

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR

CIVIL ENGINEERING DEPARTMENT

Pre PhD-Test - Transportation Engineering

Syllabus

Geometric design of highways - cross-sectional elements, sight distances, horizontal and vertical alignments. highway materials and construction - desirable properties and tests; desirable properties of bituminous paving mixes; design factors for flexible and rigid pavements; design of flexible and rigid pavement using IRC codes, pavement analysis & design; transportation planning and traffic engineering: traffic studies on flow and speed, peak hour factor, accident study, statistical analysis of traffic data; traffic flow, fundamental relationships; traffic signs; signal design by webster's method; intersection analysis and design; highway capacity and pavement maintenance management system.