

**Dr. B.B. HEGDE FIRST GRADE COLLEGE, KUNDAPURA**

**DEPARTMENT OF COMPUTER SCIENCE (B.Sc) VI SEM**

**Course outcome as per National Education Policy**

Course Code	Course Name: Computer Science	Course Outcome
<u>BSCCSCN601</u>	Web Technologies	<ul style="list-style-type: none"><li>• Understand basics of web technology</li><li>• Recognize the different Client-side Technologies and tools like, HTML, CSS, JavaScript</li><li>• Learn Java Servlets and JDBC</li><li>• Web Technology for Mobiles and Understand web security</li></ul>
<u>BSCCSCN602</u>	Statistical Computing & R Programming	<ul style="list-style-type: none"><li>• Explore fundamentals of statistical analysis in R environment.</li><li>• Describe key terminologies, concepts and techniques employed in Statistical Analysis.</li><li>• Define Calculate, Implement Probability and Probability Distributions to solve a wide variety of problems.</li><li>• Conduct and interpret a variety of Hypothesis Tests to aid Decision Making.</li><li>• Understand, Analyse, and Interpret Correlation Probability and Regression to analyse the underlying relationships between different variables</li></ul>

  
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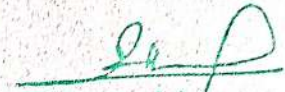
Course Code	Course Name: Computer Science	Course Outcome
BSCCSCN501	Programming in Python	<ul style="list-style-type: none"><li>• Setup python to develop simple applications</li><li>• Understand the basic concepts in Python Programming</li><li>• Learn how to write, debug and execute Python programs</li><li>• Understand and demonstrate the use of advanced data types such as tuples, dictionaries and lists, Tuples and Sets</li><li>• Design solutions for problems using object-oriented concepts in Python</li><li>• Use and apply the different Python Libraries for GUI Interface, Data Analysis and Data Visualization.</li><li>• Extend the knowledge of python programming to build successful career in software development.</li></ul>
<u>BSCCSCN502</u>	Computer Networks	<ul style="list-style-type: none"><li>• Define various data communication components in networking.</li><li>• Describe networking with reference to different types of models and topologies.</li><li>• Understand the need for Network and various layers of OSI and TCP/IP reference model.</li><li>• Explain various Data Communications media.</li><li>• Describe the physical layer functions and components CO6 Identify the different types of network topologies and Switching methods.</li><li>• Describe various Data link Layer Protocols.</li></ul>

		<ul style="list-style-type: none"><li>• Identify the different types of network devices and their functions within a network.</li><li>• Analyze and interpret various Data Link Layer and Transport Layer protocols.</li><li>• Explain different application</li></ul>
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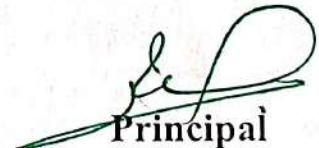
Course Code	Course Name: Computer Science	Course Outcome
DSC3	Object Oriented Programming Concepts and Programming in Java	<ul style="list-style-type: none"><li>• Understand the object-oriented concepts and JAVA Technology.</li><li>• Java technology enabled solutions for various applications.</li><li>• Understand the Java features to implement concurrency, parallelism etc.</li><li>• Demonstrate the basic principles of creating Java applications with GUI.</li></ul>
DSC4	Database Management System	<ul style="list-style-type: none"><li>• Understand the various database concepts and the need for database systems.</li><li>• Identify and define database objects, enforce integrity constraints on a database using different modeling techniques.</li><li>• Design a data model and Schemas in RDBMS.</li><li>• Identify entities and relationships and draw ER diagram for a given realworld applications.</li><li>• Realization of ER models through Relational Model using SQL.</li><li>• Formulate queries in Relational Algebra, Structured Query Language (SQL) for database manipulation.</li><li>• Understand the transaction processing and concurrency control techniques.</li></ul>
COMAISN301	Artificial Intelligence	<ul style="list-style-type: none"><li>• Appraise the theory of Artificial intelligence and list the significance of AI.</li></ul>

		<ul style="list-style-type: none"> <li>• Discuss the various components that are involved in solving an AI problem.</li> <li>• Illustrate the working of AI Algorithms in the given contrast.</li> <li>• Analyze the various knowledge representation schemes, Reasoning and Learning techniques of AI.</li> <li>• Apply the AI concepts to build an expert system to solve the real-world problems.</li> </ul>
BCACAEN302	R PROGRAMMING	<ul style="list-style-type: none"> <li>• Understand the basics of Fundamentals of R.</li> <li>• Understands the loading, retrieval techniques of data</li> <li>• Understand how data is analyzed and visualized using statistic functions.</li> </ul>



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## Department of Computer Science (B.Sc)

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Course Code	Course Name: Computer Science	Course Outcome
DSC-1	Computer Fundamentals and Programming in C	<ul style="list-style-type: none"><li>• Operate desktop computers to carry out computational tasks</li><li>• Understand working of hardware and software and the importance of operating systems</li><li>• Understand programming languages, number systems, peripheral devices, networking, multimedia and internet concepts</li><li>• Read, understand and trace the execution of programs written in C language</li><li>• Write the C code for a given problem</li><li>• Perform input and output operations using programs in C</li><li>• Write programs that perform operations on arrays</li></ul>
CSEO1/CAOE1	Office Automation	<ul style="list-style-type: none"><li>• Compare and contrast various types of operating systems</li><li>• Explain the purpose of office automation</li><li>• Describe how information is stored and retried in/from computer memory</li><li>• Know about various types of office automation software and their applications</li><li>• Create document using word processing software</li><li>• Design presentation using presentation software</li><li>• Create worksheets using spreadsheet software</li></ul>

		<ul style="list-style-type: none"> <li>• Store and retrieve data in/from database management application</li> </ul>
DSC-2	Data Structures using C	<ul style="list-style-type: none"> <li>• Describe how arrays, records, linked structures, stacks, queues, trees, and graphs are represented in memory and used by algorithms</li> <li>• Describe common applications for arrays, records, linked structures, stacks, queues, trees, and graphs</li> <li>• Write programs that use arrays, records, linked structures, stacks, queues, trees, and graphs</li> <li>• Demonstrate different methods for traversing trees</li> <li>• Compare alternative implementations of data structures with respect to performance</li> <li>• Describe the concept of recursion, give examples of its use</li> <li>• Discuss the computational efficiency of the principal algorithms for sorting and searching</li> </ul>
CSOE2/CAOE2	Web Designing	<ul style="list-style-type: none"> <li>• Understand various Internet related terminologies</li> <li>• Explain features and evolution of Internet</li> <li>• Explain the use of search engines</li> <li>• Know the use of different tags available in HTML</li> <li>• Design web pages using HTML5, CSS3, XML and XHTML</li> <li>• Implement websites using linked web pages.</li> </ul>

(For)

*V. S. Gay*  
(S/C)  
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