**Web Technologies and Case Tools Lab**

The students completing this course are expected to

- Understand the history cost of using and building CASE tools.
- Construct and evaluate hybrid CASE tools by integrating existing tools.
- Use Tomcat Server for Servlets and JSPs.
- Write simple applications with technologies like HTML, JavaScript, AJAX, PHP, Servlets and JSPs.

**Operating Systems Lab**

**The students completing this course are expected to**

- understand and implement basic services and functionalities of the operating system using system calls
- Use modern operating system calls and synchronization libraries in software/ hardware interfaces
- Analyze and simulate CPU Scheduling Algorithms like FCFS, Round Robin, SJF, and Priority
- Implement memory management schemes, page replacement schemes and bankers algorithm for deadlock.

**Object Oriented Programming through Java Lab**

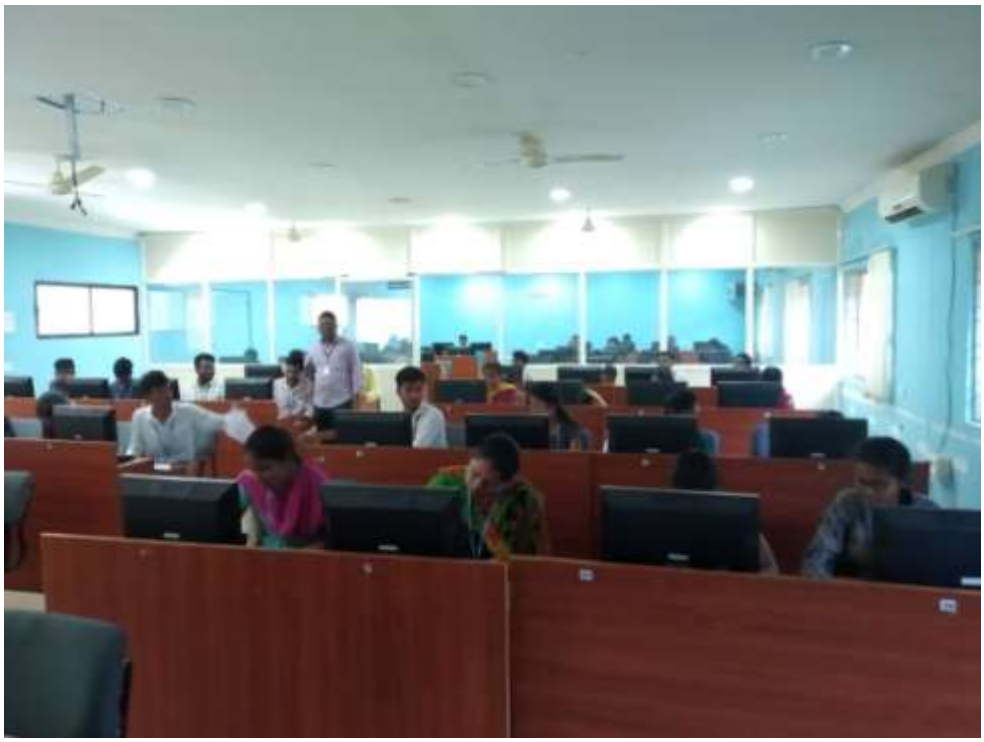
**At the end of the semester the students will be able to**

- List and use Object Oriented Programming concepts for problem solving.
- Write programs using Java collection API as well as the java standard class library.
- Solve the inter-disciplinary applications using the concept of inheritance
- Apply JDBC to provide a program level interface for communicating with database using java programming
- Apply the garbage collection for saving the resources automatically.

**IT Workshop Lab**

**At the end of this course the students will be able to**

- Apply knowledge for computer assembling and software installation
- Ability  to solve the troubling shooting problems
- Apply the tools for preparation of PPTs
- Apply the tools for preparation of documentation
- Apply the tools for preparation of budget sheets



**Data Warehousing and Data Mining Lab**

**At the end of this course the student able to**

- Learn to build a data warehouse and query it using open source tools
- Demonstrate the working of algorithms for data mining tasks such association rule mining, classification, clustering and regression
- Demonstrate the working of algorithms for data mining tasks such clustering and regression.

**Database Management System Lab**

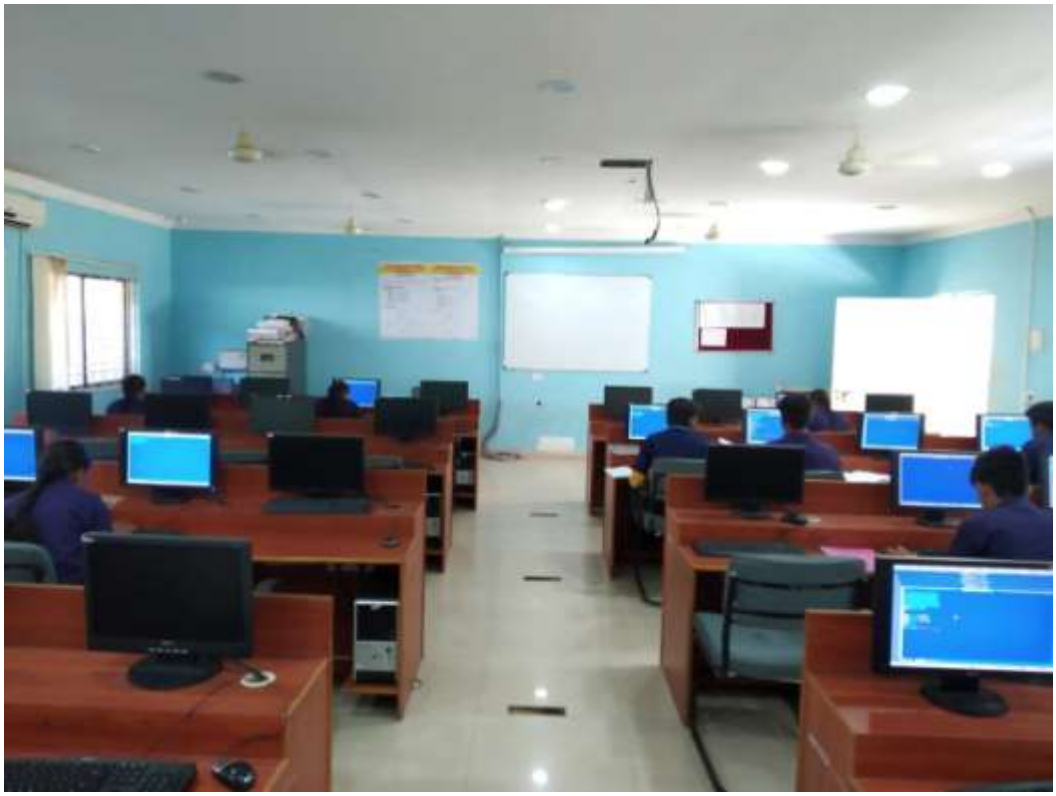
At the end of the semester the students will be able

- to design and implement a database schema for given problem
- Apply normalization techniques for development of application software to realistic problems
- Ability to formulate queries using SQL DML/DDL/DCL commands

**Linux Programming Lab**

**At the end of these course student will able to**

- Understand and implement basic system functionalities of Linux operating system
- Write shell scripts to automate
- Demonstrate Inter process Communication techniques different tasks
- Implement and manage client server technology using TCP and UDP



**C Programming Lab**

**At the end of the semester students will be able to**

- Able to understand the concepts in problem solving
- To do programming in C language
- To write diversified solution using C

**Compiler Design Lab**

**At the end of the course students will be able to**

- Understand the practical approach of how a compiler works
- Understand the working of lex and yacc compiler for debugging of programs.
- Develop program for solving parser problems.
- Enable To work in the development phase of new computer languages in industry
- Learn how to write programs that execute faster

**Data Structures through C++ Lab**

**At the end of the semester the students will be**

- Able to implement Linear and Non Linear Data structures through CPP language
- Able to Understand and apply various data structure such as stacks, queues, trees, graphs to solve various computing problems
- Able to Implement various kinds of searching and sorting techniques, and decide when to choose which technique
- Able to develop pattern matching algorithms
- Able to Identify and use a suitable data structure and algorithm to solve a real world problem

**Computer Organization Lab**

**At the end of the course the students will be**

- Understand and apply the fundamentals of assembly language programming
- Write assembly language programs for evaluating expressions using GNU assembler
- Write assembly language programs for evaluating arithmetic operations using GNU assembler.
- Write assembly language programs for Armstrong numbers GNU assembler
- Write assembly language programs for Fibonacci and factorial using procedure calls through GNU assembler

**Research and Development Lab**

- This Laboratory has internet facility wherein students do their projects along with research work

**Computer Center Lab**

- In this lab the students to will be able to web based application.

**Advanced English Communication Lab**

**At the end of the course the students will be**

- Understanding the sounds of RP and apply them to transcribe words.
- Listen, speak, read & write the sounds of English using correct stress, tone and rhythm.
- Language Skills- Grammar Exercises, Jumbled Sentences & correcting errors
- Role-Play- enacting ideas, themes(short duration & one-on-one activity)
- Introducing Self & Others- Learning the nuances of Introduction, Asking questions and Overcoming stage fright