SCITHPD 01- Introduction to House Plan Drawing
Course Structure

Contact Hrs- 30
Mode of Delivery - Online via Zoom

Aim of the Course:

The aim of the course **"Introduction to House Plan Drawing Using AutoCAD"** is to equip participants with the foundational skills and knowledge required to create accurate, functional, and regulation-compliant house plans using AutoCAD software. This course aims to blend technical proficiency with practical design principles, enabling participants to confidently draft and present professional house plans while addressing zoning regulations, property bearings, structural elements, and aesthetic considerations.

Course Description:

This course is designed to introduce participants to the fundamentals of developing house plans using AutoCAD, focusing on core design principles, planning procedures, and adherence to regulatory standards. Through hands-on training and guided exercises, participants will learn the essentials of drafting functional and accurate house plans while gaining an understanding of industry best practices.

Key topics include managing zoning regulations, plotting property bearings, and incorporating critical design elements such as proportions, furniture layouts, and structural features. The course also covers the technical aspects of planning drainage systems, applying dimensions to drawings, and enhancing drawing accuracy using AutoCAD tools.

In addition to technical skills, participants will gain practical insights into conducting site visits to identify and document key features. You'll learn to represent structural elements such as columns, doors, and windows effectively while ensuring compliance with relevant codes and regulations.

By the end of this course, participants will be equipped to create professional-quality house plans that balance aesthetics, functionality, and technical precision. Whether you're an aspiring designer or a professional seeking to expand your skill set, this course offers a comprehensive introduction to house plan drawing with AutoCAD.

Pre-requisites:

To enrol for this course students must have:

1. A working knowledge of **Autodesk AutoCAD** or have completed a basic AutoCAD training course.
2. A properly working **computer or laptop** capable of running AutoCAD software (installed or web version).
3. Basic computer literacy, including familiarity with operating systems and file management.
4. Proper access to **the internet** for online classes and course resources.
5. An interest in or exposure to architectural design or drafting concepts (optional but beneficial).

Module 1: - Plot Property Bearings

- o Create a Property Bearing from a Survey Report.

Module 2: - Site Plan

- o Create a site plan from the property bearings in Module 1.

Module 3: -Foundation Plan

- o The importance of using Grid lines in house plans.
- o The application of Grid lines to the foundation plan.

Module 4: - Walls

- o Identify the correct wall type, and implement it into the project.

Module 5: - Doors & Openings

- o The correct method for placing doors and openings in the project.

Module 6: - Fixtures and Furniture

- o The addition of fixtures/furniture/appliances

Assessment Structure –

- o Assessment 1- 60%- Practical Task: Drawing House Plan with Gridlines.
- o Assessment 2- 20% Practical Task: Add dimension to House Plan.
- o Assessment 3- 20% Practical Task: Create Electrical and Drainage System layout.

Note- Details on assessments will be provided in class