

# **AMTS23 RAILWAY INFRASTRUCTURE, PLANNING AND DESIGN**

## **UNIT-1 RAIL TRANSPORTATION**

Importance, rail transportation as compared to other means of transport, current position, demand analysis and forecasting, project analysis and design, case studies.

## **UNIT-2 RAILWAY TRACK GAUGES AND GEOMETRIC DESIGN OF TRACK**

## **UNIT-3 TRACK MAINTENANCE INCLUDING MODERN METHOD**

Necessity and advantages of track maintenance; equipment and tools for tracks; mechanized methods of track maintenance; off-track tampers

## **UNIT-4 RAILWAY ACCIDENTS AND DISASTER MANAGEMENT**

Train accidents; classification of accidents; Derailment and its causes; safety measures

## **UNIT-5 SUBURBAN RAILWAYS IN METRO CITIES URBAN TRANSPORT; MRTS IN DELHI**

### **Reference Books:**

1. Railway Engineering by Rangwala 2008
2. Chandra S. and Aggarwal M.M., Railway Engg 2007
3. Saxena S.C. and Arora S.P., Railway Engineering Dhanpat rai 1981

