

UNIVERSITY OF RAIL TECHNOLOGY AND MANAGEMENT



The banner features a large blue and white high-speed train on the left, a modern glass-walled university building on the right, and a group of students in business attire working on a laptop in the foreground. The central text area is white with blue and red accents.

ALL INDIA RAIL SAFETY COUNCIL
श्रील भारतीय रेल सुरक्षा परिषद

UNIVERSITY OF RAIL TECHNOLOGY AND MANAGEMENT

★ ★ A VISION FOR THE FUTURE • A MISSION FOR THE NATION ★ ★

This University represents a bold and futuristic step toward redefining sector-driven education, aimed at creating a highly skilled, adaptive, and globally competitive workforce for the rail, infrastructure, logistics, and mobility sectors.

SECTOR-DRIVEN EDUCATION **INNOVATION & RESEARCH** **SAFETY & RESILIENCE** **GLOBAL PERSPECTIVE** **LEADERSHIP & EMPLOYABILITY**

SCHOOLS OF EXCELLENCE

01	02	03	04	05	06	07
SCHOOL OF RAIL ENGINEERING & INFRASTRUCTURE	SCHOOL OF RAIL SAFETY & DISASTER MANAGEMENT	SCHOOL OF TRANSPORT & LOGISTICS MANAGEMENT	SCHOOL OF TECHNOLOGY, AI & DIGITAL RAIL SYSTEMS	SCHOOL OF BUSINESS, LEADERSHIP & POLICY	SCHOOL OF SUSTAINABILITY & ENVIRONMENTAL STUDIES	SCHOOL OF SKILL DEVELOPMENT & VOCATIONAL TRAINING
- Track & High-Speed Rail - Signalling & Control - Rolling Stock & Modernization - Smart Rail & Metro Systems	- Risk Assessment - Accident Investigation - Disaster Preparedness - Emergency & Crisis Leadership	- Multimodal Logistics - Freight Corridors - Urban Mobility - Integrated Transport Systems	- AI & Data Analytics - IoT & Predictive Maintenance - Cybersecurity - Automation & Robotics	- Infrastructure Finance - Policy & Regulation - Strategic Management - Leadership & Global Strategy	- Green Rail Technologies - Climate Resilience - Environmental Impact Assessment - Sustainable Mobility	- Technician Certification - Simulation Training - Industry Apprenticeship - Employability Enhancement

INDUSTRY INTEGRATION

- Industry-aligned Programs
- Custom Executive Education
- Real-time Curriculum Updates
- Digital Portal for Lifelong Learning
- Autonomous | Skill-oriented | Global | Industry-recognized

RESEARCH & INNOVATION HUB

- Rail Safety & Accident Prevention
- Smart Mobility & Intelligent Systems
- Disaster Risk Reduction
- Emerging Technologies
- Creativity – Competence – Challenge

INNOVATIVE LEARNING MODEL TRIANGLE APPROACH

- ONLINE LEARNING
- FLEXIBLE FUTURISTIC IMPACTFUL
- MANUAL / EXPERIENTIAL LEARNING
- BLENDED LEARNING

Shaping the Future of Mobility, Infrastructure and Human Capability

UNIVERSITY OF RAIL TECHNOLOGY AND MANAGEMENT

www.railsafety.co.in | **STATE-OF-THE-ART CAMPUS** | **GLOBAL PARTNERSHIPS** | **100% EMPLOYABILITY FOCUS** | **LEADING A SAFER, SMARTER & SUSTAINABLE FUTURE**

The University of Rail Technology and Management is a landmark initiative envisioned by Dr. R. Padmanabhan, Chairman of the All India Rail Safety Council, a distinguished authority in rail safety and disaster management, in strategic collaboration with Dr. Rahul Misra, Vice Chairman and an internationally experienced management expert.

This University represents a bold and futuristic step toward redefining sector-driven education, aimed at creating a highly skilled, adaptive, and globally competitive workforce for the rail, infrastructure, logistics, and mobility sectors.

Context & Global Relevance

The 21st century has ushered in an era of unprecedented transformation driven by digitalization, artificial intelligence, global connectivity, sustainability imperatives, and smart infrastructure development. Traditional education systems are increasingly challenged by the speed, scale, and complexity of these changes.

Aligned with the transformative goals of National Education Policy 2020, the University is designed to bridge the widening gap between academic knowledge and industry expectations, especially in mission-critical sectors such as railways, transport systems, and disaster resilience.

In today's 24/7 global economy, professionals must be:

Technologically proficient

Operationally agile

Safety-conscious

Globally aware

The University responds to this need by creating a future-ready learning ecosystem.

Core Academic Domains & Schools of Excellence

The University will establish multi-disciplinary Schools and Centres of Excellence, integrating technology, management, and safety sciences:

1. School of Rail Engineering & Infrastructure

Railway track engineering & high-speed rail systems

Signalling, telecommunications & train control systems

Rolling stock design, maintenance & modernization

Smart rail infrastructure & metro rail systems

2. School of Rail Safety & Disaster Management

Rail safety engineering and risk assessment

Accident investigation & forensic analysis

Disaster preparedness, response & resilience

Fire safety, emergency evacuation & crisis leadership

3. School of Transport & Logistics Management

Multimodal logistics & supply chain management

Freight corridors & port connectivity

Urban mobility & smart transportation systems

Aviation, maritime & integrated transport studies

4. School of Technology, AI & Digital Rail Systems

Artificial Intelligence in rail operations

Internet of Things (IoT) & predictive maintenance

Data analytics, cybersecurity & digital twins

Automation, robotics & smart control systems

5. School of Business, Leadership & Policy

Infrastructure finance & project management

Public policy & regulatory frameworks

Strategic management for transport sectors

Leadership development & global business strategy

6. School of Sustainability & Environmental Studies

Green rail technologies & energy efficiency

Climate resilience in transport infrastructure

Environmental impact assessment

Sustainable urban mobility

7. School of Skill Development & Vocational Training

Technician and operator skill certification

Field-based and simulation-driven training

Industry apprenticeship programs

Employability enhancement modules

The University aims to transform professional education into an employability-driven ecosystem by:

Creating industry-aligned, outcome-based programs

Establishing global academic and corporate partnerships

Promoting research, innovation, and incubation in rail technologies

Building a benchmark institution for sector-specific education

The ultimate goal is to produce job creators, innovators, and safety leaders, not merely degree holders.

Innovative Learning Model – Triangle Approach

To meet diverse learning needs and global accessibility, the University will adopt a Triangular Learning Framework:

Online Learning

Global classrooms, digital platforms, AI-enabled learning systems

Blended Learning

Integration of classroom teaching with digital simulations and case studies

Manual / Experiential Learning

Hands-on training, live projects, field exposure, and industry immersion

Industry Integration & Custom Programs

The University will function as a dynamic knowledge and innovation hub, offering:

Tailor-made programs endorsed by industry and corporate partners

Customized executive education and leadership programs

Real-time curriculum updates based on industry demand

A dedicated digital portal for flexible, modular, and lifelong learning

Programs will be:

Autonomous

Skill-oriented

Globally benchmarked

Industry-recognized

Research, Innovation & Knowledge Platform

The University will establish advanced research centres focusing on:

Rail safety innovation and accident prevention technologies

Smart mobility and intelligent transport systems

Disaster risk reduction and resilience engineering

Emerging technologies in infrastructure and logistics

This knowledge platform will be built on three pillars:

Creativity – Competence – Challenge

Institutional Vision

The University of Rail Technology and Management is envisioned not merely as an academic institution, but as a national and global centre of excellence that will:

Redefine professional education in the rail and transport sector

Contribute to nation-building and infrastructure growth

Support Make in India and Atmanirbhar Bharat initiatives

Position India as a global leader in rail safety, technology, and management education

In a rapidly evolving world where technology, safety, and management converge, the University stands as a transformational initiative—designed to shape the future of mobility, infrastructure, and human capability.

It is a vision of excellence, innovation, and national progress, committed to creating professionals who are not only employable but also capable of leading change in a complex, interconnected world.



UNIVERSITY OF RAIL TECHNOLOGY AND MANAGEMENT

Shaping the Future of Rail, Infrastructure and Mobility

Knowledge • Innovation • Safety • Sustainability

— A Visionary Foundation —



Visionary Foundation

The University of Rail Technology and Management is a landmark initiative envisioned by Dr. R. Padmanabhan, Chairman of the All India Rail Safety Council, in strategic collaboration with Dr. Rahul Misra, Vice Chairman and an internationally experienced management expert.

This University represents a bold and futuristic step toward redefining sector-driven education, aimed at creating a highly skilled, adaptive, and globally competitive workforce for the rail, infrastructure, logistics and mobility sectors.

Context & Global Relevance

Aligned with National Education Policy 2020, the University bridges the gap between academic knowledge and industry expectations in railways, transport and disaster resilience. It creates a future-ready learning ecosystem for the 21st century.

- In today's 24/7 global economy, professionals must be:

- Technologically proficient
- Operationally agile
- Safety-conscious
- Globally aware

Our Mission

To transform professional education into an employability-driven ecosystem and produce **job creators, innovators and safety leaders**, not merely degree holders.



Core Academic Domains & Schools of Excellence

1 School of Rail Engineering & Infrastructure

- Railway track engineering & high-speed rail systems
- Signalling, telecom & train control systems
- Rolling stock design & modernization
- Smart rail & metro rail systems



2 School of Rail Safety & Disaster Management

- Rail safety engineering & risk assessment
- Accident investigation & forensic analysis
- Disaster preparedness & resilience
- Fire safety & crisis leadership



3 School of Transport & Logistics Management

- Multimodal logistics & supply chain
- Freight corridors & port connectivity
- Urban mobility & smart transport systems
- Aviation, maritime & integrated transport



4 School of Technology, AI & Digital Rail Systems

- AI in rail operations
- IoT & predictive maintenance
- Data analytics, cybersecurity & digital twins
- Automation, robotics & smart control systems



5 School of Business, Leadership & Policy

- Infrastructure finance & project management
- Public policy & regulatory frameworks
- Strategic management for transport sectors
- Leadership development & global strategy



6 School of Sustainability & Environmental Studies

- Green rail technologies & energy efficiency
- Climate resilience in transport
- Environmental impact assessment
- Sustainable urban mobility



7 School of Skill Development & Vocational Training

- Technician and operator skill certification
- Field-based & simulation training
- Industry apprenticeship programs
- Employability enhancement modules



Triangular Learning Framework

- Online Learning**
Global classrooms, AI-enabled platforms
- Blended Learning**
Classroom + simulations + case studies
- Manual / Experiential Learning**
Hands-on training, live projects and industry immersion



Industry Integration & Custom Programs

- Tailor-made programs endorsed by industry partners
- Customized executive education & leadership programs
- Real-time curriculum updates
- Digital portal for flexible, modular & lifelong learning

Autonomous | Skill-oriented | Globally benchmarked



Research, Innovation & Knowledge Platform

- Rail safety innovation & accident prevention
- Smart mobility & intelligent transport systems
- Disaster risk reduction & resilience engineering
- Emerging technologies in infrastructure & logistics

Built on Three Pillars

Creativity | Competence | Challenge



Institutional Vision

- Redefine professional education in rail & transport
- Contribute to nation-building and infrastructure growth
- Support Make in India & Atmanirbhar Bharat
- Position India as a global leader in rail safety, technology and management education

Building Skills • Creating Opportunities • Ensuring Safety • Driving Sustainable Mobility



World-Class Education



Research & Innovation



Industry Partnerships



Global Opportunities



Safe Tracks Strong Nation

UNIVERSITY OF RAIL TECHNOLOGY AND MANAGEMENT
A Transformational Initiative for a Safer, Smarter and Greener Tomorrow

www.railsafety.co.in



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Visionary Foundation

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RAILWAY
EXCELLENCE



TECHNOLOGY
INNOVATION



MANAGEMENT
LEADERSHIP



SAFETY
FIRST



World-Class Education



Industry Collaboration



Research & Innovation



Global Opportunities



AIRSC ACADEMY OF SAFETY & DISASTER MANAGEMENT

DISASTER MANAGEMENT

Building a Safer, More Resilient Railway Ecosystem
Through Knowledge, Preparedness and Professional Excellence

An Initiative of the All India Rail Safety Council (AIRSC)

RISK IDENTIFICATION
& MITIGATION

EMERGENCY
PREPAREDNESS

RESPONSE & RESCUE
OPERATIONS

TRAINING &
CAPACITY BUILDING

TECHNOLOGY &
INNOVATION

COMMUNITY
AWARENESS



OUR KEY FOCUS AREAS



RAILWAY &
METRO DISASTER
PREPAREDNESS



INDUSTRIAL &
INFRASTRUCTURE
SAFETY



EMERGENCY
RESPONSE &
RESCUE



TRAINING &
SIMULATION
BASED LEARNING



DISASTER RISK
REDUCTION &
PLANNING



RESEARCH &
INNOVATION



BUSINESS
CONTINUITY &
RESILIENCE



COMMUNITY
SAFETY &
AWARENESS

OUR COMMITMENT

- ✓ Protecting Lives
- ✓ Securing Infrastructure
- ✓ Ensuring Operational Continuity
- ✓ Building a Resilient Nation



EXPERT FACULTY
& PROFESSIONALS



PRACTICAL TRAINING
& MOCK DRILLS



CERTIFICATION
PROGRAMMES



INDUSTRY & AGENCY
COLLABORATION



STATE-OF-THE-ART
FACILITIES

JOIN US IN BUILDING
A SAFER & RESILIENT INDIA



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