



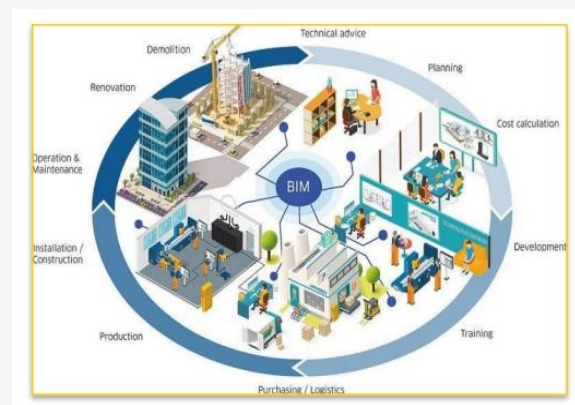
## About the Course

Building Information Modeling - BIM is an intelligent 3D model-based process that gives architectural, engineering and construction professionals the insight and tools to efficiently plan, design, construct and manage buildings and infrastructure. The course addresses the rapidly evolving needs of the built environment sector with respect to the emergence of BIM as a working practice. BIM manager plays a crucial role in advising clients, internal and external stakeholders on the benefits of BIM, and in implementing and managing the major BIM processes. This requires the demonstration of a complete knowledge of the BIM process & the ability to create the project environment in which BIM can realise its full potential. In this course, learners will be guided through each of the major project stages, from the strategic definition of the project right through to handover, operations, and end of use. At each stage, the trainer will demonstrate how to balance technical requirements with project management skills, so the students are confident in implementing BIM methodology. The course covers the key skills and competencies required for implementing BIM-Building Information Modelling to AECO-Architecture, Engineering, Construction & Operation projects.



## Key Topics

- ▶ Evolution of BIM
- ▶ Introduction to BIM
- ▶ Design authoring using **Revit**
- ▶ Visualisation
- ▶ Interference/clash check using **Revit**
- ▶ Documentation & Common Data Environment (CDE)
- ▶ Level of Development
- ▶ Field BIM
- ▶ Introduction to 5D & Asset Information Model (AIM)



## Course Objectives

The objective of the course is:

- ▶ To learn the concept of Building Information Modeling
- ▶ To understand the workflow followed in industry during creation of BIM 3D model which includes building the discipline-based model and create the federated models.
- ▶ To explain the process of creating the 4D & 5D BIM model
- ▶ To comprehend the various emerging trends of BIM & concept of digital twin

## Learning Outcomes

On successful completion of the course, the learners will be able to:

- ▶ Comprehend the concept of BIM in lifecycle of a project
- ▶ Create the workflows of Design authoring followed in industry during creation of 3D model
- ▶ Develop a BIM model and check for clashes and resolve interferences
- ▶ Evaluate the integration of schedule and cost in BIM model using 4D and 5D
- ▶ Illustrate the various emerging trends of BIM & concept of digital twin