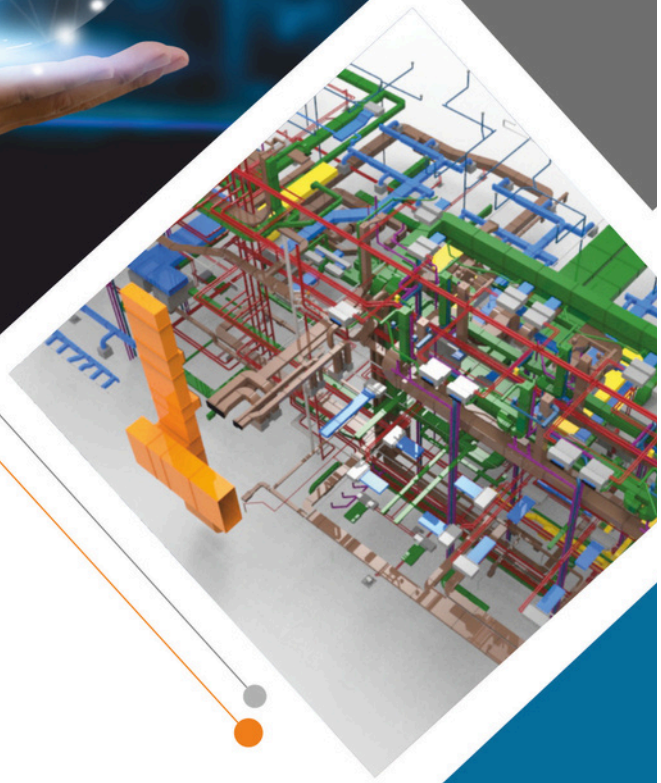
STRUCTURE

ENGINEERING CONSULTING TRAINING

PG in
BIM MEPF ADVANCE

A holistic approach for MECHANICAL & ELECTRICAL engineer to get in to current MNC'S demand & entrepreneur



Live
6 Months

10+
Project

Technical &
Nontechnical

8+ Core Industrial
Software

Life Time
Career support

Enroll Today

Program Brochure

2025

INTRODUCTION

we are designer engineer architecture planner technical specialists and trainer. we operate in the innovation and revolutionary changing field of designer and engineering construction installation and infrastructure educational services rank top in relate with civil/structure/infrastructure

We have a global community of engineers, technician and expert to deliver quality of training and services

community of 10000+ and still counting Our trainee are from South east Asia Europe, Australia and UAE.

Our corporate training program and engineering educational services ranked top in INDIA and all over the world by most recognized organizations. We provide courses relate with civil/structural/ infrastructure engineering.

ABOUT PROGRAM

BIM MEPF

MEP BIM (Mechanical, Electrical, and Plumbing Building Information Modeling) is a specialized form of BIM that focuses on the design, coordination, and management of a building's MEP systems. It provides a digital representation of these systems, allowing for enhanced collaboration clash detection, and better decision-making throughout the project lifecycle. Real challenge for Engineers and technical specialist are increasing day by day due to project complexity and environment factor by adapting data driven technology this course enable you to accept that challenges.

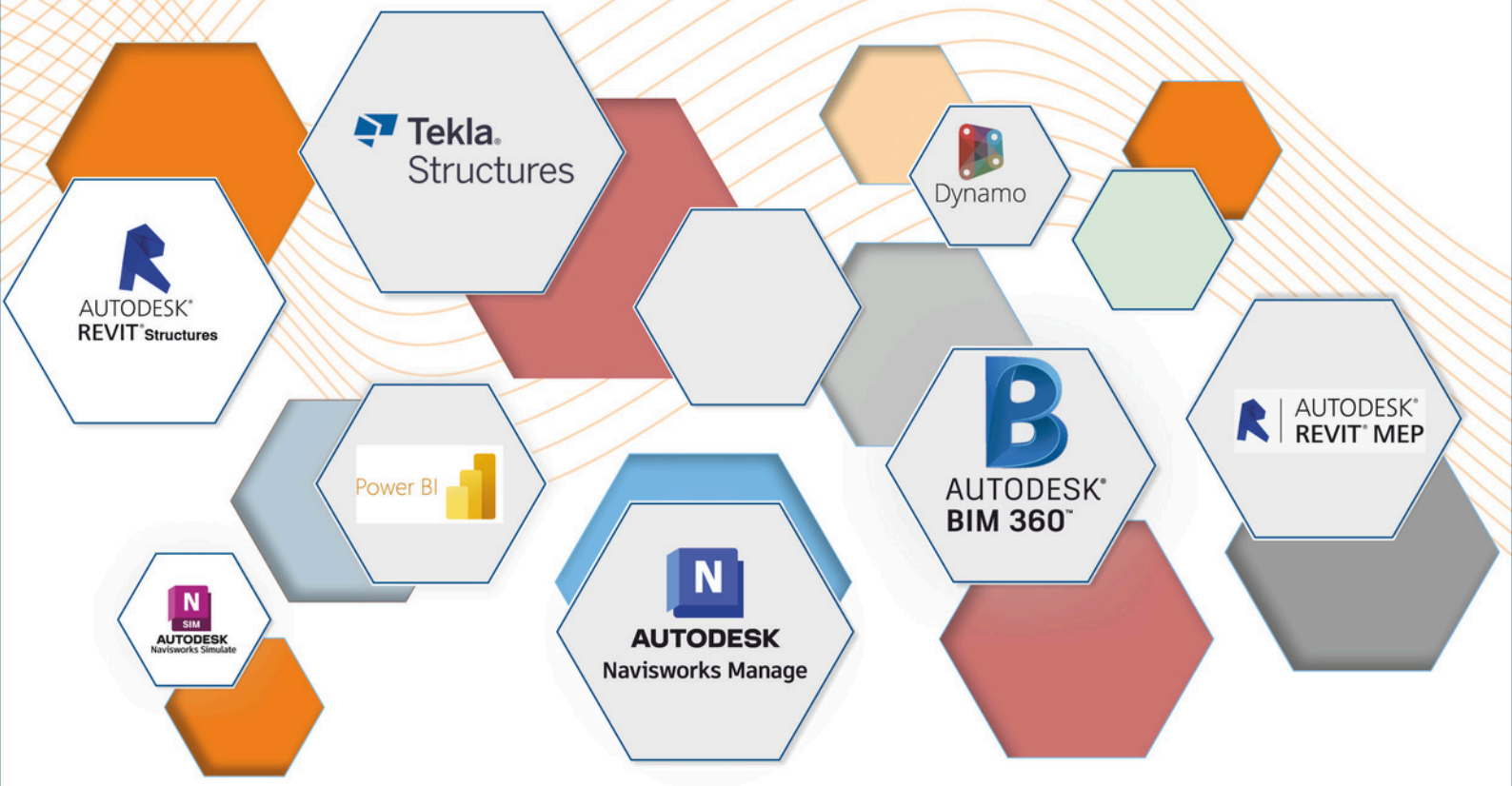
What is BIM?

Building Information Modelling (BIM) is the foundation of digital transformation in the architecture, engineering, and construction (AEC) industry. Managing Digital asset of construction industry with Technology, People and Stake Holder, Open all possibility and provide smooth coordination.

Bridge Information Modelling (BIM) is the holistic process of creating and managing information for a built asset. Based on an intelligent model and enabled by a cloud platform, BRIM integrates structured, multi-disciplinary data to produce a digital representation of an asset across its life cycle, from planning and design to construction and operations.

Master 10+ Software and Tool

- Master 10 Software and Tool
- 10+ Live Project
- 100+ hr. of Learning
- 100% Live Session
- Access of Learning Portal for revision



BIM Research

Module: 01 Research and 3D Model Operation

1.1 BIM Research and Study:
BIM in AEC industry is new era data driven technology.

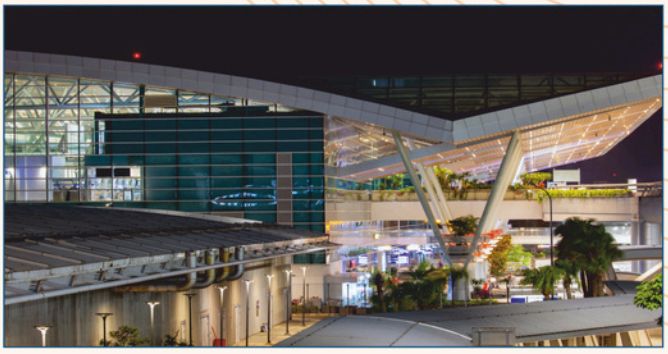
- BIM Collaboration & Standards
- Worksharing & Collaboration tools
- Revit Worksets & BIM 360 workflows
- National & International BIM Standards (like ISO 19650, GFC)
- Common Data Environment (CDE)

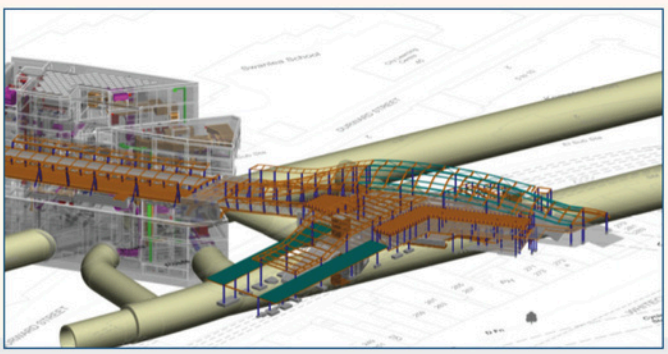
Introduction to BIM for MEPF

- What is BIM? Importance in MEPF
- Differences between CAD and BIM
- BIM Execution Plans (BEP)
- LOD (Level of Development) explained
- MEPF coordination process overview

Software Tools Overview

- Autodesk Revit MEP (main focus)
- Navisworks Manage (for clash detection)
- AutoCAD MEP (for legacy project support)
- BIM 360 / ACC (cloud collaboration)
- **Project Type : Building Structure, Airport Terminal, Industrial Building, Metro and Railway.**





Revit MEP

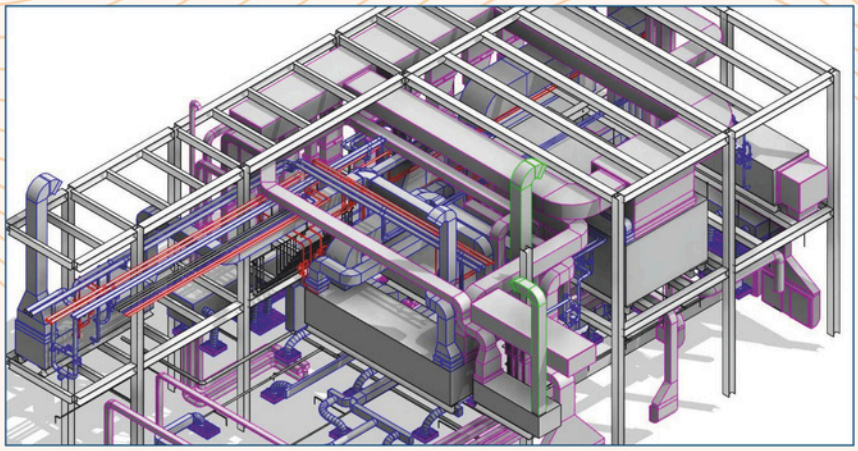
- Revit MEP Essentials
- Revit Interface and Project Setup
- Linking Architecture & Structure models
- Levels, Grids & Views setup
- Templates, Families & Worksets

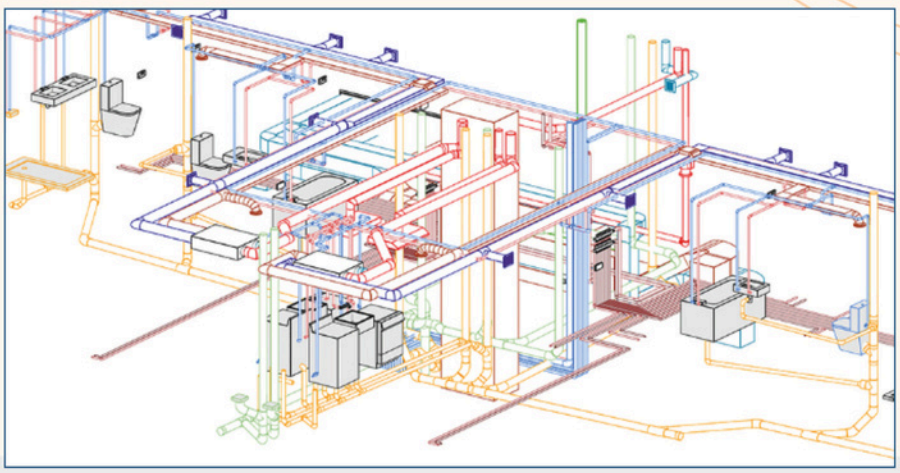
Mechanical Systems (HVAC)

- HVAC System types and components
- Ductwork modeling
- Air Terminals, AHUs, FCUs
- Duct sizing and system analysis
- Creating and editing schedules

Electrical Systems

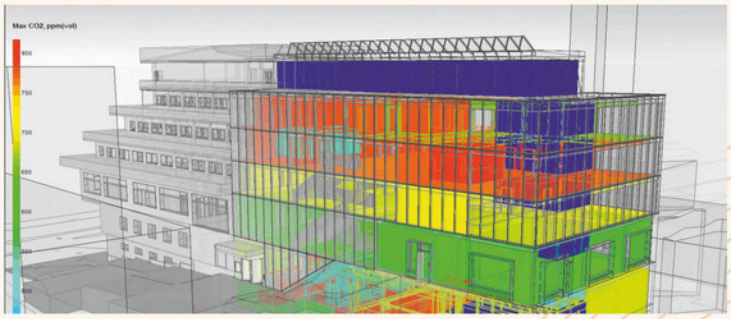
- Power distribution system modeling
- Lighting systems
- Switchboards, Panels, Circuits
- Load calculation and panel schedules
- Lighting analysis tools





Module : 03 BIM 4D/5D Documentation & Automation

Module:03 BIM 4D-54



Autodesk Naviswork

Simulating the progress of the construction activity helps the construction team visualize logistical issues or inefficiencies
The virtual simulation exposes details such as out-of-sequence work, scheduling conflicts between multiple trades, 'what if' scenarios, and macro-level construction phasing strategies all in order to achieve the optimization of the construction schedule.

Coordination & Clash Detection

- Interdisciplinary coordination workflow
- Using Navisworks for clash detection
- Clash matrix preparation
- Clash resolution and reporting
- Redline markups and issue tracking

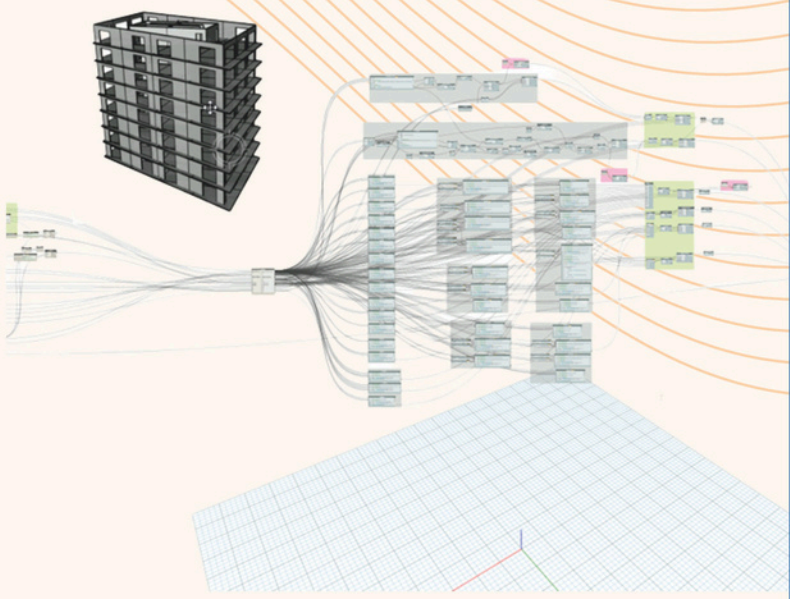
BIM Documentation & Output

- Sheet setup and annotation
- Tagging and dimensioning
- BOQ/Schedule extraction
- Exporting to PDF, DWG, IFC
- Model review and submission standards

Module :5.1 Visual Programing

Software: DYNAMO

1.1 Visual Programing: Establishing visual, systemic, and geometric relationships between the different parts of a drawing is key to the design process. Workflows influence these relationships from the concept stage to final design. Similarly, programming allows us to establish a workflow, but through formalizing algorithms.



1.2 Revit and Dynamo: Using Dynamo, you can work with enhanced BIM capabilities in Revit. Dynamo and

Module : 04 Data Presentation and AR VR

Module: 05 Project Management intergation with BIM 4D 5D AND 6D
Duration : 20 hr.
Software: MS Power BI, Autodesk Construction Cloud, BIM 360

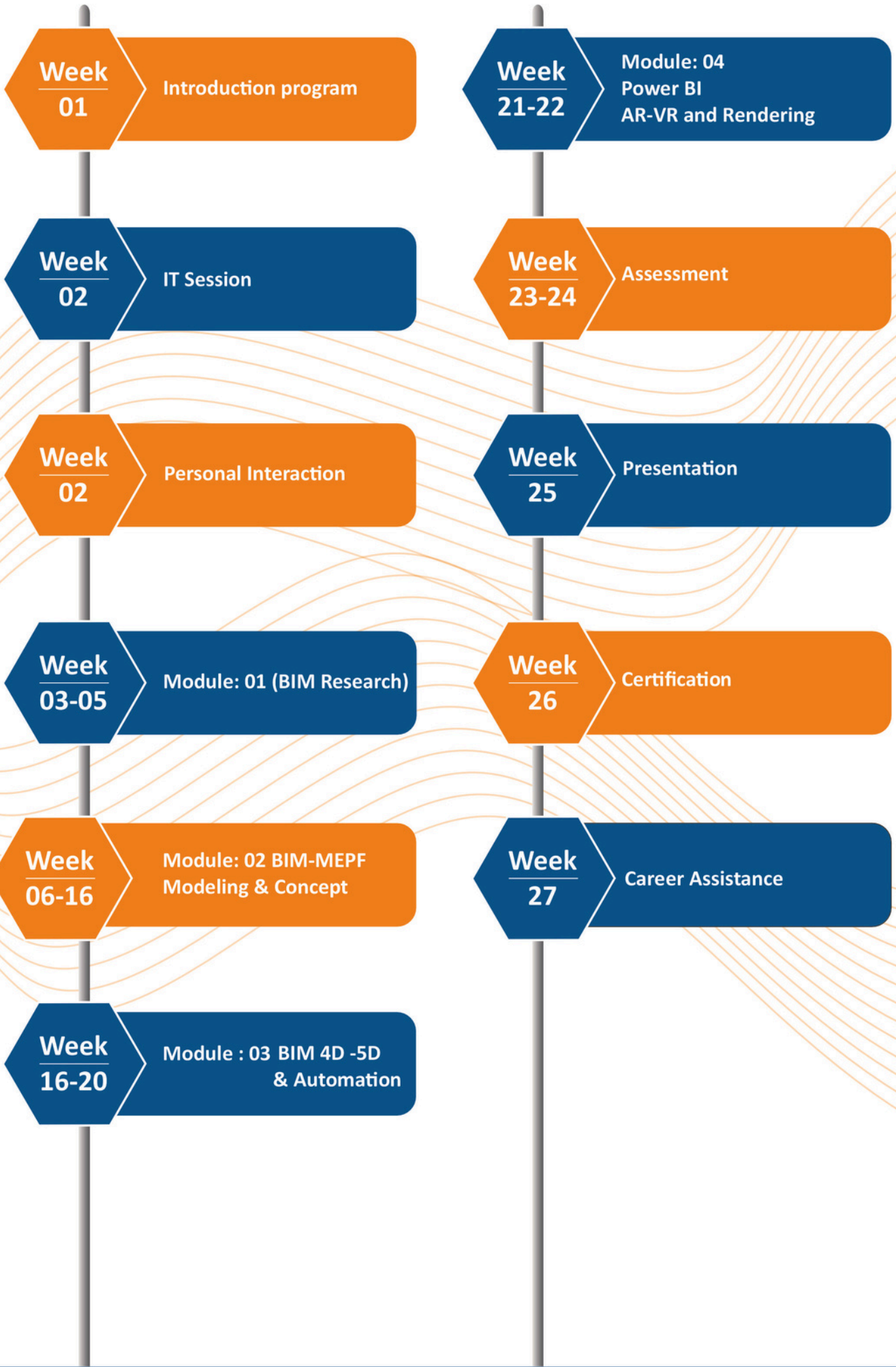
Business Intelligence : Power BI is a Data Visualization and Business Intelligence tool that converts data from different data sources to interactive dashboards and BI reports. Power BI suite provides multiple software, connector, and services - Power BI desktop, Power BI service based on Saas, and mobile Power BI apps available for different platforms. These set of services are used by business users to consume data and build BI reports.

5.1 AR: Arguments Reality

5.2 VR: Virtual Reality

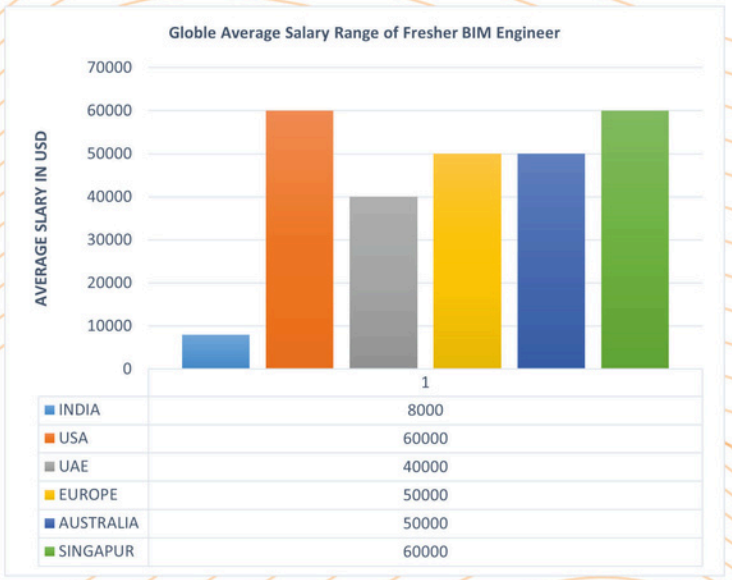
5.3 Scan to BIM: In a Scan to BIM process, a laser scanner is used to capture an accurate 3D scan of the real world conditions on a project. The scan data is then imported into a 3D modelling environment to create either accurate as-built models or to inform the design with the real world conditions.

Road Map For Learning



Career Graph

- BIM Modeler (Structure+Archi+MEP)
- BIM Construction Coordinator
- BIM Project Coordinator
- BIM Manager



Global Hiring Company

ARUP	ATKINS Member of the SNC-Lavalin Group	TATA TATA CONSULTING ENGINEERS LIMITED	Stantec
WSP	Kimley»Horn Expect More. Experience Better.	kpff	Balfour Beatty Construction
Honeywell	RAMBOLL	FLUOR	BECHTEL
INTEGRAL	COWI	MOTT MACDONALD	Shapoorji Pallonji
SKANSKA	ARCADIS	Jacobs	VINCI

Admission Process

Enrolment Form

A one-on-one chat with our SME to understand your basic knowledge, prior work experience, and your expectations from the course. After your interview assessment,

Interview and offer letter

A one-on-one chat with our SME to understand your basic knowledge, prior work experience, and your expectations from the course. After your interview assessment,

Payment

Based on your interview performance, you would receive an offer letter and an fee payment as per option choosed

Batch Allotment

After the payment formalities, you will be given course credentials and your learning journey will begin!

FEATURES , ELIGIBILITY & FEE STRUCTURE

Key Features:

1. Mode of Program: Online Live
2. Platform : MS Team
3. Duration: 08 Month
4. Recording of live class
5. Access of E-Liberary
6. 1 Year access of www.academy.structure.live for learning

Eligibility

Bachelor/Master/PHD in civil/Mechnical/Electrical or relevant work experience in AEC Industry

Program Fee:

INR 62,000/- (including 18% GST)

Other then Indian & African subcontinent : USD 1,000/-

Contact Us:

For further details, please reach out to:

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STRUCTUREX

ENGINEERING CONSULTING TRAINING

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THANKS FOR BEING WITH US