

DEMAND

## PAVIATH INTEGRATED SOLUTION

**CIVIL ENGG** 

CIVIL UNIV

REHABILITATION & RETROFITING OF STRUCTURES

Paviath ONLINE

## ◆ CIVIL UNIVERSITY ◆ FOURTH YEAR I SEMESTER ◆ CODE A80151

UNIT – I INTRODUCTION – DETERIORATION OF STRUCTURES – DISTRESS IN STRUCTURES – CAUSES AND PREVENTION. MECHANISM OF DAMAGE – TYPES OF DAMAGE UNIT - II
CORROSION OF STEEL REINFORCEMENT - CAUSES
- MECHANISM AND PREVENTION.
DAMAGE OF STRUCTURES DUE TO FIRE - FIRE
RATING OF STRUCTURES - PHENDMENA
OF DESICCATION

UNIT – III Inspection and testing – Symptoms and Diagnosis of Distress – Damage Assessment – NDT.

UNIT - IV
REPAIR OF STRUCTURE - COMMON TYPES OF
REPAIRS - REPAIR IN CONCRETE
STRUCTURES - REPAIRS IN UNDER WATER
STRUCTURES - BUNITING - SHOT CREATE UNDERPINNING. STRENGTHENING OF STRUCTURES
- STRENGTHENING METHODS RETROFITTING - JACKETING.

UNIT - V HEALTH MONITORING OF STRUCTURES - USE OF SENSORS - BUILDING INSTRUMENTATION.

## TEXT BOOKS:

I. MAINTENANCE AND REPAIR OF CIVIL
STRUCTURES, B.L. GUPTA AND AMIT
GUPTA, STANDARD PUBLICATIONS.
2. CONCRETE TECHNOLOGY BY A.R. SANTAKUMAR,
OXFORD UNIVERSITY PRESS.
REFERENCES
I. DEFECTS AND DETERIORATION IN BUILDINGS, EF
8 N SPON, LONDON.
2. NON-DESTRUCTIVE EVALUATION OF CONCRETE

STRUCTURES BY BUNGEY –
SURREY UNIVERSITY PRESS.
3. CONCRETE REPAIR AND MAINTENANCE
ILLUSTRATED, RS MEANS COMPANY
INC W.H. RANSO, (1981).
4. BUILDING FAILURES: DIAGNOSIS AND

4. BUILDING FAILURES : DIAGNOSIS AN AVOIDANCE, EF & N SPON, LONDON, B.A. RICHARDSON, (1991).



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



ArCADia BIM | ArCADia-RAMA | NTERsoft-INTELLICAD | EuroConnections

ARCADIA BIM

FEATURES
TRAINING BY IND. PROFESSIONAL
INDUSTRY APPLICATION
TRAINER OPPORTUINITY
CERTIFICATION

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