

**KLE SOCIETY'S
RAJA LAKHAMAGOUDA SCIENCE INSTITUTE
(AUTONOMOUS), BELAGAVI**

Course Outcomes (COs) 2021-2022

Department of BCA

CBCS Syllabus

III – SEMESTER

AEC 3.1 - English

After successful completion of the course, the student will,

CO1: Be able to work on their speech and learn to overcome stage fear in public speaking and get their self confidence developed.

CO2: Learn the process of documentations for seminars, workshops and Industrial Tours.

CO3: Be able to learn writing letters for Job application as well as improve their resume writing skills.

CO4: Learn to enhance their reading skills by referring the works of well known authors.

DSC 3.2 – Java Programming

After successful completion of the course, the student will,

CO1: Learn features, architecture, interpreter as well as logical and decision making statements in Java.

CO2: Get to learn about Java classes, objects and use of Arrays and as well as vector classes.

CO3: Learn interfaces, packages and multithreaded programming in Java.

CO4: Learn how to manage and handle exceptions and Applet programming.

CO5: Get to learn graphic based programming in Java.

DSC 3.3 – Relational Database Management System

After successful completion of the course, the student will,

CO1: Be able to learn database centralized architecture, schema representation, advantages and disadvantages, classification and introduction to RDBMS tools.

CO2: Learn high level ER conceptual data modelling, entity, entity sets, attributes and relationships.

CO3: Learn Relational Data Model and Relational Algebra by making use of available SQL application programs.

CO4: Be able to learn Functional dependencies and various normalization forms.

CO5: Be able to learn PL/SQL programming language.

DSC 3.4 – Software Engineering

After successful completion of the course, the student will,

CO1: Learn software characteristics, software process, development and software requirement analysis.

CO2: Get learn how to plan a software project.

CO3: Learn object oriented design methodology of a software.

CO4: Get to learn the process of detailed design of a software

CO5: Learn the testing fundamentals as well as various testing methods followed during a software design process.

DSC 3.6 – Java Lab

After successful completion of the course, the student will,

CO1: Get to work on programs based on constructors and method overloading.

CO2: Get to work on programs based on access protections and Inheritance

CO3: Get to work on programs based on wrapper classes and interface

CO4: Get to work on programs based on exception handling.

CO5: Get to work on programs based on threads and Applet Programming.

DSC 3.7 – RDBMS Lab

After successful completion of the course, the student will,

CO1: Get to work on Insurance and Order Processing Database.

CO2: Get to work on Student and Banking Database

CO3: Get to work on Employee Database.

CO4: Get to work on pl/sql programs based on number series.

CO5: Get to work on pl/sql programs on decision making functions.

DSC 3.8 – Hardware trouble shooting and networking

After successful completion of the course, the student will,

CO1: Get to learn about course and computer.

CO2: Learn about Personal Computer and about its device functionalities.

CO3: Learn safe lab procedures and tool use.

CO4: Learn about assembling of Computers.

CO5: Learn about preventative maintenance and use Operating System.

IV – SEMESTER

AECC 4.1- English

- CO1:** Learning about Presentation Skills.
- CO2:** Understanding Preparing Advertisement.
- CO3:** Understanding Group Discussion.
- CO4:** Learning Job Interview skills.

DSC 4.2- Python

- CO1:** Knowing about basic Python.
- CO2:** Understanding Python function(Lamda).
- CO3:** Understanding Python Exception Handling.
- CO4:** Learning GUI Programming.
- CO5:** Learning SQL and PYTHON Connectivity.

DSC 4.6- Python Lab

After successful completion of the course, the student will,

- CO1: learn to install, run and execute simple programs.
- CO2: be able to solve programs based on basic functions, lists, string and tuple operations.
- CO3: be able to work on file operations and exceptions.
- CO4: learn to do programs on widgets, databases and pattern matching.

DSC 4.3-J2EE

- CO1:** Knowing about Swings, Containers.
- CO2:** Understanding Database connectivity JDBC.
- CO3:** Understanding JSP, Java Servlets.
- CO4:** Learning Networking Basics.
- CO5:** Understanding Enterprise Java Beans.

DSC 4.7– J2EE Programming

After successful completion of the course, the student will,

- CO1: Learn to create Web Applications using Java Servlet.
- CO2: Learn to manage Web Session using Servlet and JSP.
- CO3: Be able to handle errors and exceptions in Web Applications.
- CO4: Be able to build database enabled J2EE Web applications.

DSC 4.4-Operating System

CO1: Basic introduction of operating System.

CO2: Understanding Process synchronization and deadlocks.

CO3: Understanding Memory Management.

CO4: Learning File management.

CO5: Understanding Disk Management.

4.5 Elective I/II

Data science

CO1: Understanding Basic concepts of Data Science.

CO2: Understanding Statistical Analysis.

CO3: How to present analysis using Visualization and matplotlib.

CO4: Learning Numpy Library.

CO5: Understanding data manipulation with Pandas.

Data Science Lab using Python

After successful completion of the course, the student will,

CO1: Learn to solve programs on mathematical equations without libraries

CO2: Learn to solve programs on numerical charts.

CO3: Learn to solve programs on Arrays

CO4: Learn to solve programs with respect to importing data to data frames.

Cloud Computing

CO1: Understanding Introduction to Cloud Computing.

CO2: Knowing about AWS.

CO3: Understanding Storage and content delivery.

CO4: Learning Compute Services and Networking.

CO5: Learning Deployment and Management.