







# FUNDAMENTAL MODELLING OF STRUCTURE

### COURSE OUTCOME:

The developments of the course outcome are based on the international and local standards of scope of work, defined for BIM modellers roles and responsibilities. It is therefore, targeted at skill sets to develop competency in hands-on technical skill, BIM knowledge and pro-active problem solving which tailored to suit local requirement. Upon successful completion of this course, the participants are expected to be able to:

- Operate a 3D parametric modelling tool
- Interpret design intent to be used in technical modelling
- Develop a 3D BIM model appropriately
- Extract and prepare related design deliverables such as drawings, material schedule, schedule of accommodation and etc.
- Utilise 3D BIM model as interaction, communication and collaboration tools
- Apply BIM based process flow of technical modelling
- Identify problems and associated challenges in delivering BIM based process flow

### Pre-Requisite :

- Has attended BIM Concept & Theory
- Knowledgeable in architectural design, engineering or construction
- Basic knowledge of BIM tools and concept

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### COURSE OUTLINE:

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#### Introduction

- Introduction to basic concept
- Introduction to Revit interface
- Revit features and function
- Model navigation

### **Creating Structure** Modelling

- · Link with architecture model
- · Copy monitor (levels)
- Create new views in structural plans
- Importing drawing files
- Adding grid lines to imported drawings

# DAY

**Creating Structure** Modelling (Cont)

- Customization component family libraries
- Adding structural columns & rectangular beams to the levels
- Creating structural floor
- Creating load bearing wall
- Draw wall opening
- · Adding stumps, pile caps & square piles

#### **Modelling Output**

- · Schedules/ Quantities
- Calculate & produce total quantities in the schedule

### Annotation and Tagging

- Labelling & tagging
- Dimensioning

## DAY

### **Creating Drawing Sheet**

- Adding project information
- Creating sheet drawing · Adding sheet to the
- project · Adding new views in sheets

#### **Creating Component** Libraries

- Creating pile caps families
- Setup pile caps libraries parameters & pile caps material parameter
- Setup square piles parameters & square piles material parameter Create CIDB title
- block
- Setup parameters & text
- Inserting image in title block

### Revision

DA'

Exam

FOR MORE INFORMATION:

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