KLS GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI

SKILL LABS

Schedule of Skill labs offered at KLS GIT

Sl No	Department	Start date	End date	Title of Skill lab
1	Civil Engineering	07/11/2024	13/11/2024	Sketch Up for Civil Engineering Applications

Skill lab (Detailed schedule)

Sl No	Department	Title of Skill lab	Semester & Division	Venue	Dates	Faculty name	Phone No	Email id
1	Civil Engineering	Sketch Up for Civil Engineering Applications	III (A, B & C)	Computer Lab	07/11/24 to 13/11/2024	Prof. Shashank C. Bangi & Prof. Archana N. Shagoti	9036587871 9886044742	scbangi@git.edu anshagoti@git.edu

SKILL LAB

ON

SketchUp for Civil Engineering Applications

For 3rd Semester Students

KLS GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI

Department of Civil Engineering

Overview:

The Skill Lab on SketchUp is designed to equip civil engineering students with practical knowledge of 3D modeling and visualization techniques using SketchUp, a widely used software in architecture, construction, and urban planning. This lab provides hands-on experience in creating accurate 3D models, applying textures, visualizing designs, and using advanced tools to enhance the realism of civil engineering projects.

Mode of Conduction of each Module:

Theory: 00 Hours,
Demo: 16 Hours,
Lab Sessions: 26 Hours
Total duration: 36 Hour
Certification exam: 03 Hours

Module 1: Sketchup and Interface
Overview of Sketchup, Basic tools and comamnds, creating simple 2d shapes and extruding into 3D, Understanding axes, interfaces and measurements

Module 3: Site planning &Terrain Modelling
Drawing and modelling walls, doors and Windows, using layers, applying textures and materials, 3D warehouses and basic lighting and shadow settings.

Module 2: Creating 3D models of buildings
Import cad files to sketchup, creating terrain model, modeling topography and incoprporation site elements

Module 4: Structural modeling and Visualization Creating structural elements, modelling, Civil structures, basic rendering

Terms and Conditions

Students who have paid a skill lab fee to the institution are eligible for training. The students must maintain 90% attendance for obtaining the skill lab certificate.

Students must attend training as per scheduled time.

Acceptance

In order to accept and start the training program, students are required to register with the respective department. Details to be provided by the student to the department include:

Name, USN, UID, Mobile No, Email id

Coordinators:

Name Shashank C. Bangi
Dept. of Civil Engg
Phone: 9036587871
E-mail: scbangi@git.edu

Name Archana N. Shagoti
Dept. of Civil Engg
Phone: 9886044742
E-mail: anshagoti@git.edu

Outcomes

By the end of the workshop, students will have a foundational understanding of SketchUp for creating detailed 3D models relevant to civil engineering, along with skills to apply these models for presentations, site planning, and technical visualizations

Career prospects

After completing a SketchUp course, students can explore a variety of job opportunities in civil engineering, architecture, and design fields. Some key roles include: Interior Designer, Urban Planner, Architectural Designer, Civil Engineering Draftsperson, BIM Technician, Freelance 3D Modeler/Visualizer, Landscape Architect.

KLS GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI

SKILL LABS

Schedule of Skill labs offered at KLSGIT

Sl No	Department	Start date	End date	Title of Skill lab
1	Civil Engineering	2nd Dec. 2024	6th Dec. 2024	Building Information Modelling in Autodesk REVIT

Skill lab (Detailed schedule)

Sl No	Department	Title of Skill lab	Semester & Division	Venue	Dates	Faculty name	Phone No	Email id
1	Civil Engineering	Building Information Modelling in Autodesk REVIT	5	Computer Center	02-12-2024 to 06-12-2024	Rajendra Thakai, Dr. K. P. Thejaswi, Vikhyat Katti	9986697291 7204523446 8088007011	rjthakai@git.edu kpthejaswi@git.edu vskatti@git.edu

SKILL LAB

ON

Building Information Modelling in Autodesk REVIT

For 5th/6th Semester Students

KLS GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI

Department of Civil Engineering

Overview:

Building Information Modelling (BIM) is a collaborative process that uses digital models and software tools to manage information throughout a building's lifecycle. Autodesk Revit software helps in planning, designing, building and managing a design or project based on a single building information model.

Mode of Conduction of each

Theory: 00 Hours
Demo: 00 Hours
Lab Sessions: 30 Hours
Total duration: 30 Hours
Certification exam: 04 Hours

Module 1: Introduction to modelling in Revit

- Introduction to BIM and Revit
- Starting a new project
- Creating walls and adding doors, windows and openings
- Working with editing tools

Module 2: Creating a building model in Revit

- Grids and levels
- Adding floors, roofs, ceilings
- Adding stairs, ramps and curtain walls

Module 3: Adding details for drawings and reports

- Adding site features
- Adding annotations and dimensions
- Creating project details
- Creating drawing sheets and plotting

Module 4: Visuals and work sharing

- Rendering and 3D views
- Walkthroughs
- Work sharing concepts

Terms and Conditions

Students who have paid a skill lab fee to the institution are eligible for training. The students must maintain 90% attendance for obtaining the skill lab certificate.

Students must attend training as per scheduled time.

Acceptance

In order to accept and start the training program, students are required to register with the respective department. Details to be provided by the student to the department include:

Name, USN, UID, Mobile No, Email id

Coordinators

Rajendra Thakai
Phone: 9986697291
E-mail: rjthakai@git.edu

Dr. K. P. Thejaswi
Phone: 7204523446
E-mail: kpthejaswi@git.edu

Vikhyat Katti
Phone: 8088007011
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Outcomes

1. Understand and apply concept of BIM
2. Prepare an information model for a building in Revit to obtain drawings and reports
3. Rendering and creating walkthroughs for visualization of the model

Career prospects

BIM Coordinator
Quantity Surveyor
Building Information Modeller
Construction Project Manager