

# Adaptive Traffic Control Systems (TE-51)

# **Course Outline**

#### Module 1 (2 hours)

Classification of Various Traffic Control Systems Traffic Responsive Signal Control AI Based Signal Timing Automated Traffic Signal Performance Measures Fundamental Principles of Adaptive Traffic Control Current US Market State of the ATCS Deployments Introduction to recent NCHRP study

#### Module 2 (2 hours)

SCATS – Fundamental Principles SCATS – Installation Requirements SCATS – Operational Benefits Surtrac - Fundamental Principles QuicTrac - Fundamental Principles ATSPM for Adaptive Systems

## Module 3 (2 hours)

SynchroGreen – Fundamental Principles SynchroGreen – Installation Requirements SynchroGreen – Operational Benefits InSync – Fundamental Principles InSync – Installation Requirements InSync – Operational Benefits

## Module 4 (2 hours)

SCOOT – Fundamental Principles

SCOOT – Installation Requirements

SCOOT – Operational Benefits

ACS Lite – Fundamental Principles

ACS Lite – Installation Requirements

ACS Lite - Operational Benefits