



DEMAND

PAVIATH INTEGRATED SOLUTION

CIVIL ENGG

CIVIL UNIV

BUILDING MATERIALS, CONSTRUCTION & PLANNING UNIT - I

Paviath ONLINE

◆ CIVIL UNIVERSITY ◆ SECOND YEAR II SEMESTER ◆ CODE A40109

UNIT - I

STONES AND BRICKS, TILES, BUILDING STONES - CLASSIFICATIONS AND QUARRYING - PROPERTIES - STRUCTURAL REQUIREMENTS - DRESSING BRICKS - COMPOSITION OF BRICK EARTH - MANUFACTURE AND STRUCTURAL REQUIREMENTS, WOOD, ALUMINUM, GLASS AND PAINTS: WOOD - STRUCTURE - TYPES AND PROPERTIES - SEASONING - DEFECTS; ALTERNATE MATERIALS FOR WOOD - GI / FIBRE - REINFORCED GLASS BRICKS, STEEL & ALUMINUM

UNIT-II

CEMENT & ADMIXTURES : INGREDIENTS OF CEMENT - MANUFACTURE - CHEMICAL COMPOSITION - HYDRATION - FIELD & LAB TESTS ADMIXTURES - MINERAL & CHEMICAL ADMIXTURES - USES.

UNIT-III

BUILDING COMPONENTS : LINTELS, ARCHES, WALLS, VAULTS - STAIR CASES - TYPES OF FLOORS, TYPES OF ROOFS - FLAT, CURVED, TRUSSED ; FOUNDATIONS - TYPES ; DAMP PROOF COURSE ; JOINERY - DOORS - WINDOWS - MATERIALS - TYPES. BUILDING SERVICES : PLUMBING SERVICES : WATER DISTRIBUTION, SANITARY - LINES & FITTINGS ; VENTILATIONS - FUNCTIONAL REQUIREMENTS SYSTEMS OF VENTILATIONS. AIR-CONDITIONING - ESSENTIALS AND TYPES ; ACOUSTICS - CHARACTERISTIC - ABSORPTION - ACOUSTIC DESIGN ; FIRE PROTECTION - FIREHAZARDS - CLASSIFICATION OF FIRE RESISTANT MATERIALS AND CONSTRUCTIONS

UNIT -IV

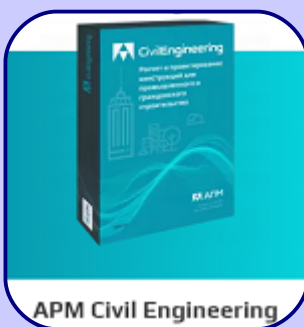
MASONRY AND FINISHING'S : BRICK MASONRY - TYPES - BONDS : STONE MASONRY - TYPES ; COMPOSITE MASONRY - BRICK-STONE COMPOSITE ; CONCRETE, REINFORCED BRICK. FINISHERS : PLASTERING, POINTING, PAINTING, CLADDINGS - TYPES - TILES - ACP FORM WORK : REQUIREMENTS - STANDARDS - SCAFFOLDING - DESIGN ; SHORING, UNDERPINNING.

UNIT -V

BUILDING PLANNING : PRINCIPLES OF BUILDING PLANNING, CLASSIFICATION OF BUILDINGS AND BUILDING BY LAWS.

TEXT BOOKS:

1. BUILDING MATERIALS AND CONSTRUCTION - ARORA & BINDRA, DHANPAT ROY PUBLICATIONS
 2. BUILDING CONSTRUCTION BY B.C.PUNMIA, ASHOK KUMAR JAIN AND ARUN KUMAR JAIN - LAXMI PUBLICATIONS (P) LTD., NEW DELHI
- REFERENCES:
1. BUILDING MATERIALS BY DUGGAL, NEW AGE INTERNATIONALS.
 2. BUILDING CONSTRUCTION BY PC VERGHESE PHI.
 3. CONSTRUCTION TECHNOLOGY - VOL - I & II BY R. CHUDDY, LONGMAN UK.
 4. BASICS OF CIVIL ENGG BY SUBHASH CHANDER, JAIN BROTHERS.
 5. ALTERNATE BUILDING MATERIALS AND TECHNOLOGY, K.S.JAGADISH, VENKATARAMA REDDY AND OTHERS; NEW AGE PUBLICATIONS.



STC APM

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



ASCON RENG

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



ARCADIA BIM

FEATURES
TRAINING BY IND. PROFESSIONAL
INDUSTRY APPLICATION
TRAINER OPPORTUNITY
CERTIFICATION