

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

Course Outcomes (COs) 2022-2023

DEPARTMENT OF BCA

NEP Syllabus

III – SEMESTER

Python Programming

After successful completion of the course, the student will,

CO1: Knowing about basic Python.

CO2: Understanding Python function(Lambda).

CO3: Understanding Python Exception Handling.

CO4: Learning GUI Programming.

CO5: Learning SQL and PYTHON Connectivity.

Python Programming 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.

Advanced Java

After successful completion of the course, the student will,

CO1: Knowing about Swings, Containers.

CO2: Understanding Database connectivity JDBC.

CO3: Understanding JSP, Java Servlets.

CO4: Learning Networking Basics.

CO5: Understanding Enterprise Java Beans.

Advanced Java Lab

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.

Design and Analysis of Algorithm

After successful completion of the course, the student will,

CO1: Learn analyses performance of algorithms and describe the analysis algorithm, efficiency using different notations

CO2: Learn various problems using divide conquer techniques different types of sorting and searching techniques and algorithms

CO3: Be able to solve problems using algorithm such as dynamic programming

CO4: Be able to solve problems using algorithm & design methods such as backtracking and branch

IV – SEMESTER

Android Programming

After successful completion of the course, the student will,

CO1: Learn the android architecture and android installation

CO2: Learn Android application life cycle, activities, event handlers and widgets

CO3: Be able build User Interfaces using UI design and layouts

CO4: Be learn intents and Broadcast Receivers, create intent filters. Understand Databases and Content Providers, working with SQLite Databases

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, 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.

Computer Networks

After successful completion of the course, the student will,

CO1: Understand network structure, network architecture, Topologies, OSI reference model

CO2: Learn Data Link Layer design issues, Error detection and correction

CO3: Understand Medium Access Control The channel allocation problem, multiple access protocols

CO4: The network Layer Transport Layer and Application Layer