

AMTS05 PAVEMENT MANAGEMENT SYSTEM

UNIT-1 INTRODUCTION

Pavement Management Systems; Components of pavement management systems

UNIT-2 PAVEMENT CONDITIONS SURVEY AND RATINGS

UNIT-3 PAVEMENT PERFORMANCE PREDICTION

Concepts, modeling techniques, Comparison of different deterioration models

UNIT-4 HIGHWAY DEVELOPMENT AND MANAGEMENT TOOLS

Rehabilitation budget planning; Ranking and optimization methodologies

UNIT-5 ALTERNATE PAVEMENT DESIGN

Strategies and economic evaluation

UNIT-6 RELIABILITY CONCEPTS

In pavement engineering; life cycle costing

UNIT-7 ROAD ASSET MANAGEMENT

Pavement preservation programs

UNIT-8 EXPERT SYSTEMS AND PAVEMENT MANAGEMEN

Reference Books:

1. Haas, R., W.R. Hudson, and J.P. Zaniewski, "Modern Pavement Management", Krieger Press 1994
2. Yoder E.J. and Witezak, "Principles of Pavement Design," John Wiley & Sons 1975
3. Shahin M.Y. "Pavement Management for Air Port, Roads and Parking Lots", Chapman and Hall/Springer 2005