



Dr. Jaideep Gupta
Visiting Professor
Department of Energy Science and Engineering

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Areas of Interest
Workforce Management & Organizational Leadership
Electrical Engineering & Power Systems
Traction Systems and Rail Applications
Emerging Trends in Technology & Innovation
Artificial Intelligence (AI) & Machine Learning (ML)
Climate Change Mitigation & Sustainable Development
Renewable & Green Energy Solutions
National Rail Plan & Policy Frameworks
Strategic Planning & Decision-Making
Industrial Relations & Trade Union Dynamics
Project Planning, Execution & Risk Management
High-Speed Rail Systems & Infrastructure
Additional Relevant Areas of Interest
Digital Transformation in Transportation & Industry
Internet of Things (IoT) & Smart Mobility Solutions
Cybersecurity in Critical Infrastructure
Data Analytics & Predictive Modelling
Urban Transport Planning & Smart Cities
Energy Storage Systems & Battery Technologies
Public Policy & Regulatory Frameworks
Supply Chain Optimization in Energy & Rail Sectors
Human Resource Development & Skill Enhancement
Global Railway Trends & International Collaboration

Detailed Bio-data

Curriculum-Vitae

Dr. Jaideep Gupta, FIE
Indian Railway Service of Electrical Engineers
(IRSEE : 1986 Exam Batch)
Former Addl. Member (Railway Electrification)
Level 16 post of Government of India.
Railway Board, Government of India, NEW DELHI.



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Chanakyapuri , New Delhi - 110021

Personnel Details:

- **Date of Birth** : 30.08.1965
- **Qualifications:**
 - BE (Electrical) in 1986 (Gold Medalist)
 - M.Tech – Electrical Engineering (Machines and Drives) from IIT, BHU
 - PhD (Electrical Engineering - AI Technologies)

Title of the thesis:

Intelligent Diagnostic and Monitoring of Electrical Drives – A Predictive Maintenance Strategy for Locomotive Auxiliary Machines.

Administrative Experience/Post(s) & responsibilities held (37+ years of experience)

S. No.	Post	Organization/ University	Duration		Experience (In Years and Months)
			From (Date)	To (Date)	
1.	Head of the Department	Central Government Railways	01.08.2017	16.04.2023	5 years 8 months
2.	Dean of Faculty	Central Government IRIEEN (Indian Railways Institute of Electrical Engineering)	17.04.2023	Still working	Over 1 year
3.	Member of Academic Council	IRIEEN	17.04.2023	Till date	Over 1 year
4.	Member of Professional/ Academic Bodies	Fellow of Institute of Engineers (India)	30.08.2006	Till Date	17 years
5.	Others (Specify)				
S. No.	Details		Pay scale/Pay level, Basic pay/Total emoluments		Experience
5	Former Additional Member Railway Board Government of India, NEW DELHI		Level 16 Basic Pay :2,24,400		From 01.09.2024 to 31.08.2025
5.1	(Indian Railways Institute of Electrical Engineering) Post: Dean & Additional Director General		1,82,000-2,24,100 Level-15 Basic Pay 2,24,100 Total emoluments: 3,90,000 Permanent		More than 1 year
5.2	Organization/Institution: Indian Railways Post: Additional General Manager, Eastern Railway, Kolkata		1,82,000-2,24,100 Level-15 Basic Pay 2,24,000 Total emoluments: 3,40,000 Permanent Reason for leaving the post: Transfer		More than 1 year
5.3	Organization/Institution: Indian Railways Post: Principal Chief Electrical Engineer, Eastern Railway, Kolkata		1,82,000-2,24,100 Level-15 Basic Pay 2,24,000 Total emoluments: 3,40,000 Permanent Reason for leaving the post: Transfer		More than 1 year

5.4	Organization/Institution: Indian Railways Post: Principal Chief Safety Officer, Eastern Railway, Kolkata	1,82,000-2,24,100 Level-15 Basic Pay 2,24,100 Total emoluments: 3,40,000 Permanent Reason for leaving the post: Transfer	1.5 years approx
5.5	Organization/Institution: Indian Railways Post: Divisional Railway Manager, Sambalpur	1,82,000-2,24,100 / Level-15 / Basic Pay 2,24,000 , Total emoluments: 3,40,000 Permanent Reason for leaving the post: Transfer	More than 2 years
5.6	Organization/Institution: Indian Railways Post: Chief Electrical Engineer (Loco & Operations), Jabalpur, WCR	1,44,200- 2,18,200 Level-14 / Permanent, Reason for leaving the post: Transfer	More than 1 year
5.7	Organization/Institution: Indian Railways Post: Addl. DRM, Central Railway, Nagpur	1,44,200- 2,18,200 Level-14 / Permanent, Reason for leaving the post: Transfer	More than 3 year
5.8	Organization/Institution: Bharat Heavy Electricals Ltd. Post: Officer on Special Duty (Railways), BHEL, Jhansi	1,44,200- 2,18,200 Level-14 / Permanent, Reason for leaving the post: Transfer	3 years approx
5.9	Organization/Institution: Centre of Advanced Maintenance Technology, Gwalior (Unit of RDSO - Research Designs & Standards Organization) Post: Director (Electrical)	Level 13 Permanent, Reason for leaving the post: Transfer	More than 4 years
5.10	Many Other Mid- Level Managerial/Administrative Posts in Railway/ Railway Research Centers	Different Gazetted Levels	Since 1988

Present Assignments

- Professor (Visiting Faculty) at National Institute of Technology (NIT), Bhopal
- Guest Professor at IAAS Officers' Academy, International Centre for Environment Audit and Sustainable Development (iCED), Jaipur

- Visiting Professor at Gati Shakti Vishwavidyalaya
- Visiting Professor at IREEN, IRISSET, and IRITM

Special Assignments:

Retired as Additional Member (Level 16), Government of India

Dean & Additional Director General, Indian Railways Institute of Electrical Engineering (IRIEEN), Nashik Road

- Led the institute as the chief administrator with responsibility for academic leadership, strategic planning, resource management, faculty development, student affairs, accreditation, and outreach.
- Formulated policies for academic and administrative functions, ensuring timely execution of institutional goals.
- Facilitated collaborations with industry and academic institutions, initiating and approving MoUs for partnerships.
- Appointed and engaged visiting faculty from reputed institutions and industry experts.
- Guided policy decisions with long-term impact on institutional growth and governance.
- Chaired faculty and administrative meetings to align academic and operational priorities.
- Maintained student discipline in coordination with wardens; promoted wellness, positive campus culture, and strong community ties.
- Engaged with students to share insights on emerging railway technologies and skill requirements, preparing them for professional careers.
- Motivated and counselled students before their final postings, enhancing readiness and confidence.
- Strengthened alumni relations through seminars, annual meets, and networking initiatives.

- Coordinated institutional policy issues and facilitated effective interaction among senior offices for smooth functioning.
- Oversaw long-term strategic planning, policy formulation, and program evaluation for the institute's growth.
- Promoted sports, cultural initiatives, and holistic student development.

Additional General Manager, Eastern Railway

- Monitored operations across departments including asset management, project execution, safety, and planning.
- Headed Law, Public Relations, and Public Grievance Cells, ensuring effective resolution of employee and public concerns.
- Oversaw HR management of ~95,000 employees, along with systems improvement, quality upgrades, publicity, customer care, and heritage preservation.

Principal Chief Electrical Engineer, Eastern Railway

- Achieved 100% electrification of the zone by completing 242 RKM in one year.
- Enabled 92% of freight GTKM to run on electric traction, significantly reducing diesel dependency.
- Transitioned nearly all passenger services to electric traction, aligning with India's sustainable energy goals for 2030.
- Reduced traction change requirements, enhancing mobility and throughput.
- Contributed to full electrification of Eastern Railway (April–May 2022).

Principal Chief Safety Officer, Eastern Railway

- Reduced derailments in points and crossings to **zero**, through intensive inspections of 100+ critical locations and continuous monitoring.
- Eliminated recurring derailments at Diamond Crossings and yards.

Divisional Railway Manager (DRM), Sambalpur Division, Odisha (2017–2019)

- Headed railway operations across 20 + districts and managed 12,000 + staff also, 400 + trains daily.
- Increased annual divisional revenue by 20% +, reaching ₹1,200 + Cr annually.
- Ensured safe, efficient, and profitable train operations.

Chief Electrical Engineer (Loco), West Central Railway

- Managed maintenance and operations of 700+ locomotives across three major loco sheds.
- Supervised 3,000 + maintenance staff and 7,000 + operations personnel, ensuring safe and efficient loco performance.

Additional Divisional Railway Manager, Nagpur Division, Central Railway

- Directed operations and HR management for ~17,000 employees, overseeing seamless division-wide functioning.

Officer on Special Duty (OSD), Bharat Heavy Electricals Limited (BHEL)

- Assisted in successful execution of a prestigious order of 200 AC locomotives within set timelines.
- Addressed production, quality, and design challenges, while enhancing BHEL's understanding of railway technology.

Director, Centre for Advanced Maintenance Technology (CAMTECH), Gwalior

- Standardized and documented best practices for locomotive maintenance to ensure reliable and efficient operations.
- Designed innovative maintenance strategies and solutions to complex technical challenges.

Previous Assignments:

- **Over 35 years of comprehensive experience** spanning operational, managerial, and strategic leadership roles across multiple zones of Indian Railways—Western, South Eastern, North Central, Central, and East Coast Railways—as well as Bharat Heavy Electricals Ltd. (Maharatna PSU) and premier research institutions.
- **Expertise in formulating, implementing, and monitoring** railway operations across key divisions of Indian Railways, ensuring efficiency, safety, and reliability of large-scale transport networks.
- **Proven track record in developing and overseeing Railway Safety Management Systems**, driving systemic improvements, and embedding a culture of operational safety and compliance.
- **Extensive teaching and research experience** with leading institutions including MMM Engineering College (Gorakhpur), Centre for Advanced Maintenance Technology – RDSO (Gwalior), and BHEL Jhansi, contributing to capacity building, innovation, and knowledge dissemination in railway technology and management.

Awards:

- Awarded “**Certificate of Appreciation for Leadership & Performance Excellence**” by Ministry of Railways on 7th March, 2019.
- Commendation from General Manager for excellence in Maintenance and Reliability of electric locomotives in Bondamunda Loco Shed, S.E. Railway.
- Railway Minister Rajbhasha Award for the use of Rajbhasha in technical activities of Railways.
- Fellow of Institute of Engineers (IE India) in 2006

Training & Professional Development

International Programs

- Completed **Leadership Management Programme** at *Bocconi University, School of Management*, Milan, Italy.
- Completed **Management Development Programme** at *INSEAD*, Singapore.
- Completed **Executive Management Programme** at *ICLIF*, Kuala Lumpur, Malaysia.

National Programs

- Participated in multiple **technical and management development programs** at *National Academy of Indian Railways (NAIR)*, Vadodara and *Indian Railways Institute of Electrical Engineering (IRIEEN)*, Nashik.

Seminars & Conferences

- Delivered **guest lectures** at *Russian University of Transport (MIIT)*, Moscow on *Challenges in Transport & Logistics*.
- Attended the **National Training Conclave**, *Capacity Building Commission*, Government of India.
- Participated in the **IEEE International Conference on “Recent Application of Soft Computing in Engineering and Technology.”**
- Participated in the **National Seminar on “Application of Mathematics in Engineering & Technology.”**
- Attended the **National Conference on “Recent Trends in Information and Communication Technology (RTICT 2009).”**
- Presented and published **technical papers** at several national and international seminars organized by leading technical institutes.

Publications:

- Attached in Annexure ‘ A ’

Hobbies:

- **Creative Writing** – Author of a Hindi poetry collection “*शब्दों के परे*” (currently under publication); regularly write poems and participate in literary forums.
- **Poetry Recitation** – Performed in multiple poetry recital programs, including broadcasts at *All India Radio* local centres.
- **Music & Singing** – Passionate about vocal music with active participation in cultural performances.
- **Sports & Fitness** – Enthusiastic about badminton, cricket, and aquatics; served as *Manager of the BNR Aquatics Team*.

Areas of Interest

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- Urban Transport Planning & Smart Cities
- Energy Storage Systems & Battery Technologies

- Public Policy & Regulatory Frameworks
- Supply Chain Optimization in Energy & Rail Sectors
- Human Resource Development & Skill Enhancement
- Global Railway Trends & International Collaboration

LIST OF PAPERS PUBLISHED

1. Doctorate Thesis- “Intelligent Diagnostic and Monitoring of Electrical Drives- A Predictive Maintenance Strategy for Locomotive Auxiliary Machines.”
2. ICFAI Journal of Electrical & Electronics Engineering “Statistical Analysis of Vibration Signals - A Predictive Maintenance Strategy for Locomotive Auxiliary Machines.”
3. Journal of The Institution of Engineers (India) “Improved Performance through Intelligent Condition Based Maintenance of Rail Locomotives.”
4. IEEE Sponsored International conference on recent application of Soft Computing in Engineering and Technology - “Vibration Monitoring and Analysis, A tool to Predictive Maintenance of Rotating Machines.”
5. IUP Journal for Electrical & Electronics Engineering- “Condition based Predictive Maintenance Strategy for Electrical Machines.”
6. National Seminar on Application of Mathematics in Engineering & Technology- “Wavelet Transform: An Effective Tool for Vibration Based Monitoring of Induction Motors.”
7. National Level Conference on Recent Trends in Information and Communication Technology, Bannari Amman Institute of Technology Sathyamangalam Tamil Nadu- “Application of Vibration Diagnostics in Transport Industry and its Peculiarities.”
8. International Conference on arts, Science, Management and Engineering organized by Cogent International and KLS Gogte Institute of Technology, Karnataka “Neural Network Based Online Condition Monitoring of Railway Locomotive Equipment Using Wavelet Transform.”