



FATIMA COLLEGE

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Affiliated to Madurai Kamaraj University

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Mary Land, Madurai - 625018, Tamil Nadu

AQAR – QUALITATIVE METRIC

2022 - 2023

Criterion 1 - Curricular Aspects

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

Name of the Programme: BCA

Programme Outcomes:

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| PO 1 | Understand, analyze and apply the concepts of latest technologies to bring solutions to the problems in the areas of computer applications. |
| PO 2 | Analyze and synthesize computing systems through quantitative and qualitative techniques along with effective verbal and non-verbal communication. |
| PO 3 | Apply technical and professional skills practically to excel in providing solutions for solving complex real life problems satisfying industrial and societal needs. |
| PO 4 | Understand & analyze the technical data through innovative methodologies with legal ethics to reach out actionable conclusions. |



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| PO 5 | To promote leadership skills and also as an individual on working with multi disciplinary projects using Modern computing tools and Open Source Technologies. |
| PO 6 | Commit to professional ethics and cyber regulations considering the societal and environmental issues within local and global contexts for sustainable development |

Programme Specific Outcomes:

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| PSO 1 | To achieve significant understanding of theoretical and programming concepts in key areas of Computer Applications. |
| PSO 2 | To expand and sharpen practical and problem solving skills to provide solutions to industry, society and business problems. |
| PSO 3 | To apply modern practices and strategies in software project development using open source and other programming environments. |
| PSO 4 | To inculcate the ability to analyze and interpret problems, make inferences from the resulting data and apply technical skills to solve real time problems. |
| PSO 5 | To make graduates understand various professional, technical and ethical issues prevailing in the |



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| | industry |
| PSO 6 | To gain exposure in preventive, ethical hacking and security technologies in recent trends |
| PSO 7 | To equip the students to meet the requirement of Corporate world and Industry standards |
| PSO 8 | To engage in professional development and to pursue post graduate education in the fields of Information Technology and Computer Applications |
| PSO 9 | To generate ideas of innovation and to identify, formulate and solve problems in software solutions, outsourcing services, public and private sectors |
| PSO 10 | To engage the students technically on par with the societal and environmental responsibilities added with professional ethics |

Course Outcomes:

| Course Code | Course Title | Nature of the Course (Local/National/Regional/Global) | Course Description | Course Outcomes |
|-------------|--------------|--|--------------------|-----------------|
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|---------|-------------------------|--------|--|---|
| 19J1CC1 | PROGRAMMING IN C | Global | To learn the basic knowledge of structured programming in C control structures, data structures and functions along with basic problem solving techniques. | CO1: Acquire basic understanding of C programming CO2: Illustrate how arrays and strings are implemented in C CO3: Utilize the knowledge of Functions and Pointers CO4: Analyze the memory management concept in C using structure and Unions CO5: Outline the file operations in C |
| 19J1CC2 | LAB IN C PROGRAMMING | Global | To learn the practical | CO1: Acquire basic understanding of C |



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|---------|--|--------|---|---|
| | | | implementation of structured programming using control structures, data structures and functions along with basic problem solving techniques. | programming CO2: Illustrate how arrays and strings are implemented in C CO3: Utilize the knowledge of Functions and Pointers CO4: Analyze the memory management concept in C using structure and Unions CO5: Outline the file operations in C |
| 21J1NME | NON MAJOR ELECTIVE – I ANIMATION TOOLS AND TECHNIQUES | Global | This course helps to become familiar with the elements and tools in Alice that is used | CO1: Apply object properties, methods and events CO2: Design, create and edit animation scenes |



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| | | | to create interactive animated media such as scene creation and movie making. | and interactive movies CO3: Utilize event handling methods and properties CO4: Demonstrate story boards and animation movies CO5: Utilize and understand different sounds and sound formats in alic |
| 19J2CC3 | OBJECT ORIENTED PROGRAMMING IN C++ | Global | To get better understanding in the OOPS Concept and to have basic knowledge in writing programs using C++ | CO1:Assess the object – oriented concepts in C++ CO2:Illustrate the usage of Functions in C++ CO3:Analyze advanced features of C++ |



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| | | | Programming | specifically stream I/O and overloading CO4:Demonstrate on Inheritance and Virtual Classes CO5:Outline the file operations in C++ |
| 19J2CC4 | LAB IN C++ PROGRAMMING | Global | To learn the basic knowledge of Object Oriented Programming in C++ and write code in all aspects of C++ Language | CO1:Read, understand and trace the execution of programs written in C++ language CO2:Demonstrate class and object functions CO3:Assess operator overloading and function overloading to specific |



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| | | | | problem definition CO4:Demonstrate file operations in C++. CO5:Write C++ code to demonstrate each concept |
| 19J3CC5 | OPERATING SYSTEMS | Global | To Study about the concepts, structure and mechanisms of operating systems. To examine the operations of processes and threads, scheduling, deadlock, memory management and file systems | CO1:Outline the structure of OS,basic architectural components CO2:Analyze on the different scheduling algorithms and critical section problems CO3:Critique device and resource management techniques by concentrating on |



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| | | | | deadlocks CO4:Identify and know about memory management techniques CO5:Interpret the mechanisms adopted for file sharing in distributed Applications |
| 19J3CC6 | LAB IN RELATIONAL DATABASE MANAGEMENT SYSTEMS | Global | To learn Relational Database concepts and to work with dynamic, reflective, object- oriented concepts through Query processing | CO1: Critique SQL commands to create tables and indexes CO2: Apply DDL and DML commands in real time applications CO3: Understand the needs of triggering applications |



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| | | | | <p>CO4: Disseminate knowledge of RDBMS and SQL, both in terms of design and implementation usage</p> <p>CO5: Write dynamic queries to demonstrate the concepts of RDBMS</p> |
| 19AC3ACJ3 | PRINCIPLES OF FINANCIAL ACCOUNTING AND ACCOUNTING PACKAGE | Global | <p>This course provides the accounting language's essentials that helps to read and interpret financial statements for</p> | <p>CO 1: Understand the basic concepts of company creation in tally</p> <p>CO 2: It tells how to work with Journals, Ledgers and Cash Flow Statements.</p> <p>CO 3: It is the language that managers use to communicate</p> |



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| | | | business diagnosis and decision-making. | with the terms of accounting. CO 4:The firm's financial and economic information can be shared to external parties such as shareholders and creditors. CO 5:Create and display single and multiple stock groups and stock categories |
| 19J3SB1 | SKILL BASED – I LOGICAL REASONING AND DATA INTERPRETATION | National | To improve aptitude, problem solving skills and reasoning ability that helps to focus on their career development | CO1: Apply quantitative techniques to solve variety of problems. CO2: Perform statistical analysis to interpret information. CO3Apply the aptitude tricks, |



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| | | | | shortcuts and formulas CO4: Acquire clear understanding on easily solving the reasoning. CO 5: Focuses in clearing the competitive, Campus and entrance online tests |
| 19J4CC7 | DATA STRUCTURES AND ALGORITHMS | Global | To give better understanding of how algorithms are developed along their appropriate data structures which have both historical and | CO1: Assess the concept of various data structures and the logic behind their workings CO2: Compare various ADT CO3: Utilize trees and graphs in real time application CO4: Compare the various Directed and Undirected Graphs. |



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| | | | contemporary significance | CO5: Analyze case studies to implement and comment about performance of algorithms. |
| 19J4CC8 | LAB IN WEB PROGRAMMING | Global | To provide the student with foundational programming knowledge and skills for application development on the Internet. | CO1:Select and apply mark-up languages for processing and presenting information in web pages. CO2:Design and implement dynamic websites with good aesthetic sense of designing. CO3:Use fundamental skills to maintain web server services required to host a website. |



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| | | | | CO4: Prepare the students to write a well formed DB connection CO5: Create WebPages for any application using database connectivity |
| 19P4ACJ4 | DIGITAL PRINCIPLES AND COMPUTER ORGANIZATION | Global | To know about computers, learn the basics and take advantage of the latest technologies in the field of computers and information technology. | CO1: Identify the anatomy of computers CO2: Compare the various memory units along with the storage devices CO3: Demonstrate and perform computer arithmetic operations on integer and real numbers CO4: Analyze the performance of Gates CO5: Conceptualize the |



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| | | | | basics of organizational and architectural issues of a digital computer with logics |
| 19J4SB2 | SKILL BASED – II DATA ANALYSIS USING SPREADSHEETS | Global | To enable the students in crafting professional excel spread sheets and to familiarize the students in preparation of analysis in data and presentations with automation tools. | CO1:Customize the Ribbons of Spreadsheets CO2:Perform statistical analysis using charts CO3:Apply the aptitude tricks, shortcuts and formulas CO4 Compare all the functions available CO5:Focuses on the protection of data in spreadsheets |
| 19J5CC9 | SOFTWARE ENGINEERING | Global | Aims to provide a thorough | CO1: Compare the various software models. |



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| | | | knowledge about various phases involved in software development along with the testing techniques. | CO2: Use knowledge, techniques, skills and modern tools necessary for software engineering practice CO3: Analyze on the design factors and guidelines CO4: Understand the different types of testing used in softwares CO5: Understand the various types of Testing tools |
| 19J5CC10 | JAVA PROGRAMMING | Global | To acquire knowledge on Object Oriented Programming using Multithreading, Exceptions, GUI & | CO1: Acquire in depth knowledge in Java programming concepts CO2: Identify and analyze platform independent |



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| | | | database Applications | environment and byte code generation CO3:Build, Execute and Debug java programs along with Exceptions CO4:Design and Implement packages CO5:Write, Compile and Execute applet programs which includes GUI |
| 19J5CC11 | LAB IN JAVA PROGRAMMING | Global | To acquire practical knowledge on Object Oriented Programming using Multithreading, Exceptions, GUI & database | CO1:Acquire in depth knowledge in Java programming concepts CO2:Identify and analyze platform independent environment and byte |



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| | | | | |
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| | | | Applications | code generation CO3:Build, Execute and Debug java programs along with Exceptions CO4:Design and Implement packages CO5:Write, Compile and Execute applet programs which includes GUI |
| 19J5CC12 | LAB IN DOT NET PROGRAMMING | Global | To know the rapid development of powerful Window applications and Web application which makes the web development easier | CO1:Use Dot Net Framework along with the features of C# CO2:Create websites to explore database connectivity CO3:Analyze debugging |



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| | | | | <p>WebPages through case studies</p> <p>CO4:Use the different types of master page creation</p> <p>CO5:Create different dynamic websites for applications</p> |
| 19J5ME1 | CLOUD COMPUTING | Global | <p>To learn the basic knowledge of structured programming in C control structures, data structures and functions along with basic problem solving techniques.</p> | <p>CO1: Outline problems and evaluate various cloud computing solutions</p> <p>CO2: Outline Cloud service and deployment models</p> <p>CO3: Identify the architecture and infrastructure of cloud computing including SaaS,PaaS, IaaS, public cloud, private cloud, hybrid</p> |



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| | | | | <p>cloud and community cloud</p> <p>CO4: Predict security issues and formulate recovery mechanisms</p> <p>CO5: Understand the concept of virtualization</p> |
| 19J5ME2 | MOBILE COMPUTING | Global | <p>To be acquainted with the Mobile Application Development Platform and its Architectures, GSM, GPRS, Applications</p> | <p>CO1: Create the infrastructure to develop mobile communication systems</p> <p>CO2: Assess the characteristics of emerging technologies in mobilecommunication</p> <p>CO3: Critique new knowledge in the field of computer</p> |



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| | | | | <p>science by using appropriateresearch methodologies</p> <p>CO4: Analyze on the various software kits available</p> <p>CO5: Assess the characteristics of Mobile Components and Applications</p> |
| 19J5SB3 | <p>SKILL BASED – III</p> <p>LAB IN ANIMATION TECHNIQU ES</p> | Global | <p>This course gives knowledge on the editing of images and created animated images.</p> | <p>CO1: Analyze on the various tools of Photoshop</p> <p>CO2: Compare different types of filters used in Photoshop</p> <p>CO3: Apply the techniques available in CorelDraw</p> <p>CO4: Understand the Open</p> |



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| | | | | Source techniques in editing CO5: Create animated banners and various simple animations |
| 19J5SB4 | SKILL BASED – IV LAB IN E – CONTENT DEVELOPMENT | Global | This course helps to promote content generation, adaptation and distribution of e-content through electronic media | CO1: Understand E-Learning with respect to its needs, challenges and benefits CO2: Explain the components of Authoring tools and E-learning standards CO3: Apply Audio editing techniques for creating podcasts CO4: Understand the techniques of creating customized lessons |



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| | | | | CO5: Create videos using online tools |
| 19J6CC13 | PYTHON | Global | This course helps to get knowledge in python language and to know about the different types of data like lists, dictionaries and files handling | CO1:Identify different Python object types CO2:Discuss how to use indexing and slicing to access data in Python programs CO3:Assess structure and components of a Python program CO4:Write programs to demonstrate loops and decision statements in Python CO5:Build and package in |



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| | | | | Python modules for reusability |
| 19J6CC14 | COMPUTER NETWORKS | Global | This course helps to know about the layered architecture of different models and also the works of each layer with security features. | <p>CO1: Outline the functionalities of OSI reference model</p> <p>CO2: Discuss guided and unguided media and its real time usage and applications</p> <p>CO 3: Analyze on the design issues of DLL</p> <p>CO4: Demonstrate various routing algorithms through case studies</p> <p>CO 5: Assess real time web and network security mechanisms</p> |



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| 19J6CC15 | LAB IN PYTHON | Global | This course helps to get practical knowledge in python language and to know about the different types of data like lists, dictionaries and files handling | CO1:Identify different Python object types CO2:Discuss how to use indexing and slicing to access data in Python programs CO3:Assess structure and components of a Python program CO4:Write programs to demonstrate loops and decision statements in Python CO5:Build and package in Python modules for reusability |
| 19J6ME3 | SECURITY PRACTICES | Global | This Course | CO1: Understand the concept |



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| | | | helps in examining the security issues and practices along with the encryption techniques. | of cryptography CO2: Compare on the encryption techniques available CO3: Evaluate the Various tools and tactics followed in military CO4: Predict the forensics fundamentals and the various technologies used to avoid computer crimes. CO5: Illustrate different methods to collect and preserve digital evidence and Digital Crime Scene |
| 19J6ME4 | DATA MINING | Global | To discover the hidden patterns in | CO1:Analyze data mining algorithms, methods, and |



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| | | | the rapidly growing data generated by businesses, science, web, and other sources and to focus on the key tasks of data mining. | tools CO2:Identify business applications of data mining CO3:Predict quantitative analysis report to make decisions CO4:Outline the developing areas web mining, text mining, and ethical aspects of data mining CO5: Compare the various applications of Data Mining |
| 19J6ME5 | INTERNET OF THINGS (IoT) | Global | This helps to connect things to the internet which provide many | CO1: Design IOT based Prototypes CO2: Explain how sensors |



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| | | | advantages and also to understand the characteristics of IoT. | and embedded systems work CO3: Analyze and visualize sensor data CO4: Formulate real World IoT design Constraints and Industrial Automation in IoT CO5: Work with IoT |
| 19J6ME6 | HUMAN COMPUTER INTERACTION | Global | The main purpose is to provide the most fundamental knowledge about Artificial Intelligence, Fuzzy Logic | CO1: Identify problems that are amenable to solution by AI methods CO2: Formulate search problems and implement search algorithms using admissible heuristics |



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| | | | and Virtual Reality. | CO3: Analyze on the basics and architecture of VR systems CO4: Identify the human factors, effects and impact of VR CO5: Apply the VR technology in different applications |
| 19J6SB5 | SKILL BASED – V LAB IN PHP | Global | To be familiar with the structured approach by identifying the needs, interests and functionalities that helps in creating dynamic websites | CO1: Demonstrate how server – side programming works on the web CO2: Use PHP built – in functions and creating custom functions CO3: Create a database in phpMyAdmin |



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| | | | | CO4: Create dynamic web pages CO5: Design websites for various applications |
| 19J6SB6 | SKILL BASED – VI LAB IN LINUX | Global | This course gives basic knowledge on Linux operating system and to execute the code written in other languages. | CO1:Analyze the inner workings of LINUX operating systems CO2:Utilize Linux system to accomplish typical personal, office, technical, and software development tasks CO3:Use Linux utilities to create and manage simple file processing CO4:Use operations, organized directory |



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| | | | | structures with appropriate security CO5: Formulate shell scripts to perform more complex tasks |
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Name of the Programme: PGDCA

Programme Outcomes:

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| PO 1 | To learn the latest trends in various subjects of computers applications. |
| PO 2 | To learn computer applications in different fields like banking, insurance, software industry, govt& Corporate sectors. |
| PO 3 | To provides specialisation in computer science with technical, professional and communications skills. It also trains students to become future IT professionals. |
| PO 4 | To design, implement and evaluate a computer-based system, process, component, or programme. |
| PO 5 | To Design and develop applications to analyze and solve all computer related problems. |



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Programme Specific Outcomes:

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| PSO 1 | To expose the students to open source technologies so that they become familiar with it and can seek appropriate opportunity in trade and industry |
| PSO 2 | To the ability to employ modern computer languages and graphics editor for their successful career, to create platforms to become an entrepreneur and a relish for higher studies. |
| PSO 3 | To train themselves professionally in the areas of programming, multimedia, animation, web designing, and networking and to acquire knowledge in various domains based electives. |
| PSO 4 | To generate ideas of innovation and to identify, formulate and solve problems in software solutions, outsourcing services, public and private sectors. |
| PSO 5 | To equip the students to meet the requirement of Corporate world and Industry standards. |

Course Outcomes:

| Course | Course Title | Nature of the | Course | Course Outcomes |
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| Code | | Course (Local/National/Regional/Global) | Description | |
|----------|-----------------------|--|---|---|
| 19PDB101 | Computer Fundamentals | Global | To Study about the concepts, structure and mechanisms of operating systems. To examine the operations of processes and threads, scheduling, deadlock, memory management and file systems. | CO1: Understand the basic terminology of computers. CO2: Explain the basic components and storage. CO3: Understand the computer software and languages. CO4: Understand the components of network and its architecture. CO5: Outline the cloud services and |



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| 19PDB102 | Problem solving using C | Global | To develop programs using C programming language, in order to solve simple to moderate problems | CO1: Understand the basic concepts in C CO2: Explain the functionalities of arrays and strings CO3: Understand the usage and implementations of |



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| | | | | functions CO4: Understand the basic concepts of functions CO5: Outline the concept of structure and pointer |
| 19PDB103 | Web Designing | Global | To provide the student with foundational programming knowledge and skills for application development on the Internet. | CO1: Understand the basic concepts in HTML CO2: Explain the Text formatting & Tables CO3: Understand the usage and implementations of Graphics and frames CO4: Understand the |



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| | | | | Script in PHP CO5: Outline the database connectivity |
| 19PDB104 | Lab –I Programming in C | Global | To learn the practical implementation of structured programming using control structures, data structures and functions along with basic problem solving techniques | CO1: Understand the conditional and looping statements CO2: Explain the arrays and string functions CO3: Understand the pointers CO4: Understand the functions CO5: Outline the concept of structure |
| 19PDB105 | Lab –II Web | Global | To provide the | CO1: Understand the |



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|----------|----------------------------|--------|---|---|
| | Programming | | student with foundational programming knowledge and skills for application development on the Internet. | Webpage creation CO2: Explain the tables and frames CO3: Understand the Stylesheets CO4: Understand the Database creation CO5: Outline the Connectivity with database |
| 19PDB106 | Lab –III Design Techniques | Global | This course gives knowledge on the editing of images and created animated images. | CO1: Analyze on the various tools of Photoshop CO2: Compare different types of filters used in Photoshop |



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| | | | | <p>CO3: Apply the techniques available in CorelDraw</p> <p>CO4: Create animated banners and various simple animations</p> <p>CO5: How to prepare and process photos for the Web.</p> |
| 19PDB201 | Database Management System | Global | To inculcate knowledge on RDBMS concepts and Programming with SQL | <p>CO1: Critique SQL commands to create tables and indexes</p> <p>CO2: Apply DDL and DML commands in real time applications</p> <p>CO3: Understand the needs of triggering</p> |



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| | | | | applications CO4: Disseminate knowledge of RDBMS and SQL, both in terms of design and implementation usage CO5: Write dynamic queries to demonstrate the concepts of RDBMS |
| 21PDB202 | Python | Global | To enable the students to get better understanding in the OOPS Concept and to have basic knowledge in writing programs | CO1: Assess why Python is a useful scripting language for developers. CO2: Identify Python object types. CO3: Illustrate the usage of Lists, tuples, |



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| | | | using Python and Dictionaries in Programming. | Python Programs. CO4: Acquire how to design and program Python applications. CO5: Outline the file operations in Python. |
| 19PDB203 | Lab -IV RDBMS | Global | To learn Relational Database concepts and to work with dynamic, reflective, object-oriented concepts through Query processing | CO1: Critique SQL commands to create tables and indexes CO2: Apply DDL and DML commands in real time applications CO3: Understand the needs of triggering |



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| | | | | applications CO4: Disseminate knowledge of RDBMS and SQL, both in terms of design and implementation usage CO5: Write dynamic queries to demonstrate the concepts of RDBMS |
| 21PDB204 | Lab -V Python Programming | Global | Analyze program requirements. Design/develop programs with GUI interfaces. | CO1: Assess why Python is a useful scripting language for developers. CO2: Identify Python object types. CO3: Illustrate the usage of Lists, tuples, |



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| | | | | <p>and Dictionaries in Python Programs.</p> <p>CO4: Acquire how to design and program Python applications.</p> <p>CO5: Outline the file operations in Python.</p> |
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