



**KLS GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI**

## **SKILL LABS**



### **Schedule of Skill labs offered at KLSGIT**

<b>Sl No</b>	<b>Department</b>	<b>Start date</b>	<b>End date</b>	<b>Title of Skill lab</b>
1	ISE	04-11-2024	09-11-2024	Computer Hardware and Networking

### **Skill lab (Detailed schedule)**

<b>Sl No</b>	<b>Department</b>	<b>Title of Skill lab</b>	<b>Semester &amp; Division</b>	<b>Venue</b>	<b>Dates</b>	<b>Faculty name</b>	<b>Phone No</b>	<b>Email id</b>
1	ISE	Computer Hardware and Networking	3 <sup>rd</sup> sem <b>A &amp; B</b>	Lab No. 3, 6	04-11-2024 to 09-11-2024	Dr. Harish H. Kenchannavar, Prof. P. S. Upparamani Prof.S. K Madi Prof. R. J. Kadkol,	7411475126 9242266764 7411475126 8312442359	harishhk@git.edu upparamani@git.edu sudhirmadi@git.edu rjkadkol@git.edu



# SKILL LAB

ON

## COMPUTER HARDWARE AND NETWORKING

### For 2<sup>nd</sup> year Students



## KLS GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI

### Department of Information Science & Engineering

### Overview:

Students shall apply the skills learnt in this Skill Lab. They will be learning the procedures to install, configure, and troubleshoot computers, installation of operating systems and soft wares. Learn the fundamentals of connecting computers to networks.



#### Mode of Conduction of each Module:

Theory: 02 Hours,  
 Demo: 01 Hours,  
 Lab Sessions: 03 Hours  
 Total duration: 06 Hour  
 Certification exam: 03 Hours

#### Module 1: Fundamentals of Computers

Basics of PC, Laptops & Components Introduction to PC Hardware: PC Components, Memory, Adapter cards and extension slots, Hard disk drives cables and adapters, Input devices and output devices. Computer disassembly & Assembly, Preventive maintenance and trouble shooting. Advanced computer Hardware: Advanced computer Functionality ports, Configuration for specialized computers. Laptops and other Mobile Devices: Laptop hardware and component installation and configuration, Preventive Maintenance and troubleshooting process.



#### Module 3: Networking Components

Basics of Computer Networking: Identification of network components, CAT6 cable colour code and crimping, RJ-45 connectors, Network cable testing. Networking components – hub, router, switch, wi-fi.

#### Module 2: O.S. Installation and Configuration

Basics of OS with Installations & Configurations Windows Installation & Upgrades, Disk Management (storage device types, Hard drive partitioning, Partitions and logical drives), Windows Configuration - Configure Windows with Control Panels, System Administration.

#### Module 4: Linux

Linux fundamentals, Linux system commands

#### 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

Name	Dr. Harish H. Kenchannavar, Ph. 7411475126 E-mail: harishhk@git.edu
Name	P. S. Upparamani, Ph: 9242266764 E-mail: upparamani@git.edu
Name	S. K Madi Phone: 7411475126 E-mail: sudhirmadi@git.edu
Name	R. J. Kadkol, Phone: 8312442359 Email: rjkadkol@git.edu

#### Outcomes

List the outcomes of the Skill lab offered by your department. In what way will it benefit the students



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1	ISE	30-12-2024	03-01-2024	Elevating Object Oriented Programming Skills

### **Skill lab (Detailed schedule)**

<b>Sl No</b>	<b>Department</b>	<b>Title of Skill lab</b>	<b>Semester &amp; Division</b>	<b>Venue</b>	<b>Dates</b>	<b>Faculty name</b>	<b>Phone No</b>	<b>Email id</b>
1	ISE	Elevating Object Oriented Programming Skills	5 <sup>th</sup> sem A	Lab No. 3, 6	30-12-2024 to 03-01-2024	Dr. Kiran K. Tangod Dr. Padma Dandannavar Prof. Anusha Chogund Prof. Shrivatsa D. Perur	9448545393 9886230332 9845306014 9845371193	kirankt@git.edu padmad@git.edu apcogund@git.edu sdperur@git.edu



# SKILL LAB

ON

## Elevating Object Oriented Programming Skills For 3<sup>rd</sup> Year Students



### KLS GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI Department of Information Science and Engineering

#### Overview:

This Skill Lab is designed to introduce students to the fundamentals of object oriented programming and to develop hands-on skills in problem-solving, algorithmic thinking and object oriented programming. Through practical exercises, students will gain proficiency in the syntax and structure while applying programming concepts to real-world scenarios.



#### Mode of Conduction of each Module:

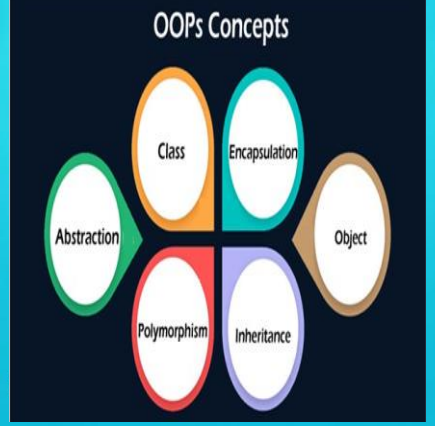
Theory: 02 Hours  
Demo: 01 Hours Lab Sessions: 03 Hours  
Total duration: 06 Hour Certification exam: 03 Hours

#### Module 1: Introduction to OOP and Basics

- Overview of Object-Oriented Programming
- Key Principles
- Basic Syntax and Structure
- Functions and Scope

#### Module 2: Classes and Objects

- Defining Classes & Creating Objects
- Class members
- Access Specifiers
- Constructor and Destructor
- Static Member Variables and Functions
- Friend Functions and Friend Classes



#### Module 3: Advanced Class Features

- Operator Overloading
- Function Overloading
- Overloading Arithmetic and Relational Operators
- Overloading Unary Operators

#### Module 4: Inheritance and Polymorphism

- Types of Inheritance
- The 'protected' Keyword
- Constructor and Destructor Calls in Inheritance
- Function Overriding and Virtual Functions
- Pure Virtual Functions and Abstract Classes

#### Terms and Conditions

- Only students who have paid a skill lab fee to the institution are eligible for the 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: Dr. Kiran K. Tangod  
Phone: 9448545393  
E-mail: [kirankt@git.edu](mailto:kirankt@git.edu)

Name: Prof. Anusha Chogund  
Phone: 9845306014  
E-mail: [apcogund@git.edu](mailto:apcogund@git.edu)

Name: Dr. Padma Dandannavar  
Phone: 9886230332  
E-mail: [padmad@git.edu](mailto:padmad@git.edu)

Name: Prof. Shrivatsa D. Perur  
Phone: 9845371193  
E-mail: [sdperur@git.edu](mailto:sdperur@git.edu)

#### Outcomes

The OOP Skill Lab equips students with essential programming skills, enhancing problem-solving, and promoting efficient software design. Students gain hands-on experience in real-world coding, mastering core OOP concepts like encapsulation and inheritance. This lab prepares them for advanced studies, careers in software development, and learning other languages by building a solid foundation in object-oriented principles.

Students will be able to take up positions like Business Intelligence Analyst, Data Analyst, Power BI Developer post the completion of course.



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1	ISE	30-12-2024	03-01-2024	Power BI Skill Lab

### **Skill lab (Detailed schedule)**

<b>Sl No</b>	<b>Department</b>	<b>Title of Skill lab</b>	<b>Semester &amp; Division</b>	<b>Venue</b>	<b>Dates</b>	<b>Faculty name</b>	<b>Phone No</b>	<b>Email id</b>
1	ISE	Power BI Skill Lab	5 <sup>th</sup> sem, A	Lab No. 3 & 6	30-12-2024 to 03-01-2024	Dr. Kiran K. Tangod Dr. Padma Dandannavar Prof. Anusha Chogund Prof. Shrivatsa D. Perur	9448545393 9886230332 9845306014 9845371193	kirant@git.edu padmad@git.edu apcogund@git.edu sdperur@git.edu



# SKILL LAB

ON

## POWER BI

### For 3<sup>rd</sup> Year Students

**KLS GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI**  
 Department of Information Science and Engineering

#### Overview:

The Power BI Skill Lab offers hands-on experience in mastering data visualisation and business analytics. Participants will explore data integration, transformation, and dashboard creation using Power BI tools. This practical lab empowers learners to derive actionable insights and make data-driven decisions efficiently through interactive reports and visuals.



#### Mode of Conduction of each Module:

Theory: 02 Hours,  
 Demo: 01 Hours,  
 Lab Sessions: 03 Hours  
 Total duration: 06 Hour  
 Certification exam: 03 Hours

#### Module 1: Introduction

- Power BI Architecture
- Power BI introduction and overview
- Introduction Power BI desktop and Power BI in Excel, connecting with data



#### Module 3: Power Pivot and Data Sources

- Using SQL Server data.
- Loading data from cubes.

#### Module 2: Power Query

- Installation Requirements and Configuration
- Different versions of Power Query
- Query Editor

#### Module 4: Building PivotTables on Power Pivot

- Building pivot tables on top of Power Pivot.
- Using Pivot Charts & working with Slicers.

#### 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

#### Outcomes

The Power BI Skill Lab equips participants with essential data analytics skills, enabling them to create interactive reports, automate data workflows, and uncover valuable insights. It enhances proficiency in visual storytelling, improves decision-making, and boosts career prospects in data-driven roles across various industries

#### Coordinators:

Name: Dr. Kiran K. Tangod  
 Phone: 9448545393  
 E-mail: [kirankt@git.edu](mailto:kirankt@git.edu)

Name: Prof. Anusha Chogund  
 Phone: 9845306014  
 E-mail: [apcogund@git.edu](mailto:apcogund@git.edu)

Name: Dr. Padma Dandannavar  
 Phone: 9886230332  
 E-mail: [padmad@git.edu](mailto:padmad@git.edu)

Name: Prof. Shrivatsa D. Perur  
 Phone: 9845371193  
 E-mail: [sdperur@git.edu](mailto:sdperur@git.edu)

career prospects

Students will be able to take up positions like Business Intelligence Analyst, Data Analyst, Power BI Developer post the completion of course.



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1	ISE	28-04-2025	02-05-2025	UI/UX DESIGN LAB

### **Skill lab (Detailed schedule)**

<b>Sl No</b>	<b>Department</b>	<b>Title of Skill lab</b>	<b>Semester &amp; Division</b>	<b>Venue</b>	<b>Dates</b>	<b>Faculty name</b>	<b>Phone No</b>	<b>Email id</b>
1	ISE	UI/UX DESIGN LAB	6th sem, A	Lab No.3, 6	28-04-2025 to 02-05-2025	Dr.K.S.Mathad, Dr.S.B.Deshpande N.V.Karekar	9844665758 9035280717 9916609481	mathadks@git.edu sbdeshpande@git.edu nvkarekar@git.edu



# SKILL LAB

ON

## UI/UX DESIGN LAB

### For 3<sup>rd</sup> Year Students

**KLS GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI**  
 Department of Information Science & Engineering

**Overview:**

This UI/UX Skill Lab equips engineering students with **practical design skills** that are highly relevant to modern engineering challenges, especially in the context of **emerging technologies** like AI, IoT, and AR/VR. By combining design expertise with their engineering backgrounds, students enhance their employability in fields that require **cross-functional collaboration** and **user-centric design solutions**.



**Mode of Conduction of each Module:**

Theory: 2 Hours,  
 Demo: 1 Hours,  
 Lab Sessions: 3 Hours  
 Total duration: 6 Hour  
 Certification exam: 2 Hours

**Module 1: Name**

Introduction to Figma's interface, key UI/UX design principles, and creating reusable components.

**Module 2: Name**

Delving deeper into vector tools, advanced typography, color styles, and building cohesive design systems.



**Module 3: Name**

Focus on building interactive prototypes, adding animations, and gathering feedback through user testing.

**Module 4: Name**

Collaborative design processes, preparing files for developers, and building scalable design systems.

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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:**

- 1) Dr.K.S.Mathad, 9844665758, [mathadks@git.edu](mailto:mathadks@git.edu)
- 2) Dr.S.B.Deshpande, 9035280717, [sbdeshpande@git.edu](mailto:sbdeshpande@git.edu)
- 3) N.V.Karekar, 9916609481, [nvkarekar@git.edu](mailto:nvkarekar@git.edu)

**Outcomes**

**ability to implement the key principles of UI/UX design**

**Career prospects**

Mention briefly about the job opportunities students have after completing the course.. Job Prospects- UI/UX Designer, Product Designer, Prototyping Specialist, Software and Mobile App Development.