



**Ministry of Road Transport & Highways, New Delhi
Sponsored Training Programme
For Transport Department Personnel**

At Central Institute of Road Transport, Pune

“Information Technology in Transport”

1.0 INTRODUCTION

Information Technology provides benefits in terms of reduced waiting time and uncertainty, increased accessibility of the system, increased safety of users, reduced fuel consumption and emissions, reduced operational costs, improve traffic efficiency, reduced traffic congestion, improved environmental quality and energy efficiency, improved economic productivity.

The IT in Transport will encourage use of public transport and reduce the use of personal vehicles. This significantly contributes to saving the environment from heavy vehicle pollution and reducing congestion on city roads.

The number of systems under Intelligent Transportation Systems (ITS) covers automated check posts, vehicle-to-vehicle communications, collision avoidance and crash detection system, monitoring traffic and controlling signal lights, electronic and speed limit signs, reversible lanes and other road safety components. ITS technology framework includes wireless communication, sensing technologies, inductive loop detection, video vehicle detection and electronic toll collection.

The possibilities are enormous and include core components such as Vehicle Tracking System, Real Time Passenger Information System and Central Control Station. Core technologies include Geographical Positioning System (GPS), Electronic Display Systems, and Information & Communication Technologies.

Thus the training programme on ‘Information Technology in Transport’ will facilitate the officials to understand the applications of information systems and technology in the transportation field providing an opportunity to have an insight into the latest technological advancements which could be utilized in easing their operations.

2.0 OBJECTIVES

- To provide basic overview on road traffic management in view of the alarming increase in vehicular population of the country.
- To introduce Information Technology (IT) applications in Transport department and to bring out the merits of computerization
- To familiarize the participants with different operating systems and database packages
- To identify the areas of computerization in different areas of work
- To appreciate and emphasize the need for Web Technology and Networking
- To discuss Intelligent Transportation Systems (ITS) applications for improving the efficiency of the transport sector

3.0 CONTENTS

- Existing Road Transport Scenario
- Introduction to Intelligent Transportation Systems
- IT applications in Transport department
- Infrastructure Requirements for Traffic Management
- Interdepartmental Coordination
- Online Surveillance Systems
- RDBMS concepts
- Demonstration of various software packages
- Web Technology and Networking
- GIS and GPS concepts
- Applications of RFID (Radio Frequency Technology)

4.0 PEDAGOGY

Exercises, case studies, group discussions, video films, study visits and computers will be used besides classroom lectures.

5.0 FOR WHOM

Officers from the Transport departments

6.0 DURATION

The duration of each programme will be three days.

- 01-03 December 2010

7.0 FEE

There is no course fee for these training programmes. Lodging and board facilities will be provided free to the participating officers. However, the sponsoring authorities will meet TA/ DA and other allowances as per the eligibility of the nominated officers.

8.0 VENUE

The programme is residential, involving group work and self study both in class room and outside class. Accommodation for the participant only will be provided in the hostels. Request for accommodation for participants' family should be intimated in advance, for which charges as per rules will have to be paid by the participant.

9.0 LAST DATE FOR RECEIPT OF NOMINATIONS

Nominations must reach the Coordinator- MDC, preferably at least one week prior to the commencement of the programme.

10.0 ENQUIRIES

For additional information/enquiry, please write to:

The Coordinator- Management Development Centre Central Institute of Road Transport, P.B. No. 1897, Bhosari, PUNE - 411 026	Telephone: 020- 27125177, 27125478, 27125493 Fax : 020 - 27125426 E-mail training@cirtindia.com Website : www.cirtindia.com
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