



FATIMA COLLEGE

(Autonomous)

Affiliated to Madurai Kamaraj University
Re-Accredited with 'A++' (CGPA 3.61) by NAAC (Cycle - IV)
Mary Land, Madurai - 625018, Tamil Nadu

FATIMA COLLEGE (AUTONOMOUS), MADURAI – 625018

2021 - 2022

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 (POs)

PO 1	Model Tool Usage: Understand, analyze and apply the concepts of latest technologies to bring solutions to the problems in the areas of computer applications.
PO 2	Computer Knowledge: Analyze and synthesize computing systems through quantitative and qualitative techniques along with effective verbal and non-verbal communication.
PO 3	Environment Sustainability: Apply technical and professional skills practically to excel in providing solutions for solving complex real life problems satisfying industrial and societal needs.
PO 4	Team Work with Professional Skills: To promote leadership skills and also as an individual on working with multi-disciplinary projects using Modern computing tools



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	and Open-Source Technologies.
PO 5	Ethics: Commit to professional ethics and cyber regulations considering the societal and environmental issues within local and global contexts for sustainable development

Programme Specific Outcomes (PSOs)

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 industry
PSO 6	To gain exposure in preventive, ethical hacking and security technologies in recent trends



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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 (COs)

Course Code	Course Title	Nature of the Course (Local/National/ Regional/Global)	Course Description	Course Outcomes
19J1CC1	PROGRAMMING IN C	Global	To learn the basic knowledge of structured	CO1: Acquire basic understanding of C



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			programming in C 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
19J1CC2	LAB IN C PROGRAMMING	Global	To learn the practical implementation of structured programming using control structures, data structures and	CO1: Acquire basic understanding of C programming CO2: Illustrate how arrays and strings are implemented in C CO3: Utilize the knowledge of



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			functions along with basic problem-solving techniques	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 to create interactive animated 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



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				different sounds and sound formats in alice
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++ Programming	CO1: Assess the object – oriented concepts in C++ CO2: Illustrate the usage of 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++
19J2CC4	LAB IN C++ PROGRAMMING	Global	To learn the basic knowledge of Object-Oriented	CO1: Read, understand and trace the execution of programs written in C++ language



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			Programming in C++ and write code in all aspects of 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++. CO5: Write C++ code to demonstrate each concept
21J2NME	NON MAJOR ELECTIVE – II ANIMATION TOOLS AND TECHNIQUES	Global	This course helps to become familiar with the elements and tools in Alice that is used to create interactive animated media	CO1: Apply object properties, methods and events CO2: Design, create and edit animation scenes and interactive movies CO3: Utilize event handling



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			such as scene creation and movie making.	methods and properties CO4: Demonstrate story boards and animation movies CO5: Utilize and understand different sounds and sound formats in alice
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



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				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 CO4: Disseminate knowledge of RDBMS and SQL, both in terms of design and implementation



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				usage CO5: Write dynamic queries to demonstrate the concepts of RDBMS
19AC3ACJ3	PRINCIPLES OF FINANCIAL ACCOUNTING AND ACCOUNTING PACKAGE	Global	This course provides the accounting language's essentials that helps to read and interpret financial statements for business diagnosis and decision-making.	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. CO 3: It is the language that managers use to communicate with the terms of accounting. CO 4: The firm's financial and economic information can be shared to external parties such



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				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	Global	To improve aptitude, problem solving skills and reasoning ability that helps to focus on their career	CO1: Apply quantitative techniques to solve variety of problems CO2: Perform statistical analysis to interpret information CO3: Apply the aptitude tricks, shortcuts and formulas CO4: Acquire clear understanding on easily solving the reasoning CO5: Focuses in clearing the competitive, Campus and entrance



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			development	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: To understand about writing algorithms and step by step approach in solving problems with the help of fundamental data structures. CO2: To disseminate knowledge in Abstract Data Types. CO3: To Work with Tree Traversals. CO4: To analyze the different searching and sorting techniques. CO5: Analyze case studies to implement and comment about performance of algorithms.
19J4CC8	LAB IN WEB PROGRAMMING	Global	To understand web design	CO1: Select and apply mark-up languages for processing and presenting information in web pages.



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			principles and technologies and to create web pages with emerging and existing technologies added with scripting.	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	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



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			technologies in the field of computers and information technology.	CO4: Analyze the performance of Gates CO5: Conceptualize the 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	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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			presentations with automation tools.	
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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.	CO1: Compare the various software models 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 software's CO5: Compare the various types of Testing styles
19J5CC10	JAVA PROGRAMMING	Global	To acquire 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



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				CO4: Design and Implement packages CO5: Write, Compile and Execute applet programs which includes GUI
19J5CC11	LAB V – 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	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 webpages through case studies CO4: Use the different types of master page creation CO5: Create different dynamic websites for applications
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.	CO1: Outline problems and evaluate various cloud computing solutions CO2: Outline Cloud service and deployment models CO3: Identify the architecture and infrastructure of cloud computing including SaaS, PaaS, IaaS, public cloud, private cloud, hybrid cloud and



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				community cloud CO4: Predict security issues and formulate recovery mechanisms CO5: Understand the concept of virtualization
19J5ME2	MOBILE COMPUTING	Global	To be acquainted with the Mobile Application Development Platform and its Architectures, GSM, GPRS, Applications	CO1: Create the infrastructure to develop mobile communication systems CO2: Assess the characteristics of emerging technologies in mobile communication CO3: Critique new knowledge in the field of computer science by using appropriate search methodologies CO4: Analyze on the various software kits available CO5: Assess the characteristics of



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				Mobile Components and Applications
19J5SB3	SKILL BASED – III LAB IN 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



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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 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



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				<p>of a Python program</p> <p>CO4: Write programs to demonstrate loops and decision statements in Python</p> <p>CO5: Build and package in Python modules for reusability</p>
19J6CC14	COMPUTER NETWORKS	Global	<p>This course helps to know about the layered architecture of different models and also the works of each layer with security features.</p>	<p>CO 1: Outline the functionalities of OSI reference model</p> <p>CO 2: Discuss guided and unguided media and its real time usage and applications implementations.</p> <p>CO 3: Analyze on the design issues of DLL</p> <p>CO 4: Demonstrate various routing algorithms through case studies network design and implementation</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 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 (IoT)	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 CO4: Identify the human factors,



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				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 CO4: Create dynamic web pages CO5: Design websites for various applications



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NAME OF THE PROGRAMME: PG Diploma in Computer Applications

Programme Outcomes (POs)

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.

Programme Specific Outcomes (PSOs)

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
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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 (COs)

Course Code	Course Title	Nature of the Course (Local/National/ Regional/Global)	Course Description	Course Outcomes
19PDB101	COMPUTER	Global	To Study about the	CO1: Outline the structure of OS,



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	FUNDAMENTALS		concepts, structure and mechanisms of operating systems. To examine the operations of processes and threads, scheduling, deadlock, memory management and file systems	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
19PDB102	PROBLEM SOLVING USING C	Global	To develop programs using C programming language, in order to solve simple to moderate problems.	CO1: Acquire basic understanding of C Programming CO2: Illustrate how arrays and strings are implemented in C



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				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
19PDB103	WEB DESIGNING	Global	To provide the student with foundational programming knowledge and skills for application development on the Internet	CO1: Acquire basic understanding of Web designing CO2: Writing valid and concise code for web pages CO3: Utilize the knowledge of web creation CO4: Analyze the validations for website CO5: Outline the file operations



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19PDB104	LAB –I PROGRAMMIN G IN C	Global	To develop programs using C programming langua ge, in order to solve simple to moderate problems.	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
19PDB105	LAB –II WEB PROGRAMMIN G	Global	To provide the student with foundational programming knowledge and skills for application development on the	CO1: Acquire basic understanding of Web designing CO2: Writing valid and concise code for web pages CO3: Utilize the knowledge of web creation



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			Internet. To create and design digital images and illustrations for print and Web publication.	CO4: Analyze the validations for website CO5: Outline the file operations
21PDB106	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	Global	To inculcate	CO1: Critique SQL commands to



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	MANAGEMENT SYSTEM		knowledge on RDBMS concepts and Programming with SQL.	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
21PDB202	PYTHON PROGRAMMING	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, and Dictionaries in Python



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			using Python Programming.	Programs. CO4: Acquire how to design and program Python applications. CO5: Outline the file operations in Python.
19PDB203	LAB –IV RDBMS	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 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



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				RDBMS
19PDB204	LAB –V PYTHON PROGRAMMIN G	Global	To Learn to design and develop Windows- Based Business Application using VB program that meet commercial program standard.	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