

**Key Indicator - 1.1 Curriculum Design and Development**

1.1.1 Curricula developed and implemented have relevance to the local, regional, national and global developmental needs, which is reflected in the Programme outcomes (POs) and Course Outcomes (COs) of the Programmes offered by the institution

Programme Outcomes (POs) and Course Outcomes (COs) – (2019-2020 Onwards)

DEPARTMENT OF INFORMATION TECHNOLOGY**B. Sc – Information Technology****COURSE OUTCOMES (COs)**

| Course Title: PROGRAMMING IN C | | |
|---------------------------------------|---|------------------------|
| Course Code: 19UIT1CC1 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Discuss the basic concepts of Information Technology | K1 |
| CO2 | Understanding the structure and basics of programming | K2 |
| CO3 | Apply the knowledge to develop simple programs | K3 |
| CO4 | Solve real time problems using C | K3 |

| Course Title: PROGRAMMING IN C LAB | | |
|---|---|------------------------|
| Course Code: 19UIT1CC1P | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Recall program execution and debugging | K1 |
| CO2 | Demonstrate the ideas of control structures | K2 |
| CO3 | Make use of functions and arrays | K3 |
| CO4 | Apply string handling functions and develop files | K3 |

| Course Title: DATA STRUCTURES AND C++ | | |
|--|---|------------------------|
| Course Code: 19UIT2CC2 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Outline the basic concepts of Oops, classes, objects and functions | K1 |
| CO2 | Build the knowledge about Constructor, Inheritance and polymorphism | K2 |
| CO3 | Illustrate Linear Data structures | K2 |
| CO4 | Implement Linked list and Tree data structure | K3 |
| CO5 | Analyze various search and sorting techniques | K4 |



| Course Title: DATA STRUCTURES USING C++ LAB | | |
|--|---|------------------------|
| COURSE CODE: 19UIT2CC2P | | |
| CO Number | CO Statement | Knowledge Level |
| CO1 | Exhibit the knowledge of program execution and Debugging of C++ | K1 |
| CO2 | Demonstrate the use of function and operator overloading | K2 |
| CO3 | Understanding the use of inheritance | K2 |
| CO4 | Build the applications with files and Combine pointers | K3 |

Signature Not Verified

Digitally Signed
Signed by: Sujatha.V
Designation: Principal
Reason: NAAC
Location: Tiruchirappalli, Tamil Nadu, India
Date: 30-Sep-2024 10:43:48



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1.1.1 Curricula developed and implemented have relevance to the local, regional, national and global developmental needs, which is reflected in the Programme outcomes (POs) and Course Outcomes (COs) of the Programmes offered by the institution

Programme Outcomes (POs) and Course Outcomes (COs) – (2020-2021 Onwards)

DEPARTMENT OF INFORMATION TECHNOLOGY**B. Sc – Information Technology****COURSE OUTCOMES (COs)**

| Course Title: PROGRAMMING IN C | | |
|---------------------------------------|---|------------------------|
| Course Code: 19UIT1CC1 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Discuss the basic concepts of Information Technology | K1 |
| CO2 | Understanding the structure and basics of programming | K2 |
| CO3 | Apply the knowledge to develop simple programs | K3 |
| CO4 | Solve real time problems using C | K3 |

| Course Title: PROGRAMMING IN C LAB | | |
|---|---|------------------------|
| Course Code: 19UIT1CC1P | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Recall program execution and debugging | K1 |
| CO2 | Demonstrate the ideas of control structures | K2 |
| CO3 | Make use of functions and arrays | K3 |
| CO4 | Apply string handling functions and develop files | K3 |

| Course Title: DATA STRUCTURES AND C++ | | |
|--|---|------------------------|
| Course Code: 19UIT2CC2 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Outline the basic concepts of Oops, classes, objects and functions | K1 |
| CO2 | Build the knowledge about Constructor, Inheritance and polymorphism | K2 |
| CO3 | Illustrate Linear Data structures | K2 |
| CO4 | Implement Linked list and Tree data structure | K3 |
| CO5 | Analyze various search and sorting techniques | K4 |

**CRITERION I****POs and Cos**

| Course Title: DATA STRUCTURES USING C++ LAB | | |
|--|---|------------------------|
| COURSE CODE: 19UIT2CC2P | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Exhibit the knowledge of program execution and Debugging of C++ | K1 |
| CO2 | Demonstrate the use of function and operator overloading | K2 |
| CO3 | Understanding the use of inheritance | K2 |
| CO4 | Build the applications with files and Combine pointers | K3 |

| COURSE TITLE: DATABASE MANAGEMENT SYSTEMS | | |
|--|---|------------------------|
| COURSE CODE: 19UIT3CC3 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Outline the terminology, features, classifications, characteristics and benefits embodied in database systems | K1 |
| CO2 | Formulate using relational algebra solutions to a broad range of query problems | K2 |
| CO3 | Demonstrate a broad range of SQL query and its application | K3 |
| CO4 | Design an information model expressed in the form of an Entity relation diagram | K3 |
| CO5 | Apply normalization in relational database design and demonstrate PL/SQL program interfaces | K3 |

| COURSE TITLE: DBMS LAB | | |
|--------------------------------|---|------------------------|
| COURSE CODE: 19UIT3CC3P | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Design and implement a database schema for a given problem | K1 |
| CO2 | Create and maintain tables using PL/SQL | K2 |
| CO3 | Populate and query a database | K3 |
| CO4 | Prepare reports | K3 |
| CO5 | Application development using PL/SQL | K3 |

| COURSE TITLE: INTERNET AND ITS USAGE | | |
|---|---|------------------------|
| COURSE CODE: 19UIT3NME1 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Discuss the terms related to Internet and its Technologies | K1 |
| CO2 | Demonstrate the usage of E-Mail and Social works | K3 |
| CO3 | Analyze the commands used to create and design web pages | K3 |
| CO4 | Apply HTML to create basic web pages | K3 |
| CO5 | Design the web content using CSS | K3 |

**CRITERION I****POs and Cos**

| COURSE TITLE: PROGRAMMING IN JAVA | | |
|--|---|------------------------|
| COURSE CODE: 19UIT4CC4 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Introducing the basics of platform independent language and its structure | K1 |
| CO2 | Illustrate the Object-Oriented Programming Concepts with interactivity | K2 |
| CO3 | Outline the error handling mechanism | K2 |
| CO4 | Experiment with simple programming exercises | K3 |
| CO5 | Apply Object Oriented concepts to develop real time applications | K3 |

| COURSE TITLE: JAVA PROGRAMMING LAB | | |
|---|---|------------------------|
| COURSE CODE: 19UIT4CC4P | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Recall basic programming logic with simple example | K1 |
| CO2 | Develop Java Application program using Object Oriented Concepts | K2 |
| CO3 | Make use of the applet concept to design interactive program | K3 |
| CO4 | Create and analyze the real time applications | K4 |

| COURSE TITLE: WEB DEVELOPMENT TOOL | | |
|---|---|------------------------|
| COURSE CODE: 19UIT4SBE1AP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Develop a simple web page using basic HTML tags | K1 |
| CO2 | Create many frames and link them in HTML | K2 |
| CO3 | Design a web page using Forms and Tables | K3 |
| CO4 | Embed audio and video in HTML | K3 |

| COURSE TITLE: ANIMATION TOOL | | |
|-------------------------------------|---|------------------------|
| COURSE CODE: 19UIT4SBE1BP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Create graphics using design elements | K1 |
| CO2 | Illustrate masking effects | K2 |
| CO3 | Demonstrate attributes of images | K3 |
| CO4 | Model key drawing for animations | K3 |



| COURSE TITLE: INFORMATION SECURITY & CYBER LAWS | | |
|--|--|------------------------|
| COURSE CODE: 19UIT3NME2 | | |
| CO Number | CO Statement | Knowledge Level |
| CO1 | Outline the basics of Information Security, its quality, value and aspects | K1 |
| CO2 | Recall the basic concepts of Threats and its counter measures | K1 |
| CO3 | Define the types of viruses, its detection and recovery | K1 |
| CO4 | Summarize the counter measures for Information security and Cryptography | K2 |
| CO5 | Identify Cyber laws for Prevention and Detection | K3 |

Signature Not Verified

Digitally Signed
Signed by: Sujatha.V
Designation: Principal
Reason: NAAC
Location: Tiruchirappalli, Tamil Nadu, India
Date: 30-Sep-2024 10:43:48



**Key Indicator - 1.1 Curriculum Design and Development**

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Programme Outcomes (POs) and Course Outcomes (COs) – (2021-2022 Onwards)

DEPARTMENT OF INFORMATION TECHNOLOGY**B. Sc – Information Technology****COURSE OUTCOMES (COs)**

| Course Title: PROGRAMMING IN C | | |
|---------------------------------------|---|------------------------|
| Course Code: 19UIT1CC1 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Discuss the basic concepts of Information Technology | K1 |
| CO2 | Understanding the structure and basics of programming | K2 |
| CO3 | Apply the knowledge to develop simple programs | K3 |
| CO4 | Solve real time problems using C | K3 |

| Course Title: PROGRAMMING IN C LAB | | |
|---|---|------------------------|
| Course Code: 19UIT1CC1P | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Recall program execution and debugging | K1 |
| CO2 | Demonstrate the ideas of control structures | K2 |
| CO3 | Make use of functions and arrays | K3 |
| CO4 | Apply string handling functions and develop files | K3 |

| Course Title: DATA STRUCTURES AND C++ | | |
|--|---|------------------------|
| Course Code: 19UIT2CC2 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Outline the basic concepts of OOPS, classes, objects and functions | K1 |
| CO2 | Build the knowledge about Constructor, Inheritance and polymorphism | K2 |
| CO3 | Illustrate Linear Data structures | K2 |
| CO4 | Implement Linked list and Tree data structure | K3 |
| CO5 | Analyze various search and sorting techniques | K4 |

**CRITERION I****POs and Cos**

| Course Title: DATA STRUCTURES USING C++ LAB | | |
|--|---|------------------------|
| COURSE CODE: 19UIT2CC2P | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Exhibit the knowledge of program execution and Debugging of C++ | K1 |
| CO2 | Demonstrate the use of function and operator overloading | K2 |
| CO3 | Understanding the use of inheritance | K2 |
| CO4 | Build the applications with files and Combine pointers | K3 |

| COURSE TITLE: DATABASE MANAGEMENT SYSTEMS | | |
|--|---|------------------------|
| COURSE CODE: 19UIT3CC3 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Outline the terminology, features, classifications, characteristics and benefits embodied in database systems | K1 |
| CO2 | Formulate using relational algebra solutions to a broad range of query problems | K2 |
| CO3 | Demonstrate a broad range of SQL query and its application | K3 |
| CO4 | Design an information model expressed in the form of an Entity relation diagram | K3 |
| CO5 | Apply normalization in relational database design and demonstrate PL/SQL program interfaces | K3 |

| COURSE TITLE: DBMS LAB | | |
|--------------------------------|---|------------------------|
| COURSE CODE: 19UIT3CC3P | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Design and implement a database schema for a given problem | K1 |
| CO2 | Create and maintain tables using PL/SQL | K2 |
| CO3 | Populate and query a database | K3 |
| CO4 | Prepare reports | K3 |
| CO5 | Application development using PL/SQL | K3 |

| COURSE TITLE: INTERNET AND ITS USAGE | | |
|---|---|------------------------|
| COURSE CODE: 19UIT3NME1 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Discuss the terms related to Internet and its Technologies | K1 |
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| CO3 | Analyze the commands used to create and design web pages | K3 |
| CO4 | Apply HTML to create basic web pages | K3 |
| CO5 | Design the web content using CSS | K3 |

**CRITERION I****POs and Cos**

| COURSE TITLE: PROGRAMMING IN JAVA | | |
|--|---|------------------------|
| COURSE CODE: 19UIT4CC4 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Introducing the basics of platform independent language and its structure | K1 |
| CO2 | Illustrate the Object-Oriented Programming Concepts with interactivity | K2 |
| CO3 | Outline the error handling mechanism | K2 |
| CO4 | Experiment with simple programming exercises | K3 |
| CO5 | Apply Object Oriented concepts to develop real time applications | K3 |

| COURSE TITLE: JAVA PROGRAMMING LAB | | |
|---|---|------------------------|
| COURSE CODE: 19UIT4CC4P | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Recall basic programming logic with simple example | K1 |
| CO2 | Develop Java Application program using Object Oriented Concepts | K2 |
| CO3 | Make use of the applet concept to design interactive program | K3 |
| CO4 | Create and analyze the real time applications | K4 |

| COURSE TITLE: WEB DEVELOPMENT TOOL | | |
|---|---|------------------------|
| COURSE CODE: 19UIT4SBE1AP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Develop a simple web page using basic HTML tags | K1 |
| CO2 | Create many frames and link them in HTML | K2 |
| CO3 | Design a web page using Forms and Tables | K3 |
| CO4 | Embed audio and video in HTML | K3 |

| COURSE TITLE: ANIMATION TOOL | | |
|-------------------------------------|---|------------------------|
| COURSE CODE: 19UIT4SBE1BP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Show various formatting operations in MSWord | K1 |
| CO2 | Create multiple documents using Mail merge | K2 |
| CO3 | Design a table and implement various operations | K2 |
| CO4 | Apply various operation and charts in MS-Excel | K3 |
| CO5 | Make use of PowerPoint features to create E content | K3 |

**CRITERION I****POs and Cos**

| COURSE TITLE: INFORMATION SECURITY & CYBER LAWS | | |
|--|---|------------------------|
| COURSE CODE: 19UIT3NME2 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Outline the basics of Information Security, its quality, value and aspects | K1 |
| CO2 | Recall the basic concepts of Threats and its counter measures | K1 |
| CO3 | Define the types of viruses, its detection and recovery | K1 |
| CO4 | Summarize the counter measures for Information security and Cryptography | K2 |
| CO5 | Identify Cyber laws for Prevention and Detection | K3 |

| COURSE TITLE: PYTHON PROGRAMMING & MACHINE LEARNING | | |
|--|---|------------------------|
| COURSE CODE: 19UIT5CC5 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Introduce the basic concepts of Python | K1 |
| CO2 | Write and Execute programs using Arrays and Functions | K2 |
| CO3 | Illustrate the concepts of Strings and Dictionaries | K2 |
| CO4 | Design coding using Regular Expressions and GUI | K3 |
| CO5 | Applying knowledge in handling Data Frames | K3 |

| COURSE TITLE: PROGRAMMING IN PYTHON LAB | | |
|--|---|------------------------|
| COURSE CODE: 19UIT5CC5P | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Develop programs using fundamental concepts | K1 |
| CO2 | Demonstrate the concepts of Arrays and Functions | K2 |
| CO3 | Make use of Regular Expressions and GUI | K3 |
| CO4 | Apply Data Frame operations in a dataset | K3 |

**CRITERION I****POs and Cos**

| COURSE TITLE: COMPUTER NETWORKS | | |
|--|--|------------------------|
| COURSE CODE: 19UIT5CC6 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Describe the structure and organization of computer network layers, responsibilities of each layer, and relationships between the layers | K1 |
| CO2 | Discuss over the types of transmission media and various switching techniques | K2 |
| CO3 | Explain the data link layer properties including error-detection and correction techniques and flow control mechanisms and wireless communication | K3 |
| CO4 | Illustrate the network layer concepts and protocols including datagram forwarding, routing algorithms and transport layer concepts that include connection oriented and connection-less models, techniques to provide reliable data delivery and algorithms for congestion control | K3 |
| CO5 | Explain the concepts of application layer protocol for various applications like HTTP, FTP and Email and cryptography | K3 |

| COURSE TITLE: DIGITAL LOGIC AND COMPUTER DESIGN | | |
|--|---|------------------------|
| COURSE CODE: 19UIT5CC7 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Recall the basic principles of digital electronics | K1 |
| CO2 | Understand different types of digital electronic circuits for particular operation | K2 |
| CO3 | Demonstrate the functions of combinational and sequential circuits | K2 |
| CO4 | Build micro-operations and can experiment with basic design | K3 |
| CO5 | Sketch the microcomputer organization | K3 |

| COURSE TITLE: SOFTWARE ENGINEERING | | |
|---|---|------------------------|
| COURSE CODE: 19UIT5MBE1A | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Outline the progression in software and software engineering practice | K1 |
| CO2 | Categorize the development phases and life cycle models of a project. | K2 |
| CO3 | Illustrate the model in software project design and quality. | K2 |
| CO4 | Discuss the fundamentals of software testing with its various types. | K3 |
| CO5 | Explain the method of performance and internationalization testing. | K3 |

**CRITERION I****POs and Cos**

| COURSE TITLE: OBJECT ORIENTED ANALYSIS AND DESIGN | | |
|--|---|------------------------|
| COURSE CODE: 19UIT5MBE1B | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Analyse, Design, Document the requirements through the use case driven approach | K1 |
| CO2 | Identify, analyse and model structural and behavioral concepts of the system | K2 |
| CO3 | Explore the conceptual model into various scenarios and Applications | K3 |
| CO4 | Apply the concepts of architectural design for deploying the code for software | K3 |
| CO5 | Demonstrate a rudimentary understanding of UML interfaces | K3 |

| COURSE TITLE: SOFTWARE PROJECT MANAGEMENT | | |
|--|---|------------------------|
| COURSE CODE: 19UIT5MBE1C | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Define the scope of software project management | K1 |
| CO2 | Describe the projects at each stage of the software development life cycle | K2 |
| CO3 | Outline the software cost estimation techniques | K2 |
| CO4 | Discuss about the activity planning and risk management principles | K3 |
| CO5 | To develop skills to manage the various phases involved in project management and people management | K3 |

| COURSE TITLE: CONTENT MANAGEMENT SYSTEM TOOL | | |
|---|---|------------------------|
| COURSE CODE: 19UIT5SBE2AP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Apply the fundamental features to create a website | K1 |
| CO2 | Develop blogs and post | K2 |
| CO3 | Access images and media files | K2 |
| CO4 | Demonstrate website customization | K3 |
| CO5 | Implement the plugin capabilities | K3 |

| COURSE TITLE: INTERACTIVE MULTIMEDIA SOFTWARE | | |
|--|---|------------------------|
| COURSE CODE: 19UIT5SBE2BP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Handling Layout with color and fonts | K1 |
| CO2 | Illustrate the operation for working on layers | K2 |
| CO3 | Create graphics using templates | K2 |
| CO4 | Demonstrate Masking technique | K3 |
| CO5 | Design an Animated video | K3 |

**CRITERION I****POs and Cos**

| COURSE TITLE: WEB DESIGNING LAB | | |
|--|---|------------------------|
| COURSE CODE: 19UIT5SBE3AP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Perform different operations on text and images | K1 |
| CO2 | Create forms with different types of controls | K2 |
| CO3 | Apply various Graphics effects | K3 |
| CO4 | Create links between multiple frames | K3 |
| CO5 | Design and finalize the web page using software | K3 |

| COURSE TITLE: GRAPHICS LAB | | |
|-----------------------------------|---|------------------------|
| COURSE CODE: 19UIT5SBE3BP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Handle basics tools and include drawing in design of a web page | K1 |
| CO2 | Perform different operations on text | K2 |
| CO3 | Perform comprehensive processing of word and publishing integration | K3 |
| CO4 | Enable to create and modify objects for graphics design purposes. | K3 |
| CO5 | Create full-fledged document with various page backgrounds and layouts | K3 |

| COURSE TITLE: OPERATING SYSTEM | | |
|---------------------------------------|--|------------------------|
| COURSE CODE: 19UIT6CC8 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Discuss the role of operating system | K1 |
| CO2 | Compare various algorithms and comment about the performance of various algorithms used for process management and CPU scheduling. | K3 |
| CO3 | Apply various concepts related to deadlock to solve problems related with resource allocation. | K3 |
| CO4 | Analyze the role of process synchronization towards increasing throughput of the system. | K3 |
| CO5 | Utilize the Unix commands pertaining with process, File and I/O Management. | K3 |

**CRITERION I****POs and Cos**

| COURSE TITLE: MOBILE APPLICATION DEVELOPMENT | | |
|---|---|------------------------|
| COURSE CODE: 19UIT6CC9 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Choose the development framework and the need for mobile applications | K1 |
| CO2 | Demonstrate the activity and intent usage | K2 |
| CO3 | Design applications with intents and broadcast receivers. | K3 |
| CO4 | Compile an application with database connectivity | K4 |
| CO5 | Develop real time applications to improvise user experience | K5 |

| COURSE TITLE: PHP AND MYSQL WEB DEVELOPMENT | | |
|--|---|------------------------|
| COURSE CODE: 19UIT6MBE2A | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Introduce the basic concepts of HTML5 | K1 |
| CO2 | Introducing JavaScript and developing programs in HTML with CSS | K1 |
| CO3 | Write and execute programs with JavaScript Event Handlers | K2 |
| CO4 | Illustrating the concepts of PHP for designing a webpage | K3 |
| CO5 | Applying knowledge in handling databases with PHP and introduction to Laravel Framework | K4 |

| COURSE TITLE: C# PROGRAMMING | | |
|-------------------------------------|---|------------------------|
| COURSE CODE: 19UIT6MBE2B | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Knowledge of the structure and model of the programming language C # | K1 |
| CO2 | Understand use of C# basics, Objects and Types, Inheritance | K2 |
| CO3 | Develop, implement and creating Applications with C# | K3 |
| CO4 | Compile an application with database connectivity | K3 |
| CO5 | Design and execute Web-based real time applications to improvise user experience | K3 |

**CRITERION I****POs and Cos**

| COURSE TITLE: ARTIFICIAL INTELLIGENCE | | |
|--|---|------------------------|
| COURSE CODE: 19UIT6MBE2C | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Create an appropriate state space searching techniques to maximize the performance | K1 |
| CO2 | Compute first-order propositional and predicate logic to represent knowledge | K2 |
| CO3 | Analyze the problem solving methods involved in uncertain information using probabilistic techniques. | K3 |
| CO4 | Apply planning algorithms to find optimal solutions | K3 |
| CO5 | Explain the steps involved in Natural language processing | K3 |

| COURSE TITLE: PHP AND MYSQL WEB DEVELOPMENT LAB | | |
|--|---|------------------------|
| COURSE CODE: 19UIT6MBE3AP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Develop webpages using HTML5 and CSS | K1 |
| CO2 | Create simple programs and apply Event Handlers in JavaScript using HTML | K2 |
| CO3 | Implement programs using MYSQL with PHP | K3 |

| COURSE TITLE: .NET WITH C# | | |
|-----------------------------------|---|------------------------|
| COURSE CODE: 19UIT6MBE3BP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Exhibit the knowledge of program execution and Debugging Of C# | K1 |
| CO2 | Develop programs using Object-Oriented concepts of C# | K2 |
| CO3 | Design Window-based applications with database connectivity | K3 |
| CO4 | Compile an application to demonstrate web services | K3 |
| CO5 | Apply the complete knowledge of C# to develop Web-based real time applications using webserver controls | K3 |

| COURSE TITLE: MOBILE APPLICATION USING ANDROID | | |
|---|---|------------------------|
| COURSE CODE: 19UIT6MBE3CP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Design the layout with various controls | K1 |
| CO2 | Exploring the User Interface | K2 |
| CO3 | Implementing interactivity through application | K3 |
| CO4 | Compile an application to access database | K3 |
| CO5 | Experiencing with background services | K3 |

Signature Not Verified

Digitally Signed
Signed by: Sujatha.V
Designation: Principal
Reason: NAAC
Location: Tiruchirappalli, Tamil Nadu, India
Date: 30-Sep-2024 10:43:48



**Key Indicator - 1.1 Curriculum Design and Development**

1.1.1 Curricula developed and implemented have relevance to the local, regional, national and global developmental needs, which is reflected in the Programme outcomes (POs) and Course Outcomes (COs) of the Programmes offered by the institution

Programme Outcomes (POs) and Course Outcomes (COs) – (2022-2023 Onwards)

DEPARTMENT OF INFORMATION TECHNOLOGY**B. Sc – Information Technology****PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)**

| PEOs | Statements |
|-------------|---|
| PEO1 | LEARNING ENVIRONMENT To facilitate value-based holistic and comprehensive learning by integrating innovative learning practices to match the highest quality standards and train the students to be effective leaders in their chosen fields. |
| PEO2 | ACADEMIC EXCELLENCE To provide a conducive environment to unleash their hidden talents and to nurture the spirit of critical thinking and encourage them to achieve their goal. |
| PEO3 | EMPLOYABILITY To equip students with the required skills in order to adapt to the changing global scenario and gain access to versatile career opportunities in multidisciplinary domains. |
| PEO4 | PROFESSIONAL ETHICS AND SOCIAL RESPONSIBILITY To develop a sense of social responsibility by formulating ethics and equity to transform students into committed professionals with a strong attitude towards the development of the nation. |
| PEO5 | GREEN SUSTAINABILITY To understand the impact of professional solutions in societal and environmental contexts and demonstrate the knowledge for an overall sustainable development. |

PROGRAMME OUTCOMES (POs)

Annamalai Nagar, Tiruchirappalli - 620 018, Tamil Nadu, South India.

Website : cauverycollege.ac.in Phone : 0431 - 2763939, 2751232 Fax : 0431 - 2751234

Email : principal@cauverycollege.ac.in , cauverycollege_try@rediffmail.com

**CRITERION I****POs and Cos**

| POs | Programme Outcome On completion of B. Sc Information Technology Programme, the students will be able to, |
|------------|---|
| PO1 | Academic Skills & Social Responsibility Apply Computing, Mathematical and Scientific knowledge in various disciplines by understanding the concerns of the society |
| PO2 | Critical Thinking and Innovative Progress Design the software applications with varying intricacies using programming languages for innovative learning in technology world to meet the changing demands. |
| PO3 | Personality Development Perceive Leadership skills to accomplish a common goal with effective communication and understanding of professional, ethical, and social responsibilities. |
| PO4 | Lifelong Learning Identify resources for Professional development and apply the skills and tools necessary for computing practice to gain real life experiences. |
| PO5 | Creativity and Holistic Approach Create a Scientific temperament and novelties of ideas to support research and development in Computer Science to uphold scientific integrity and objectivity. |

PROGRAMME SPECIFIC OUTCOMES (PSOs)

| PSOs | Programme Specific Outcomes Students of B. Sc Information Technology will be able to | POs Addressed |
|-------------|--|----------------------|
| PSO1 | To apply the knowledge of Science and Computing in Information Technology | PO1 |
| PSO2 | Analyze the local and global impact of computing on individuals, organizations, society and implant lifelong learning for professional development | PO4 |
| PSO3 | Improve the capability to apply the knowledge in interrelated domains and solve real world problems with modern technological tools | PO2 |
| PSO4 | To strengthen the academic and research quality, effective communication, good ethics and responsibilities during professional practice | PO5 |
| PSO5 | Excel in job-oriented skills which are required to meet the current demand in the field of IT industry and to become an entrepreneur with confidence | PO3 |

COURSE OUTCOMES (COs)**Course Title: PROGRAMMING IN C**

Annamalai Nagar, Tiruchirappalli - 620 018, Tamil Nadu, South India.

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**CRITERION I****POs and Cos**

| Course Code: 22UIT1CC1 | | |
|-------------------------------|---|------------------------|
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Define the basic concepts of C Programming | K1 |
| CO2 | Illustrate the components of C programming | K2 |
| CO3 | Build algorithms and data structures swiftly and faster computation using programs | K3 |
| CO4 | Apply the knowledge of programming concepts to develop programs | K4 |
| CO5 | Solve real time problems using C | K5 |

| Course Title: PROGRAMMING IN C (P) Course Code: 22UIT1CC1P | | |
|---|---|------------------------|
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Recall program execution and Debugging | K1 |
| CO2 | Demonstrate the ideas of control structures | K2 |
| CO3 | Make use of functions, arrays, apply string handling functions and develop files | K3 |
| CO4 | Develops the ability to analyze a problem and implement an algorithm to solve it. | K4 |
| CO5 | Acquire logical thinking, Identify the correct and efficient ways of solving problems | K5 |

| Course Title: DATA STRUCTURES & ALGORITHMS Course Code: 22UIT2CC2 | | |
|--|--|------------------------|
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Understand the abstract data types and basics of Algorithms | K1 |
| CO2 | Demonstrate the performance of basic linear and nonlinear data structures | K2 |
| CO3 | Implement the basic data structures and Algorithm design techniques | K3 |
| CO4 | Analyze the efficiency and proofs of correctness | K4 |
| CO5 | Assess, evaluate and choose appropriate data structure and algorithmic technique to solve real-world problems. | K5 |

| |
|--|
| COURSE TITLE: DATA STRUCTURES USING C (P) COURSE CODE: 22UIT2CC2P |
|--|

**CRITERION I****POs and Cos**

| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
|------------------|---|------------------------|
| CO1 | Recall program execution and Debugging | K1 |
| CO2 | Demonstrate the ideas of Data structures | K2 |
| CO3 | Make use of Operations of Linear and Non- linear data structures | K3 |
| CO4 | Develops the ability to analyze a problem and implement an algorithm to solve it. | K4 |
| CO5 | Acquire logical thinking, Identify the correct and efficient ways of solving problems | K5 |

| COURSE TITLE: DIGITAL FUNDAMENTALS | | |
|---|---|------------------------|
| COURSE CODE: 22UIT2CC3 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Understand the basics of digital logic | K1 |
| CO2 | Apply the conversion of number system | K3 |
| CO3 | Apply the Boolean algebra to generate digital circuits | K3 |
| CO4 | Design combinational circuits using gates | K5 |
| CO5 | Construct sequential circuits using registers | K4 |

| COURSE TITLE: DATABASE MANAGEMENT SYSTEMS | | |
|--|---|------------------------|
| COURSE CODE: 19UIT3CC3 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Outline the terminology, features, classifications, characteristics and benefits embodied in database systems | K1 |
| CO2 | Formulate using relational algebra solutions to a broad range of query problems | K2 |
| CO3 | Demonstrate a broad range of SQL query and its application | K3 |
| CO4 | Design an information model expressed in the form of an Entity relation diagram | K3 |
| CO5 | Apply normalization in relational database design and demonstrate PL/SQL program interfaces | K3 |

| COURSE TITLE: DBMS LAB |
|-------------------------------|
|-------------------------------|

**CRITERION I****POs and Cos**

| COURSE CODE: 19UIT3CC3P | | |
|--------------------------------|---|------------------------|
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Design and implement a database schema for a given problem | K1 |
| CO2 | Create and maintain tables using PL/SQL | K2 |
| CO3 | Populate and query a database | K3 |
| CO4 | Prepare reports | K3 |
| CO5 | Application development using PL/SQL | K3 |

| COURSE TITLE: INTERNET AND ITS USAGE COURSE CODE: 19UIT3NME1 | | |
|---|---|------------------------|
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Discuss the terms related to Internet and its Technologies | K1 |
| CO2 | Demonstrate the usage of E-Mail and Social works | K3 |
| CO3 | Analyze the commands used to create and design web pages | K3 |
| CO4 | Apply HTML to create basic web pages | K3 |
| CO5 | Design the web content using CSS | K3 |

| COURSE TITLE: PROGRAMMING IN JAVA COURSE CODE: 19UIT4CC4 | | |
|---|---|------------------------|
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Introducing the basics of platform independent language and its structure | K1 |
| CO2 | Illustrate the Object Oriented Programming Concepts with interactivity | K2 |
| CO3 | Outline the error handling mechanism | K2 |
| CO4 | Experiment with simple programming exercises | K3 |
| CO5 | Apply Object Oriented concepts to develop real time applications | K3 |

| COURSE TITLE: JAVA PROGRAMMING LAB COURSE CODE: 19UIT4CC4P | | |
|---|---|------------------------|
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Recall basic programming logic with simple example | K1 |
| CO2 | Develop Java Application program using Object Oriented Concepts | K2 |
| CO3 | Make use of the applet concept to design interactive program | K3 |
| CO4 | Create and analyze the real time applications | K4 |

| COURSE TITLE: WEB DEVELOPMENT TOOL |
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**CRITERION I****POs and Cos**

| COURSE CODE: 19UIT4SBE1AP | | |
|----------------------------------|---|------------------------|
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Develop a simple web page using basic HTML tags | K1 |
| CO2 | Create many frames and link them in HTML | K2 |
| CO3 | Design a web page using Forms and Tables | K3 |
| CO4 | Embed audio and video in HTML | K3 |

| COURSE TITLE: ANIMATION TOOL COURSE CODE: 19UIT4SBE1BP | | |
|---|---|------------------------|
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Show various formatting operations in MSWord | K1 |
| CO2 | Create multiple documents using Mail merge | K2 |
| CO3 | Design a table and implement various operations | K2 |
| CO4 | Apply various operation and charts in MS-Excel | K3 |
| CO5 | Make use of PowerPoint features to create E content | K3 |

| COURSE TITLE: INFORMATION SECURITY & CYBER LAWS COURSE CODE: 19UIT3NME2 | | |
|--|---|------------------------|
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Outline the basics of Information Security, its quality, value and aspects | K1 |
| CO2 | Recall the basic concepts of Threats and its counter measures | K1 |
| CO3 | Define the types of viruses, its detection and recovery | K1 |
| CO4 | Summarize the counter measures for Information security and Cryptography | K2 |
| CO5 | Identify Cyber laws for Prevention and Detection | K3 |

| COURSE TITLE: PYTHON PROGRAMMING & MACHINE LEARNING COURSE CODE: 19UIT5CC5 | | |
|---|---|------------------------|
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Introduce the basic concepts of Python | K1 |
| CO2 | Write and Execute programs using Arrays and Functions | K2 |
| CO3 | Illustrate the concepts of Strings and Dictionaries | K2 |
| CO4 | Design coding using Regular Expressions and GUI | K3 |
| CO5 | Applying knowledge in handling Data Frames | K3 |

| COURSE TITLE: PROGRAMMING IN PYTHON LAB |
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**CRITERION I****POs and Cos**

| COURSE CODE: 19UIT5CC5P | | |
|--------------------------------|---|------------------------|
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Develop programs using fundamental concepts | K1 |
| CO2 | Demonstrate the concepts of Arrays and Functions | K2 |
| CO3 | Make use of Regular Expressions and GUI | K3 |
| CO4 | Apply DataFrame operations in a dataset | K3 |

| COURSE TITLE: COMPUTER NETWORKS COURSE CODE: 19UIT5CC6 | | |
|---|--|------------------------|
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Describe the structure and organization of computer network layers, responsibilities of each layer, and relationships between the layers | K1 |
| CO2 | Discuss over the types of transmission media and various switching techniques | K2 |
| CO3 | Explain the data link layer properties including error-detection and correction techniques and flow control mechanisms and wireless communication | K3 |
| CO4 | Illustrate the network layer concepts and protocols including datagram forwarding, routing algorithms and transport layer concepts that include connection oriented and connection-less models, techniques to provide reliable data delivery and algorithms for congestion control | K3 |
| CO5 | Explain the concepts of application layer protocol for various applications like HTTP, FTP and Email and cryptography | K3 |

| COURSE TITLE: DIGITAL LOGIC AND COMPUTER DESIGN COURSE CODE: 19UIT5CC7 | | |
|---|---|------------------------|
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Recall the basic principles of digital electronics | K1 |
| CO2 | Understand different types of digital electronic circuits for particular operation | K2 |
| CO3 | Demonstrate the functions of combinational and sequential circuits | K2 |
| CO4 | Build micro-operations and can experiment with basic design | K3 |
| CO5 | Sketch the microcomputer organization | K3 |

| COURSE TITLE: SOFTWARE ENGINEERING |
|---|
|---|

**CRITERION I****POs and Cos**

| COURSE CODE: 20UIT5MBE1A | | |
|---------------------------------|---|------------------------|
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Outline the progression in software and software engineering practice | K1 |
| CO2 | Categorize the development phases and life cycle models of a project. | K2 |
| CO3 | Illustrate the model in software project design and quality. | K2 |
| CO4 | Discuss the fundamentals of software testing with its various types. | K3 |
| CO5 | Explain the method of performance and internationalization testing. | K3 |

| COURSE TITLE: OBJECT ORIENTED ANALYSIS AND DESIGN | | |
|--|---|------------------------|
| COURSE CODE: 19UIT5MBE1B | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Analyse, Design, Document the requirements through the use case driven approach | K1 |
| CO2 | Identify, analyse and model structural and behavioral concepts of the system | K2 |
| CO3 | Explore the conceptual model into various scenarios and Applications | K3 |
| CO4 | Apply the concepts of architectural design for deploying the code for software | K3 |
| CO5 | Demonstrate a rudimentary understanding of UML interfaces | K3 |

| COURSE TITLE: SOFTWARE PROJECT MANAGEMENT | | |
|--|---|------------------------|
| COURSE CODE: 19UIT5MBE1C | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Define the scope of software project management | K1 |
| CO2 | Describe the projects at each stage of the software development life cycle | K2 |
| CO3 | Outline the software cost estimation techniques | K2 |
| CO4 | Discuss about the activity planning and risk management principles | K3 |
| CO5 | To develop skills to manage the various phases involved in project management and people management | K3 |

| COURSE TITLE: CONTENT MANAGEMENT SYSTEM TOOL | | |
|---|---|------------------------|
| COURSE CODE: 19UIT5SBE2AP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Apply the fundamental features to create a website | K1 |
| CO2 | Develop blogs and post | K2 |
| CO3 | Access images and media files | K2 |
| CO4 | Demonstrate website customization | K3 |
| CO5 | Implement the plugin capabilities | K3 |

**CRITERION I****POs and Cos**

| COURSE TITLE: INTERACTIVE MULTIMEDIA SOFTWARE | | |
|--|---|------------------------|
| COURSE CODE: 19UIT5SBE2BP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Handling Layout with color and fonts | K1 |
| CO2 | Illustrate the operation for working on layers | K2 |
| CO3 | Create graphics using templates | K2 |
| CO4 | Demonstrate Masking technique | K3 |
| CO5 | Design an Animated video | K3 |

| COURSE TITLE: WEB DESIGNING LAB | | |
|--|---|------------------------|
| COURSE CODE: 19UIT5SBE3AP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Perform different operations on text and images | K1 |
| CO2 | Create forms with different types of controls | K2 |
| CO3 | Apply various Graphics effects | K3 |
| CO4 | Create links between multiple frames | K3 |
| CO5 | Design and finalize the web page using software | K3 |

| COURSE TITLE: GRAPHICS LAB | | |
|-----------------------------------|---|------------------------|
| COURSE CODE: 19UIT5SBE3BP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Handle basics tools and include drawing in design of a web page | K1 |
| CO2 | Perform different operations on text | K2 |
| CO3 | Perform comprehensive processing of word and publishing integration | K3 |
| CO4 | Enable to create and modify objects for graphics design purposes. | K3 |
| CO5 | Create full-fledged document with various page backgrounds and layouts | K3 |

| COURSE TITLE: OPERATING SYSTEM | | |
|---------------------------------------|--|--|
| COURSE CODE: 19UIT6CC8 | | |

**CRITERION I****POs and Cos**

| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
|------------------|--|------------------------|
| CO1 | Discuss the role of operating system | K1 |
| CO2 | Compare various algorithms and comment about the performance of various algorithms used for process management and CPU scheduling. | K3 |
| CO3 | Apply various concepts related to deadlock to solve problems related with resource allocation. | K3 |
| CO4 | Analyze the role of process synchronization towards increasing throughput of the system. | K3 |
| CO5 | Utilize the Unix commands pertaining with process, File and I/O Management. | K3 |

| COURSE TITLE: MOBILE APPLICATION DEVELOPMENT | | |
|---|---|------------------------|
| COURSE CODE: 20UIT6CC9 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Choose the development framework and the need for mobile applications | K1 |
| CO2 | Demonstrate the activity and intent usage | K2 |
| CO3 | Design applications with intents and broadcast receivers. | K3 |
| CO4 | Compile an application with database connectivity | K4 |
| CO5 | Develop real time applications to improvise user experience | K5 |

| COURSE TITLE: PHP AND MYSQL WEB DEVELOPMENT | | |
|--|---|------------------------|
| COURSE CODE: 19UIT6MBE2A | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Introduce the basic concepts of HTML5 | K1 |
| CO2 | Introducing JavaScript and developing programs in HTML with CSS | K1 |
| CO3 | Write and execute programs with JavaScript Event Handlers | K2 |
| CO4 | Illustrating the concepts of PHP for designing a webpage | K3 |
| CO5 | Applying knowledge in handling databases with PHP and introduction to Laravel Framework | K4 |

| COURSE TITLE: C# PROGRAMMING | | |
|-------------------------------------|--|--|
| COURSE CODE: 19UIT6MBE2B | | |

**CRITERION I****POs and Cos**

| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
|------------------|---|------------------------|
| CO1 | Knowledge of the structure and model of the programming language C # | K1 |
| CO2 | Understand use of C# basics, Objects and Types, Inheritance | K2 |
| CO3 | Develop, implement and creating Applications with C# | K3 |
| CO4 | Compile an application with database connectivity | K3 |
| CO5 | Design and execute Web-based real time applications to improvise user experience | K3 |

| COURSE TITLE: ARTIFICIAL INTELLIGENCE | | |
|--|---|------------------------|
| COURSE CODE: 19UIT6MBE2C | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Create an appropriate state space searching techniques to maximize the performance | K1 |
| CO2 | Compute first-order propositional and predicate logic to represent knowledge | K2 |
| CO3 | Analyze the problem solving methods involved in uncertain information using probabilistic techniques. | K3 |
| CO4 | Apply planning algorithms to find optimal solutions | K3 |
| CO5 | Explain the steps involved in Natural language processing | K3 |

| COURSE TITLE: PHP AND MYSQL WEB DEVELOPMENT LAB | | |
|--|---|------------------------|
| COURSE CODE: 19UIT6MBE3AP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Develop webpages using HTML5 and CSS | K1 |
| CO2 | Create simple programs and apply Event Handlers in JavaScript using HTML | K2 |
| CO3 | Implement programs using MYSQL with PHP | K3 |

| COURSE TITLE: .NET WITH C# | | |
|-----------------------------------|---|------------------------|
| COURSE CODE: 19UIT6MBE3BP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Exhibit the knowledge of program execution and Debugging Of C# | K1 |
| CO2 | Develop programs using Object-Oriented concepts of C# | K2 |
| CO3 | Design Window-based applications with database connectivity | K3 |
| CO4 | Compile an application to demonstrate web services | K3 |
| CO5 | Apply the complete knowledge of C# to develop Web-based real time applications using webserver controls | K3 |

| COURSE TITLE: MOBILE APPLICATION USING ANDROID |
|---|
|---|



CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

NAAC Accreditation III Cycle : A Grade (CGPA 3.41 out of 4)

Tiruchirappalli - 620018, Tamil Nadu, India

NAAC - Cycle IV SSR

CRITERION I

POs and Cos

| COURSE CODE: 19UIT6MBE3CP | | |
|---------------------------|---|-----------------|
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Design the layout with various controls | K1 |
| CO2 | Exploring the User Interface | K2 |
| CO3 | Implementing interactivity through application | K3 |
| CO4 | Compile an application to access database | K3 |
| CO5 | Experiencing with background services | K3 |

Signature Not Verified

Digitally Signed
Signed by: Sujatha.V
Designation: Principal
Reason: NAAC
Location: Tiruchirappalli, Tamil Nadu, India
Date: 30-Sep-2024 10:43:48



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Programme Outcomes (POs) and Course Outcomes (COs) – (2023-2024 Onwards)

DEPARTMENT OF INFORMATION TECHNOLOGY

B. Sc – Information Technology

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

| PEOs | Statements |
|-------------|---|
| PEO1 | LEARNING ENVIRONMENT To facilitate value-based holistic and comprehensive learning by integrating innovative learning practices to match the highest quality standards and train the students to be effective leaders in their chosen fields. |
| PEO2 | ACADEMIC EXCELLENCE To provide a conducive environment to unleash their hidden talents and to nurture the spirit of critical thinking and encourage them to achieve their goal. |
| PEO3 | EMPLOYABILITY To equip students with the required skills in order to adapt to the changing global scenario and gain access to versatile career opportunities in multidisciplinary domains. |
| PEO4 | PROFESSIONAL ETHICS AND SOCIAL RESPONSIBILITY To develop a sense of social responsibility by formulating ethics and equity to transform students into committed professionals with a strong attitude towards the development of the nation. |
| PEO5 | GREEN SUSTAINABILITY To understand the impact of professional solutions in societal and environmental contexts and demonstrate the knowledge for an overall sustainable development. |

**CRITERION I****POs and Cos****PROGRAMME OUTCOMES (POs)**

| POs | Programme Outcome On completion of B. Sc Information Technology Programme, the students will be able to, |
|------------|---|
| PO1 | Academic Skills & Social Responsibility Apply Computing, Mathematical and Scientific knowledge in various disciplines by understanding the concerns of the society |
| PO2 | Critical Thinking and Innovative Progress Design the software applications with varying intricacies using programming languages for innovative learning in technology world to meet the changing demands. |
| PO3 | Personality Development Perceive Leadership skills to accomplish a common goal with effective communication and understanding of professional, ethical, and social responsibilities. |
| PO4 | Lifelong Learning Identify resources for Professional development and apply the skills and tools necessary for computing practice to gain real life experiences. |
| PO5 | Creativity and Holistic Approach Create a Scientific temperament and novelties of ideas to support research and development in Computer Science to uphold scientific integrity and objectivity. |

PROGRAMME SPECIFIC OUTCOMES (PSOs)

| PSOs | Programme Specific Outcomes Students of B. Sc Information Technology will be able to | POs Addressed |
|-------------|--|----------------------|
| PSO1 | To apply the knowledge of Science and Computing in Information Technology | PO1 |
| PSO2 | Analyze the local and global impact of computing on individuals, organizations, society and implant lifelong learning for professional development | PO4 |
| PSO3 | Improve the capability to apply the knowledge in interrelated domains and solve real world problems with modern technological tools | PO2 |
| PSO4 | To strengthen the academic and research quality, effective communication, good ethics and responsibilities during professional practice | PO5 |
| PSO5 | Excel in job-oriented skills which are required to meet the current demand in the field of IT industry and to become an entrepreneur with confidence | PO3 |

**CRITERION I****POs and Cos****COURSE OUTCOMES (COs)**

| Course Title: PROGRAMMING IN C | | |
|---------------------------------------|---|------------------------|
| Course Code: 23UIT1CC1 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Outline the fundamental concepts of C programming languages, and its features | K1 |
| CO2 | Demonstrate the programming methodology | K2 |
| CO3 | Identify suitable programming constructs for problem solving | K3 |
| CO4 | Select the appropriate data representation, control structures, functions and concepts based on the problem requirement | K4 |
| CO5 | Evaluate the program performance by fixing the errors | K5 |

| Course Title: C PROGRAMMING (P) | | |
|--|---|------------------------|
| Course Code: 23UIT1CC1P | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Demonstrate the understanding of syntax and semantics of C programs | K1 |
| CO2 | Identify the problem and solve using C programming techniques | K2 |
| CO3 | Identify suitable programming constructs for problem solving | K3 |
| CO4 | Analyze various concepts of C language to solve the problem in an efficient way | K4 |
| CO5 | Develop a C program for a given problem and test for its correctness | K5 |

| Course Title: DATA STRUCTURES AND ALGORITHMS | | |
|---|--|------------------------|
| Course Code: 23UIT2CC2 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Understand the abstract data types and basics of Algorithms | K1 |
| CO2 | Demonstrate the performance of basic linear and nonlinear data structures | K2 |
| CO3 | Implement the basic data structures and Algorithm design techniques | K3 |
| CO4 | Analyze the efficiency and proofs of correctness | K4 |
| CO5 | Assess, evaluate and choose appropriate data structure and algorithmic technique to solve real-world problems. | K5 |

**CRITERION I****POs and Cos**

| COURSE TITLE: DATA STRUCTURES USING C (P) | | |
|--|---|------------------------|
| COURSE CODE: 23UIT2CC2P | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Recall program execution and debugging | K1 |
| CO2 | Demonstrate the ideas of Data structures | K2 |
| CO3 | Make use of Operations of Linear and Non- linear data structures | K3 |
| CO4 | Develops the ability to analyze a problem and implement an algorithm to solve it. | K4 |
| CO5 | Acquire logical thinking, Identify the correct and efficient ways of solving problems | K5 |

| COURSE TITLE: DIGITAL FUNDAMENTALS | | |
|---|---|------------------------|
| COURSE CODE: 22UIT2CC3 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Understand the basics of digital logic | K1 |
| CO2 | Apply the conversion of number system | K3 |
| CO3 | Apply the Boolean algebra to generate digital circuits | K3 |
| CO4 | Design combinational circuits using gates | K5 |
| CO5 | Construct sequential circuits using registers | K4 |

| COURSE TITLE: RELATIONAL DATABASE MANAGEMENT SYSTEMS | | |
|---|---|------------------------|
| COURSE CODE: 22UIT3CC4 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Outline the terminology, features, classifications, characteristics and benefits embodied in database systems | K1 |
| CO2 | Formulate using relational algebra solutions to a broad range of query problems | K2 |
| CO3 | Demonstrate a broad range of SQL query and its application | K3 |
| CO4 | Design an information model expressed in the form of an Entity relation diagram | K3 |
| CO5 | Apply normalization in relational database design and demonstrate PL/SQL program interfaces | K3 |

**CRITERION I****POs and Cos**

| COURSE TITLE: RDBMS (P) | | |
|--------------------------------|---|------------------------|
| COURSE CODE: 22UIT3CC3P | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Design and implement a database schema for a given problem | K1 |
| CO2 | Create and maintain tables using PL/SQL | K2 |
| CO3 | Populate and query a database | K3 |
| CO4 | Prepare reports | K3 |
| CO5 | Application development using PL/SQL | K3 |

| COURSE TITLE: WEB DESIGN | | |
|---------------------------------|---|------------------------|
| COURSE CODE: 22UIT3GEC1 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Understand the basic commands of HTML | K1 |
| CO2 | Illustrate the basic structure of HTML document and the methods to create, save and open it. | K2 |
| CO3 | Apply HTML commands to use various events and elements like Text, Media, Tables, Lists, Images in a web page | K3 |
| CO4 | Analyze the method of creating a web page with different events and elements including images and hyperlinks. | K4 |
| CO5 | Inspect a web page with various commands and interactive elements of HTML | K4 |

| COURSE TITLE: PROGRAMMING IN JAVA | | |
|--|--|------------------------|
| COURSE CODE: 22UIT4CC5 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Identify the basic elements of Java programming, principles of OOP and graphical user interface. | K1 |
| CO2 | Infer the program structure, syntax and semantics of the programming language and interactive environment. | K2 |
| CO3 | Analyze the variables, data types, OOPs concept, AWT package and database. | K4 |
| CO4 | Use the programming skills in OOPs, GUI programming and database connectivity in various domains. | K3 |
| CO5 | Solve the real time problems using object-oriented concepts, interactive environment and JDBC connectivity | K5 |

**CRITERION I****POs and Cos**

| COURSE TITLE: PROGRAMMING IN JAVA (P) | | |
|--|---|------------------------|
| COURSE CODE: 22UIT4CC4P | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Demonstrate and implement the fundamentals of Java programming concepts | K2, K3 |
| CO2 | Analyze the problem and develop skills on identifying appropriate programming constructs like looping, branching and functions | K3, K4 |
| CO3 | Examine the problem and create a reusable program by combining the features of Java such as Classes, Objects, Packages, Interfaces and Exception handling | K4, K6 |
| CO4 | Analyze the complexity of problem in real world and design an event driven and web based interactive programs using swing | K4, K6 |
| CO5 | Build applications with database connectivity to mimic the real world scenarios | K6 |

| COURSE TITLE: WEB DESIGN (P) | | |
|-------------------------------------|---|------------------------|
| COURSE CODE: 22UIT4GEC2P | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Understand the basic commands of HTML | K1 |
| CO2 | Illustrate the basic structure of HTML document and the methods to create, save and open it. | K2 |
| CO3 | Apply HTML commands to use various events and elements like Text, Media, Tables, Lists, Images in a web page | K3 |
| CO4 | Analyze the method of creating a web page with different events and elements including images and hyperlinks. | K4 |
| CO5 | Inspect a web page with various commands and interactive elements of HTML | K4 |

| COURSE TITLE: PC PACKAGES (P) | | |
|--------------------------------------|---|------------------------|
| COURSE CODE: 22UIT4SEC1P | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Show various formatting operations in MSWord | K1 |
| CO2 | Create multiple documents using Mail merge | K2 |
| CO3 | Design a table and implement various operations | K2 |
| CO4 | Apply various operation and charts in MS-Excel | K3 |
| CO5 | Make use of PowerPoint features to create E content | K3 |

**CRITERION I****POs and Cos**

| COURSE TITLE: PYTHON PROGRAMMING & MACHINE LEARNING | | |
|--|---|------------------------|
| COURSE CODE: 19UIT5CC5 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Introduce the basic concepts of Python | K1 |
| CO2 | Write and Execute programs using Arrays and Functions | K2 |
| CO3 | Illustrate the concepts of Strings and Dictionaries | K2 |
| CO4 | Design coding using Regular Expressions and GUI | K3 |
| CO5 | Applying knowledge in handling Data Frames | K3 |

| COURSE TITLE: PROGRAMMING IN PYTHON LAB | | |
|--|---|------------------------|
| COURSE CODE: 19UIT5CC5P | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Develop programs using fundamental concepts | K1 |
| CO2 | Demonstrate the concepts of Arrays and Functions | K2 |
| CO3 | Make use of Regular Expressions and GUI | K3 |
| CO4 | Apply DataFrame operations in a dataset | K3 |

| COURSE TITLE: COMPUTER NETWORKS | | |
|--|--|------------------------|
| COURSE CODE: 19UIT5CC6 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Describe the structure and organization of computer network layers, responsibilities of each layer, and relationships between the layers | K1 |
| CO2 | Discuss over the types of transmission media and various switching techniques | K2 |
| CO3 | Explain the data link layer properties including error-detection and correction techniques and flow control mechanisms and wireless communication | K3 |
| CO4 | Illustrate the network layer concepts and protocols including datagram forwarding, routing algorithms and transport layer concepts that include connection oriented and connection-less models, techniques to provide reliable data delivery and algorithms for congestion control | K3 |
| CO5 | Explain the concepts of application layer protocol for various applications like HTTP, FTP and Email and cryptography | K3 |

**CRITERION I****POs and Cos**

| COURSE TITLE: DIGITAL LOGIC AND COMPUTER DESIGN | | |
|--|---|------------------------|
| COURSE CODE: 19UIT5CC7 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Recall the basic principles of digital electronics | K1 |
| CO2 | Understand different types of digital electronic circuits for particular operation | K2 |
| CO3 | Demonstrate the functions of combinational and sequential circuits | K2 |
| CO4 | Build micro-operations and can experiment with basic design | K3 |
| CO5 | Sketch the microcomputer organization | K3 |

| COURSE TITLE: SOFTWARE ENGINEERING | | |
|---|---|------------------------|
| COURSE CODE: 20UIT5MBE1A | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Outline the progression in software and software engineering practice | K1 |
| CO2 | Categorize the development phases and life cycle models of a project. | K2 |
| CO3 | Illustrate the model in software project design and quality. | K2 |
| CO4 | Discuss the fundamentals of software testing with its various types. | K3 |
| CO5 | Explain the method of performance and internationalization testing. | K3 |

| COURSE TITLE: OBJECT ORIENTED ANALYSIS AND DESIGN | | |
|--|---|------------------------|
| COURSE CODE: 19UIT5MBE1B | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Analyse, Design, Document the requirements through the use case driven approach | K1 |
| CO2 | Identify, analyse and model structural and behavioral concepts of the system | K2 |
| CO3 | Explore the conceptual model into various scenarios and Applications | K3 |
| CO4 | Apply the concepts of architectural design for deploying the code for software | K3 |
| CO5 | Demonstrate a rudimentary understanding of UML interfaces | K3 |

| COURSE TITLE: SOFTWARE PROJECT MANAGEMENT | | |
|--|---|------------------------|
| COURSE CODE: 19UIT5MBE1C | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Define the scope of software project management | K1 |
| CO2 | Describe the projects at each stage of the software development life cycle | K2 |
| CO3 | Outline the software cost estimation techniques | K2 |
| CO4 | Discuss about the activity planning and risk management principles | K3 |
| CO5 | To develop skills to manage the various phases involved in project management and people management | K3 |

**CRITERION I****POs and Cos**

| COURSE TITLE: CONTENT MANAGEMENT SYSTEM TOOL | | |
|---|---|------------------------|
| COURSE CODE: 19UIT5SBE2AP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Apply the fundamental features to create a website | K1 |
| CO2 | Develop blogs and post | K2 |
| CO3 | Access images and media files | K2 |
| CO4 | Demonstrate website customization | K3 |
| CO5 | Implement the plugin capabilities | K3 |

| COURSE TITLE: INTERACTIVE MULTIMEDIA SOFTWARE | | |
|--|---|------------------------|
| COURSE CODE: 19UIT5SBE2BP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Handling Layout with color and fonts | K1 |
| CO2 | Illustrate the operation for working on layers | K2 |
| CO3 | Create graphics using templates | K2 |
| CO4 | Demonstrate Masking technique | K3 |
| CO5 | Design an Animated video | K3 |

| COURSE TITLE: WEB DESIGNING LAB | | |
|--|---|------------------------|
| COURSE CODE: 19UIT5SBE3AP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Perform different operations on text and images | K1 |
| CO2 | Create forms with different types of controls | K2 |
| CO3 | Apply various Graphics effects | K3 |
| CO4 | Create links between multiple frames | K3 |
| CO5 | Design and finalize the web page using software | K3 |

| COURSE TITLE: GRAPHICS LAB | | |
|-----------------------------------|---|------------------------|
| COURSE CODE: 19UIT5SBE3BP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Handle basics tools and include drawing in design of a web page | K1 |
| CO2 | Perform different operations on text | K2 |
| CO3 | Perform comprehensive processing of word and publishing integration | K3 |
| CO4 | Enable to create and modify objects for graphics design purposes. | K3 |
| CO5 | Create full-fledged document with various page backgrounds and layouts | K3 |

**CRITERION I****POs and Cos**

| COURSE TITLE: OPERATING SYSTEM | | |
|---------------------------------------|--|------------------------|
| COURSE CODE: 19UIT6CC8 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Discuss the role of operating system | K1 |
| CO2 | Compare various algorithms and comment about the performance of various algorithms used for process management and CPU scheduling. | K3 |
| CO3 | Apply various concepts related to deadlock to solve problems related with resource allocation. | K3 |
| CO4 | Analyze the role of process synchronization towards increasing throughput of the system. | K3 |
| CO5 | Utilize the Unix commands pertaining with process, File and I/O Management. | K3 |

| COURSE TITLE: MOBILE APPLICATION DEVELOPMENT | | |
|---|---|------------------------|
| COURSE CODE: 20UIT6CC9 | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Choose the development framework and the need for mobile applications | K1 |
| CO2 | Demonstrate the activity and intent usage | K2 |
| CO3 | Design applications with intents and broadcast receivers. | K3 |
| CO4 | Compile an application with database connectivity | K4 |
| CO5 | Develop real time applications to improvise user experience | K5 |

| COURSE TITLE: PHP AND MYSQL WEB DEVELOPMENT | | |
|--|---|------------------------|
| COURSE CODE: 19UIT6MBE2A | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Introduce the basic concepts of HTML5 | K1 |
| CO2 | Introducing JavaScript and developing programs in HTML with CSS | K1 |
| CO3 | Write and execute programs with JavaScript Event Handlers | K2 |
| CO4 | Illustrating the concepts of PHP for designing a webpage | K3 |
| CO5 | Applying knowledge in handling databases with PHP and introduction to Laravel Framework | K4 |

**CRITERION I****POs and Cos**

| COURSE TITLE: C# PROGRAMMING | | |
|-------------------------------------|---|------------------------|
| COURSE CODE: 19UIT6MBE2B | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Knowledge of the structure and model of the programming language C # | K1 |
| CO2 | Understand use of C# basics, Objects and Types, Inheritance | K2 |
| CO3 | Develop, implement and creating Applications with C# | K3 |
| CO4 | Compile an application with database connectivity | K3 |
| CO5 | Design and execute Web-based real time applications to improvise user experience | K3 |

| COURSE TITLE: ARTIFICIAL INTELLIGENCE | | |
|--|---|------------------------|
| COURSE CODE: 19UIT6MBE2C | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Create an appropriate state space searching techniques to maximize the performance | K1 |
| CO2 | Compute first-order propositional and predicate logic to represent knowledge | K2 |
| CO3 | Analyze the problem solving methods involved in uncertain information using probabilistic techniques. | K3 |
| CO4 | Apply planning algorithms to find optimal solutions | K3 |
| CO5 | Explain the steps involved in Natural language processing | K3 |

| COURSE TITLE: PHP AND MYSQL WEB DEVELOPMENT LAB | | |
|--|---|------------------------|
| COURSE CODE: 19UIT6MBE3AP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Develop webpages using HTML5 and CSS | K1 |
| CO2 | Create simple programs and apply Event Handlers in JavaScript using HTML | K2 |
| CO3 | Implement programs using MYSQL with PHP | K3 |

| COURSE TITLE: .NET WITH C# | | |
|-----------------------------------|---|------------------------|
| COURSE CODE: 19UIT6MBE3BP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Exhibit the knowledge of program execution and Debugging Of C# | K1 |
| CO2 | Develop programs using Object-Oriented concepts of C# | K2 |
| CO3 | Design Window-based applications with database connectivity | K3 |
| CO4 | Compile an application to demonstrate web services | K3 |
| CO5 | Apply the complete knowledge of C# to develop Web-based real time applications using webserver controls | K3 |



CRITERION I

POs and Cos

| COURSE TITLE: MOBILE APPLICATION USING ANDROID | | |
|---|---|------------------------|
| COURSE CODE: 19UIT6MBE3CP | | |
| CO Number | CO Statement On the successful completion of the course, students will be able to, | Knowledge Level |
| CO1 | Design the layout with various controls | K1 |
| CO2 | Exploring the User Interface | K2 |
| CO3 | Implementing interactivity through application | K3 |
| CO4 | Compile an application to access database | K3 |
| CO5 | Experiencing with background services | K3 |

Signature Not Verified

Digitally Signed
Signed by: Sujatha.V
Designation: Principal
Reason: NAAC
Location: Tiruchirappalli, Tamil Nadu, India
Date: 30-Sep-2024 10:43:48

