

**Programme Matrix: Bachelor of Computer Applications – Cloud Computing [2023 Batch]**



**Kristu Jayanti College**

**AUTONOMOUS Bengaluru**

Reaccredited 'A++' Grade by NAAC | Affiliated to Bengaluru North University

**FACULTY OF SCIENCE**

**Programme Matrix: Bachelor of Computer Applications - Cloud Computing [2023 Batch]**

**Programme Outcomes**

After successful completion of BCA Cloud Computing programme, a student will be able to:

- PO1: Integrate scientific temper; spirit of enquiry, humanism and reform
- PO2: Apply scientific knowledge and skills ethically for societal development and entrepreneurship
- PO3: Design, execute and interpret the results of experiments in Computer Applications involving programming concepts, cloud foundation, virtualization and on-demand resource provisioning techniques
- PO4: Appraise programming skills by implementing the cloud native applications, utilizing cloud based Interfaces, micro services and containers
- PO5: infer a modern scientific IT tool and techniques to solve problems in the area of cloud computing

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<b>I Semester</b>			
<b>Course Type</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Course Outcomes</b>
DSC	21BCA2T311	C Programming	<ol style="list-style-type: none"> <li>1. Understand the basic programming concepts to provide solutions for computational problems</li> <li>2. Implement programs using the concepts of operators, selection and iterative constructs</li> <li>3. Construct modular programs using arrays and strings</li> <li>4. Develop solutions for real world problems with derived data types</li> <li>5. Illustrate the usage of pointers and perform input/output operations on files.</li> </ol>
DSC	21BCA2L211	C Programming Practical	<ol style="list-style-type: none"> <li>1. Develop C programs using sequential, conditional and iterative constructs</li> <li>2. Design programs using user defined and derived data types, string operations and functions in C language</li> <li>3. Apply structures, files and pointers in C Program.</li> </ol>
DSC	23BCL2T311	Principles of Operating System and Linux Administration	<ol style="list-style-type: none"> <li>1. Understand the structure of OS and basic architectural components involved in OS design and distributed operating systems</li> <li>2. Compare and contrast various scheduling algorithms</li> <li>3. Evaluate the requirements for the process synchronization and coordination in</li> <li>4. Contemporary operating system</li> <li>5. Analyze various algorithms for memory management, I/O management and security aspects of operating system</li> <li>6. Develop shell scripts in Unix/Linux OS using kernel system calls.</li> </ol>
DSC	23BCL2L211	Principles of Operating System and Linux Administration Practical	<ol style="list-style-type: none"> <li>1. Demonstrate various file access and file allocation methods</li> <li>2. Develop the Unix/Linux file system, special tools and utilities</li> <li>3. Create system administration and Shell programming.</li> </ol>
DSC	23BCL2T312	Cloud Computing Fundamentals	<ol style="list-style-type: none"> <li>1. Understand the key concepts and models of cloud computing</li> <li>2. Demonstrate the characteristics and technologies of cloud computing</li> <li>3. Analyze the cloud security issues and application design methodologies</li> <li>4. Distinguish the architecture and infrastructure of cloud computing</li> <li>5. Evaluate various cloud services and its applications.</li> </ol>
AECC	22ENGIT312	Musings in English Literature	<ol style="list-style-type: none"> <li>1. Articulate the relevant issues of society through the imbibed knowledge of prose</li> <li>2. Identify and appreciate nuances of poetry</li> <li>3. Implement the basic concepts of grammar and its usage.</li> </ol>
AECC	21KANIT312	Saahithya Sangama I	<ul style="list-style-type: none"> <li>• ಸಾಹಿತ್ಯದಲ್ಲಿ ಅಡಗಿರುವ ವಿವಿಧ ಸಾಮಾಜಿಕ ಮೌಲ್ಯ ಮತ್ತು ಜವಾಬ್ದಾರಿಗಳನ್ನು ಅರಿಯುವರು.</li> <li>• ಭಾಷಾ ಕೌಶಲವನ್ನು ಅಭಿವೃದ್ಧಿ ಪಡಿಸಿಕೊಳ್ಳುವರು.</li> <li>• ವಿದ್ಯಾರ್ಥಿಗಳು ತಮ್ಮ ಜೀವನದ ಸೃಜನಶೀಲತೆಯ ಮಹತ್ವವನ್ನು ಚರ್ಚಿಸುವರು.</li> <li>• ಹದಿಹರೆಯ ವಯಸ್ಸಿನ ಸಮಸ್ಯೆಗಳು ಹಾಗೂ ಪರಿಹಾರಗಳನ್ನು ವಿಶ್ಲೇಷಿಸುವರು.</li> <li>• ಜೀವನದಲ್ಲಿ ಮಾನವ ಪಡೆಯಬೇಕಾದ ಯಶಸ್ಸಿನ ಹಾದಿಯನ್ನು ವಿವರಿಸುವರು.</li> </ul>

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AECC	21HIN1T312	Hindi Kahani aur Prayajanmulak Hindi	1: हिन्दी कहानी विधा का ज्ञान ग्रहण करने की क्षमता का विकास। 2: विद्यार्थियों में सामाजिक यथार्थ और मुल्यांकन करने का विकास। 3: विद्यार्थियों में कहानी विधा का वर्णन करने की क्षमता का विकास। 4: विद्यार्थियों में कहानी का विश्लेषण और भाषा कौशल में प्रवीणता।
AECC	22AEN1T311	Listening and Comprehension in English	1. Identify the barriers to listening and describe the key components that contribute to effective listening 2. Use their grammatical knowledge to refine their speech and writing 3. Analyse complex human situations and challenges that emerge from the prescribed texts



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<b>II Semester</b>			
<b>Course Type</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Course Outcomes</b>
DSC	21BCA2T321	Data Structures	<ol style="list-style-type: none"> <li>1. Understand dynamic memory management, recursive functions and data structures.</li> <li>2. Identify suitable sorting and searching algorithms for data structure applications</li> <li>3. Implement operations on linear data structures.</li> <li>4. Summarize the linked list concepts, operations and its application</li> <li>5. Construct tree data structure and perform its operations</li> </ol>
DSC	21BCA2L221	Data Structures Practical	<ol style="list-style-type: none"> <li>1. Implements solution to problems using iteration and recursion</li> <li>2. Develop programs for linear data structures and its operations</li> <li>3. Design programs for non-linear data structures and its operations</li> </ol>
DSC	23BCL2T321	Cloud Infrastructure and Services	<ol style="list-style-type: none"> <li>1. Describe the cloud technologies environment from lower-level services</li> <li>2. Demonstrate the cloud services, interface and storage services</li> <li>3. Analyze the security policies, identity services and IAM abilities</li> <li>4. Distinguish the cloud computing, networking and databases</li> <li>5. Evaluate various cloud management services.</li> </ol>
DSC	23BCL2L221	Cloud Infrastructure and Services Practical	<ol style="list-style-type: none"> <li>1. Describe virtualization through cloud</li> <li>2. Illustrate storage and memory management in cloud</li> <li>3. Test applications using cloud environment</li> <li>4. Categorize access privileges in cloud</li> </ol>
DSC	23BCL2T322	Discrete Transformation	<ol style="list-style-type: none"> <li>1. Understand and construct truth table and logical equivalent statements</li> <li>2. Summarize sets and its properties</li> <li>3. Apply the concepts of combinatorics</li> <li>4. Understand and apply the concepts of graph theory</li> </ol>
AECC	22ENG1T322	Glimpses: Readings from English Literature	<ol style="list-style-type: none"> <li>1. Identify the themes and relevant issues through the study of prose and poetry</li> <li>2. Develop the skill to identify the pertinent themes and characters in the novel</li> <li>3. Implement new approaches in speaking and writing skills.</li> </ol>
AECC	21KAN1T322	Saahithya Sangama II	<ol style="list-style-type: none"> <li>1: ಸಾಹಿತ್ಯದಲ್ಲಿ ವ್ಯಕ್ತವಾಗಿರುವ ಮಾನವೀಯ ಮೌಲ್ಯಗಳನ್ನು ಅರಿಯುವರು</li> <li>2: ಸಾಹಿತ್ಯದಲ್ಲಿ ಅಡಗಿರುವ ಸಾಮಾಜಿಕ ಮೌಲ್ಯಗಳನ್ನು ಅರಿಯುವರು.</li> <li>3: ಯುದ್ಧದಿಂದಾಗುವ ಅನಾಹುತಗಳನ್ನು ಅರಿಯುವರು.</li> <li>4: ಮಾನ್ಯವಿಲ್ಲದ ಜಾತಿ ಬೇಧಭಾವಗಳ ಬಗ್ಗೆ ಅರಿಯುವರು.</li> <li>5: ಜೀವನ ಕೌಶಲವನ್ನು ಅಭಿವೃದ್ಧಿ ಪಡಿಸಿಕೊಳ್ಳುವರು.</li> </ol>



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AECC	21HIN1T322	Hindi Kavitha aur Anuvaad Koushal	1: हिन्दी कविता का विश्लेषण एवं समझने की योग्यता का विकास। 2: विद्यार्थियों में सामाजिक यथार्थ और मूल्यांकन करने का विकास। 3: कविता में वर्णित कथा का वर्णन एवं काव्य सृजन करने का विकास। 4: अनुवाद एवं भाषा कौशल में प्राविण्यता।
AECC	22AEN1T321	Conversation Practice in English	1. Acquaint students with listening skills and grammar. 2. Enable students to analyse the prescribed texts based on relevant themes. 3. Introduce students to varied genres of writing in English.
AECC	21EVS1T321	Environmental Studies	1. Understand the concept of Environment and ecosystems 2. Gain knowledge on various components controlling the stability of ecosystem 3. Understand the Policies and laws pertaining to the welfare of life forms.



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