

# AMTS18 TRANSPORTATION AND ENVIRONMENT

## UNIT-1 INTRODUCTION

Classification, effects of air pollutants on humans, plants and materials

## UNIT-2 VEHICULAR EMISSIONS

Sources, meteorology and photochemical reactivity of pollutants

## UNIT-3 MONITORING AND CONTROL

Measures of automobile emissions

## UNIT-4 EIA STUDIES OF HIGHWAYS AND AMBIENT AIR QUALITY STANDARDS

## UNIT-5 NOISE MEASUREMENTS, NOISE LEVELS AND NOISE CONTROL

Effects of transportation noise, road traffic noise, train and rail noise, aircraft noise Active noise control, vibration control principles Noise survey Environmental Impact Statements and case studies on noise control

## UNIT-6 INTRODUCTION TO SUSTAINABLE TRANSPORTATION INFRASTRUCTURE

### Reference Books:

1. Transport, Environment and Society by Michael Cahil 2010
2. India and the Path to Environmental Sustainability By Ethan Goffman 2008