SAPTHAGIRI COLLEGE OF ENGINEERING
(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi.)
ISO 9001 - 2015 & ISO14001 - 2015 Certified
14/5, Chikkasandra, Hesaraghatta main road, Bengaluru-560057
(Affiliated to Visvesvaraya Technological University, Belgaum & Approved by AICTE, New Delhi)
(Accredited by NAAC with "A" Grade)
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Monthly Event Report for the month of December

DEPARTMENT OF CIVIL ENGINEERING

*Type of Event/Activity	Hands on Training
Name/Title of the Event / Activity	Five Days Hands on Training on "REVIT ARCHITECTURE"
Date of Organization	06/12/2021 to 10/12/2021
Venue	CADD Lab, Civil Engineering Department, Sapthagiri College Of Engineering
Organized by	DEPARTMENT OF CIVIL ENGINEERING
Objectives of the event/activity	After completing this training, Students will be able to: ❖ Describe building information modeling methodology and its benefits. ❖ Use different parts of the Revit Architecture user interface and work with different types of architectural elements and families. ❖ Use the different views listed in the Project Browser, control the visibility and graphical ❖ Representation of objects in architecture model, and work with elevation, section, and 3D views. ❖ Set up a project and transfer standards between projects, add and modify levels in project model, create and modify grids. ❖ Work with architectural components: ❖ Grids and Levels Wall, Floors, Roof, Ceiling, Staircase, Railing, Revit Model Family ❖ Work with documentation components: Text , Tag , Title block, Room , Colour fill, Schedules ❖ Work with detail views, add 3D and 2D elements and detail components. ❖ Work with sheets and title blocks, print sheets, and export Revit architecture content to CAD formats.
Participants (Please attach list of participants, if it is organized/conducted in the dept.))	37

Event Description:

Revit is software mainly used for 3D Modeling or BIM (Building Information modeling). It will create a perfect scenario of what is going to happen at the construction site. So basically all the design clashes will be able to rectified using the Revit Model. Moreover, there is option for Structural Design and Analysis of Framing, Columns, Slabs etc. We can use this software for Rebar detailing. And the most important one is cost reduction in Estimation of the project as we can purge all the unwanted and unused materials

Images:

Note:

(i) After every event, please take feedback (online/offline).

(ii)At the end map PO's (with 3/2/1):

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
3	3	2	-	3	2	-	-	3	3	2	3

***Type of Event / Activity:**

Workshop/seminar/conference/hackathon/hobby project/mini project/ Invited Talk/Guest Lecture/ Skill enhancement program/Cultural activity/competitions etc.,

Date of Submission: Signature of the HOD

NOTE : All the Events should be in one PDF File.

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#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

DEPARTMENT OF CIVIL ENGINEERING

In Association with

Autodesk ATC CADCENTER AUTODESK. Authorised Training Centre

Organizing

"FIVE DAYS HANDS-ON TRAINING ON REVIT ARCHITECHTURE"

Resource Persons:

Viswas K Viswanathan and Rituparna
Autodesk Training Partner, Autodesk ATC CAD CENTER, Bangalore

Date : 6/12/2021 to 10/12/2021
Timings: 1.30PM to 4.30PM

Patrons :

Sri. G. Dayanand
Chairman

Sri. G.D Manoj
Executive Director

Dr. Manjunath G R
HOD, Dept. of Civil

Dr. H. Ramakrishna
Principal

Coordinators:
Prof.Kavya H P
Prof.Pramod K R

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Report on 5 days Hands-on Training on- Revit Architecture

Date- 10/12/ 2021

Name of the Workshop – 5 days Hands-on Training on Revit Architecture.

Name of Resource Person- Mr.Viswas

Name of workshop Coordinators- Ms.Kavya H P & Mr.Pramod K R

No. of Students registered for workshop- 37 Civil engineering studentsWorkshop

No. of Days: 5 Days

Venue:- Civil CAD LAB,

Schedule of workshop-.

Revit is software mainly used for 3D Modeling or BIM (Building Information modeling). It will create a perfect scenario of what is going to happen at the construction site. So basically all the design clashes will be able to rectified using the Revit Model. Moreover, there is option for Structural Design and Analysis of Framing, Columns, Slabs etc. We can use this software for Rebar detailing. And the most important one is cost reduction in Estimation of the project as we can purge all the unwanted and unused materials

The civil department has arranged a 5 days workshop on software Revit Architecture for civil engineering students from 06/12/2021 to 10/12/2021. Overall 37 students have participated in this workshop.

The inaugural function of workshop was done in presence of Dr.Manjunath. Head of civil Department on starting day of workshop.

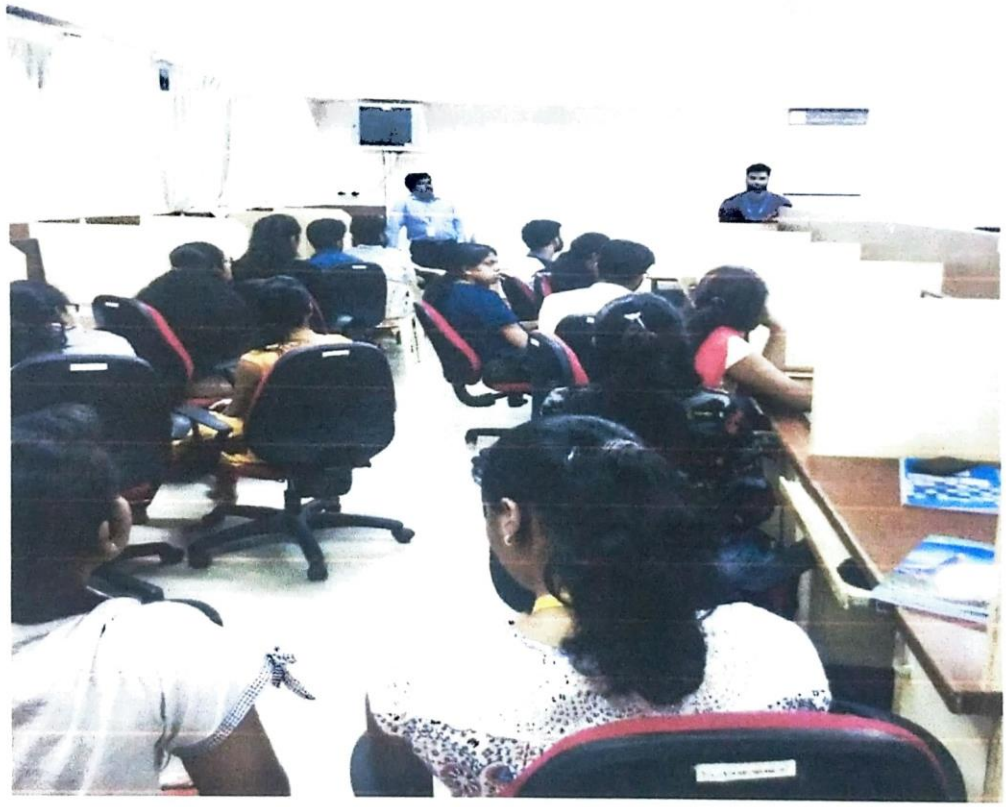
Revit Architecture is recent software in civil field and mostly used for building planning and modeling. Mr.Viswas has given lecture on Revit for 5 days and his team support to students for practicing. Ms.Ritu Parna is the leader of Cad centre training center . Cad centre offers a career focused education with dynamic learning environment and also provides course material. From last few years he provided training to students on different software at Cad centre center.

Day wise summary of the workshop

Day	Session No.	Time	Topic covered
Day 1 Monday	1	2.00pm to 5.00pm	User Interface The Ribbon Framework About Building Elements About Families About Projects
Day 2 Tuesday	2	2.00pm to 5.00pm	About Project Templates . About the Default Project Template About Revit File Types
Day 3 Wednesday	3	2.00pm to 3.00pm	Aids About Wall Properties Modifying Walls About Joins Editing and Preventing Wall Joins About Compound Walls About Modifying
	4	3.50pm to 5.00pm	Compound Walls Setting Layer Wrapping in Compound Walls About Vertically Compound Walls Edit Tools Clipboard Tools
Day 4 Thursday	6	2.00pm to 5.00pm	Creating a New Door Type About Windows Process of Adding and Modifying Windows Floors Modifying Floors
Day 5 Friday	7	2.00pm to 3.00pm	Creating a New Door Type About Windows Process of Adding and Modifying Windows Floors Modifying Floors .About Temporary Dimensions About Permanent Dimensions About Constraints Applying and Removing Constraints
	8	3.50pm to 5.00pm	Practice

Outcomes of Workshop

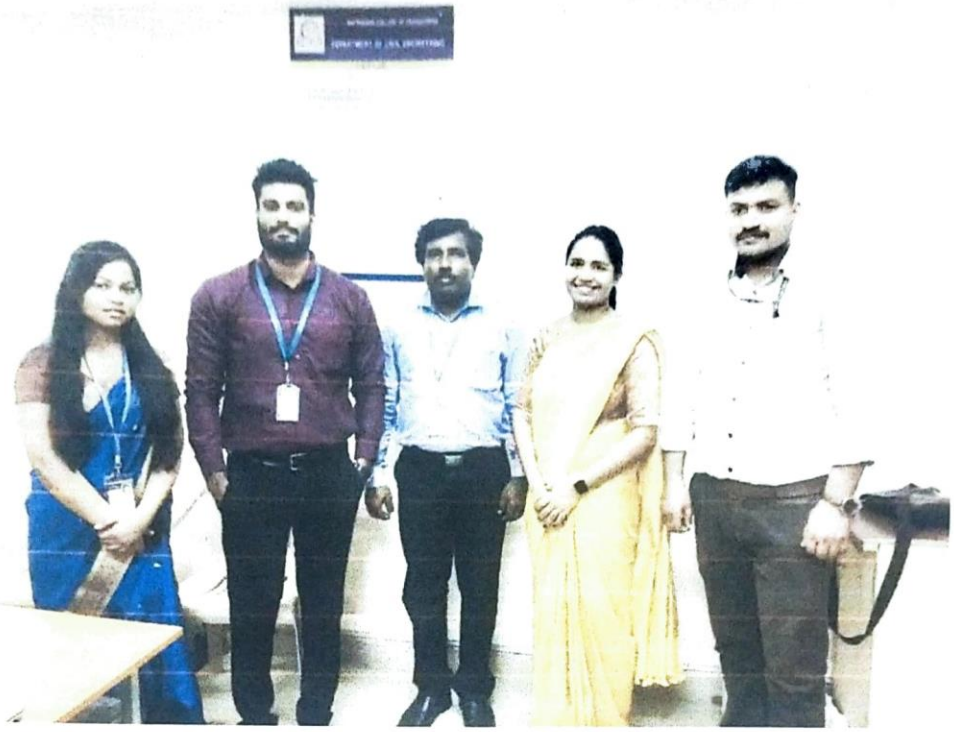
1. To be familiar with advanced Civil Engineering Software like Revit architecture andits use in our field. After the completion of the workshop students are now familiar with the use of this software to draft the plan, elevation-sections, to update floor plans, floor levels and to develop the 3D views.
2. To Produce consistent, coordinated and complete model-based building designs and Documentation: After competition of the workshop students are able to produce complete model based building design with the help of Revit Architecture software.
3. Use 3D visualisations to see a building before it's built.



Inaugural Function

Workshop first session

Trainers engaging session



Valedictory Function

All the students were motivated by the training program and encouraged to participate in co-curricular activities conducted by the Department of Civil Engineering.

03/01/2022

HOD

HOD, Dept. of Civil Engg.
S.C.E, Bangalore-560 057