

**ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY,
CHIKKAMAGALURU**

DEPARTMENT OF CIVIL ENGINEERING

SUMMARY ON 5 DAY'S FACULTY DEVELOPMENT PROGRAM ON BIM

Date: 13th May 2024 to 17th May 2024

Executive Summary: Building information modeling (BIM) is the foundation of digital transformation in the architecture, engineering, and construction (AEC) industry. As the leader in BIM, Autodesk is the industry's partner to realize better ways of working and better outcomes for business and the built world.

Resource Persons:- Mr ANIL GHASTE & Mr SHIVA SHARAN

Immersive technologies are starting to move into the engineering and construction industry and there has been a strong uptake in the use of them for viewing 3D BIM models. BIM has encouraged the industry to create high fidelity, data rich 3D models but although these models can appear photorealistic and amazing flythroughs can be created, it is immersive technology that can really enhance how you visualize a project. Revit BIM (Building Information Modelling) software to drive efficiency and accuracy across the project lifecycle, from conceptual design, visualization and analysis to fabrication and construction.

OBJECTIVES OF THE FDP: To enable participants to create full 3D architectural project models and set3 them up in working drawings. To provide a forum to exchange views, ideas3 & the latest innovations. To offer learning on basics, emerging trends3 & challenges. To improve faculty ability in carrying out research, testing & consultancy. To focuses on basic tools that most users need to work with Revit Architec3 ture

OUTCOME OF THE FDP: Revit BIM software provides architects and designers with the tools they need3 to develop accurate, higher-quality architectural designs.

ACTIVITIES:

PROGRAM SCHEDULE

DAY 1 –13/05/2024
10:00 AM –11:00 AM –INAUGURATION
11:00 AM –1:00 PM –Session 1
Autodesk Software Registration and License Activation
Introduction to BIM and Revit
Overview of BIM and Understanding BIM principles
User interface and navigation and Basic commands / Tools
Hands-On / Practice
1:00 PM –2:00 PM –Lunch Break
2:00 PM –4: 00 PM –Session 2
Basic Building Modelling
Setting up project units and levels
Placing grids and reference planes
Working with wall and wall types
Editing Commands
Hands-On / Practice
4:00 PM –4:30 PM –Q & A

DAY 2 –14/05/2024
10:00 AM –11:00 AM –Session 3
Modeling basic building elements
Doors, Windows, and Interior Components
Working with Floor and Roofs
Hands-On
11:00 AM –11:30 AM –Tea Break
11:30 AM –1:00 PM –Session 4
Working with Interior Components furniture, fixtures
Using Editing Tools & Working with Views
Using Editing Commands Setting the view display
1:00 PM –2:00 PM –Lunch Break
2:00 PM –4: 00 PM –Session 5
Visibility Graphics, Duplicate Views
Elevations & Sections, Adding Callout Views
Creating and Modifying 3D Views
Modelling Floors Creating and Modifying Floors
Hands-On
4:00 PM –4:30 PM –Q & A

DAY 3 –15/05/2024
10:00 AM –11:00 AM –Session 6
Ceilings Creating
Ceilings Automatic & Sketch based Ceiling
Adding Lighting Fixtures
Modelling Roofs
Creating Roofs by Footprint
11:00 AM –11:30 AM –Tea Break
11:30 AM –1:00 PM –Session 7
Creating Roofs by Extrusion
Using Join & unjoin roof
Working with Openings (Dormer opening)
Modelling Stairs, Railings, and Ramps
Creating & Modifying Stairs
1:00 PM –2:00 PM –Lunch Break
2:00 PM –4: 00 PM –Session 8
Working with Railings
Sketching Custom Stairs
Creating Ramps
Working with Curtain Walls
Creating Curtain Walls
Adding Curtain Grids Working with Curtain
Wall Panels Attaching Mullions to Curtain Grids
Hands-On
4:00 PM –4:30 PM –Q & A

DAY 4 –16/05/2024
10:00 AM –11:00 AM –Session 9
Massing Creating
In-Place Masses using Forms
Adding Mass floors & Mass Components
Working with Shaft Opening
11:00 AM –11:30 AM –Tea Break
11:30 AM –1:00 PM –Session 10
Toposurface or Toposolid
Working with Site Features
Property Lines & Building Pads Adding
Site Components
Hands-On
1:00 PM –2:00 PM –Lunch Break
2:00 PM –4: 00 PM –Session 11
Annotating Construction Documents
Working with permanent & temporary Dimensions
Applying and Removing Constraints
Working With Text,
Model Text
Adding Detail Lines and Symbols
Creating Legends
Hands-On
4:00 PM –4:30 PM –Q & A

DAY 5 -17/05/2024
10:00 AM -11:00 AM -Session 12
Materials Creating
New Materials & Modifying
Customizing Project Settings (Fill patterns, Line styles, Line weight)
Hands-On
11:00 AM -11:30 AM -Tea Break
11:30 AM -1:00 PM -Session 13
Schedules Creating
Schedule and Quantities
Modifying Schedules
Material Take-off
Exporting Schedule
Creating Construction Documents
Sheets Setting Up
Sheets (Title Blocks)
Placing and Modifying Views on Sheets
Printing Sheets,
Export to Image file
Hands-On
1:00 PM -2:00 PM -Lunch Break

2:00 PM -4: 00 PM -Session 14
Room & Area
Adding Rooms and Tags
Room Separation Line and Boundaries
Working with Colour fill or Scheme
Rendering & Walkthrough
Placing Camera & Creating Renderings
Saving Render image or export image
Creating a Walkthrough & Export
Working with Family
Creating Components in family template
Hands-On
4:00 PM -4:30 PM -Valedictory

Inaugural Function:- on the first day as per schedule inauguration was carried out in the department seminar hall. The event was presided by Dr C T Jayadeva, Principal and Mr Anil Ghaste, Mr Shiva Sharan were the chief guests for the event. Event started with the invocation and dignitaries were formally welcomed by Dr Kiran B M, HOD. As a part of presidential speech Dr C T Jayadev addressed the participants. Also a brief insight on BIM was given by Mr. Anil Ghaste. The event was concluded by Mr Gouthan D R with vote of thanks.




 Signature of HOD
Dr. KIRAN B. M.
 B.E.,M.Tech.,Ph.D
 Professor & Head
 Department of Civil Engineering
 Adichunchanagiri Institute of Technology
 CHIKKAMAGALURU-577102



Chikkamagaluru, KA, India
Chikkamagaluru, Chikkamagaluru, 577102, KA,
India
Lat 13.340297, Long 75.797669
05/13/2024 10:21 AM GMT+05:30
Note : Captured by GPS Map Camera

||Jai Sri Gurudev||
Sri Adichunchanagiri Shikshana Trust (R.)
ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY
Chikkamagaluru-577102

Department of civil Engineering and ISCT
Cordially invites you to the inaugural function of

5 DAYS FDP ON ISCT[®]
"BIM"
INAUGURAL FUNCTION

On 13th May 2024, Monday at 9:30 AM
@ Civil Seminar Hall AIT, Chikkamagaluru

Divine Blessings: His Holiness Divine Soul Paramapoojya
Jagadguru Padmabhushana
SRI SRI SRI Dr. Balagangadharanatha Maha Swamiji

Divine Blessings: His Holiness Paramapoojya Jagadguru
SRI SRI SRI Dr. Nirmalanandanatha Maha Swamiji
Pontiff, Sri Adichunchanagiri Mahasamsthana Math

Gracious Blessings: **SRI SRI Gunanatha Swamiji**
Secretary, Sri Adichunchanagiri Mahasamsthana Math,
Sringeri, Chikkamagaluru Branch

Chief Guests: **Mr. Anil K. Ghaste**
AEC Specialist, Technical Director, ISCT (GLOBAL
INFOTECH), Autodesk Dharwad
Mr. Sharan Kumar
BIM trainer, ICAT, Darwad

President: **Dr. C.T. Jayadeva**
Principal, AIT, Chikkamagaluru

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Dr. KIRAN B. M.
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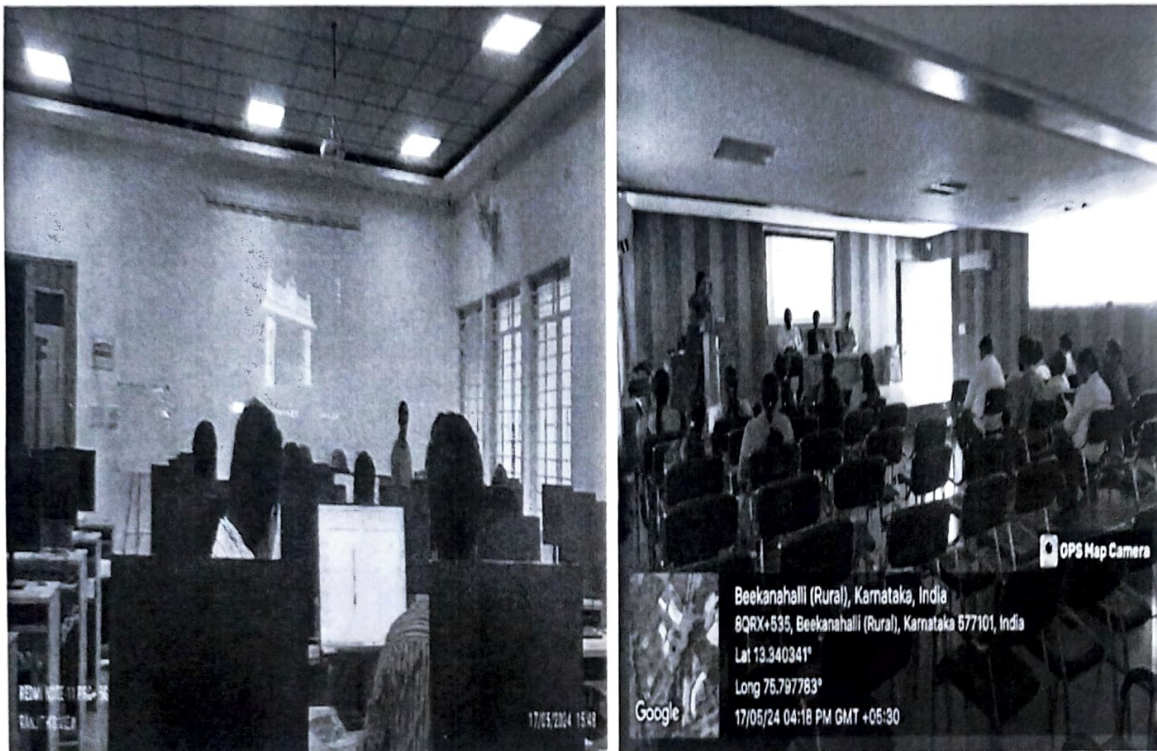
Challenges Faced:

1. Lack of participation among certain faculty members due the academic schedule.
2. Technical difficulties during sessions.

Recommendations:

1. Offer more hands-on workshops for practical skill development.
2. Implement a structured mentorship program for new faculty members.

Valedictory: On the last day as per schedule Valedictory was carried out in the department seminar hall. The event was presided by Dr C T Jayudev, Principal and, Mr Shiva Sharan was the chief guests for the event. Event started with the invocation and dignitaries were formally welcomed by Dr Kiran B M, HOD. Few participants gave their valuable feedback regarding the FDP. As a part of presidential speech Dr C T Jayudev addressed the participants. Mr. Shiva sharan was honored from the department side. The event was concluded by Mr Ranjith.P with vote of thanks.




Signature of HOD
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Faculty Feedback:



Conclusion:

Overall impact was good, teaching crew has got really good hours of hands on training. Development program was grand success with a take away package.

Acknowledgments:

Thank all participants, facilitators and anyone else who contributed to the success of the program.

Appendices:

1. Feedback forms link:

https://drive.google.com/drive/folders/INsDXcuODc8jopfqOTGqUCpOYpvoPaRQX?usp=drive_link

2. University Circular

https://drive.google.com/file/d/1qRDHViDAa0cU0Kg-xX1jzsala7cGL0m/view?usp=drive_link

3. Brochure and schedule

https://drive.google.com/drive/folders/1rGOjHAKNXSK2dKqctLtbaGOTToj4_9dB?usp=drive_link

4. CertificateLink:

https://drive.google.com/drive/folders/1Wi_mxcH6P5Zx3URsJhG4uX9s8ENSq5EC?usp=drive_link

FDP COORDINATORS

Head of the Department


Dr SANJITH J


Dr. KIRAN B. M.
Professor & Head B.E., M.Tech., Ph.D
Department of Civil Engineering
Adichunchanagiri Institute of Technology
CHIKKAMAGALURU-577102

Mr RANJITH P



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