

## DEMAND PAVIATH INTEGRATED SOLUTION

REINFORCED CONCRETE STRUCTURES DESIGN & DRAWING

# Paviath ONLINE

**CIVIL ENGG** 

### ◆ CIVIL UNIVERSITY ◆ THIRD YEAR I SEMESTER ◆ CODE A50121

### UNIT-I

CONCEPTS OF RC. DESIGN – LIMIT STATE METHOD – MATERIAL STRESS- STRAIN CURVES – SAFETY FACTORS – CHARACTERISTIC VALUES. STRESS BLOCK PARAMETERS – IS

**CIVIL UNIV** 

456 – 2000 – WORKING STRESS METHOD. Beams : limit state analysis and design of singly reinforced, doubly Reinforced, t and L beam sections.

#### UNIT – II

SHEAR, TORSION AND BOND : LIMIT STATE ANALYSIS AND DESIGN OF SECTION FOR SHEAR AND TORSION – CONCEPT OF BOND, ANCHORAGE AND DEVELOPMENT LENGTH, I.S. CODE PROVISIONS. DESIGN EXAMPLES IN SIMPLY SUPPORTED AND CONTINUOUS BEAMS. DETAILING LIMIT STATE DESIGN FOR SERVICEABILITY FOR DEFLECTION, CRACKING AND CODAL PROVISION.

UNIT –IV SHORT AND LONG COLUMNS –AXIAL LOADS, UNI AXIAL AND BIAXIAL BENDING I S CODE PROVISIONS.

APM Civil Engineering

STC APM

SYLLABUS COACHING

TRAINING - 2/UNIT TRAINING

SELF - 4/UNIT ASSIGNMENT

PRESENTATION – 2/UNIT

SHOWTIME - 2/UNIT

UNIT – V Design of Footings - Isolated (Square, Rectangular) and combined footings. Design of Stair Case. UNIT - III Design of two-way slabs, one way slab, continuous slab using I s Coefficients, cantilever slab /canopy slab.

#### EXT BOOKS:

P.C.VARGHESE. PRENTICE HALL OF INDIA. NEW DELHI R.N. PRANESH, NEW AGE INTERNATIONAL PUBLISHERS, NEW DELHI 1. FUNDAMENTALS OF REINFORCED CONCRETE DESIGN BY M.L GAMBHIR, PRINTICE HALL OF INDIA PRIVATE LTD., NEW DELHI LEARNING PVT. LTD. ASHOK KUMAR S.CHAND JAIN. LAXMI. PUBLICATIONS PVT. LTD., NEW DELHI ArCADia ArCADia BIM | ArCADia-RAMA | NTERsoft-INTELLICAD | SuroConnections **ARCADIA BIM** 

FEATURES TRAINING BY IND. PROFESSIONAL INDUSTRY APPLICATION TRAINER OPPORTUINITY CERTIFICATION

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ASCON RENGA

SYLLABUS PERIOD

TRAINING - 2/2 HRS/UNIT

REMOTE - 2/2 HRS/UNIT

**DURATION - SEMESTER** 

**ONLINE/REMOTE ACCESS**