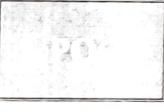
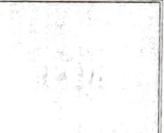


**BLDE Association's**  
**S.B. Arts and K.C.P. Science College, Vijayapur**  
**Department of BSc Computer Science 2022-23**  
**Programme Outcome (POs)**

|   |  |
|---|--|
|    | Provide students with fundamental knowledge and ability to expertise in Computer Science.  |
|    | Provide insight to problem solving to succeed in Technical Profession through precise education and to prepare students to excel in postgraduate programs.   |
|    | To inculcate in students professional, effective communication skills, team work, multidisciplinary approach and an ability to relate issues to broader social context.  |
|    | Prepare students to be aware of excellence, leadership, written ethical codes and guidelines and lifelong learning needed for successful professional career by providing them with an excellent academic environment. |
|   | Empower the students in academic, social, psychological and economic arenas by developing relevant competencies.   |
|  | Interpret and apply the implications of environment awareness initiatives incorporated in curriculum.  |
|  | Participation and contribution to community development activities through NCC, NSS etc.   |
|  | Acquire sufficient knowledge base in the Domain Specific area leading to the pursuit of advanced level of study in the chosen Domain Specific area.  |
|  | Adaptability and capacity building to the ever changing needs of the industry and employment opportunities.  |
|  | Inculcate the human values through curricular, co-curricular and extracurricular activities.   |

  
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# PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1

Ability to apply foundations of Mathematics, Principles of Physics/Statistics and Theory of Computer Science in solving the real-world problems.

PSO2

Identify, formulate, review research literature, and analyzes complex problems reaching substantiated conclusions using first principles of mathematics and Computer science.

PSO3

Design solutions for complex problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PSO4

Create, select, and apply appropriate techniques, resources, and modern IT tools including prediction and modelling to complex activities with an understanding of the limitations.

PSO5

Understand the impact of the professional solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.



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|                     |   |
|---------------------|---|
| <b>Semester</b>     | <b>I SEM</b>                                      |
| <b>Course Code</b>  | <b>21BSC1C1CS1L</b>                               |
| <b>Course Title</b> | <b>Computer Fundamentals and Programming in C</b> |

## Course Outcomes (COs)

| <b>Upon completion of this course, the student will be able to</b> |   | <b>PO</b> | <b>PSO</b> |
|--|---|-----------|------------|
| <b>CO1</b>   | Confidently operate Desktop Computers to carry out computational tasks.   | 1,2       | 1,2,4      |
| <b>CO2</b>   | Understand working of Hardware and Software and the importance of operating systems.                                | 1,2       | 2,4        |
| <b>CO3</b>   | Understand programming languages, number systems, peripheral devices, networking, multimedia and internet concepts. | 1,2,4     | 2,3,4      |
| <b>CO4</b>   | Read, understand and trace the execution of programs written in C language.   | 2,4       | 2,3,4      |
| <b>CO5</b>   | Write the C code for a given problem.   | 2,4       | 2,3        |
| <b>CO6</b>   | Perform input and output operations using programs in C.  | 2,4       | 2,3        |
| <b>CO7</b>   | Write programs that perform operations on arrays.   | 2,4       | 2,3        |


  
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|                     |   |
|---------------------|---|
| <b>Semester</b>     | <b>I SEM</b>                                      |
| <b>Course Code</b>  | <b>21BSC1C1CS1L</b>                               |
| <b>Course Title</b> | <b>Computer Fundamentals and Programming in C</b> |

## Mapping of CO, POs and PSOs on Theory

| CO  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 | PSO7 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| CO1 | 3   | 3   | -   | -   | -   | -   | -   | -   | -   | 2    | 3    | -    | 3    | -    | -    | -    | -    |
| CO2 | 3   | 3   | -   | -   | -   | -   | -   | -   | -   | -    | 3    | -    | 2    | -    | -    | -    | -    |
| CO3 | 3   | 3   | -   | 2   | -   | -   | -   | -   | -   | -    | 2    | 3    | 3    | -    | -    | -    | -    |
| CO4 | -   | 2   | -   | 3   | -   | -   | -   | -   | -   | -    | 3    | 2    | 2    | -    | -    | -    | -    |
| CO5 | -   | 3   | -   | 3   | -   | -   | -   | -   | -   | -    | 3    | 3    | -    | -    | -    | -    | -    |
| CO6 | -   | 2   | -   | 3   | -   | -   | -   | -   | -   | -    | 2    | 3    | -    | -    | -    | -    | -    |
| CO7 | -   | 3   | -   | 3   | -   | -   | -   | -   | -   | -    | 3    | 3    | -    | -    | -    | -    | -    |


  
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|              |                         |
|--------------|-------------------------|
| Semester     | II SEM                  |
| Course Code  | 21BSC2C2CS2L            |
| Course Title | Data Structures using C |

## Course Outcomes (COs)

| Upon completion of this course, the student will be able to |  | PO    | PSO     |
|---|--|-------|---------|
| <b>CO1</b>  | Describe how arrays, records, linked structures, stacks, queues, trees, and graphs are represented in memory and used by algorithms. | 1,2   | 1,2,3,4 |
| <b>CO2</b>  | Describe common applications for arrays, records, linked structures, stacks, queues, trees, and graphs.                              | 1,2   | 2,3,4   |
| <b>CO3</b>  | Write programs that use arrays, records, linked structures, stacks, queues, trees, and graphs.                                       | 1,2,4 | 2,3,4   |
| <b>CO4</b>  | Demonstrate different methods for traversing trees.  | 2,4   | 2,3,4   |
| <b>CO5</b>  | Compare alternative implementations of data structures with respect to performance.  | 2,4   | 2,3     |
| <b>CO6</b>  | Describe the concept of recursion, give examples of its use.   | 2,4   | 2,3     |
| <b>CO7</b>  | Discuss the computational efficiency of the principal algorithms for sorting and searching.  | 2,4   | 2,3     |

  
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|              |                         |
|--------------|-------------------------|
| Semester     | II SEM                  |
| Course Code  | 21BSC2C2CS2L            |
| Course Title | Data Structures using C |

## Mapping of CO, POs and PSOs on Theory

| CO  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 | PSO7 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|
| CO1 | 3   | 3   | -   | -   | -   | -   | -   | -   | -   | 3    | 2    | 3    | 3    | -    | -    | -    | -    | -    |
| CO2 | 3   | 3   | -   | -   | -   | -   | -   | -   | -   | -    | 3    | 3    | 3    | -    | -    | -    | -    | -    |
| CO3 | 3   | 3   | -   | 2   | -   | -   | -   | -   | -   | -    | 2    | 3    | 3    | -    | -    | -    | -    | -    |
| CO4 | -   | 2   | -   | 3   | -   | -   | -   | -   | -   | -    | 3    | 2    | 3    | -    | -    | -    | -    | -    |
| CO5 | -   | 3   | -   | 3   | -   | -   | -   | -   | -   | -    | 3    | 3    | -    | -    | -    | -    | -    | -    |
| CO6 | -   | 2   | -   | 3   | -   | -   | -   | -   | -   | -    | 2    | 3    | -    | -    | -    | -    | -    | -    |
| CO7 | -   | 3   | -   | 3   | -   | -   | -   | -   | -   | -    | 3    | 3    | -    | -    | -    | -    | -    | -    |


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|              |  |
|--------------|--|
| Semester     | III SEM  |
| Course Code  | 21BSC3C3CS1L   |
| Course Title | Object Oriented Programming Concepts and Programming in Java |

## Course Outcomes (COs)

| Upon completion of this course, the student will be able to |   | PO    | PSO     |
|---|---|-------|---------|
| <b>CO1</b>  | Explain the object-oriented concepts and JAVA.  | 1,2   | 1,2,3,4 |
| <b>CO2</b>  | Write JAVA programs using OOP concepts like Abstraction, Encapsulation, Inheritance and Polymorphism. | 1,2   | 2,3,4   |
| <b>CO3</b>  | Implement Classes and multi-threading using JAVA.   | 1,2,4 | 2,3,4   |
| <b>CO4</b>  | Demonstrate the basic principles of creating Java applications with GUI.                              | 2,4   | 2,3,4   |

  
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|              |  |
|--------------|--|
| Semester     | III SEM  |
| Course Code  | 21BSC3C3CS1L   |
| Course Title | Object Oriented Programming Concepts and Programming in Java |

## Mapping of CO, POs and PSOs on Theory

|     | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 | PSO7 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| CO1 | 3   | 3   | -   | -   | -   | -   | -   | -   | -   | -    | 3    | 3    | 2    | 3    | -    | -    | -    |
| CO2 | 3   | 3   | -   | -   | -   | -   | -   | -   | -   | -    | 3    | 3    | 3    | -    | -    | -    | -    |
| CO3 | 3   | 3   | -   | 2   | -   | -   | -   | -   | -   | -    | 2    | 3    | 3    | -    | -    | -    | -    |
| CO4 | -   | 3   | -   | 3   | -   | -   | -   | -   | -   | -    | 3    | 2    | 3    | -    | -    | -    | -    |
| CO5 | -   | 3   | -   | 3   | -   | -   | -   | -   | -   | -    | 3    | 3    | -    | -    | -    | -    | -    |

  
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|              |                            |
|--------------|----------------------------|
| Semester     | IV SEM                     |
| Course Code  | 21BSC4C2CS2L               |
| Course Title | Database Management System |

## Course Outcomes (COs)

| On completion of this course, the student will be able to |  | PO    | PSO     |
|---|--|-------|---------|
| <b>CO1</b>  | Explain the various data base concepts and the need for data base systems.                           | 1,2   | 1,2,3,4 |
| <b>CO2</b>  | Identify and define data base objects, enforce integrity constraints on a data base using DBMS.      | 1,2   | 2,3,4   |
| <b>CO3</b>  | Demonstrate a Data model and Schemas in RDBMS  | 1,2,4 | 2,3,4   |
| <b>CO4</b>  | Identify entities and relationships and draw ER diagram for a given real-world problem.              | 2,4   | 2,3,4   |
| <b>CO5</b>  | Convert an ER diagram to a data base schema and deduce it to the desired normal form.                | 2,4   | 2,3     |
| <b>CO6</b>  | Formulate queries in Relational Algebra, Structured Query Language (SQL) for data base manipulation. | 1,2,3 | 2,3,4   |
| <b>CO7</b>  | Explain the transaction processing and concurrency control techniques.                               | 1,2   | 1,2,3   |

  
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|              |                            |
|--------------|----------------------------|
| Semester     | IV SEM                     |
| Course Code  | 21BSC4C2CS2L               |
| Course Title | Database Management System |

## Mapping of CO, POs and PSOs on Theory

| CoSPOs and PSOs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 | PSO7 |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| CO1             | 3   | 3   | -   | -   | -   | -   | -   | -   | -   | 3    | 3    | 3    | 3    | -    | -    | -    | -    |
| CO2             | 3   | 3   | -   | -   | -   | -   | -   | -   | -   | -    | 3    | 3    | 2    | -    | -    | -    | -    |
| CO3             | 3   | 3   | -   | 3   | -   | -   | -   | -   | -   | -    | 3    | 3    | 3    | -    | -    | -    | -    |
| CO4             | -   | 2   | -   | 2   | -   | -   | -   | -   | -   | -    | 2    | 3    | 3    | -    | -    | -    | -    |
| CO5             | -   | 3   | -   | 3   | -   | -   | -   | -   | -   | -    | 3    | 3    | -    | -    | -    | -    | -    |
| CO6             | 3   | 2   | 3   | -   | -   | -   | -   | -   | -   | -    | 2    | 3    | 2    | -    | -    | -    | -    |
| CO7             | 3   | 3   | -   | -   | -   | -   | -   | -   | -   | -    | 3    | 3    | 3    | 2    | -    | -    | -    |

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|              |                                       |
|--------------|---------------------------------------|
| Semester     | V SEM _Paper_1                        |
| Course Code  | 17BScCSCT51                           |
| Course Title | Relational Database Management System |

## Course Outcomes (COs)

| On completion of this course, the student will be able to |   | PO    | PSO     |
|---|---|-------|---------|
| <b>CO1</b>  | Explain the features of database management systems and Relational database.  | 1,2   | 1,2,3   |
| <b>CO2</b>  | Design conceptual models of a database using ER modeling for real life applications and also construct queries in Relational Algebra.   | 1,2   | 1,2,3,4 |
| <b>CO3</b>  | Create and populate a RDBMS for a real life application, with constraints and keys, using SQL. Retrieve any type of information from a data base by formulating complex queries in SQL. | 1,2,4 | 2,3,4   |
| <b>CO4</b>  | Analyze the existing design of a database schema and apply concepts of normalization to design an optimal database.   | 2,4   | 2,3,4   |
| <b>CO5</b>  | Build indexing mechanisms for efficient retrieval of information from a database  | 2,4   | 2,3,4   |
| <b>CO6</b>  | Explain and apply different concurrency control, Backup and recovery techniques   | 1,2,3 | 2,3,4   |

  
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|              |                                       |
|--------------|---------------------------------------|
| Semester     | V SEM _Paper_1                        |
| Course Code  | 17BScCSCT51                           |
| Course Title | Relational Database Management System |

## Mapping of CO, POs and PSOs on Theory

| CoSPOs<br>and PSOs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 | PSO7 |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| CO1                | 3   | 3   | -   | -   | -   | -   | -   | -   | -   | -    | 3    | 2    | 3    | -    | -    | -    | -    |
| CO2                | 3   | 3   | -   | -   | -   | -   | -   | -   | -   | -    | 3    | 3    | 3    | 3    | -    | -    | -    |
| CO3                | 3   | 3   | -   | 3   | -   | -   | -   | -   | -   | -    | -    | 3    | 3    | 3    | -    | -    | -    |
| CO4                | -   | 3   | -   | 3   | -   | -   | -   | -   | -   | -    | -    | 3    | 3    | 3    | -    | -    | -    |
| CO5                | -   | 2   | -   | 3   | -   | -   | -   | -   | -   | -    | -    | 3    | 3    | 3    | -    | -    | -    |
| CO6                | 3   | 3   | -   | 3   | -   | -   | -   | -   | -   | -    | -    | 3    | 3    | 3    | -    | -    | -    |

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|              |  |
|--------------|--|
| Semester     | V SEM _Paper_2                         |
| Course Code  | 17BScCSCT53                            |
| Course Title | Object Oriented Programming using Java |

## Course Outcomes (COs)

| Upon completion of this course, the student will be able to |  | PO    | PSO   |
|---|--|-------|-------|
| <b>CO1</b>  | Describe the fundamental concepts and features of Java Programming language  | 1,2   | 1,2   |
| <b>CO2</b>  | Implement Object Oriented Programming Concepts (class, constructor, overloading, inheritance, overriding) in java  | 1,2   | 1,2,4 |
| <b>CO3</b>  | Implement concepts of Multithreading and Exception Handling in Java.   | 1,2,4 | 2,3,4 |
| <b>CO4</b>  | Create and Use Packages and Interfaces in a Java program and Develop Graphical User Interface applications and Web based applications in Java by importing applet, AWT | 2,4   | 2,3,4 |

  
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|              |  |
|--------------|--|
| Semester     | V SEM _Paper_2                         |
| Course Code  | 17BScCSCT53                            |
| Course Title | Object Oriented Programming using Java |

## Mapping of CO, POs and PSOs on Theory

|     | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 | PSO7 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| CO1 | 3   | 3   | -   | -   | -   | -   | -   | -   | -   | -    | 3    | 2    | -    | -    | -    | -    | -    |
| CO2 | 3   | 3   | -   | -   | -   | -   | -   | -   | -   | -    | 3    | 3    | -    | 3    | -    | -    | -    |
| CO3 | 3   | 3   | -   | 3   | -   | -   | -   | -   | -   | -    | 3    | 3    | 3    | 3    | -    | -    | -    |
| CO4 | -   | 3   | -   | 3   | -   | -   | -   | -   | -   | -    | 3    | 3    | 3    | 3    | -    | -    | -    |

  
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|              |                 |
|--------------|-----------------|
| Semester     | VI SEM _Paper_1 |
| Course Code  | CPSDSET6.1      |
| Course Title | Web Programming |

## Course Outcomes (COs)

| Upon completion of this course, the student will be able to |   | PO    | PSO     |
|---|---|-------|---------|
| <b>CO1</b>  | Understand the web applications and web technologies terminology. | 1,2   | 1,2     |
| <b>CO2</b>  | Develop applications using latest web technologies.               | 2,4   | 1,2,4   |
| <b>CO3</b>  | Designing interactive web pages using HTML and Style sheets.      | 2,3,4 | 2,3,4   |
| <b>CO4</b>  | Understand XML and its application in web based applications.     | 2,4   | 2,3,4,5 |

  
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|              |                 |
|--------------|-----------------|
| Semester     | VI SEM _Paper_1 |
| Course Code  | CPSDSET6.1      |
| Course Title | Web Programming |

## Mapping of CO, POs and PSOs on Theory

| CoSPOs and PSOs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 | PSO7 |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| CO1             | 3   | 3   | -   | -   | -   | -   | -   | -   | -   | 3    | 3    | -    | -    | -    | -    | -    |      |
| CO2             | -   | 3   | -   | 3   | -   | -   | -   | -   | -   | 3    | 3    | -    | 3    | -    | -    | -    |      |
| CO3             | -   | 3   | 3   | 3   | -   | -   | -   | -   | -   | -    | 3    | 3    | 3    | -    | -    | -    |      |
| CO4             | -   | 3   | -   | 3   | -   | -   | -   | -   | -   | -    | 3    | 3    | 2    | 3    | -    | -    |      |

  
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|              |                     |
|--------------|---------------------|
| Semester     | VI SEM _Paper_2     |
| Course Code  | CPSDSET6.2A         |
| Course Title | Elective-111 Python |

## Course Outcomes (COs)

| Upon completion of this course, the student will be able to |   | PO    | PSO   |
|---|---|-------|-------|
| <b>CO1</b>  | Acquire programming skills in core Python.                                | 1,2   | 1,2   |
| <b>CO2</b>  | Acquire Object-oriented programming skills in Python.                     | 1,2   | 1,2,4 |
| <b>CO3</b>  | Develop the skill of designing graphical-user interfaces (GUI) in Python. | 1,2,4 | 2,3,4 |
| <b>CO4</b>  | Develop the ability to write database application in python               | 2,4   | 2,3,4 |

  
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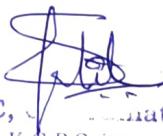
|              |                     |
|--------------|---------------------|
| Semester     | VI SEM _Paper_2     |
| Course Code  | CPSDSET6.2A         |
| Course Title | Elective-111 Python |

## Mapping of CO, POs and PSO on Theory

| CoSPOs and PSO | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 | PSO7 |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| CO1            | 3   | 3   | -   | -   | -   | -   | -   | -   | -   | 3    | 3    | -    | -    | -    | -    | -    | -    |
| CO2            | 3   | 3   | -   | -   | -   | -   | -   | -   | -   | 3    | 3    | -    | 2    | -    | -    | -    | -    |
| CO3            | 3   | 3   | -   | 2   | -   | -   | -   | -   | -   | -    | 2    | 3    | 3    | -    | -    | -    | -    |
| CO4            | -   | 3   | -   | 3   | -   | -   | -   | -   | -   | -    | 3    | 3    | 3    | -    | -    | -    | -    |
| CoS            | -   | 3   | -   | 3   | -   | -   | -   | -   | -   | -    | 3    | 3    | 2    | 2    | -    | -    | -    |



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