

DEMAND

PAVIATH INTEGRATED SOLUTION

CIVIL ENGG

CIVIL UNIV

TRANSPORTATION ENGINEERING - I

Paviath ONLINE

◆ CIVIL UNIVERSITY ◆ THIRD YEAR II SEMESTER ◆ CODE A60132

HIGHWAY DEVELOPMENT AND PLANNING: HIGHWAY DEVELOPMENT IN INDIA -NECESSITY FOR HIGHWAY PLANNING- DIFFERENT ROAD DEVELOPMENT PLANS; CLASSIFICATION OF ROADS - ROAD NETWORK PATTERNS - HIGHWAY ALIGNMENT-FACTORS AFFECTING ALIGNMENT- ENGINEERING Surveys - Drawings and Reports - HIGHWAY PROJECT.

HIGHWAY GEOMETIC DESIGN: IMPORTANCE OF GEOMETRIC DESIGN - DESIGN CONTROLS AND CRITERIA - HIGHWAY CROSS SECTION ELEMENTS - SIGHT DISTANCE ELEMENTS- STOPPING SIGHT DISTANCE, **OVERTAKING SIGHT DISTANCE AND** INTERMEDIATE SIGHT DISTANCE - DESIGN OF HORIZONTAL ALIGNMENT - DESIGN OF SUPER ELEVATION AND EXTRA WIDENING- DESIGN OF TRANSITION CURVES-DESIGN OF

VERTICAL ALIGNMENT-GRADIENTS- VERTICAL

TRAFFIC ENGINEERING & REGULATIONS: BASIC PARAMETERS OF TRAFFIC-VOLUME, SPEED AND DENSITY - TRAFFIC VOLUME STUDIES - DATA COLLECTION AND PRESENTATION - SPEED STUDIES - DATA COLLECTION AND PRESENTATION - ORIGIN & DESTINATION STUDIES, PARKING STUDIES -ONSTREET & OFF STREET PARKING - ROAD ACCIDENTS - CAUSES AND PREVENTIVE MEASURES - ACCIDENT DATA RECORDING -CONDITION DIAGRAM AND COLLISION DIAGRAMS - TRAFFIC SIGNS - TYPES AND SPECIFICATIONS - ROAD MARKINGS - NEED FOR ROAD MARKINGS-TYPES OF ROAD MARKINGS - DESIGN OF TRAFFIC SIGNALS -WEBSTER METHOD.

INTERSECTION DESIGN: TYPES OF INTERSECTIONS - CONFLICTS AT INTERSECTIONS REQUIREMENTS OF AT-GRADE INTERSECTIONS TYPES OF AT-GRADE INTERSECTIONS: Channelized and unchannelized INTERSECTIONS - TRAFFIC ISLANDS - TYPES OF GRADE SEPARATED INTERSECTIONS - ROTARY INTERSECTION - CONCEPT OF ROTARY DESIGN FACTORS OF ROTARY - ADVANTAGES AND LIMITATIONS OF ROTARY

HIGHWAY MATERIAL. CONSTRUCTION AND MAINTENANCE: HIGHWAY MATERIAL CHARACTERIZATION: SUBGRADE SOIL, STONE AGGREGATES, BITUMEN MATERIALS, CONSTRUCTION OF GRAVEL ROADS CONSTRUCTION OF WATER BOUND MACADAM ROADS - CONSTRUCTION OF BITUMINOUS PAVEMENTS: SURFACE DRESSING, BITUMEN BOUND MACADAM, BITUMINOUS CONCRETE -CONSTRUCTION OF CEMENT CONCRETE PAVEMENTS - CONSTRUCTION OF JOINTS IN CEMENT CONCRETE PAVEMENTS - JOINT FILLER AND SEAL - PAVEMENT FAILURES MAINTENANCE OF HIGHWAYS - HIGHWAY DRAINAGE

TEXT BOOKS:

1. HIGHWAY ENGINEERING - S.K.KHANNA & C.E.G.JUSTO. NEMCHAND & BROS., 7TH EDITION (2000) 2. TRAFFIC ENGINEERING & TRANSPORTATION PLANNING – DR.L.R.KADYALI KHANNA PUBLICATIONS - 6TH EDITION - 1997. REFERENCES 1. PRINCIPLES OF TRAFFIC AND HIGHWAY ENGINEERING - GARBER & HOEL, CENGAGE LEARNING. 2. PRINCIPLES AND PRACTICES OF HIGHWAY ENGINEERING - DR.L.R.KADIYALI AND DR.N.BLAL - KHANNA PUBLICATIONS. 3. HIGHWAY ENGINEERING - S.P.BINDRA DHANPAT RAI & SONS. - 4TH EDITION



STC APM

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



ASCON RENGA

SYLLABUS PERIOD TRAINING - 2/2 HRS/UNIT REMOTE - 2/2 HRS/UNIT DURATION - SEMESTER ONLINE/REMOTE ACCESS



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