

**PRESS INFORMATION BUREAU  
GOVERNMENT OF INDIA**

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**With an eye on future, Indian Railway launches 7 academic programs aimed at creating best skills sets in Railway Infrastructure Management, Systems & Communication Engineering and Transportation cum Supply Chain Management**

**National Rail & Transportation Institute (NRTI) launches 7 new Programmes, 2 B. Tech UG Programmes, 2 MBA and 3 MSc Programmes on core applied sector**

**The 2 B.Tech Programs are focused on Rail Infrastructure, Rail Systems and Communications Engg**

**While the MBA programs are focused at Transportation and Supply Chain Management which are of highest priority in the coming years, the MSc Programs are focused on the Systems Engineering and Integration, Systems and Analytics, Policy and Economics which are the core areas the Nation is looking forward to.**

**Of this, the M.Sc Program on Systems Engineering and Integration is offered in association with the University of Birmingham, UK and is highly promising. The international exposure to the students will be unparalleled.**

**New Delhi, 12th November 2020**

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The 2 B Tech Programs are focused on Rail Infrastructure, Rail Systems and Communications Engg, while the MBA programs are focused at Transportation and Supply Chain Management which are of highest priority in the coming years, the MSc Programs are focused on the Systems Engineering and Integration, Systems and Analytics, Policy and Economics which are the core areas the Nation is looking forward to. The MSc Program on Systems Engineering and Integration is offered in association with the University of Birmingham, UK and is highly promising. The international exposure to the students will be unparalleled.

These programmes are highly inter-disciplinary and application oriented and not being offered by any other Institute in India and thus, unique in its contents.

Speaking on the occasion, Shri V.K.Yadav, Chairman & CEO, Railway Board said, "NRTI has adopted an interdisciplinary approach for research of transport systems -it is bringing together academicians, scientists and engineers from various backgrounds, and plans to leverage its academic and industry partnerships and collaborations. It intends to develop 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. It offers project-based learning at Railway establishments. Indian Railways will be at the core of implementing the key features of the programmes. It will serve as an experiential learning laboratory for the student community as well as the faculty development initiatives, thereby creating a distinct character for the University: through a highly experiential and application-based learning approach. The students passing out of these programs as tomorrow's citizens could add great value in nation building."

#### **Unique features of Academic Programmes at NRTI**

<b>S. No.</b>	<b>Name of the Programme</b>	<b>Duration</b>	<b>Unique feature of the programme</b>
1.	BBA in Transportation Management	3 year	<ul style="list-style-type: none"> <li>❖ This is a specialized programme focused on management practices in the context of the transportation sector.</li> <li>❖ The key focus areas of the programme include urban planning models, supply chain management, project management, Sociological Contexts and Transportation and financial models for transportation systems.</li> </ul>
2.	BSc in Transportation Technology	3 year	<ul style="list-style-type: none"> <li>❖ This programme focuses on technology and its application in the field of transportation.</li> <li>❖ The key focus areas of the programme include Transportation Technologies of the 21st Century, Vehicle Systems Design, Urban Traffic Management and Control, Hybrid Electric Vehicle Theory and Design and Transportation Systems Design.</li> </ul>
3.	B.Tech. in Rail Infrastructure Engineering	4 year	<ul style="list-style-type: none"> <li>❖ The programme intends to develop knowledge and skills for the design and development of rail infrastructure.</li> <li>❖ The key focus areas of the programme include Vehicle Systems Design, Bridge</li> </ul>

			Design and Structures, Safety and Reliability, Geotech, Railway Electrification, and HVAC Systems for Railways.
4.	B.Tech. in Rail Systems & Communication Engineering	4 year	<ul style="list-style-type: none"> <li>❖ The programme develops knowledge and future skills in the domain of rail systems and communication technologies.</li> <li>❖ The key focus areas of the programme include Railway Control Systems Engineering, Computer Networking &amp; Management, Mobile communication, Passenger Information Systems, Big Data &amp; Data Analytics and Artificial Intelligence &amp; Machine Learning.</li> </ul>
5.	MBA in Transportation Management	2 year	<ul style="list-style-type: none"> <li>❖ The programme intends to develop skills in designing, organizing, and supervising the transportation systems with a key focus on future sustainability.</li> <li>❖ The key focus areas of the programme includes managing investments of transportation systems, designing multi-modal transportation models, intelligent transportation systems, environmental impact of transportation systems and traffic management &amp; control.</li> </ul>
6.	MBA in Supply Chain Management	2 year	<ul style="list-style-type: none"> <li>❖ The programme focuses on the development of key managerial and analytical skills for design, integration and coordination of supply chains at multiple levels for improving the competitiveness of businesses through innovative and dynamic solutions.</li> <li>❖ The key focus areas of the programme includes logistics &amp; warehousing systems, supply chain strategy, freight transportation and revenue management.</li> </ul>
7.	MSc in Railway Systems Engineering & Integration (International degree programme offered in collaboration with University of Birmingham, UK)	2 year	<ul style="list-style-type: none"> <li>❖ This is a unique programme offered in collaboration with University of Birmingham, UK. The students will study at University of Birmingham in second year.</li> <li>❖ An international exposure will help the student to enhance their learning experience in the domain of railway systems and specific technological challenges involved in engineering designs.</li> <li>❖ The programme has an intention to develop skills and knowledge in railway engineering</li> </ul>

			<p>knowledge, systems integration skills and understanding of the complex interactions between subsystems</p> <ul style="list-style-type: none"> <li>❖ Specialized courses at the University of Birmingham in areas such as strategic management of railway operations, railway rolling stock systems design, railway traction systems design, railway control systems engineering and railway business management.</li> </ul>
8.	MSc in Transport Technology and Policy	2 year	<ul style="list-style-type: none"> <li>❖ The programme addresses key challenges involved in integration of transport technology and policy measures required for a sustainable economic development of the country.</li> <li>❖ The key focus areas of the programme include transportation finance, issues in integrating behavior and policy in transport planning, urban planning models, information policy and multi-modal transportation.</li> </ul>
9.	MSc in Transport Information Systems and Analytics	2 year	<ul style="list-style-type: none"> <li>❖ The programme intends to develop advanced knowledge in information systems, data science, and analytics in the context of transportation.</li> <li>❖ The key focus areas of the programme include data models &amp; decisions, information policy, big data and network theory to develop an interdisciplinary perspective.</li> </ul>

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