

B.TECH. (RAIL SYSTEMS & COMMUNICATION ENGINEERING)

Foundation Courses

Mathematics

Introduction to Spreadsheets

Environmental Studies

Communication & Storytelling

Critical Thinking & Writing

Fuels & Lubrication

Physics

Programming

Engineering Visualization

Workshop Practices Lab

OR Models/Linear Programming

Introduction to Electrical Engineering

Kinetics of Machines

Leadership – Managing Self and Others

Ethics for Engineers

Design Thinking

Entrepreneurship

The Art of Negotiation

Core Courses

Signal and Systems

Introduction to Communication Technologies

Vehicle Dynamics

Electronic System Design

Computer Networks

Microprocessors and Embedded Systems

Power Electronics and Motors and Controllers

Principles of Railway Operations

Railway Signalling Systems with Lab

Sociological Contexts of Transportation

Advances in Rail Technology

Control Systems with Lab

Power Systems and HVAC

Advanced Communication Technologies with Lab

Traction Systems for Railways with Lab

Transportation Economics

Track Design and Systems