

DEMAND

PAVIATH INTEGRATED SOLUTION

CIVIL ENGG

CIVIL UNIV

CONCRETE TECHNOLOGY

Paviath ONLINE

◆ CIVIL UNIVERSITY ◆ THIRD YEAR I SEMESTER ◆ CODE ASDII6

CEMENT : PORTLAND CEMENT - CHEMICAL COMPOSITION CEMENT: PORTLAND CEMENT - CHEMICAL COMPOSITION
- HYDATION OF CEMENT - STRUCTURE OF HYDATE
CEMENT - TEST ON PHYSICAL PROPERTIES - DIFFERENT
BRADES OF CEMENT. ADMIXTURES: TYPES OF
ADMIXTURES - MINERAL AND CHEMICAL ADMIXTURES -
PROPERTIES - DOSAGES - EFFECTS - USAGE.
AGGREGATES: CLASSIFICATION OF AGGREGATE -
PARTICLE SHAPE & TEXTURE - BOND. STRENGTH & OTHER
MECHANICAL PROPERTIES OF AGGREGATE - SPECIFIC
GRAVITY, BULK DENSITY, PORDSTIY, ADSORPTION &
MOISTURE CONTENT OF AGGREGATE - BULKING OF
SAND - DELETERIOUS SURSTANCE IN AGGREGATE -SAND - DELETERIOUS SUBSTANCE IN AGGREGATE ALKALI AGGREGATE REACTION - THERMAL PROPERTIES -SIEVE ANALYSIS - FINENESS Modulus - Grading Curves - Grading of Fine &

IINIT - II

FRESH CONCRETE: WORKABILITY - FACTORS AFFECTING WORKABILITY - MEASUREMENT OF WORKABILITY BY DIFFERENT TESTS -SETTING TIMES OF CONCRETE - EFFECT OF TIME AND TEMPERATURE ON WORKABILITY -SEGREGATION & BLEEDING - MIXING AND VIBRATION OF CONCRETE - STEPS IN MANUFACTURE OF CONCRETE - QUALITY OF MIXING WATER

HARDENED CONCRETE: WATER / CEMENT RATIO -ABRAM'S LAW - GELSPADE RATID - NATURE OF STRENGTH OF CONCRETE - MATURITY CONCEPT -STRENGTH IN TENSION & COMPRESSION - FACTORS AFFECTING STRENGTH - RELATION BETWEEN COMPRESSION & TENSILE STRENGTH - CURING. TESTING OF HARDENED CONCRETE: COMPRESSION TESTS - TENSION TESTS - FACTORS
AFFECTING STRENGTH - FLEXURE TESTS - SPLITTING AFFELING STRENGTH - FLEAURE TESTS - SPLITTING
TESTS - PULL-OUT TEST, NONDESTRUCTIVE
TESTING METHODS - CODAL PROVISIONS FOR NOT.
ELASTICITY, CREEP & SHRINKAGE - MODULUS OF
ELASTICITY - DYNAMIO MODULUS OF ELASTICITY POSISSON'S RATIO - CREEP OF CONCRETE - FACTORS
MELITARY OF THE POSE OF THE PROPERTY OF THE PACTORS

POSISSON'S RATIO - CREEP OF CONCRETE - FACTORS INFLUENCING CREEP - RELATION BETWEEN CREEP & TIME - NATURE OF CREEP - EFFECTS Of Creep - Shrinkage - Types of Shrinkage

MIX DESIGN : FACTORS IN THE CHOICE OF MIX PROPORTIONS - DURABILITY OF

CONCRETE

GRADED AGGREGATE - MAXIMUM AGGREGATE SIZE

- QUALITY CONTROL OF CONCRETE -STATISTICAL QUALITY CONTROL -ACCEPTANCE CRITERIA

- PROPORTIONING OF CONCRETE MIX BY NORMAL AND PUMPABLE CONCRETES BY -BIS METHOD OF MIX DESIGN

SPECIAL CONCRETES: LIGHT WEIGHT CONCRETE - LIGHT WEIGHT AGGREGATE CONCRETE

- CELLULAR CONCRETE - NO-FINES CONCRETE - FIBRE REINFORCED CONCRETE

- PNI YMFR

CONCRETE - TYPES OF POLYMER CONCRETE

- SELF COMPACTING CONCRETE

1. PROPERTIES OF CONCRETE BY A.M.NEVILLE – LOW PRICED EDITION - 4TH

2. CONCRETE TECHNOLOGY BY M.S.SHETTY. - S.CHAND

I. CONCRETE TECHNOLOGY BY JOB THOMAS, CENGAGE

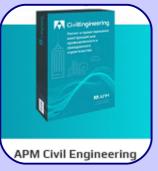
2. CONCRETE TECHNOLOGY BY M.L. GAMBHIR. - TATA

PUBLISHERS, NEW DELHI.

3. CONCRETE TECHNOLOGY BY A.R. SANTHA KUMAR, OXFORD UNIVERSITY PRESS,

NEW DELHI

4. CONCRETE: MICRO STRUCTURE, PROPERTIES AND MATERIALS - P.K.MEHTA AND J.M.MONTEIRO, MC-GRAW HILL PUBLISHERS.



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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