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

Skill lab (Detailed schedule)

Sl No	Department	Title of Skill lab	Semester & Division	Venue	Dates	Faculty name	Phone No	Email id
1	ISE	Elevating Object Oriented Programming Skills	5th 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 3rd 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.
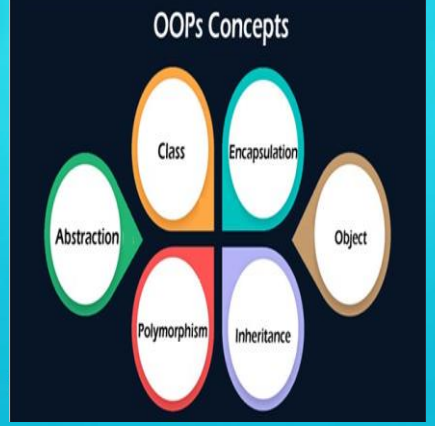
Mode of Conduction of each Module:
Theory: 02 Hours
Demo: 01 Hours Lab Sessions: 03 Hours
Total duration: 06 Hour Certification exam: 03 Hours

Module 1: Introduction to OOP and Basics
- Overview of Object-Oriented Programming
- Key Principles
- Basic Syntax and Structure
- Functions and Scope

Module 3: Advanced Class Features
- Operator Overloading
- Function Overloading
- Overloading Arithmetic and Relational Operators
- Overloading Unary Operators

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 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
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Name: Prof. Anusha Chogund
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Name: Dr. Padma Dandannavar
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Name: Prof. Shrivatsa D. Perur
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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.