CIVIL ENGINEERING

THE ENGINEERING DESIGN PROCESS

DEFINE the problem

IDENTIFY constraints on your solution (e.g. time, money, materials) and criteria for success

COMMUNICATE your solution

BRAINSTORM multiple solutions for the problem

ITERATE to improve your prototype

SELECT the most promising solution

TEST and evaluate your prototype

PROTOTYPE your solution

Course Module of Civil / Architecture
(Duration: 3-6 Month)

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1) **AutoCAD (2D Drawings & 3D Modeling)**   **(Duration: 60 Hrs.)**

   Mechanical Drawing

   Civil Drawing

   Electrical Drawing

   Fabrication Drawing

   PCB (Printed Circuit Board) Drawing

   3D Modeling

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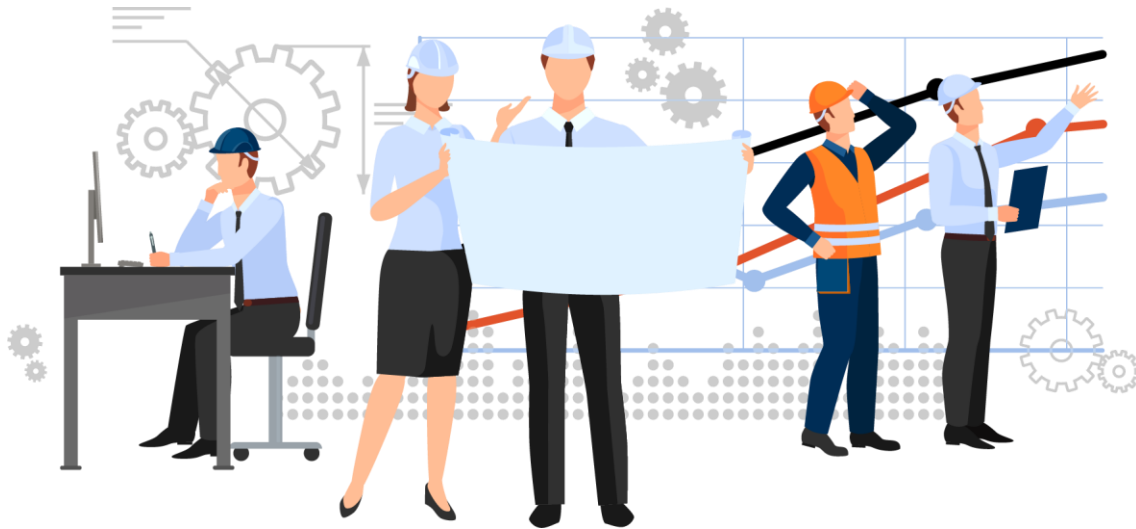2) **3D Civil Architecture**   **(Duration: 60 Hrs.)**
   Planning with VASTU
   All Type Construction Drawings
   (Plan, Section, Elevation, Layout, Excavation, Ground & Lintel Beam Drawing, Slab
   Details, Electrical Details, Opening Schedule, Water Supply, Sanitary Details,
   Staircase, Submission Drawing, Location Plan & 3D Model of Structure)

   (Note: Site Visits & Manage 1 Site on 3 month at least.)

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3) 3Ds MAX Design   **(Duration: 90 Hrs.)**

3D Modeling of Structure
Create Landscapes
Interior Geometry as per requirement
Exterior Geometry as per Prospect
Civil Animations
Creating Walkthroughs

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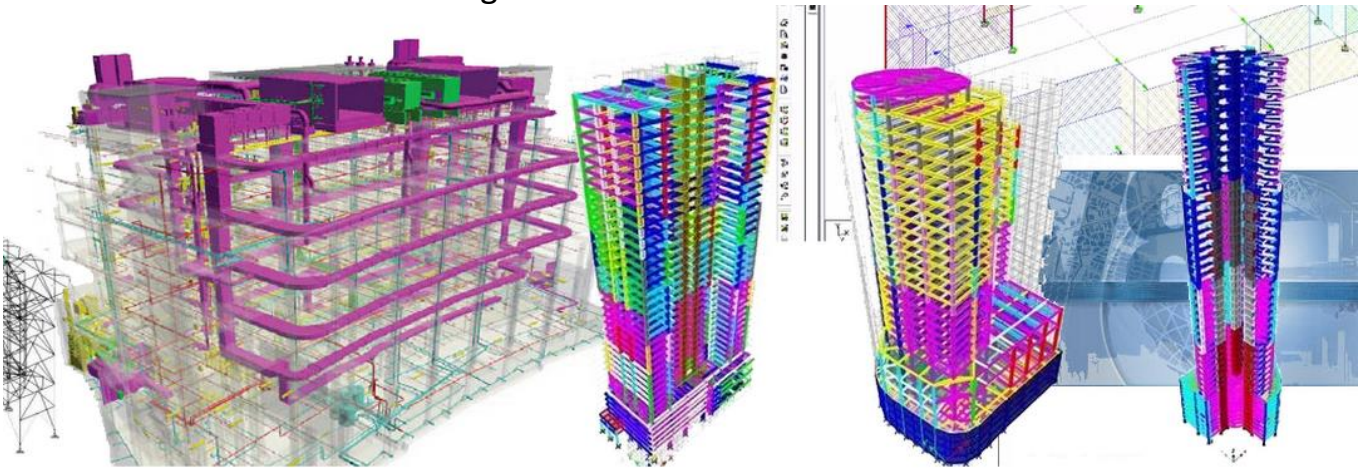**4) STAAD Pro (Structural Analysis and Design Professional)   (Duration: 30 Hrs.)**
Structure Detailing
Water Tank (Circular & Rectangular)
Bridge Deck & Truss Design
Mobile & Transmission Tower
Steel & Concrete Detailing

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5) Extra Activity   (Duration: 20 Hrs.)
Photoshop for Color Mapping
Concept of Revit Architecture & Google Sketchup
Cost Estimate for Construction Management

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