



lead. change. build. sustain.

BSc in Transportation Technology
BBA in Transportation Management





BE THE TRANSFORMATION...

- In India's transport ecosystem

LEAD THE CHANGE...

- Learn to adopt an interdisciplinary approach towards solving problems and finding solutions from the best national and international minds at a world-class university

CHALLENGE THE STATUS QUO...

- With cutting-edge academic research dedicated to innovation, academic excellence, sustainable practices and nation-building

BUILD INDIA...

- Become a problem-solver, critical thinker, effective communicator and versatile leader, with a sustainable and responsible approach integral to your vision, mission and value systems

Be the transformation, lead the change and build a nation.

We need young
change-makers.



ABOUT NATIONAL RAIL & TRANSPORTATION INSTITUTE

Currently the world's seventh largest commercial employer with over 1.3 million employees, Indian Railways has evolved into the fourth largest rail network globally. Boasting about 115,000 km of track length across more than 7,000 stations, Indian Railways touches the lives of more than 23 million passengers, the equivalent of Australia's entire population, daily.

Realising the opportunity to bring in transformational change not only in the transportation sector, but in nation-building on a larger scale, the Indian Railways has established India's first university focused on transport and allied industries.

National Rail and Transportation Institute (NRTI) is a pioneer in the field of transport education in India. It is the first-of-its-kind university with a vision to develop a cadre of young graduates who are empowered problem-solvers with an actionable understanding of the transportation ecosystem.



NRTI's path-breaking undergraduate programmes have a unique pedagogical focus on experiential learning and practice, and cutting-edge research and innovation, through the lens of management and technology.

NRTI offers an exclusive transformative learning experience and environment, both on campus under the guidance of its globally renowned faculty and off it with the Indian Railways as the practice hub, to transform graduates into responsible nation-builders.

OUR CAMPUS

NRTI, a deemed to be university, is being set up in Vadodara, Gujarat. The 55-acre campus is a wooded sanctuary enlivened by the calls of peacocks and migratory birds and houses the Pratap Vilas Palace. The palace, designed by C.F. Stevens in the renaissance style, was built in 1914 AD and originally belonged to the Gaikwads of Vadodara.

Campus life in the luxurious/regal sylvan surroundings promises students the best possible ambience for intellectual and academic pursuits amid heritage and nature.

The university campus offers the most modern facilities with badminton and squash courts, swimming pool, air-conditioned indoor living quarters for students and much more.

NRTI aims to be the world's leading university focussed on the transportation industry, creating and imparting knowledge across the fields of engineering & applied sciences, humanities, management, planning and design.



OUR PHILOSOPHY

In India, there is an ever increasing demand for skilled manpower, especially in the transportation and logistics sectors.

NRTI envisions being an enabler of technically qualified professional talent with an entrepreneurial bent of mind. Through its unique blend of pedagogy and experiential learning undergraduate and postgraduate programmes, NRTI will prepare leaders of tomorrow who will become pivotal in shaping the contours of the Indian economy.

“Our philosophy is to ensure that NRTI students graduate not only with a solid grounding in their discipline, but also with a set of core values – dedication to nation-building, commitment to innovation and academic excellence, compassion towards people and society and responsibility towards the environment.”

OUR COMMITMENT

NRTI is committed to providing an environment of excellence that nurtures creativity, entrepreneurial skills and a human-centred approach in young people, to develop them as influential leaders and intelligent nation-builders.

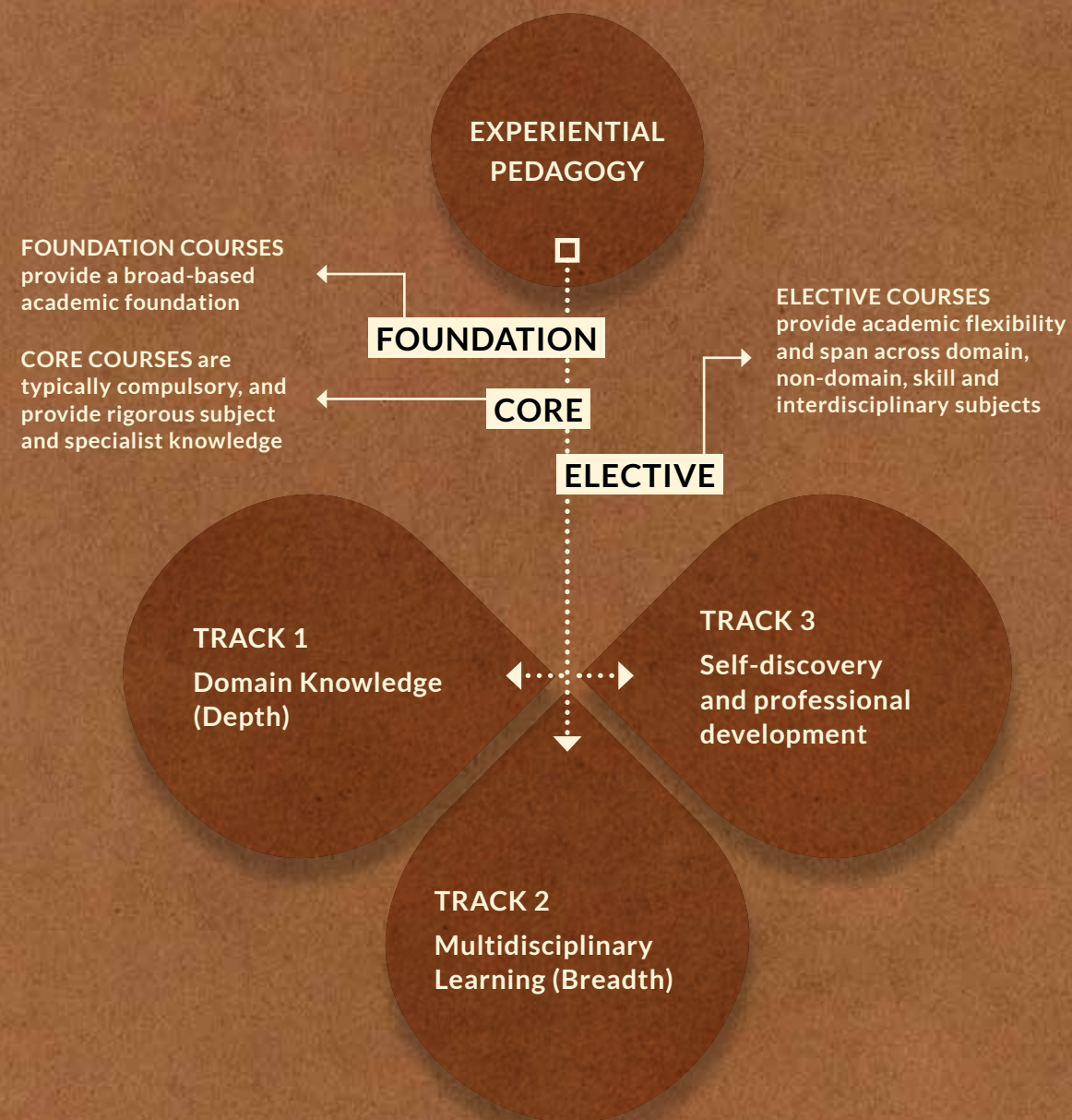
NRTI is committed to developing talent and building capacity for contextual and systemic solutions to current and future problems in the exciting sphere of transportation.

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OUR PEDAGOGY

The pedagogy at NRTI reflects an application-oriented and values-based approach to academic learning.

Innovation, multidisciplinary research and teaching, relevant academia-industry collaborations, and rigorous experiential learning are the key elements of NRTI academic degree programmes.



The curriculum for each NRTI programme comprises three distinctive learning tracks:

Domain knowledge (depth), for students to acquire depth in their core field of study

Multidisciplinary learning (breadth), for students to learn about and understand diverse fields and areas of inquiry, broadening their perspective

Self-discovery and professional development, for students to acquire a learning mindset, develop professional competencies and 21st century skills, and become values-driven citizens of the country

Students will have the freedom to shape their academic programme through a choice-based credit system and course selection from a broad set. Each course will be offered under one of the following heads:

Foundation courses: Subjects that help develop and nurture a strong, broad-based academic and intellectual foundation, essential for the degree

Core courses: These pertain to the programme's main field of study and will generally correspond to domain knowledge

Elective courses: These will include topics related to specialisation or concentration, as well as interdisciplinary subjects that may not be directly related to the core field of study

“Quest for Excellence is the underlying theme of establishing NRTI”

INDIAN RAILWAYS THE EXPERIENTIAL LABORATORY

The pedagogy at NRTI is based on the best practices across the world, while consciously enabling and equipping students to address Indian problems with unique solutions. It reflects an application-oriented and values-based approach to academic learning. Innovation, multidisciplinary research and teaching, relevant academia-industry collaborations, and rigorous experiential learning are the key elements of the academic degree programmes.

The transportation industry is at the core of implementing innovative changes. Indian Railways, in particular, will uniquely serve as a live and practical experiential learning laboratory for the student community as well as for faculty development initiatives. This unique integration creates a very distinct character for the university — an institution where excellence is a continuous endeavour.

OUR SCHOOLS

NRTI envisions setting up five schools to impart quality education across interrelated transportation areas.

- Engineering and Applied Science
- Management and Leadership
- Humanities, Arts and Social Sciences
- Transport Planning and Design
- Transport Policy and Law



OUR PROGRAMMES

NRTI's endeavour for excellence reflects in its inaugural undergraduate programmes. Designed as three-year full-time residential courses, these unique programmes offer interdisciplinary immersion with focus on surface transportation.

NRTI's flagship undergraduate programmes provide students the opportunity to learn from global faculty, practitioners, experts, and academicians.

Through a values-based approach to academic learning, students will be equipped with both, a solid grounding in their core field of study, as well as core values, such as, inclusive leadership, nation-building, empathy, and environmental consciousness.

The focus of the programmes is to prepare intellectuals grounded in practicality and equipped with 21st century skills — critical thinking, problem-solving, communication and collaboration.



Inaugural Undergraduate Programmes

BSc TRANSPORTATION TECHNOLOGY
School of Engineering and Applied Science

BBA TRANSPORTATION MANAGEMENT
School of Management and Leadership

BBA Transportation Management

This is a specialised programme focussed on management practices in the context of the transportation sector. The curriculum is designed to introduce young minds to develop new ideas, innovative concepts, refined skills and in-depth knowledge to question, evaluate, invent and redefine surface transport ecosystems in India and the world.

BSc Transportation Technology

Meant to prepare a cadre of transportation technologists and specialists, this programme focusses on technology and its application in the field of transportation. It is designed to orient young minds to finding technology solutions through the application of new ideas, knowledge and skills and play a crucial role in India's rapid march to intelligent transport systems of the future.

PROGRAMME STRUCTURE

The programmes follow NRTI’s innovative undergraduate curriculum structure. The experiential pedagogy format embeds workshops/laboratory/studio work within taught courses. This unique teaching-learning methodology and environment enables students to understand concepts and develop an application-oriented approach from early on.

The programme structure offers students the flexibility to build an academic plan that has the requisite composition of core, foundation and elective subjects from all the three learning tracks:

- **Domain knowledge**
- **Multidisciplinary learning**
- **Self-discovery and professional development**

To earn a Bachelor’s degree, each student completes the requisite minimum credits over the programme period of three years comprising three trimesters each. Students typically study four courses in a trimester, across eight trimester, and spend one trimester in their final year, experiencing a live industry project or preparing a thesis.

Students are required to undertake at least one summer internship in the first two years that offers them exposure to the railways and allied transportation industries.

A INDICATIVE LIST OF COURSE OFFERINGS INCLUDE:

FOUNDATION COURSES

- Dynamics of the Transportation Ecosystem
- Critical Thinking and Writing
- Design Thinking
- Fundamentals of Economics
- Environmental Sciences and Sustainability
- Communication and Negotiation
- Ethics
- Data Analytics
- Leadership

MANAGEMENT-RELATED COURSES

- Essentials of Business
- Principles of Accounting and Finance
- Principles of Marketing
- Supply Chain Planning and Control
- Operations Management Strategy
- Transport Systems Management
- Project Management
- Special Topics in Transportation Management

TECHNOLOGY-RELATED COURSES

- Intelligent Transport Systems
- Information Systems
- Linear and non-linear dynamics
- Green Logistics and Mobility Technology
- Strategic Information Systems
- Introduction to Transport Operations and Technology
- Technology, Law and Ethics
- Special Topics in Transportation Technology

LEARNING OUTCOMES

As a student, regardless of whether you join the technology or management programme, you can expect to:

- Enhance your technical and core skills in general management or technology
- Receive specialised academic training to think broadly and deeply across transportation-focussed areas such as sustainable transport systems, urban and rural transportation, and transport economics, among others
- Collaborate with like-minded individuals from diverse disciplines in an environment of enquiry that promotes excellence to tackle transport environment challenges pertaining to Indian Railways and drive innovative surface transport ecosystem solutions
- Gain from deeper understanding of self and others and develop into an empathetic purpose-driven leader to render unique services to the larger society
- Acquire skills of the future — empathy, collaboration, creative problem-solving, and change-making



globally reputed faculty
and inspirational
mentors...



SCHOLARSHIPS FOR 2018-19

In the inaugural year (2018-19), NRTI will offer up to 100% scholarship (Need - blind admission), covering the following:

- Tuition Fees
- Hostel & Mess Fees



JOIN AN ECLECTIC COHORT OF CREATIVE CHANGE-MAKERS

NRTI consciously welcomes problem-solvers from diverse fields, be it arts, science or commerce, to come together and nudge their peers to think broadly, deeply, and holistically.

As an undergraduate student, you will spend your time in collaborative intellectual pursuits with some of the most passionate young people chosen through a highly competitive selection process.

Come experience how, as an ideating and thinking mind, your opinions and observations can become more implementable, environmentally-sustainable, inclusive, contextually-relevant, and people-oriented – through the perspectives of transportation managers and others.

At NRTI, you will form some of the most enduring bonds with fellow students, faculty and staff members, who will become your lifelong go-to supports both professionally and personally.

We invite you to join our inaugural programmes.

INTAKE

Upto 100 students, across the BBA and BSc Programmes

ELIGIBILITY

- **BSc in Transportation Technology** is open to Science Stream Students (with mandatory Class XII Mathematics)
- **BBA in Transportation Management** is open to students from all Streams (with mandatory Class XII Mathematics)
- **Applicants must have successfully completed their 10+2 Board examination** with at least 55% marks (50% for OBC/SC/ST) and be below the age of 25 years as on August 1, 2018

REGISTRATION & SELECTION PROCESS

1. Register online at www.nrti.in
2. Registered students will be shortlisted (based on Class XII board results) to take an NRTI Admission Aptitude Test. Shortlisted students will be contacted and requested to apply online to select a test centre location, and upload relevant documents (Class XII Marksheets, photograph, etc.)

and pay an application fee. The test will be administered in July 2018 at specified test centres located across the country. Test date and locations will be shared shortly.

3. Final list of candidates will be selected based on NRTI Admission Aptitude Test result ranking.

ANNUAL FEES

Annual BBA or BSc Tuition Fee: INR 37,500 (INR 75,000 plus 50% 'founding batch' scholarship)

Annual Hostel Fee: INR 25,000

Annual Mess Fee: INR 20,000

Total Annual Fee: INR 82,500

FINANCIAL AID

Students at NRTI will be selected entirely on their merit and aptitude. NRTI is committed to seek the best candidates without limitations of their financial backgrounds. Therefore, we will follow a Need-Blind admission policy, where NRTI will provide up to 100% scholarship, based on each individual's specific financial need.

Visit **www.nrti.in** for details



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