

DEMAND

## PAVIATH INTEGRATED SOLUTION

**CIVIL ENGG** 

**CIVIL UNIV** 

TRANSPORTATION ENGINEERING - II

Paviath ONLINE

## ◆ CIVIL UNIVERSITY ◆ FOURTH YEAR I SEMESTER ◆ CODE A70143

UNIT - I Introduction to railway : Permanent way COMPONENTS - CROSS SECTION OF PERMANENT WAY - FUNCTIONS OF VARIOUS COMPONENTS LIKE RAILS, SLEEPERS AND BALLAST, GAUGE -CREEP OF RAILS-THEORIES RELATED TO CREEP - SLEEPER

GEOMETRIC DESIGN OF RAILWAY TRACK: GRADIENTS- GRADE COMPENSATION-CANT AND NEGATIVE SUPER ELEVATION- CANT DEFICIENCY - DEGREE OF CURVE, POINTS AND CROSSING, RAIL JOINTS & WELDING OF JOINTS, RAILWAY STATIONS YARDS, SIGNALIZING & INTERLOCKING

TEMPERATURE – AIRPORT Classification - Runway Geometric Design – FACTORS CONTROLLING TAXIWAY LAYOUT - TERMINAL AREA - APRON - HANGAR -BLAST CONSIDERATIONS, TYPICAL AIRPORT LAYOUTS - WIND ROSE DIAGRAM -RUNWAY LIGHTENING SYSTEM & MARKING.

AIRPORT ENGINEERING: AIRPORT SITE SELECTION -RUNWAY ORIENTATION - BASIC RUNWAY LENGTH - CORRECTIONS FOR ELEVATION,

SATISH CHANDRA AND AGARWAL, M.M. (2007) <u>"RAILWAY ENGINEERING"</u>

**DXFORD HIGHER EDUCATION, UNIVERSITY PRESS NEW** 

2. AIRPORT PLANNING AND DESIGN- S.K. KHANNA AND M.G ARORA, NEMCHAND BROS

3. A TEXT BOOK OF TRANSPORTATION ENGINEERING -S P CHANDOLA - S CHAND

& CO. LTD. - (2001).

4. TRANSPORTATION ENGINEERING AND PLANNING -

C.S. PAPACOSTAS

P.D.PREVEDOUROS

1. A TEXT BOOK OF RAILWAY ENGINEERING-S.C.SAXENA ΔΝΠ Ζ ΔΡΠΡΔ

DHANPATRAI AND SONS, NEW DELHI. 2. Highway, Railway, Airport and Harbour

ENGINEERING - K.P.

SUBRAMANIAN

3. HARBOUR, DOCK AND TUNNEL ENGINEERING - R.

4. DOCK AND HARBOUR ENGINEERING - HASMUKH P OZA, GUTAM H OZA

UNIT - IV PORT AND HARBOUR ENGINEERING: REQUIREMENTS OF PORT AND HARBOUR CLASSIFICATION OF PORT & HARBOUR, FEATURES OF A HARBOUR, PLANNING OF HARBOUR BREAKWATERS, DRY DOCKS, JETTIES, APRONS, TRANSIT SHED AND WAREHOUSES NAVIGATIONAL AIDS, MAINTENANCE OF PORT AND HARBOURS, INLAND WATER TRANSPORT

INTELLIGENT TRANSPORT SYSTEMS: ITS DEFINITION, BENEFITS OF ITS, USER SERVICES, DETECTORS, AUTOMATIC VEHICLE LOCATION (AVL), AUTOMATIC VEHICLE IDENTIFICATION (AVI), INTRODUCTION TO ITS APPLICATIONS ADVANCED TRAFFIC MANAGEMENT SYSTEMS (ATMS), ADVANCED PUBLIC TRANSPORTATION SYSTEMS (APTS), ITS ARCHITECTURE COMPONENTS AND STANDARDS, OVERVIEW OF ITS IMPLEMENTATIONS IN DEVELOPED



STC APM

SYLLABUS COACHING TRAINING - 2/UNIT TRAINING SELF - 4/UNIT ASSIGNMENT PRESENTATION - 2/UNIT SHOWTIME - 2/UNIT



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