

B.TECH. (MECHANICAL & RAIL 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

Electrical and Electronics Engineering

Engineering Thermodynamics

Railway Engineering Systems

Fluid Mechanics

Sociological Contexts of Transportation

Kinetics of Machines

Heat Transfer

Solid Mechanics

Materials for Railway Systems

Rolling Stock Vibrations

Manufacturing Processes

Civil Infrastructure Fundamentals

Tribology

Rail Propulsion Systems

High Speed Rail Systems

Refrigeration & Air-Conditioning

Design of Rolling Stock

Speed, Braking and Brake Testing Systems

Traction Systems for Railways

Aerodynamics of High Speed Train

Transportation Economics

Signalling Systems for Railways