025, Sept 18-21, 2026, IIT Roorkee, India.

241. Ghosh A, Ransinchubg R N G D, Kumar Praveen, Performance , Sustainability and Field Implementation of Reclaimed Asphalt-Based Geopolymer Concrete for Rigid Pavement Applications, 9th International Conference on Road and Rail Infrastructure, CETRA-2026, May 27-30, 2026, https://doi.org/10.5592/CO/CETRA.2026.2091

DETAILS OF THESES SUPERVISED

(A) Ph.D.Theses at IIT Roorkee

S N	TITLE OF THESIS	YEAR AWARDED	NAME OF STUDENT	Co-SUPERVISOR	PRESENTLY WORKING AS
1.	Development of Design Procedure for Reinforced Flexible Pavement	2005	Mr Moustafa Ahmed Kamel Abdel Ghaffar	Dr Satish Chandra	Faculty, Arab Countries
2.	Rheological Behaviour of Bituminous Binders FOR Indian Conditions	2007	Mr K.Lakshman Singh	Prof H.C.Mehndiratta	Associate Professor NIT Silchar
3.	Reinforced Flyash in Rural Road sub-bases	2007	Mr Shailendra Pratap Singh	-	Prant Pracharak, RSS, Uttarakhand
4.	Methodology for Advanced Traveller Information System for Developing Countries	2007	Mr Varun Singh	-	Associate Professor NIT, Allahabad
5.	Study of Sub-base Materials in Rural Roads	2009	Mr Abdhesh Kumar Sinha	Dr Satish Chandra	Associate Professor NIT, Jamshedpur
6.	Web GIS based Advanced Public Transport System Using Mapserver and Ant Algorithm	2012	Mr Sanjeev Suman	-	Associate Professor GBPUAT, Pantnagar

7.	Structural and Functional Performance Modeling of Low Volume Roads	2012	Mr Ankit Gupta	Dr Rajat Rastogi	Professor IIT-BHU
8.	Strength Characteristics of Modified Bitumen with various Aggregates	2013	Mr Maninder Singh	Dr M R Maurya	Associate Professor Punjabi University
9.	Utilization of Waste Materials in Subgrade of Pavement	2014	Mr Aditya Kumar Anupam	Dr G D Ransinchung R N	Assistant Professor NIT, Uttarakhand
10	Use of Wollastonite Micro-Fiber in Rehabilitation of PQC Roads	2015	Mr Shashikant Sharma	Dr G D Ransinchung R N	Assistant Professor NIT, Jalandhar
11	Strength Characteristics of Polymer Modified Asphalt Binders and Mixes	2016	Mr Nikhil Saboo	-	Associate Professor IIT Roorkee
12	Development of Warm Stone Matrix Asphalt	2017	Mr Rajiv Kumar	Prof Satish Chandra	Senior Scientist CRRI
13	Nonlinear Viscoelastic Analysis of Un-aged and Aged Asphalt Binders	2018	Mr Bhupendra Singh	-	Assistant Professor IIT Jodhpur
14	Development of ITS Architecture for Multi Modal System	2018	Miss Shambavi Mishra	-	Ex Faculty NIT Allahbad

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)	Bitumen Expert Corporate Sector
16	Development of PQC Mix for Sustainable Concrete Pavement incorporating Non Conventional Materials.	2022	Mr Surendra Kumar Saini	Dr G D Ransinchung R N	Assistant Professor Kota Engg College
17	Evaluation of Aged Bituminous Paving Mixtures Rejuvenated with Different Recycling Agents.	2022	Mr Ankit Sharma	Dr G D Ransinchung R N	Bitumen Expert Working Abroad
18	Development of Interactive Traveller Information System	2024	Mr Gurmesh	Prof M Parida	Assistant Professor Galgotia University
19	Development of Temperature Prediction Model For Flexible Pavements	2024	Mr Ashish Walia	Prof Rajat Rastogi Prof S S Jain	Senior Scientist CRRI
20	Modelling of Traffic Noise for Mid Block Locations in Urban Areas	2024	Mr Saurabh Upadhayay	Prof M Parida	Faculty NIT Goa

21	Effects of Filler in Performance of Cold Mix for BM and DBM Courses.	2024	Ms Pinki Meena	Dr G D Ransinchung R N	Assistant Professor Kota Engg College
22	Rheological Studies of Re-recycling of RAP Material	2025	Ms Priti Roy (Priti Rai)	Dr Nikhil Saboo	Project Scientist CRRI
23	Comparative Study on Cold Mix, Warm Mix and Hot Mix Asphalt by using Bamboo Fibre	2025	Mr Soumyadeep Deb	Dr Nikhil Saboo	PDF, IIT Guwahati
24	Feasibility Study of Geopolymer Treated Base using Full Depth Reclamation Technique	2026	Mr Abhitesh Sachdeva	Dr G D Ransinchung R N	Assistant Professor Chandigarh University
25	Performance of Unbound Pavement Materials in Changing Moisture Conditions	2026	Mr Rami Khedar	Dr G D Ransinchung R N	Working Syria and other countries
26	Characterisation of Highly Modified Asphalt (HiMA) for Application in Tropical Climatic Conditions	In Progress	Mr Mohanshu Bhardwaj	Dr Nikhil Saboo	Pursuing

27	Development of Rutting and Material Characteristic Models for Unbound Layers in Flexible Pavement	In progress	Mr Sumit Kumar	Dr Nikhil Saboo	Pursuing
28	Functional and Structural Evaluation of Flexible Pavements using FWD	In Progress	Mr Madhur Saini	Dr Nikhil Saboo	Pursuing
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	Pursuing
30	Bitumen Stabilised Mix and Cold Mixes	In Progress	Mr Rajan Paileshbhai Tank	Dr G Bharath, CRRI	Pursuing

(B) M.Tech. Theses

S N	TITLE OF THESIS	YEAR AWARDED	NAME OF STUDENT	Co-SUPERVISOR
1.	Maintenance Manage System for Rural Roads	1994	Mr Naseem Ahmed	Dr Ashok Kumar
2.	Computer Aided Design of Flexible Pavement Overlays	1999	Mr Raveendra Kumar	Dr Satish Chandra
3.	Laboratory Studies for Use Steel Industry Waste in Bituminous Layer of Pavement	2000	Mr Lalit Narayan Singh	Dr S.S.Jain
4.	Development of an Approach for Intelligent transport System for Urban Areas	2000	Mr Pankaj Singh	Dr S.S.Jain
5.	Effect of Delayed Compaction on Lime-Flyash-Soil Mixes	2000	Mr Rajib Gogoi	Dr H.C. Mehndiratta
6.	Loadman and Benkelman Beam Deflection Studies on Identified Road Sections	2000	Lt.Col.N.K.Sharma	Dr S.S.Jain
7.	Design of Highway Embankments using Flyash in Alternate Layers	2001	Mr Karri Sriniwas Rao	Dr H.C. Mehndiratta
8.	Parametric Studies on Flexible Pavement Reinforced with Jute	2001	Mr M.V.Maruthi Sreedhar	Dr H.C. Mehndiratta
9.	Strength Characteristics of Bituminous Concrete with different types of Filler	2001	Mr Berhanu Abesha Feyissa	Dr Satish Chandra
10.	Development of Relationship Between Skid Resistance and Pavement Materials	2001	Mr Mukesh Kumar	Dr S.S.Jain
11.	Incident management Using Intelligent Transport System	2001	Mr Poosarla Eswar Rama Kumar	Dr S.S.Jain
12.	Facility Based Network Planning of Rural Roads Using GIS	2001	Mr Marem Sudhakar	Dr Manoj Arora
13.	Computer Aided Design of Bituminous Mixes for Pavements	2001	Mr. Akhilesh Kumar Maurya	Dr Satish Chandra
14.	Development of Software for trip Assignment in Urban Areas	2002	Maj. N.S.Bains	Dr Manoj Arora
15.	A Parametric Study on Reinforced Flyash in Highway Embankments	2002	Mr. Siddhartha Rokade	Dr H.C. Mehndiratta

16.	A Comparative Study on Flexible Pavements Reinforced with Coir/synthetic Geotextiles	2002	Miss Telukuntla Padma	Dr H.C. Mehndiratta
17.	Computer Aided design of Pavement Based on IRC: 37-2001	2002	Mr Sataya Narayain	Dr Satish Chandra
18.	Development of Graphical Interface for Rural Road Accessibility Planning	2002	Mr Varun Singh	Dr Satish Chandra
19.	Development of Intelligent Transport System in GIS Environment	2002	Mr Dhanunjay Reddy	-
20.	Development of a Software for Rural Road Connectivity under PMGSY	2002	Mr Umesh Chandra Sahoo	-
21.	An Analytical Study on Effect of Regional variations on Cost of Rural Roads under PMGSY	2003	Mr Anant Kumar	Dr H.C. Mehndiratta
22.	A Study on Plastic Sheet Reinforced Flyash Embankments	2003	Mr A.K.Durgarao	Dr H.C. Mehndiratta
23.	Resilience Modulus of Reinforced Subgrade Soils	2003	Mr K.Sriniwas Rao	Dr Satish Chandra
24.	Development of Software for Route Assignment using Multipath Technique	2003	Mr. Ujjal Chatraj	Dr Satish Chandra
25.	Intelligent transport System for Delhi Metro Railway	2003	Mr Sunil Kumar	-
26.	Effect of Randomly Distributed Fibers on Fly Ash Embankments	2004	Mr Sejla Chandra Narayan	Dr H.C. Mehndiratta
27.	Comparative Study on Different Subbase Materials	2004	Mr R.Vishal	Dr Satish Chandra
28.	Multi modal Advanced Travelers' Information System for Delhi Metro	2004	Mr K.N.S.S. Yoganand	Mr Atul Agrawal
29.	Effect of Mixing and Compacting Temperature on Physical Properties of Bituminous Mixes	2004	Mr Chandra Kiran Kumar Akisetty	Dr H.C. Mehndiratta
30.	Investigations on Cost Effective Design of Roads under PMGSY	2004	Mr Ramaa Kumar Velicherla	Dr H.C. Mehndiratta
31.	Relationship between Rheological and Conventional Properties of Bitumen	2004	Mr Anil Durga Prasad B.	Dr H.C. Mehndiratta

32.	Use of Fly Ash as Filler in Bituminous Mixes	2005	Mr Virendra Singh	Dr H.C. Mehndiratta
33.	Advanced Traveler Information System for a MetropolitanCity	2005	Mr A Venkateswarlu	-
34.	Investigation on Optimal Use of Gravel in Flexible Pavements	2005	Mr Sateesh Kumar M.	Dr H.C. Mehndiratta
35.	Rural Infrastructure Planning with Emphasis on Road Networks	2005	Mr T.V.Ramakanth Jami	Prof Nalini Singh
36.	Software for Pradhan Mantri Gram Sadak Yojna	2005	Mr Mahendra Kumar Lal	-
37.	Planning of Rural Roads in GIS Environment	2006	Mr Anukul Saxena	-
38.	Use of Glass Grid in Pavement Layers	2006	Mr R.Dilip Kumar Reddy	Dr H.C. Mehndiratta
39.	A Parametric Study on Shape of Aggregates Affecting Bituminous Surface of Flexible Pavements	2006	Mr Matin Ahmed	Dr H.C. Mehndiratta
40.	Investigation on Fibre Modified Bituminous Mixes	2006	Mr Satish Immadi	Dr H.C. Mehndiratta
41.	Effect of Jute Textile in Various Layers of Pavement	2006	Mr G.R.Toshniwal	Dr H.C. Mehndiratta
42.	Software Development for Multipath Route Assignment Technique	2006	Mr Ranjeet Kumar	-
43.	Development of Software for Trip Distribution using gravity Method	2006	Miss Renu Vaska	-
44.	A Comparative Study of Emulsion and Modified Bitumen in Road Construction	2007	Mr N.G.Sorum	-
45.	Use of Waste Plastic in Bituminous Layer of Pavement	2007	Mr Pankaj Gupta	-
46.	Performance Study of PMGSY Roads	2007	Mr M.D.A.Sajid	Dr Satish Chandra
47.	Investigation of Reinforced Embankments	2007	Mr M.Ramanjaneya Reddy	-
48.	Behaviour of Granular Materials Under Cycling Loading	2007	Mr S.R.Rajendra Nimani	Dr Satish Chandra
49.	Software for Online Monitoring of Pradhan Mantri Gram Sadak Yojna	2007	Mr Gajendra Kumar Varshney	-

50.	Rheology of Waste Plastic Fiber Modified Bitumen	2008	Miss Rashi Garg	-
51.	Effect of Various Parameters on Performance of PMGSY Roads	2008	Mr Patel Vishal P.	-
52.	Laboratory Study of Low Cost Bituminous Wearing Courses	2008	Mr Nikesh Chandra	-
53.	Land-uses and activity-based traffic forecasting model	2009	Mr Akash Jain	Dr Rajat Rastogi
54.	Planning of Rural Roads using GIS and GPS	2009	Mr A.S.Subramanyam	Dr R.D.Garg Dr B Kanagadurai
55.	Lab study on Chemical and Rheological Changes in Modified Bitumens	2009	Lt. Col. Manoj Gupta	Dr M.R.Maurya
56.	Development of ITS using GPS	2009	Mr Rishi Kesh Meena	-
57.	Laboratory Study on Permeability of Different Sub-base and Base Courses	2010	Mr Akhil Bhutani	-
58.	Laboratory Study on Equivalency Factors for different Sub-base and base Courses	2010	Mr Shashi Kant Sharma	-
59.	Laboratory Study on Moisture Susceptibility of Various Bituminous Courses	2010	Maj Praveen Anand	-
60.	A laboratory Study on Mastic Asphalt	2011	Col. Shiv Kumar	-
61.	Incident Management System in GIS Environment for ChandigarhCity	2011	Mr Raj Kumar Nagarwal	-
62.	Development of Deterioration Model using ANN	2011	Mr Siddhartha Upadhayay	Dr J K Ghosh
63.	Self Consolidating Concrete containing Wollastonite Microfiber for repair of PQC	2012	Mr Abhishek Jindal	Dr G D Ransinchung R N
64.	Influence of Moisture States of Recycled Aggregates in PQC	2012	Mr Arun P Chauhan	Dr G D Ransinchung R N
65.	A Rheological Study on Modified Binders	2012	Mr Mohd. Tanveer Khan	-
66.	Comparative Study on Organic and Inorganic Waste Material Reinforcement in Non-bituminous Layers	2012	Miss Pooja Sharma	Dr G D Ransinchung R N

67.	Moisture Damage Study in Close Graded and Open Graded Bituminous Mixes	2012	Mr Sharad Kumar	Dr G D Ransinchung R N
68.	Geometric Design for Rural Roads Using MXROAD Software	2013	Mr Sandeep Batar	Dr G D Ransinchung R N
69.	A Laboratory Study on Short Term and Long Term Ageing of Bitumen Using Modifiers	2013	Miss Shambhavi Mishra	-
70.	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
71.	Performance Evaluation of Silty Soil Subgrade Reinforced with Pine Needle and Flyash	2013	Mr Amit Kumar Bera	Dr G D Ransinchung R N
72.	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
73.	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
74.	Study on Performance of Bituminous Mixes using FWD	2014	Lt. Col. Mayank Mehta	Dr G D Ransinchung R N
75.	A Study on Rheology of Multiple Bitumen Modifiers	2014	Miss Radhika	-
76.	Development of Master Curves for Finding Mixing and Compacting Temperatures by Different Methods	2014	Mr Ankit Verma	-
77.	Performance Evaluation of Roads using FWD	2015	Shobhit Tiwari	-
78.	Performance of Bituminous Mixes using Modified Binders	2015	Bhaskar Pratim Das	Dr G D Ransinchung R N
79.	Pore Structure and Permeability of Concrete Containing Recycled Concrete Aggregate	2015	Gyandeep Bhumarkar	Dr G D Ransinchung R N
80.	Identification of Road Surface Defects using Geomatics Techniques	2015	Animesh Singh	Dr R D Garg

81.	A Study on Visco-elastic Properties of Modified Bitumen in Non-Linear Region	2016	Nigil M	-
82.	Durability and Performance Characteristics of DBM with Warm Mix Additives	2016	Roopak Jain	Dr Satish Chandra
83.	Characteristics of Stone Mix Asphalt using Warm Mix Addditive	2016	Shashank Singh Chauhan	Dr Satish Chandra
84.	Coir Reinforcement in Non-bituminous Layers of Pavement	2017	Anshul Ojha	-
85.	Development of Incident Management System for a Planned City	2017	Gurmesh	-
86.	Effect of Seasonal Variation on FWD Results	2017	Aditya Chaudhry	-
87.	Use of Zycosoil in Modification of Bitumen	2017	Ankit Verma	-
88.	Effect of Plastic Modification on Fatigue and Rutting Characteristics	2018	Ravendra Singh	-
89.	Effect of Carbon Black on Ageing of Bitumen	2018	Miss Malvee Singla	-
90.	Development of Advanced Traveller Information System using Ant Algorithm	2018	Miss Nidhi Chaudhry	-
91.	Use of Bitumen Emulsion in WMM Layer of Flexible Pavement	2019	Sandeep Chausali	Dr G D Ransinchung R N
92.	A Study on Warm Mix Additives	2021	Dheeraj Adwani	Dr G D Ransinchung R N
93.	Evaluation of Sasobit Modified Recycled Asphalt Pavement	2022	Mukesh Seervi	Dr Nikhil Saboo
94.	Use of Waste Plastic in Asphalt Mixture	2023	Rajesh Kr Chaudhary	Dr Nikhil Saboo
95.	Use of Waste Engine Oil for Rejuvenation of Aged Asphalt Binder	2023	Bikash Thakur	Dr Nikhil Saboo
96.	Effect of Waste Plastic incorporated through Dry Process on the Mechanical properties of Asphalt Mixtures	2024	Tara Nath Sharma	Dr Nikhil Saboo
97.	Effect of Styrene Content on SBS Modified Asphalt	In progress	Chetan Singh Rathore	Dr Nikhil Saboo

98.	A Study on RAP Materials Using WMA and Rejuvenators	In progress	Priya	-
99.	A Study on Cold Mixes using Geopolymer	In progress	Suraj Kumar Yadav	-

(C) M.Tech. Project

SN	TITLE OF PROJECT	YEAR AWARDED	NAME OF STUDENT
1.	Software for Route Assignment using Moore's Algorithm	2000	Mr A K Maurya
2.	Software for Trip Distribution Based on Furness Method	2001	Mr A K Niranjan
3.	Software for Trip Distribution based Gravity Model	2001	Mr Satya Narayain
4.	A Study on Roorkee Bypass Route Choice	2002	Mr Jitendra Kumar Yadav
5.	Software for Rigid Pavement Design	2002	Mr Ujjal Chataraj
6.	Relationship between Softening Point, Penetration Value and Ductility	2002	Mr K Sriniwas Rao
7.	Software for Horizontal Alignment and Vertical Alignment of Highway Geometric Design	2002	Mr Amit Verma
8.	Software for Trip Generation using Cross Classification Technique	2002	Mr Yoganand Jetti
9.	Effect of Compacting Effort and Curing Period on CBR Values	2003	Mr Anil Durga Prasad
10.	Lab Study on Rheological Study of Bitumen	2003	Mr R. Vishal
11.	Cold Mixes using Bituminous Emulsion	2004	Mr Satish Kumar M.
12.	Computer Aided Design of Toll Booth	2004	Mr Venkateshwar Avaari
13.	Trip Distribution Forcasting Using Growth Factor Method	2005	Mr Mahendra Kumar Lal
14.	Variation in Test Values of Bitumen with Temperature	2005	Mr Yajuvendra Singh Rajpurohit
15.	Lab Study on Various Modified Binders	2005	Mr Matin Ahmed
16.	Behaviour of Soil under Normal and Modified CBR Tests	2005	Mr Abhishek J Agrawal
17.	Rheometric Study on Lime Flyash Modified Bitumen	2006	Mr Ranga Swami Sirigiri
18.	Average Increase in Volume and Cost of PMGSY Roads	2006	Mr Pankaj Gupta

19.	Software for Mix Design	2006	Mr Gajendra Kumar Varshney
20.	Effects of CBR, Traffic and Quarry Distance on Cost of PMGSY Roads	2007	Miss Averneni Deepti
21.	Investigation on Properties of Non-Stirred CRMB	2007	Mr Kotkar Kishore Laxman
22.	Effect of Admixtures on Soil Strength	2007	Mr Gaurav Pandey
23.	Comparison of Long Term and Short Term Ageing Effect on Bitumen	2008	Mr Mukesh Kumar Jain
24.	Effect of Delay in Compaction on Marshall Properties	2008	Mr Santosh Khushnure
25.	Combined Effect of Fibre and Chemical Stabilizer on Subgrade Soil	2008	Maj Vishal Sharma
26.	Computer Aided Design of Bituminous Mixes	2008	Mr Rishikesh Meena
27.	Laboratory Study on Skid Resistance of Mastic Asphalt	2009	Maj Parveen Anand
28.	Comparative Study of Ageing Effect on Various Bituminous Materials	2009	Mr More Prasad jagannath
29.	Comparative Study of Emulsion and Bitumen	2009	Mr Narsimharao Veeravalli
30.	Cold Mix Design of Bituminous Courses	2010	Mr Devendra Kumar
31.	Field Data Collection for ATIS Studies	2010	Mr M Rajshekhar
32.	A Laboratory Study on Rutting behaviour of bituminous mixes	2010	Mr V.G.Narayana
33.	Application of ANN for Trip Generation	2010	Mr Siddhartha Upadhayay
34.	A study on Compactive Energy in Marshall tests	2011	Mr Avinash S Rajpurohit
35.	Comparative Study of Various Type of Commercial Stabilisers	2011	Mr Ganupalli S Rao
36.	Comparative Study of Short Term and Long Term Ageing	2011	Mr Peelipuram Naveen Kumar
37.	Development of Software for Marshall Method of Mix Design	2012	Mr Sandeep Batar
38.	A Laboratory Study on Effect of Temperature on Rutting of Bituminous Courses	2012	Miss Shambhavi Mishra
39.	A Laboratory Study on Various Fine Materials in WMM	2012	Mr Dharampal Singh Kandari

B.TECH PROJECT

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
1.	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

2.	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
3.	An Investigation of Cell-Filled Pavement for Low Volume Roads	2010	Mr Subrat Roy	Prof K Sudhakar Reddy, IIT Kharagpur
4.	Performance Evaluation of Low Volume Roads	2010	Mr Umesh Chandra Sahoo	Prof K Sudhakar Reddy, IIT Kharagpur
5.	Study of Rigid pavements for Village Roads in Alluvial Regions	2011	Mr R K Srivastawa	Prof S K Duggal, MNIT, Allahabad
6.	Pavement Deterioration Models for Low Volume Roads	2012	Mr S Shankar	Prof CSRK Prasad, NIT, Warangal
7.	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
8.	Design Consistency Evaluation of Rural Highways	2013	Ms Sowmya N J	Prof A U Ravishankar, NIT Surathkal
9.	GIS Enabled Approach for Planning of Road Network for Iran	2014	Mr Abed Mohammadi	Prof K M Lakshmana Rao JNTU, Hyderabad
10.	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
11.	Evaluation of Activated Fly Ash Treated Reclaimed Asphalt Pavements for Sustainable Design of Base Courses.	2016	Ms Deepti Avirneni	Dr Sireesh Saride IIT Hyderabad
12.	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
13.	Geospacial Modelling an Analysis of Agri-Food Supply Chain Network	2017	Mr Vivek Kumar Purwar	Dr Varun Singh, MNIT Allahabad
14.	Evaluation of Modified Binders and Mixes with warm Mix Asphalt (WMA) Additives	2017	Mr Ashok Juglanti	Dr Rajan Choudhry, IIT Guwahati
15.	Evaluation of LVR using LWD	2018	Mr. Vinod Kumar Adigopula	Dr Rakesh Kumar NIT Surat

16.	Agent Based Geosimulation of Fire Emergency Response	2018	Mr Mainak Bandyopadhyay	Dr Varun Singh, MNIT Allahabad
17.	Incorporating Sustainability in Investment Decision making for Infrastructure Projects	2018	Ms Angela Delia Reidy	Prof Arun Kumar Queensland University of Technology, Australia
18.	Behavior of Geosynthetic Inter-layered Asphalt Overlays	2018	Mr Vinay Kumar V	Dr Sireesh Saride IIT Hyderabad
19.	Strength Characteristics of Sand Mixed Randomly Distributed Fibers	2018	Mr Kuldeep Singh Kulhar	Prof M Raisinghani, Vivekanand Global University Jaipur
20.	Impact of Geometric Characteristics on Capacity of Hill Roads	2018	Mr Achyut Das	Prof K Ramachandra Rao IIT Delhi
21.	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)
22.	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
23.	Fatigue and Healing Characteristics of Asphalt Concrete Mixtures containing Relaimed Asphalt Pavement (RAP) Material	2020	Miss Mullapudi Ramya Sri	Prof Sudhakar Reddy, IIT Kharagpur
24.	Applications of Rice Straw Ash in Rigid Pavements	2020	Mr Arunabh Pandey	Dr Brind Kumar IIT-BHU
25.	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
26.	Application of nanotechnology for Prevention of Moisture Damage of Flexible Pavements	2020	Mr Hillol Chakravarty	Prof Sanjeev Sinha, NIT Patna
27.	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
28.	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

29.	Mechanistic Empirical Approach to Design of Fiber Reinforced Bituminous Pavements	2021	Ms Shaina Hashim	Dr Asha Lata University of Kerala Thiruvanathpuram
30.	Experimental Investigation on the Performance of Asphalt Mixes Using Waste Materials	2021	Mr Vishnu T B	Dr Lakshman Singh, NIT Silchar
31.	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
32.	Decision Support System for Urban Pavement Maintenance Management	2021	Ms Rejani V. U.	Dr. Sunitha V., Dr. Samson Mathew, NIT Trichi
33.	Evaluation of the Properties of Pyrolytic Char Modified Asphalt Binders and Mixtures	2022	Mr Abhinay Kumar	Dr Rajan Chaudhary, IIT Guwahati
34.	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
35.	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
36.	Utilisation of Basic Oxygen Furnace Steel Industry Slag in Open Graded Asphalt Friction Course Mixes	2022	Mr Santanu Pathak	Dr Rajan Chaudhary, IIT Guwahati
37.	"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
38.	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

39.	Development of Speed Based Consistency Evaluation of Four lane Highway Geometry Using Naturalistic Driving Data	2023	Mr Suresh Nama	Dr Akhilesh Maurya, IIT Guwahati
40.	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
41.	Novel Application of Multi Walled Carbon Nano Tubes	2023	Mr Anish Kumar	Dr Sanjeev Sinha, NIT Patna
42.	Analysis and Prediction of Road Accident cost	2024	Ms Sumayya Naznin	Dr. A. U. Ravi Shankar & Dr. Mithun Mohan NIT Karnataka
43.	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
44.	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
45.	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
46.	Utilization of Reclaimed Asphalt Pavement (RAP) in Rigid Pavement Construction.	2024	Mr. Dipikanta Rout	Dr Awdhesh Kumar Sinha NIT Jamshedpur
47.	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
48.	Utilization of Coal Overburden Materials in Pavement Construction	2025	Mr Subhash Chandra	Dr Sanjeev Sinha, NIT Patna
49.	Development of Two Lift Concrete pavement with different Concretes	2025	Mr Dadi Rambabu	Dr Shashikant Sharma, NIT Jalandhar
50.	Design and Development of Methodology for construction of thin white topping in context of Indian Rural Roads	2025	Mr Patil Raobahadur Yashwant	Prof M S Ranadive, CoE, Pune

51.	Strength Characteristics of Expansive Subgrade Soil Treated with Different Waste Materials	2025	Mr Addisu Ayele	Dr Kunal Jain and Dr Maninder Singh, Punjabi University.
52.	Performance Evaluation of Different Bituminous Mixes using Modified Binders	2026	Ms Mitali Saharia	Dr Kh Lakshman Singh, NIT Silchar
53.	Interaction Behaviour of Lignin in Bituminous Mixes	2026	Ms. Akanksha Bilthare	Dr Siddhartha Rokade, NIT Bhopal
54.				

BRIEF BIO-DATA OF DR PRAVEEN KUMAR

Dr Praveen Kumar is Deputy Director of IIT Roorkee since June 2026. He 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 is Coordinator of Principal Technical Agency for PMGSY since 2002. 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 Five Ph.Ds. and Ninety Six M.Tech. theses in Transportation Engg. Five Ph.D.s and Three M.Tech.Theses 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. He is BoG Member of IIT Roorkee since January 2026. 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
10. Deputy Director, IIT Roorkee, June, 2026 onwards

Research Publication

	Published	Accepted	Sent	Total
International & National Refereed Journals	253	2	5	260
National/International Conferences	240	2	2	244
Grand Total	493	4	7	504

Research Guidance

Degree	Awarded	In Progress	Total
Ph.D.	25	5	30
M.Tech.	96	3	99

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
16. Life Time Teaching Achievement Award by IIT Roorkee, 2025

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, Research Council, Pradhan Mantri Gram Sadak Yojna
4. Vice Chancellor Nominee, Bharat Institute of Technology, Meerut
5. Member, Board of Studies (Civil Engg), HBTI, Kanpur
6. Member, HRB Core Group, Indian Roads Congress 2017-25.
7. Council Nominee, Board of Governors, IIT-BHU 2018-26
8. MoRTH Chair Professor, 2021-26.
9. Co-convener, Accreditation Committee, IRC 2025 onwards
10. Chairman, National Standing Advisory Committee, PMGSY-NRIDA 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
10. Deputy Director, IIT Roorkee June 12, 2026 onwards

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