

ITS Application in Highway Development & Management including Tolling

Time Period	Description of Topics
1st Day	
09:45-13:00	Intelligent Transportation System its Overview and Usage in Highway
14:00-17:15	ITS in-Traffic Management at Highways and its Real Time Applications <ul style="list-style-type: none"> • Central Highway traffic Management Control Centre • Automatic Traffic Incident Detection and Accident Management • Variable Message Signs and Its Usage in Traffic Management
2nd Day	
09:45-13:00	Enforcement and Tolling Solutions <ul style="list-style-type: none"> • Enforcement ITS Applications – Lane Violation, Speed Detection etc • ITS based Tolling Solution • Congestion Pricing
14:00-17:15	AI-based Signalling and City Mobility Solutions <ul style="list-style-type: none"> • Adaptive Dynamic Signalling System • Hybrid Simulation Modelling • City Mobility Plan
3rd Day	
09:45-13:00	Passenger and Traveller Information System <ul style="list-style-type: none"> • Highway Traveller Information System • In-vehicle Information System • Interactive Information Response System
14:00-17:30	ITS for Safer Road and Improving Road Safety <ul style="list-style-type: none"> • Use of Accident Simulator to identify Real Cause • Alignment Design Crosschecks using Simulators • Mapping of Accident-Prone areas and Monitoring
4th Day	
09:45-13:00	Tolling on National Highways <ul style="list-style-type: none"> ➤ Provision of NH Act ➤ User Fee Rules ➤ Fee Notification ➤ Modern Toll Plaza Architecture
14:00-17:30	Tolling on National Highways contd.. <ul style="list-style-type: none"> ➤ Toll Plaza Operations ➤ ETC-Fast Tag ➤ ATCC ➤ WIM & Static Weigh Bridge
5th Day	
09:45-13:00	Operation of Highways <ul style="list-style-type: none"> ➤ Salient Provisions of Contract/Concession Agreement ➤ Objectives- Mobility, Safety, Economy & Sustainability ➤ Traffic Management ➤ Wayside Amenities ➤ Access to National Highways ➤ Protection of ROW ➤ Incidence Management ➤ ITS Applications
14:00-17:15	Maintenance of Highways

	<ul style="list-style-type: none"> ➤ Asset Management Principles ➤ Types of Maintenance (Routine, Preventive, Special Renewal) ➤ Performance Standards in different Contracts ➤ Condition Survey of Roads & Bridges ➤ Condition Rating of Roads & Bridges ➤ Repair & Rehabilitation of Flexible & Rigid Pavement ➤ Repair & Rehabilitation of Bridges ➤ Repair & Rehabilitation of Road Safety Items & Other Facilities
17:15-17:30	Test, Feedback & Concluding Programme