



FATIMA COLLEGE

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Affiliated to Madurai Kamaraj University
Re-Accredited with 'A++' by NAAC (Cycle - IV)
Mary Land, Madurai - 625018, Tamil Nadu

AQAR – QUALITATIVE METRIC

2023 - 2024

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: B.C.A

Programme Code: USCA

Programme Outcomes:

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:

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



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Course Outcomes:

Course Code	Course Title	Nature of the Course (Local/ National/ Regional/ Global)	Course Description	Course Outcomes
23J1CC1	PYTHON PROGRAMMING	Global	To get better understanding in the OOPS Concept and to have basic knowledge in writing programs using Python Programming.	CO1: Learn the basics of python, Do simple programs on python, Learn how to use an array. CO2: Develop program using selection statement, Work with Looping and jump statements, Do programs on Loops and jump statements. CO3: Concept of function, function arguments, Implementing the concept strings in various application, Significance of Modules, Work with functions, Strings and



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				<p>modules.</p> <p>CO4: Work with List, tuples and dictionary, Write program using list, tuples and dictionary.</p> <p>CO5: Usage of File handlings in python, Concept of reading and writing files, Do programs using files.</p>
23J1CC2	PYTHON PROGRAMMING LAB	Global	To get better understanding in the OOPS Concept and to have basic knowledge in writing programs using Python Programming.	<p>CO1: Demonstrate the understanding of syntax and semantics of Python</p> <p>CO2: Identify the problem and solve using PYTHON programming techniques.</p> <p>CO3: Identify suitable programming constructs for problem solving.</p> <p>CO4: Analyze various concepts of PYTHON language to solve the</p>



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				<p>problem in an efficient way.</p> <p>CO5: Develop a PYTHON program for a given problem and test for its correctness.</p>
23J1FC	STRUCTURED PROGRAMMING IN C	Global	To get better understanding in Programming concepts in C.	<p>CO1: Remember the program structure of C with its syntax and semantics</p> <p>CO2: Understand the programming principles in C(datatypes, operators, branching and looping, arrays, functions, structures, pointers and files)</p> <p>CO3: Apply the programming principles learnt in real-time problems</p> <p>CO4: Analyze the various methods of solving a problem and choose the best method</p>



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				CO5: Code, debug and test the programs with appropriate Test cases
23J1SE1	ANIMATION TOOLS AND TECHNIQUES	Global	This course helps to become familiar with the elements and tools in Alice that is used to create interactive media such as scene creation and movie making.	CO1: Apply object properties, methods and events CO2: Design, create and edit animation scenes 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 alice
23J2CC3	OBJECT ORIENTED PROGRAMMING	Global	To get better understanding in the OOPS Concept and to have basic	CO1: Assess the object – oriented concepts in C++ CO2: Illustrate the usage of



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	IN C++		knowledge in writing programs using C++ Programming	Functions in C++ CO3:Analyze advanced features of C++ specifically stream I/O and overloading CO4:Demonstrate on Inheritance and Virtual Classes CO5:Outline the file operations in C++
23J2CC4	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 problem definition CO4:Demonstrate file operations in C++.



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				CO5:Write C++ code to demonstrate each concept
		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 deadlocks CO4:Identify and know about memory management techniques CO5:Interpret the mechanisms adopted for file sharing in distributed Applications
23J2SE2	ANIMATION TOOLS AND TECHNIQUES	Global	This course helps to become familiar with the elements	CO1: Apply object properties, methods and events



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			and tools in Alice that is used to create interactive media such as scene creation and movie making.	CO2: Design, create and edit animation scenes 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 alice
23J2SE3	INTRODUCTION TO HTML			CO1: Knows the basic concept in HTML concept of resources in HTML CO2: Usage of Tags in Webpage creation CO3: Understand the page formatting using the concept of list CO4: Analyze the table creation with its various



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				attributes CO5: Develop a frames and understand its various formats.
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 deadlocks CO4:Identify and know about memory management techniques CO5:Interpret the mechanisms adopted for file sharing in distributed Applications



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19J3CC6	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 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
21AC3AC J3	PRINCIPLES OF FINANCIAL A/C &A/C PACKAGE		This course provides the accounting language's essentials that helps to read and	CO 1: Understand the basic concepts of company creation in tally CO 2: It tells how to work with Journals, Ledgers and Cash Flow Statements.



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		Global	interpret financial statements for business diagnosis and decision-making.	<p>CO 3: It is the language that managers use to communicate with the terms of accounting.</p> <p>CO 4:The firm's financial and economic information can be shared to external parties such as shareholders and creditors.</p> <p>CO 5:Create and display single and multiple stock groups and stock categories</p>
19J3SB1	LOGICAL REASONING AND DATA INTERPRETATION	National	To improve aptitude, problem solving skills and reasoning ability that helps to focus on their career development	<p>CO1: Apply quantitative techniques to solve variety of problems.</p> <p>CO2: Perform statistical analysis to interpret information.</p> <p>CO3Apply the aptitude tricks, shortcuts and formulas</p> <p>CO4: Acquire clear</p>



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				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 contemporary significance	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. CO5: Analyze case studies to implement and comment about performance of algorithms.
19J4CC8	WEB PROGRAMMING	Global	To provide the student with foundational	CO1:Select and apply mark-up languages for processing and presenting



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			programming knowledge and skills for application development on the Internet.	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. 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	CO1: Identify the anatomy of computers CO2: Compare the various memory units along with the storage devices CO3: Demonstrate and perform computer



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			information technology.	arithmetic operations on integer and real numbers CO4: Analyze the performance of Gates CO5: Conceptualize the basics of organizational and architectural issues of a digital computer with logics
19J4SB2	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



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19J5CC9	SOFTWARE ENGINEERING	Global	Aims to provide a thorough knowledge about various phases involved in software development along with the testing techniques.	<p>CO1: Compare the various software models.</p> <p>CO2: Use knowledge, techniques, skills and modern tools necessary for software engineering practice</p> <p>CO3: Analyze on the design factors and guidelines</p> <p>CO4: Understand the different types of testing used in softwares</p> <p>CO5: Understand the various types of Testing tools</p>
19J5CC10	JAVA PROGRAMMING	Global	To acquire knowledge on Object Oriented Programming using Multithreading, Exceptions, GUI & database Applications	<p>CO1: Acquire in depth knowledge in Java programming concepts</p> <p>CO2: Identify and analyze platform independent environment and byte code generation</p> <p>CO3: Build, Execute and</p>



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				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 Applications	CO1:Acquire in depth knowledge in Java programming concepts CO2:Identify and analyze platform independent 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



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19J5CC12	DOT NET PROGRAMMING	Global	To know the rapid development of powerful Window applications and Web application which makes the web development easier	<p>CO1:Use Dot Net Framework along with the features of C#</p> <p>CO2:Create websites to explore database connectivity</p> <p>CO3:Analyze debugging 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	To learn the basic knowledge of structured programming in C control structures, data structures and functions along with basic problem solving techniques.	<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</p>



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				<p>SaaS, PaaS, IaaS, public cloud, private cloud, hybrid 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 mobile communication</p> <p>CO3: Critique new knowledge in the field of computer science by using appropriate research methodologies</p> <p>CO4: Analyze on the various software kits</p>



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				available CO5: Assess the characteristics of Mobile Components and Applications
23J5SB3	ANIMATION 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 CO3: Apply the techniques available in CorelDraw CO4: Understand the Open Source techniques in editing CO5: Create animated banners and various simple animations
23J5SB4	E – CONTENT DEVELOPMENT	Global	This course helps to promote content generation, adaptation and distribution of e-	CO1: Understand E-Learning with respect to its needs, challenges and benefits



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			content through electronic media	<p>CO2: Explain the components of Authoring tools and E-learning standards</p> <p>CO3: Apply Audio editing techniques for creating podcasts</p> <p>CO4: Understand the techniques of creating customized lessons</p> <p>CO5: Create videos using online tools</p>
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	<p>CO1:Identify different Python object types</p> <p>CO2:Discuss how to use indexing and slicing to access data in Python programs</p> <p>CO3:Assess structure and components of a Python program</p> <p>CO4:Write programs to demonstrate loops and</p>



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				decision statements in Python CO5:Build and package in Python modules for reusability
19J6CC14	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



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19J6CC15	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.	CO1: Outline the functionalities of OSI reference model CO2: Discuss guided and unguided media and its real time usage and applications CO 3: Analyze on the design issues of DLL CO4: Demonstrate various routing algorithms through case studies CO 5: Assess real time web and network security mechanisms
19J6ME3	SECURITY PRACTICES	Global	This Course helps in examining the security issues and practices along with the encryption techniques.	CO1: Understand the concept of cryptography CO2: Compare on the encryption techniques available CO3: Evaluate the Various tools and tactics followed in military



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				<p>CO4: Predict the forensics fundamentals and the various technologies used to avoid computer crimes.</p> <p>CO5: Illustrate different methods to collect and preserve digital evidence and Digital Crime Scene</p>
19J6ME4	DATA MINING	Global	<p>To discover the hidden patterns in the rapidly growing data generated by businesses, science, web, and other sources and to focus on the key tasks of data mining.</p>	<p>CO1:Analyze data mining algorithms, methods, and tools</p> <p>CO2:Identify business applications of data mining</p> <p>CO3:Predict quantitative analysis report to make decisions</p> <p>CO4:Outline the developing areas web mining, text mining, and ethical aspects of data mining</p> <p>CO5: Compare the various applications of Data Mining</p>



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19J6ME5	INTERNET OF THINGS	Global	This helps to connect things to the internet which provide many advantages and also to understand the characteristics of IoT.	CO1: Design IOT based Prototypes CO2: Explain how sensors 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 and Virtual Reality.	CO1: Identify problems that are amenable to solution by AI methods CO2: Formulate search problems and implement search algorithms using admissible heuristics CO3: Analyze on the basics and architecture of VR systems



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				<p>CO4: Identify the human factors, effects and impact of VR</p> <p>CO5: Apply the VR technology in different applications</p>
23J6SB5	PHP	Global	<p>To be familiar with the structured approach by identifying the needs, interests and functionalities that helps in creating dynamic websites</p>	<p>CO1: Demonstrate how server – side programming works on the web</p> <p>CO2: Use PHP built – in functions and creating custom functions</p> <p>CO3: Create a database in phpMyAdmin</p> <p>CO4: Create dynamic web pages</p> <p>CO5: Design websites for various applications</p>
23J6SB6	LINUX	Global	<p>This course gives basic knowledge on Linux operating system and to execute the code</p>	<p>CO1: Analyze the inner workings of LINUX operating systems</p> <p>CO2: Utilize Linux system to</p>



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			written in other languages. .	accomplish typical personal, office, technical, and software development tasks CO3:Use Linux utilities to create and manage simple file processing CO4:Use operations, organizedirectory structures with appropriate security CO5:Formulate shell scripts to perform more complex tasks
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Name of the Programme: PGDCA

Programme Outcomes:

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:

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 domainsbased 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.



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Course Outcomes:

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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 infrastructure.



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23PDB102	Problem solving using C and 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 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 Script in PHP



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				CO5: Outline the database connectivity
23PDB104	Lab –I Programming in C and 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 Programming	Global	To provide the student with foundational programming knowledge and skills for application	CO1: Understand the Webpage creation CO2: Explain the tables and frames CO3: Understand the Stylesheets



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



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				<p>CO3: Understand the needs of triggering applications</p> <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>
21PDB202	Python	Global	<p>To enable the students to get better understanding in the OOPS Concept and to have basic knowledge in writing programs using Python Programming.</p>	<p>CO1: Assess why Python is a useful scripting language for developers.</p> <p>CO2: Identify Python object types.</p> <p>CO3: Illustrate the usage of Lists, tuples, and Dictionaries in Python Programs.</p> <p>CO4: Acquire how to design and program Python applications.</p>



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				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 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



FATIMA COLLEGE

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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, and Dictionaries in Python Programs. CO4: Acquire how to design and program Python applications. CO5: Outline the file operations in Python.
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