KARNATAK LAW SOCIETY'S

GOGTE INSTITUTE OF TECHNOLOGY

UDYAMBAG, BELAGAVI-590008

(An Autonomous Institution under Visvesvaraya Technological University, Belagavi)

(APPROVED BY AICTE, NEW DELHI)

SKILL LABS

FOR

5th **Semester Architecture Department Students**

DEPARTMENT OF

ARCHITECTURE .

KLS GOGTE INSTITUTE OF TECHNOLOGY

AI and Architecture

FOR

Students of   5th   Semester

Overview

AI and Architecture skill lab will introduce the concepts, tools, and techniques of AI-driven generative design and architecture. It aims in gaining hands-on experience with AI tools and their application in the fields of architecture, design, and engineering.

Mode of Conduction of each Module

Theory: 6 Hours
Demo: 6 Hours
Lab sessions: 24 Hours
Total duration: 36 Hours

Module 1: Introduction to 3D modeling and rendering tool

- Tools: Advanced SketchUp, Twin motion
- Overview of user interfaces, tools, and workflows
- Creating basic models (residential spaces, urban landscapes)
- Exporting and rendering models for Visualization

Module 2: Advanced 3D Visualization Techniques

- Rendering environments, adding lighting, and photorealistic textures.
- Animations and walkthroughs using Twin motion.
- Context-based rendering (urban context, landscape elements)

Module 3: Introduction to AI Tools in Design

- Overview of AI-based design tools (e.g., MidJourney, DALL·E, ChatGPT, 3D Guru AI
- Basics of generating architectural concepts with text prompts
- Using AI for material selection, mood boards, and style transfers

Coordinators

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Outcomes

This program will equip students with the **latest tools and techniques** required in today's architectural field. They will gain the ability to balance creativity with technology, use AI for innovative design thinking, and create stunning visual outputs to communicate their ideas

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 id3**

Terms and Conditions

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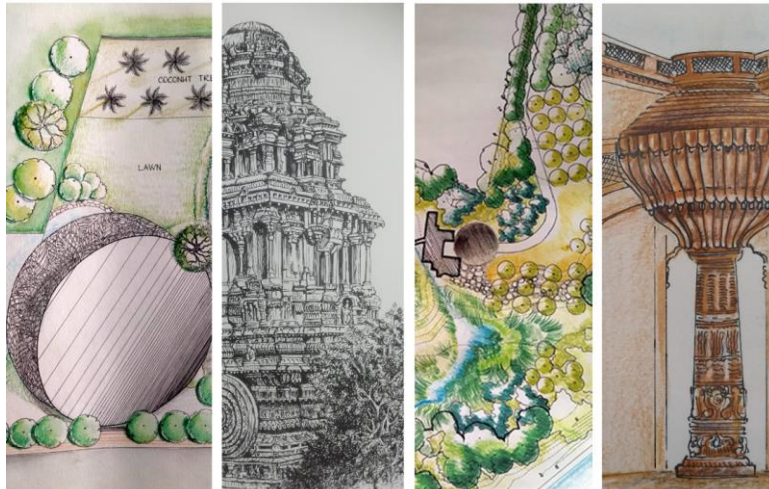
SKILL LABS

FOR

__3rd___ Semester <u>Architecture Department </u>Students

DEPARTMENT OF ARCHITECTURE .

KLS GOGTE INSTITUTE OF TECHNOLOGY

Manual Architectural Presentation

FOR

Students of   3rd   Semester

Overview

Manual Architectural Presentation skill lab will introduce the fundamentals of Architectural presentation techniques, giving insight using pencil, pen, watercolors and dry pastels rendering for Architectural project presentations.

Mode of Conduction of each Module

Theory: 6 Hours
Demo: 6 Hours
Lab sessions: 24 Hours
Total duration: 36 Hours
Certification exam: 3 Hours

Module 1: Pencil rendering

- Monochrome and Colored Value scale – tint, hue, shade, shadows.
- Techniques like Hatching, circling, Smooth Shading & Blending.
- Architectural representation of wall, paving, and roofing textures, landscape elements -trees, hedges, foliage.
- Rendering of Architectural plans, sections, elevations.

Module 2: Pen rendering

- Techniques like Stippling, linear and cross hatching, scumbling using pens, roting, microtip.
- Architectural Rendering of Historic buildings –Temples – plans, sections, elevations, isometric views.

Module 3: Water colors/Fuji rendering

- Color Wheel, Water color washes – wet on dry, wet on wet techniques.
- Rendering of site plan and landscape elements -trees, hedges, foliage.
- Rendering of Interiors -Monospace design.

Module 4: Dry Pastels rendering

- Linear and side strokes, feathering, blending, scumbling, pointillism.
- Conceptual drawings, process drawings, zoning, Site plan and landscape elements -trees, hedges, foliage.

Coordinators

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Outcomes

The lab will enhance students Manual Presentation skills which will help them for better communication of their Design ideas both in Academics and Professional work.

Acceptance

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SKILL LABS

FOR

5TH **Semester** **Architecture Department** **Students**

DEPARTMENT OF

ARCHITECTURE .

KLS GOGTE INSTITUTE OF TECHNOLOGY

PRODCUTION DESIGN- DESIGNING FOR TEMPORARY STRUCTURES

FOR

Students of ___5TH___ Semester

Overview

Production Design is an intersection of art, architecture and narratives, using space, attributes of design, shapes, patterns, to form a distinct visual language to elevate on-screen stories. The Additive skill of designing temporary structures in an artsy environment choosing a narrative, brings in a whole new paradigm of looking design through an architect's or artist's lenses. The wide range of opportunities hereby open-up to aspiring individuals whose calling is towards narrative design, glamour or visual arts. This artful shift of skill brings various opportunities in the theater, film and television industries.

Mode of Conduction of each Module

Theory: 6 Hours
Demo: 2 Hours
Lab sessions: 28 Hours
Total duration: 36   Hours
Certification exam: - Hours

Module 1: Introduction

- Career as a Production Designer
- About Set Design/ Production Design
- Future Aspects of Temporary Structures

Module 2: Theory

- Types of Sets
- People and Culture
- Process of Building Temporary structures
- 2D and 3D Software
- Material Study
- Palette
- Lighting

Module 3: Execution

- Software Exploration as per script
- Physical model as per script
- Prototyping + Modules as per script
- Live location based set execution as per script

Module 4: Output

- VR (Virtual Reality) Software Output
- Designed Physical Model
- Post production Output

Coordinators
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- Outcomes

The Additive skill of designing temporary structures in an artsy environment choosing a narrative, brings in a whole new paradigm of looking design through an architect's or artist's lenses.

Acceptance

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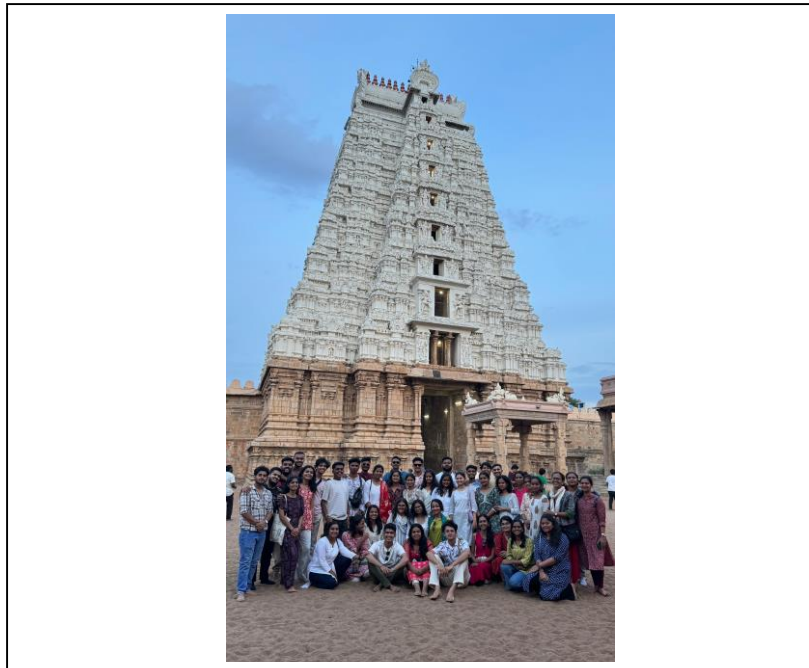
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SKILL LABS

FOR

5th Semester Architecture Students

DEPARTMENT OF

ARCHITECTURE

KLS GOGTE INSTITUTE OF TECHNOLOGY

Photographic Documentation / Measured Drawings of Buildings- STUDY TOUR

FOR

Students of **5th** Semester

Overview

This study tour aims to expose students to real-world architecture by visiting historically significant and contemporary structures. The focus will be on architectural documentation through photography or measured drawings, equipping students with skills to accurately record, analyze, and present buildings. The course will integrate on-site activities with classroom work, culminating in a portfolio of drawings and photographs

Mode of Conduction of each Module

Theory: 05 Hours
Demo: --
Lab sessions: 25 Hours
Total duration: 30 Hours
Certification exam: Portfolio Submission

Module 1: Pre-Tour Briefing

Pre-Tour Briefing & Study of Selected Buildings   Introduction to the importance of architectural documentation. Study of the buildings to be visited: their historical significance, architectural style, and key features. Preparation of tools and materials for fieldwork.

Module 2: Measured Drawings or Photographic documentation

Site Visit 1 - Historical Building   Visit a historical building (e.g., a heritage site). On-site measurements, sketches, and photo documentation. Focus on proportions, details, and ornamentation.

Site Visit 2 - Contemporary Building   Visit a modern architectural building. Document structural elements, materials used, and spatial planning through sketches and photos.

Measured Drawings or Photographic Documentation Organize measured data, create scaled drawings (plans, sections, elevations). Conduct in-class reviews of photo documentation and drawings. Begin developing the final portfolio.

Module 3: Post-Tour Analysis and Critical Review

Post-Tour Analysis and Critical Review   Discuss the architectural elements observed in both historical and contemporary buildings. Compare building styles, materials, and techniques. Peer review of the documentation.

Module 4: Portfolio Development and Presentation

Portfolio Development and Presentation   Final portfolio submission (measured drawings, photographic documentation, and written analysis). Present findings to the class and faculty.

Coordinators

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Name Soumya Haritay
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Outcomes

- Be proficient in recording architectural details through photographs and measured drawings.

  - Be able to analyze and interpret architectural designs in different contexts.

  - Develop a strong portfolio showcasing their documentation skills.

  - Understand the historical, cultural, and functional aspects of the buildings visited.

This study tour is designed to provide hands-on experience that is essential to an architect's education. Students will leave with a deeper understanding of the importance of documentation and analysis of architectural works.

Acceptance

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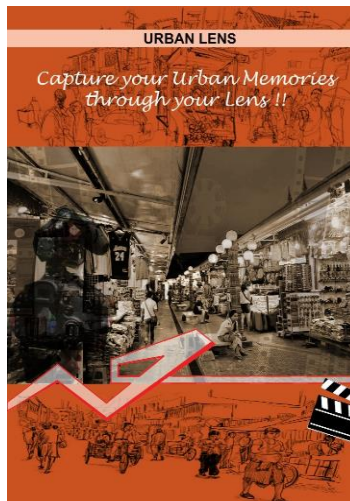
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SKILL LABS

FOR

7TH Semester Architecture Department Students

DEPARTMENT OF

ARCHITECTURE .

KLS GOGTE INSTITUTE OF TECHNOLOGY

URBAN LENS

FOR

Students of   7ᵀᴴ   Semester

Overview

The "Urban Lens explores the intricate dynamics of urban environments through photography enabling participants to visualize and document the essence of city life. This experience fosters a deeper understanding of urban spaces, cultures, and communities by capturing their unique stories and perspectives.

Mode of Conduction of each Module

Theory: 6 Hours
Demo: 6 Hours
Lab sessions: 24 Hours
Total duration: 36 Hours
Certification exam: 3 Hours

Module 1: Introduction to Tools of Thought Module 2: Breaking the shell

- Overview of various tools of representation
- Analysis of these tools and techniques
- Presentation and discussion on tools of thought
- Components of photography and filmmaking

- Exploring and expressing words through photography
- Conversations through photography and filmmaking
- Presentations of pictures

Module 3: Reading Cities through the Lens Module 4: Synthesis and Presentation

- Visualizing cities through photography and filmmaking
- Presentation and briefing of activity
- Observations and documentation
- Exploration of the area
- Documenting aspects of people, culture, and spaces

- Presentation of stories
- Findings
- Conclusion and learnings.
- Showcasing narratives

Coordinators

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Outcomes

The lab will enhance students to develop a nuanced understanding of urban environments by using photography and filmmaking as tools to represent and analyze the intricate stories of people, culture, and spaces within cities.

Acceptance

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