

Building Information Modeling Software-Revit

Revit features for BIM, the intelligent model-based process used to plan, design, construct and manage buildings and infrastructure. Revit supports a multi-discipline collaborative design process.

Revit Architecture—

Conceptual Design Tools—Sketch and create freeform models and create massing studies.

During the conceptual design phase, create masses to explore ideas and perform early analyses. As the design matures, manipulate these forms to use as the basis for more detailed architecture



Architectural Modeling—Add architectural elements to the building model, including walls, doors, windows and components.



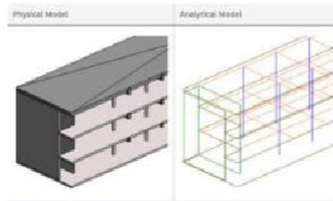
What You can do in Revit Architecture—

- 3D Design Visualization
- Optimize Building Energy
- Site Modeling.
- **Architectural Documentation**- Create an accurate and detailed Architectural documentation i.e. Sheets with different Views ,Specification detailing ,Opening Schedules.

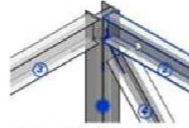
Revit Structure

Physical and analytical Model (Structural Modeling)-

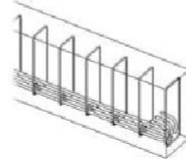
• Create a physical model for co-ordination and documentation, and an associated analytical model for structural analysis. Structural model created using Structural Columns, Beams, Beam Systems, Braces, Structural Framing, Structural Connections, Detailed Steel Modeling, Trusses, Structural Walls, Foundations, Structural Floors & Reinforcement.



Structural Steel Modeling—Model connections with a higher level of detail using a variety of parametric steel connections in Revit or by creating your own custom steel connections.



Reinforcement Detailing—Create 3D reinforcement designs for cast-in-place and precast concrete structures. Produce reinforcement shop drawing documentation with rebar schedules. Use reinforcement tools to add reinforcement, such as rebar, reinforcement bars, or fabric to valid hosts, such as concrete columns, beams, walls, foundations, and structural floors.



Structural Documentation—Create an accurate and detailed structural documentation of multimaterial designs.

Revit MEP

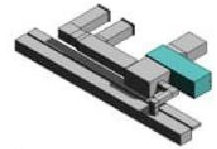
HVAC design and documentation—Design complex duct and pipe systems to express intent, and model duct and pipe systems with mechanical design content.

Prepare for Heating and Cooling Loads Analysis. The project information (location and building definition) allows you to obtain more accurate heating and cooling information for your model.

Determine Heating and Cooling Requirements. Verify that spaces and zones are properly placed in the project, and run a heating and cooling loads analysis to help with planning the HVAC design.

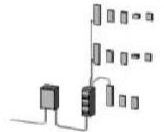
Select Parts for the HVAC Systems. Use the Heating and Cooling Loads report to guide you in selecting the parts for the systems in the project.

Design the Duct Systems. Connect compatible air terminals and air handling equipment to provide the heating and cooling required for the project.



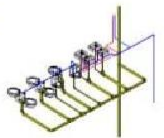
Electrical design and documentation—Design, model and document electrical systems. Keep track of electrical loads throughout the distribution system.

- Plan and design electrical systems to meet building requirements.
 - Determine Electrical System Requirements
 - Prepare the Electrical Design.
- Design the Electrical Systems



Piping Systems—Define the components, routing, and system settings for a piping system

- Determine Piping System Requirements
- Select Components for Piping Systems
- Design the Piping Systems



About Government Polytechnic Government Polytechnic, Nagpur is one of the Prime Institutions of Govt. of Maharashtra established in 1914. This Institute imparts technical education at Diploma and Post Diploma levels and is known for its excellence at State level and National level. Institute has been accredited by National Board of Accreditation, New Delhi.

About **Institute of Architectural Graphics (IAG)**- IAG is a Pool of Engineering professionals/Industry persons/Autodesk certified Professionals headed Mr. Nandkumar Mahajan, a Civil Engineering professional having vast industrial experience. IAG has pre-eminent goal of updating latest software knowledge amongst engineering Students/ Professionals/Industry. IAG is having vast experience in Industry and its Interface with various softwares. Mr. Nandkumar Mahajan(Director) is Autodesk Certified Professional in-AutoCAD, Revit Architecture, Revit MEP (Electrical & Mechanical), Revit Structure & AutoCAD Civil 3D.

IAG has designed and conducted skill based training programs for Government Engineering/ Architecture colleges as well as for Industry with MSME Nagpur.

Institute of Architectural Graphics (Firm) is empanelled as Architectural/Structural/Green building Consultant in PWD Department (Nagpur)

IAG has conducted customized training programs for corporate companies like "P.C. Patel Mahalaxmi Infra LLP" Ahmadabad.

IAG has bagged Best Autodesk Partner Award amongst SAARC of 2017/18

Infrastructure Well equipped laboratories, with a range of Desktops and other peripherals.

Eligibility: Professionals/Diploma./Degree students from Architectural/Civil/Electrical and Mechanical faculty.

For further details, please contact –

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Principal



Course Fee: Rs. 9800- per candidate

Duration: 120 hours

Timing: Morning(—08.00 to 10am)

Evening —(6 pm. To 8:00 pm)

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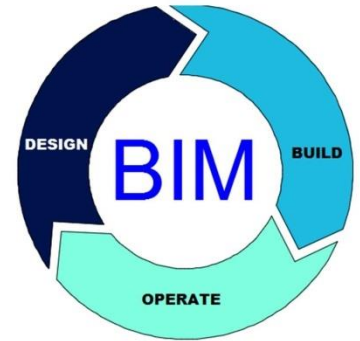
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