COGNIZANCE 2K24

CSPIT Civil

Title of Technical Event (Workshop): Introduction to Building Information Modeling (BIM)

Event Coordinators:

Faculty Coordinators

1. Mr. Nirpex Patel - 7984941920
2. Mr. Vipul Vyas - 9727767541

Student Coordinators

1. Raj Dholiya (Student Id: 21CL004, 7359462750)

Event Description:

Day 1 Session 2: Introduction and Application of BIM - Mr. Nimesh Patel,Director KES.

Day 1 Session 3: BIM for Architecture - Manoj Trivedi / Sabhajeet Singh, CAD Engineer KES

Day 2 Session 1: BIM for Structure - Nirav Rajpurohit, CAD Engineer, KES

Day 2 Session 2: Working Drawing Clash Detection and BOM Preperation using BIM, Manoj Trivedi, CAD Engineer, KES

Day 3 Session 3: Expert Session - Future Scope and Market demand for BIM

Will share later

Workshop Overview:

This workshop provides participants with a comprehensive understanding of BIM concepts, tools, and applications. Participants will gain hands-on experience with BIM software and learn how to leverage its capabilities to enhance the entire building lifecycle, from concept and design to construction and operation.

Workshop Topics:

Introduction to BIM:

Definition and principles of BIM

Evolution of BIM in the construction industry

BIM Software Tools:

Overview of popular BIM software (e.g., Autodesk Revit, ArchiCAD, Navisworks)

Basic functionalities and user interface

BIM Modeling:

Creating 3D models of buildings and infrastructure

Understanding parametric modeling and its benefits

Collaboration and Coordination:

Collaborative BIM workflows

Clash detection and resolution

Construction Planning and Management:

Construction sequencing and simulation using BIM

4D BIM: Integrating time into the model

Data Management and Visualization:

Managing project data and metadata

Data visualization and analysis using BIM data

BIM in Facility Management:

BIM for facility operations and maintenance

Asset management and lifecycle analysis

Legal and Ethical Considerations:

Legal aspects of BIM implementation

Intellectual property and data ownership

Workshop Format:

- Lectures and Presentations: Experts in the field deliver presentations on various BIM topics, explaining concepts and best practices.
- Hands-on Sessions: Participants engage in practical exercises to work with BIM software, create models, and solve real-world problems.
- Case Studies: Analyzing real-life BIM projects to understand successful implementation strategies and challenges faced.
- Q&A Sessions: Opportunities for participants to ask questions and discuss specific concerns with the instructors.
- Networking: Participants can interact with industry professionals, fellow attendees, and workshop organizers to expand their professional network.

Target Audience: (Max 100 Participants)

Students from Architecture and Civil Engineering disciplines

By the end of the workshop, participants should have a solid understanding of BIM concepts and be equipped with practical skills to apply BIM methodologies in their respective fields with certificate of participation on their hands.