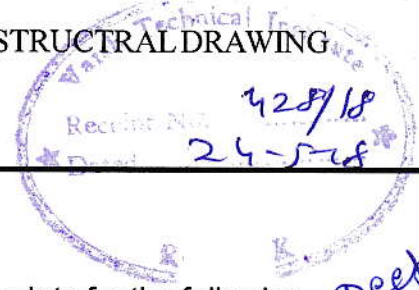


(106) Exam
24-05-18
CIVIL ENGG DEPARTMENT
LESSON PLANNING

Sub- STRUCTURAL DRAWING

Name - Anil Aggarwal
Periods per week -6



PART A

Drawing Exercises 1.

RC Structures: Reinforcement details from the given data for the following structural elements with bar bending schedules

Drawing No. 1: RC Slabs - One way slab, Two way slab and, Cantilever Slab.

Drawing No.2 : Beams - Singly and doubly reinforced rectangular beams and Cantilever beam (All beams with vertical stirrups)

Drawing No.3 : Columns and Footings ? Square, Rectangular and Circular Columns with lateral ties and their isolated sloped column footings.

Drawing No. 4 : Portal Frame ? Three bay two storey RC portal frame with blow up of column beam junctions.

Drawing No.5: Dog legged stairs for single storey building

Drawing No.6: Draw atleast one sheet using CAD software

PART B

Drawing No. 7: Roof Truss ? Drawing of Fink Roof Truss with details of joints, fixing details of purlins and roof sheets.

Drawing No.8 : Column and Column Bases - Drawing of splicing of steel columns.

Drawing No.9 : Drawings of slab base, gusseted base and grillage base for single section steel columns. 135

Drawing No.10 : Column Beam Connections (a) Seated and Framed Beam to Beam Connections

Drawing No.11 : (b) Seated and Framed beam to Column Connections

Drawing No. 12 : Plate Girder Plan and Elevation of Plate Girder with details at supports and connection of stiffness, flange angles and cover plate with web highlighting curtailment of plates.

Drawing No. 13 : Draw atleast one sheet using CAD software

Deepak
Mr
24/5/18

Seal