SCHOOL OF CIVIL ENGINEERING

Brief Report of Six-Day Student Development Programme on

"BIM using REVIT Architecture"

During 14th – 19th November 2022

Mode: Offline

Organized By: School of Civil Engineering

Steering Committee

1. Dr. Y. Ramalinga Reddy, Professor & Director, School of Civil Engineering.
2. Prof. Bhavana B, Assistant Professor & Incharge Director, School of Civil Engineering.

Organizer(s)

1. Mr.Jayachandra, Assistant Professor, School of Civil Engineering.
2. Mrs.S.Kanimozhee Prashanth, Assistant Professor, School of Civil Engineering.
3. Dr.S.Madhura, Assistant Professor, School of Civil Engineering.

Acknowledgement:

We would like to thank our Honourable Chancellor **Dr. P. Shyama Raju** for providing all facility and supporting to organize such events. We would also thank our Respected Vice Chancellor **Dr. M. Dhanamjaya** and Registrar **Dr. N Ramesh** for extending support and guiding to organise this offline SDP and We would like to thank **Dr. Y. Ramalinga Reddy**, Director - School of Civil Engineering, for providing all the facilities, support, and encouragement towards organizing and conducting this SDP Programme and We also thank **Prof. Bhavana B**, Assistant Professor & Incharge Director, School of Civil Engineering for giving all support in conduction of this SDP.

About SDP:

School of Civil Engineering has organised 6-Day Student Development Programme on "BIM using REVIT Architecture" during 14th - 19th November 2022. A total of 12 sessions spread over 6 days covering the various concepts in BIM were conducted by skilled and efficient trainers from the Industry.

Course Objectives:

After completing the program, student will be able to:

- Use and Organize parametric components into families to streamline the modelling process.
- Capable of managing every element, from 3D view and title blocks, all the way to individual building components and ready to create customised building components, component schedule and quantities etc.,
- Complete construction documents and photorealistic rendering to present projects

Day-1

Revit Architecture User Interface. The Ribbon Framework about Building Elements About Families About Projects About Project Templates About the Default Project Template About Revit File Types. Save, Open, New (using template), Setting up the Work space, Unit set up. Setting up elevation views, editing levels, Navigation Tools, 3d view, Type of walls,

providing walls, constraints, base and top offsets, wall parameters, Providing floor, floor parameter.

Day-2

Providing doors and window, load family, parameters, Providing components, load family, different folders, parameter, Setting up camera , cropping views, setting up visual style, Render the camera views, render setup, Providing ceilling, parameter, providing ceilling lights.

Day-3

Rendering views with different render settings, Saving and exporting rendered images, Type of roofs ,Process of Sketching Roofs Guidelines for Adding and Modifying Roofs, About Curtain Walls About Curtain Grids and Mullions Creating Curtain Walls and Modifying Curtain Grids. Adding Stairs and Railings, About Walkthroughs.

Day-4

About Material Takeoffs, creating material, applying, paint, About in place families, About solids and voids, setting work planes and creating geometry, creating and modifying in place in families, Create a building pad, create a lane, create a graded region, edit the boundary of the main top surface, and Add site components, Create basic mass by extrusion, place a revolver, create a sweep, convert mass shapes building components,

Day-5

About Schedules , Adding Room Tags Modifying Room Area and Volume, About Drawing Sheets About Titleblocks Creating and Updating Titleblocks, -COMPLETION OF PROJECT WORK, Assesment-1.

Day-6

About Schedules,Adding Room Tags Modifying Room Area and Volume, About Drawing Sheets About Titleblocks Creating and Updating Titleblocks, COMPLETION OF PROJECT WORK, Assesment-2 & Valedictory.

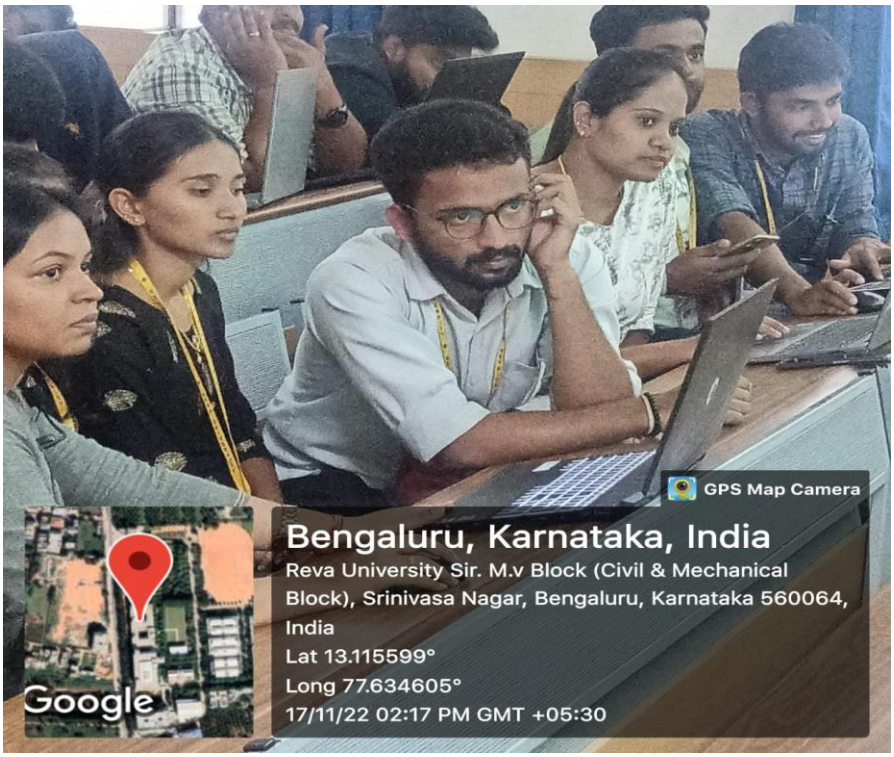
SDP Schedule.

A total of 161 students Participated in this event from the 4th Year, School of Civil Engineering.

BIM Using Revit Architecture Syllabus

SDP Banner

Some of the Pictures of the SDP



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Google

GPS Map Camera
Bengaluru, Karnataka, India
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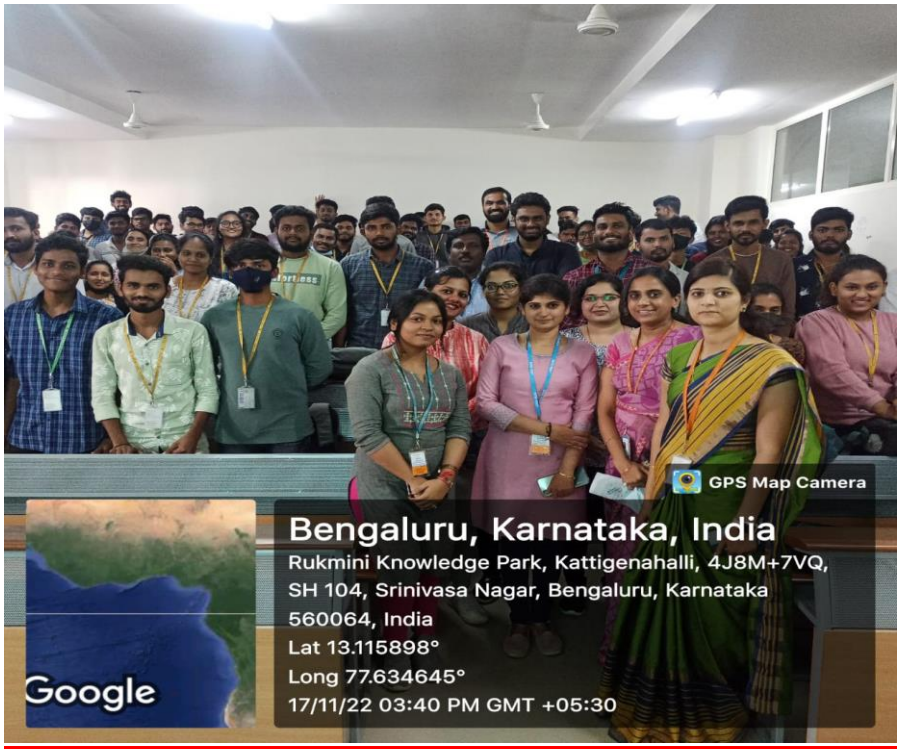
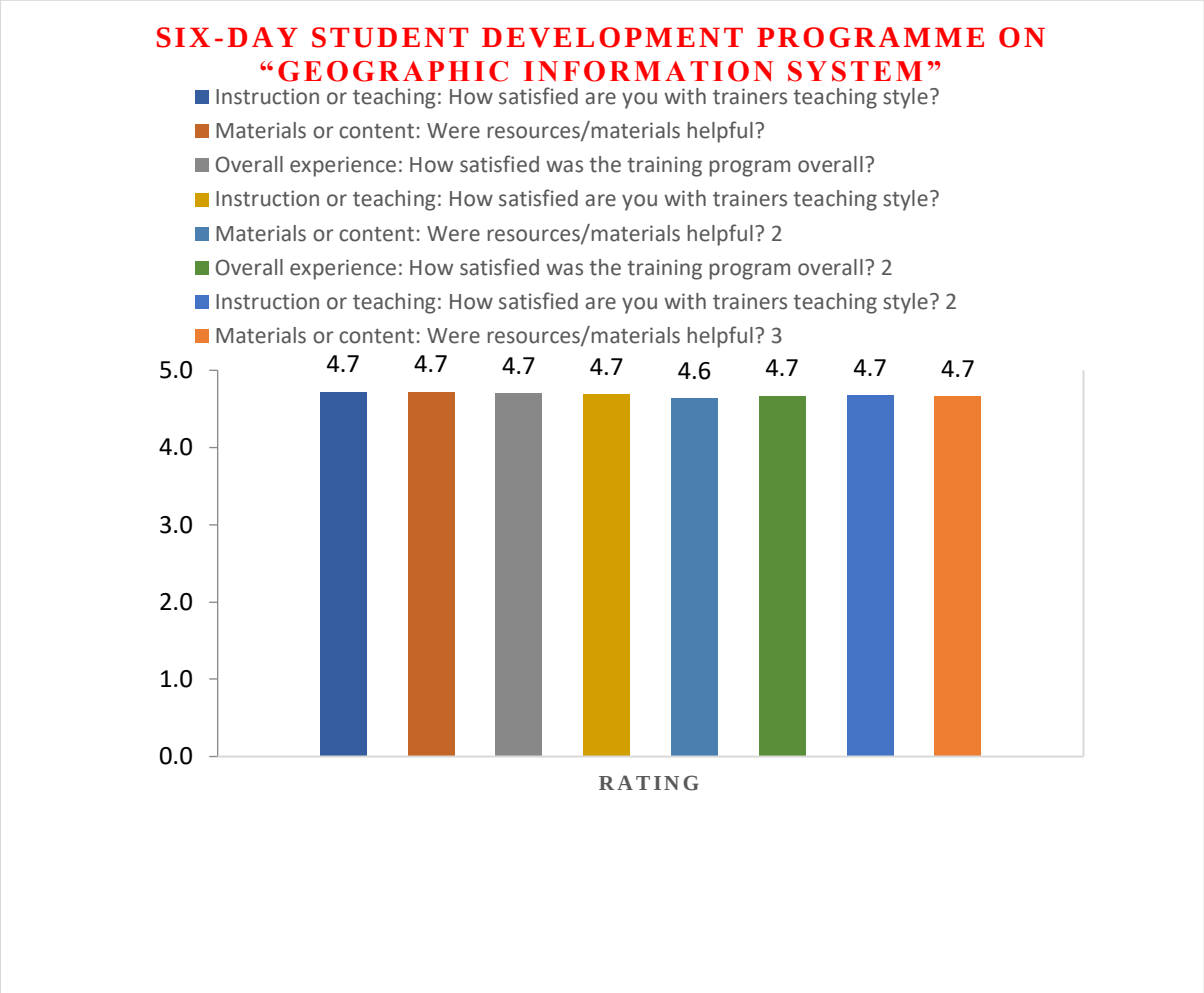


Course Outcomes :

Course is designed to help students in learning Revit as per the industry requirements to complete construction documentation.(PO-5,PO-8, PO-10, PO-12)

Students can Capable of managing every element, from 3D view and title blocks, all the way to individual building components and ready to create customised building components, component schedule and quantities etc (PO-5,PO-8, PO-10, PO-12)

FEEDBACK ANALYSIS



Coordinator **Academic Head** **IQAC Head** **Director**