

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

Course Outcomes (COs) 2021-2022

DEPARTMENT OF BCA

NEP Syllabus

I – SEMESTER

L1-21CA101 English

After successful completion of the course, the student will,

CO1: Able to understand and construct grammatically correct sentences and paragraph.

CO2: Able to correctly frame the sentences into paragraphs.

CO3: Learn to write effective formal letters.

CO4: Learn to put the ideas critically.

CO5: Learn to grasp ideas through intensive reading.

DSC1–21CA104 Data Structures using C

After successful completion of the course, the student will,

CO1: Learn the basic definitions, primitive and non-primitive data structures and dynamic memory allocation.

CO2: Able to perform basic file operations and learn random access functions of file system.

CO3: Learn to prepare programs on Recursion, searching and sorting techniques.

CO4: Learn basic definitions and programs on Stack and Queues.

CO5: Learn to represent Linked list and different types of Trees through programs.

DSC1-21CA121 Data Structure using C Lab

After successful completion of the course, the student will,

CO1: Able to work on programs based on basic arithmetic functions, student result and employee salary.

CO2: Learn to work on programs based on number series and pattern display.

CO3: Learn to work on programs based on Arrays and Searching techniques

CO4: Learn to work on programs based on Sorting and converting of expressions from infix to postfix.

CO5: Learn to work on programs based on queues and linked list.

DSC2-21CA105 Web Technology

After successful completion of the course, the student will,

CO1: Learn the basic definitions and elements of Web and Internet along with HTML basic structure and tags.

CO2: Be able to learn event handling methods and get introduced with cascading style sheets.

CO3: Be able to learn scripting language javascript and its looping constructs.

CO4: Learn to implement arrays and event handling functions in DOM and get to know about validation in forms.

CO5: Get acquainted with the concept of XML and its features and use of other scripting and queries within it.

DSC2-21CA122 Web Technology Lab

After successful completion of the course, the student will,

CO1: Be able to work on basic tags of HTML and CSS properties.

CO2: Learn to work on programs based on Javascript programs.

CO3: Learn to work on programs based on XML.

CO4: Learn to work on programs based on event handling using HTML tags.

CO5: Learn to work on programs based on Arrays and dynamic pages using HTML and Javascript.

DSC3-21CA106 Mathematics

After successful completion of the course, the student will,

CO1: Be able to learn Divisibility and its algorithm, HCF and LCM, Decimal fractions.

CO2: Be able to solve problems on Numbers, Age and Average.

CO3: Be able to learn Ratio proportional, Chain rule

CO4: Be able to learn Percentage, Profit n loss

OEC1-21CA107 Statistical Methods for Data Analysis

After successful completion of the course, the student will,

CO1: Be able to understand how data is organized, categorized by applying various techniques available.

CO2: Get familiar with the classification as well as density of data and frequency distribution.

CO3: Learn to represent data diagrammatically and well as in graphical forms.

CO4: Learn the various measures of central values

OEC1-21CA108 Digital Electronics

After successful completion of the course, the student will,

CO1: Learn about various number systems available, as well as their representation and conversion in standard ASCII code.

CO2: Learn about laws and theorems as well as logical gates and different maps used by Boolean expressions.

SEC1-21CA123 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.

VBC1-21PE101 Physical Education – Yoga

CO1: Students will be able to understand the basic principles and practices of Physical Education, Sports and Yoga.

CO2: Students will be able to instruct the Physical Activities, Sports and Yoga practices for healthy living.

CO3: To develop professionalism among students to conduct, organize & officiate Physical Education, Sports and Yoga events at schools and community level.

VBC1- 21PE102 HEALTH AND WELLNESS

CO1: Students will be able to understand the basic principles and practices of Physical Education, Sports and Yoga.

CO2: Students will be able to instruct the Physical Activities, Sports and Yoga practices for healthy living.

CO3: To develop professionalism among students to conduct, organize & officiate Physical Education, Sports and Yoga events at schools and community level.

II – SEMESTER

DSC1 - 21DB201 DBMS

After successful completion of the course, the student will,

CO1: Learn definition of database, architecture characteristics advantages& disadvantages and applications of database.

CO2: Learn Data modelling using the Entity–Relationship(ER) model and Relational Data Model and Relational Algebra

CO3: Come to know how use data types, specify constraints in SQL, Basic queries in SQL, Assertions and Triggers, view (Virtual Tables) in SQL.

CO4: Understand Functional dependencies and Normalization for Relational Databases and Transaction Processing Concepts

DSC1 - 21DBL201 DBMS LAB

After successful completion of the course, the student,

CO1: Will get hands on experience of table creation, specifying constraints

CO2: Will know how create view in the database.

CO3: Will get hands on experience on using different types of SQL commands.

CO4: Will know how to delete records from the database table and more complex queries.

CO5: Will understand how to retrieve records from the database and how to join database tables.

DSC2 - 21JP201 JAVA PROGRAMMING

After successful completion of the course, the student will,

CO1: Understand basic definition and concepts of Java also basic programming constructs.

CO2: Know about OOPS concepts, Arrays & its types and learn how to declaration, access arrays.

CO3: Be able to understand Interfaces, Packages and Managing Exceptions.

CO4: Understand Multithreading concept in Java and collections.

DSC2 -21JBL201 JAVA PROGRAMMING LAB

After successful completion of the course, the student will,

CO1: Will get hands on experience of different types of data types and creating objects and class,

CO2: Know how to do type casting, switch statement, types of constructors and constructor overloading,

CO3: Will get hands on experience of method overriding, Inheritance concept, abstract class and method

CO4: Know how to use user defined packages, know how to handle exceptions in java

CO5: Understand the concept of multithreading, thread synchronization, ArrayList and also LinkedList interface

DSC3-21OS201 OPERATING SYSTEM

After successful completion of the course, the student will,

CO1: Understand Operating System definition, types of operating system, tasks of operating system and also Process Management concepts.

CO2: Know about Process synchronization and deadlocks.

CO3: Be able to understand Operating System's Memory management and Virtual machine

CO4: Understand File Management System, Secondary storage structure, Disk Management & Structure, Disk Scheduling Methods

L2-21EN201 ENGLISH

After successful completion of the course, the student will,

CO1: Recognize the errors of usage and correct them.

CO2: Be able to differentiate between active and passive voice and change from one to another

CO3: Be able to understand structure and sounds of words.

CO4: Understand and appreciate English spoken by people from different regions and be able to speak & present confidently in various situations.

OEC1-21SM201 Statistical Methods for Data Analysis

After successful completion of the course, the student will,

CO1: Be able to understand how data is organized, categorized by applying various techniques available.

CO2: Get familiar with the classification as well as density of data and frequency distribution.

CO3: Learn to represent data diagrammatically and well as in graphical forms.

CO4: Learn the various measures of central values

OEC1-21DE201 Digital Electronics

After successful completion of the course, the student will,

CO1: Learn about various number systems available, as well as their representation and conversion in standard ASCII code.

CO2: Learn about laws and theorems as well as logical gates and different maps used by Boolean expressions.

VBC1-21PE101 Physical Education – Yoga

CO1: Students will be able to understand the basic principles and practices of Physical Education, Sports and Yoga.

CO2: Students will be able to instruct the Physical Activities, Sports and Yoga practices for healthy living.

CO3: To develop professionalism among students to conduct, organize & officiate Physical Education, Sports and Yoga events at schools and community level.