

**TRAINING SCHEDULE FOR 6 MONTHS TRAINEES**

**List of Activities**

| Sr. No. | Activities  |
|---------|---|
| 1       | Code Learning (IS456/IS800/IS875(Part1,2,3)/IS1893(Part1)/IS13920/IS2062/IS1786/IS3370) |
| 2       | Learning of software Autocad, Staad Pro, ETABS, SAFE, Excel                             |
| 3       | Study of Input Data - Architectural drgs, Soil report                                   |
| 4       | Workout structural system   |
| 5       | Preparation of design philosophy  |
| 6       | Calculations of various loads i.e. Dead Load, Live Load, Earthquake load, Wind load     |
| 7       | Preparation of framing plans  |
| 8       | Manual Design of Slab - S, Staircase - SC, Water tank - WT                              |
| 9       | Analysis and design of live project   |
| 10      | Verifying design with manual calculations of beam - B, Column - C, shear wall- SW etc.  |
| 11      | Finalization of foundation system & design.   |
| 12      | Preparation of BOQ  |
| 13      | Excel sheet development   |
| 14      | Excel Sheet Verification  |
| 15      | Introduction to condition assessment for retrofitting & rehabilitation of structures    |
| 16      | Introduction to Pre cast construction   |

**Month-wise Schedule**

|                | First Week                               | Second week                            | Third week                             | Fourth week                              |
|----------------|--|--|--|--|
| <b>Month 1</b> | Code learning                            | Code learning                          | Code learning                          | Code learning                            |
|                |  | Structural Drawing standards/DBR Study | Structural Drawing standards/DBR Study | Soil Report Study & Arch. Drawings study |
| <b>Month 2</b> | Software learning                        | Software learning                      | Software learning                      | Study of BOQ                             |
|                | Soil Report Study & Arch. Drawings study | DBR & Framing Plans preparation        | DBR & Framing Plans preparation        | Structural model preparation             |
| <b>Month 3</b> | Structural model preparation, Loadings   | Structural model EQ Analysis           | Structural model Checks                | Structural model finalization            |
|                | Manual design sheets                     | Manual design sheets                   | Study of shear walls                   | BOQ preparation                          |
| <b>Month 4</b> | Verification of results                  | Detailing of Columns/Shear walls       | Beam design/detailing                  | Foundation Design & Detailing            |
|                | Detailing of Columns/Shear walls         | Manual Slab, beam                      | Isolated/Combined Footings             | Raft & Pile foundations                  |
|                | BOQ preparation                          | BOQ Preparation                        |  |  |
| <b>Month 5</b> | Raft design                              | Steel structure design                 | Steel structure design                 | Steel structure design                   |
|                | Slab & Staircase design & detailing      | Pile Foundation                        | Study of Flat Slab                     | Retaining walls & Water tanks            |
| <b>Month 6</b> | Connection design                        | Connection design                      | Project report                         | Project report                           |
|                | Retaining walls & Water tanks            | Introduction to condition assessment   | Introduction to Pre cast construction  | Presentation                             |