

DEMAND

PAVIATH INTEGRATED SOLUTION

CIVIL ENGG

CIVIL POLY

ADVANCED CONSTRUCTION TECHNOLOGY

Paviath ONLINE

◆ CIVIL POLY ◆ III YEAR ELECTIVE ◆ CODE CEM53.1

ON COMPLETION OF THE COURSE, THE STUDENT WILL BE FAMILIAR WITH:

- PILE FOUNDATIONS MODIFIED CONCRETE
- PRE FABRICATION SYSTEMS AND METHODS FIRE PROTECTION IN BUILDINGS
- EARTHQUAKE PROOF CONSTRUCTION MAINTENANCE AND REHABILITATION OF
- TO TAKE PRECAUTIONARY MEASURES TO PREVENT CRACKS IN BUILDINGS HOUSE MODERNIZATION LIFT MODERNIZATION.

4.1 MAINTENANCE AND REHABILITATION OF BUILDINGS
REHABILITATION OF BUILDINGS - OEMOLITION OF BUILDINGS - SAFETY
ASPECTS - GENERAL - PRECAUTIONS DURING DEMOLITIONS SEQUENCE OF DEMOLITION OF OPERATOR - DEMOLITION PROCESS
OF TRUSSES, GIRDERS AND BEAMS, WALLS FLOORING - CATCH
PLATFORM - LOWERING REMOVAL AND DISPOSAL OF MATERIALS MECHANICAL DEMOLITION - REPAIRS TO BUILDING - REPAIRING OF PLASTERING WORKS- FIXING DOORS IN – MAKING OPENING IN MASONRY AND FIXING DOORS AND WINDOWS – RENEWING GLASS PANES WITH WOODEN FILLETS – FIXING FAN CLAMPS IN EXISTING R.C.C Slab – Repair to Terrazzo(Mosaic) Flooring. 4.2 Precautions to Prevent Cracks in Buildings CRACKS - GENERAL - HAIR CRACK - STRUCTURAL CRACK -Horizontal Crack in Masonry - Vertical / Diagonal Crack Sat WALLS - R. C.: BEAMS OR PILLARS - TRANSVERSE CRACKS IN R. C. C Slab and Sunshade - Repairs - Methods - Materials used for Filling Cracks.

1.1 PILE FOUNDATIONS DEFINITION - USES OF PILES - TYPES OF PILES - BEARING PILES AND FRICTION PILES- CLASSIFICATION BASED ON MATERIAL- STONE PILES-ENCASED PILES- REINFORCED CEMENT CONCRETE PILES PILES-ENLASED PILES REINDURGED CEMENT CLOUKRETE PILES CAST-IN STILD PILE AND PRECAST PILES DESCRIPTION. ADVANTAGES AND DISADVANTAGES - LIAD BEARING PILES AND FRICTION PILES - PURPOSE - SHEET PILES-TYPES - DESCRIPTION - CHOICE OF TYPE OF PILE -FACTORS TO BE CONSIDERED - PILE CAP AND PILE SHOE - DESCRIPTION - LIAD TEST ON PILES - DESCRIPTION - PILE DRIVING-DESURPHON - LOAD LEST ON PILES - DESURPHON - PILE ONVINDA-EQUIPMENT - TYPES OF HAMMER - CHOICE OF HAMMER-CAUSES OF FAILURG OF PILES - REINFORCEMENT REQUIREMENTS FOR RC PILES. 12 MODIFIED CONCRETE 2.1 PREFABRICATION SYSTEM: ADVANTAGES AND DISADVANTAGES OF PREFABRICATION SYSTEM-

TERMS DEFINED: PRE FABRICATED BUILDING, MODULE, COMPOSITE MEMBERS, MODULAR CO-ORDINATION, SYSTEM;- BASIC MODULE -PLANNING MODULES GRID-MODULES IN HORIZONTAL PLANE FOR RESIDENTIAL BUILDING SAND INDUSTRIAL BUILDINGS - OTHER RESIDENTIAL BUILDING SAND INDUSTRIAL BUILDINGS - UITHER CONSIDERATION - MODULE FOR COMPONENTS-FLORRING SCHEME, BEAMS, COLLUMNS, WALLS-STAIREASE-LINTEL SUNSHADE-TOLERANCE ON DIMENSIONS-LENGTH, CROSS SECTIONAL DIMENSION, STRAIGHTNESS, SQUARENESS, TWIST, FLATNESS, 2.2 PRE FABRICATIONMETHOOS

HOUSING MODERNIZATION AND MANAGEMENT (BUILDING AND CONSTRUCTION SAFETY, ENERGY EFFICIENCY INHOUSING, PROPERTY REFURBISHMENT / UPGRADE/ MODERNIZATION / RENOVATION REFURBISHMENT / UPGRADE / MODERNIZATION / RENDVATION NODULAR KITCHENS, BAIT RODMS, NEW WINDOWS, DOORS AND
TIMBER FLOORS, RODE INSULATION, ONY LINING AND BERGUILDING
ENERGY RATING > CERTIFICATES - PLUMBING AND ELECTRICAL TO
HEATING EFFICIENCY LAND SCAPING AND DRIVE WAYSTOPATIOS AND
DECKING - DRAFTING A COINSTRUCTION CONTRACT - TRANSFORMING
FROM TRADITIONAL TO MODERN STYLE - CASE STUDIES -
STRENBTHENING OF OLD BUILDINGS - ENERGY - SAMING HOUSES.
GREEN HOUSE PASSIVE HOUSE PASSIVE HOUSE CONSTRUCTION
LOW- BRERGY HOUSE, ZERO. ENERGY HOUSE ENERGY CONDULTING,
ENERGY FEFICIENCY PASSIVE HOUSE STANDARD, QUAUTY-TESTED
COMMERCIAL PASSIVE HOUSE CONSTRUCTION, OFFICE BUILDING
CONSTRUCTION, RESIDENTAL BUILDING CONSTRUCTION—
CONSULTING, PLANNING, SUPERVISING - GREEN BUILDING
CONSTRUCTION, SESSIONALS SUPERVISING - GREEN BUILDING
CONSTRUCTION, SESSIONALS SUPERVISING - GREEN BUILDING
CONSTRUCTION, SESSIONALS SUPERVISING - GREEN BUILDING
CONSTRUCTION. 5.2 LIFT MODERNIZATION 3.2 DIP PROJECTIVATION
UNDEPENDENT LIFTING SERVICES - MECHANICAL MODERNIZATIONESCALATORS OR PATHWAYS-AESTHETIC MODERNIZATION - LIFT CAR
INTERIOR - ECO-FRIENDLY MODERNIZATION - LIFT CONSTRUCTION-

3.1 FIRE PROTECTION IN BUILDINGS
Beneral – causes and effects of fire- pre cautionary measures
To minimize dangers of fire – limiting fire spread –factors to be
considered – Fire resisting properties of common building
material - general rules for fire resisting buildings – alarm
system -protection of maximum parameters in the Resistance of the state of system -protections to mere resistant goundings - memory system protection of openings - common wall stain-floor fire extinguishing arrangement - fire protection systems - types - Emergency exit arrangements - Strong room construction - fire safety norms as per NBC.

3.2 EARTH GUAKE RESISTING CONSTRUCTION

Indian Seismicity - Earthquake History - Definition of terms used - Behavior of structures in the past Earthquakes - Seismic forces –Effect of seismic forces on Buildings – Planning of

Lartiquave
Resistant Buildings - Roofs and Floors - Articulation joints Expansion Joints - I.S. code provision - Alterations to Buildings
Foundation - Permissible increase in the allowable Bearing
capacity of soils - Seismic coefficient for different zones nstruction of framed buildings in Earthquake zones – Walls

TEXT BOOK:

1.CONCRETE TECHNOLOGY - M.S. SHETTY 2.FIRE RESISTANT CONSTRUCTION -BUILDING CONSTRUCTION BY S.P.ARORA AND S.P.BINDRA REFERENCE BOOK: 1.EARTH QUAKE PROOF - BUILDING

CONSTRUCTION BY DR.JANARDHANJHA PROF. SURESH KUMAR 2.SINHA IS CODE OF PRACTICE FOR EARTH QUAKE . IS CODE OF PRACTICE FOR FIRE RESISTANCE, IS CODE OF PRACTICE FOR PRE STRESSING (2005)



STC APM

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