UNDERGRADUATE PROGRAMME: COURSE OUTCOME

Name of the Programme: BBA-CA

Name of the Class	Course Code	Course Title	Course Outcomes	
SEMESTER I				
F.Y.B.B.A (C.A.)	101	Modern Operating Environment and MS Office	CO1	The student will be able to recognize when to use each of the Microsoft Office programs to create professional business documents.
			CO2	The student will be able to use Microsoft Office programs to create personal and/or business documents following current professional and/or industry standards
			CO3	The student will be able to pursue future courses specializing in one or more of the programs.
			CO4	The student will be able to apply skills and concepts for basic use of computer hardware, software, networks, and the Internet in the workplace and in future coursework as identified by the internationally accepted Internet and Computing Core (IC3) standards.
F.Y.B.B.A (C.A.)	101 New	Business Communication Skills	CO1	The student will be able to understand the role of communication in personal and business world.
			CO2	The student will be able to understand system and communication and their utility
			CO3	The student will be able to develop proficiency in how to write business letters.
F.Y.B.B.A (C.A.)	102	Financial Accounting	CO1	The students have acquired sound knowledge of basic concepts of accounting
			CO2	Students also understood about recording of transactions and preparation of final accounts
			CO3	Students got exposure about various accounting software packages.

F.Y.B.B.A (C.A.)	102 New	Principles of Management	CO1	The student will be able to understand basic concept regarding org. Business Administration.
			CO2	The student will be able to examining various management principles.
			CO3	The student will be able to develop managerial skills among the students.
F.Y.B.B.A (C.A.)	103	Principles of Programming and Algorithm	CO1	The student will be able to apply knowledge of mathematics, science, and engineering
			CO2	The student will be able to learn how to solve common types of computing problems.
			CO3	The student will be able to design and conduct experiments, as well as to analyze and interpret data.
			CO4	The student will be able to design a system, component, or process to meet desired needs within realistic constraints.
			CO5	The student will be able to function on multidisciplinary teams.
F.Y.B.B.A (C.A.)	104	Business Communication	CO1	Students shall understand the concept, process and importance of communication
			CO2	Students shall develop an integrative approach where reading, writing, presentation skills are used together to enhance the students' ability to communicate and write effectively
			CO3	Students shall be awareness among students about Methods and Media of communication
			CO4	Students shall get familiar with information technology and improve job seeking skills.
F.Y.B.B.A (C.A.)	105	Principles of Management	CO1	The student will be able to understand basic concept regarding org. Business Administration.
			CO2	The student will be able to examining various management principles.
			CO3	The student will be able to develop managerial skills among the students.
F.Y.B.B.A (C.A.)	105 New	Business Statistics	CO1	Students will be able to understand role and importance of statistics in various business situations
			CO2	Students will be able to develop skills related with basic statistical technique
			CO3	Students will be able to develop right

				understanding regarding regression, correlation and data interpretation
F.Y.B.B.A (C.A.)	106	Laboratory Course (Ms. Office, Tally, PPA)	CO1	Students will be gain useful knowledge and demonstrate correct application of features of Ms. Office.
			CO2	Students will be able to easily create and edit workbooks having multiple sheets for different purposes and situations.
			CO3	Tally gives the platform to report the financial transaction with excessive ease.
			CO4	An ability to design a system, component, or process to meet desired needs within realistic constraints.
SEMESTER II				
F.Y.B.B.A (C.A.)	201	Procedure Oriented Programming using "C"	CO1	The student will be able to understand the working of a digital computer.
			CO2	The student will able to analyze a given problem and develop an algorithm to solve the problem
			CO3	The student will able to improve upon a solution to a problem.
			CO4	The student will able to use the 'C' language constructs in the right way.
			CO5	The student will able to design, develop and test programs written in 'C'
F.Y.B.B.A (C.A.)	201 New	Organizational Behavior & Human Resource Management	CO1	The student will able to understand basic concept of HRM & OB
			CO2	The student will able to make aware students about traditional & modern methods of procurement & development in organization.
			CO3	The student will able to know the major trends in HRM & OB
F.Y.B.B.A (C.A.)	202	Database Management Systems	CO1	The student will able to learn the basic concepts and understand the applications of database systems.
			CO2	The student will able to construct an Entity-Relationship (E-R) model from specifications and to transform to relational model.
			CO3	The student will able to construct unary/binary/set/aggregate queries in Relational Algebra.
			CO4	The student will able to understand and apply database normalization principles.
F.Y.B.B.A (C.A.)	202 New	Financial Accounting	CO1	The student will able to develop right understanding regarding role and

					importance of monetary and financial transactions in business.
				CO2	The student will able to cultivate right approach towards classifications of different transactions and their implications.
				CO3	The student will able to develop proficiency preparation of basic financial as to how to write basis accounting statement - Trading and P&L.
F.Y.B.B.A (C.A.)	203	Organizational Behavior		CO1	The students will able to define, explain and illustrate a range of organisational behaviour theories.
				CO2	The students will able to analyse the behaviour of individuals and groups in organisations in terms of organisational behaviour theories, models and concepts.
				CO3	The students will able to apply organisational behaviour concepts, models and theories to real life management situations.
				CO4	The students will able to demonstrate a critical understanding of organisational behaviour theories.
				CO5	The students will able to communicate effectively about organisational behaviour theories and their application using appropriate concepts.
				CO6	The students will able to explain group dynamics and demonstrate skills required for working in groups (team building)
F.Y.B.B.A (C.A.)	203 New	Business Mathematics		CO1	The students will able to understand role and importance of Mathematics in various business situations and while developing softwares.
				CO2	The students will able to develop skills related with basic mathematical technique
F.Y.B.B.A (C.A.)	204	Computer Applications In Statistics		CO1	Students shall understand the power of excel spreadsheet in computing summary statistics.
				CO2	Students shall understand the concept of various measures of central tendency and

				variation and their importance in business
			CO3	Students shall understand the concept of probability, probability distributions and simulations in business world and decision making.
F.Y.B.B.A (C.A.)	204 New	Relational Data Base	CO1	The students will able to understand relational database concepts and transaction management concepts in database system.
			CO2	The students will able to write PL/SQL programs that use: procedure, function, package, cursor and trigger.
F.Y.B.B.A (C.A.)	205	E-Commerce Concepts	CO1	The students will able to Describe an example of system architecture for an e-Business.
			CO2	The students will able to identify the major electronic payment issues and options.
			CO3	The students will able to discuss security issues and explain procedures used to protect against security threats.
F.Y.B.B.A (C.A.)	205 New	Web Technology (HTML-JSS-CSS)	CO1	The students will able to know & understand concepts of internet programming.
			CO2	The students will able to understand how to develop web based applications using JavaScript.
F.Y.B.B.A (C.A.)	206	Laboratory Course (C- Programming, DBMS and Stat)	CO1	Students will be able to Design, develop and test programs written in 'C'
			CO2	Students will be able to easily design and create a good database and use various SQL operations.
			CO3	Students shall understand the power of excel spreadsheet in computing summary statistics.
SEMESTER III				
S.Y.B.B.A (C.A.)	301	Relational Database Management System	CO1	The students will be able to understand basic concepts and the applications of database systems
			CO2	The students will able to Understand and apply database normalization principles.
			CO3	The students will be able to understand principles of database transaction

				management, database recovery, security.
			CO4	The students will be able to understand Functions, Cursors, Triggers and packages.
			CO5	The student will get brief knowledge about SQL Fundamentals.
			CO6	The students will be able to understand Functions, Cursors, Triggers and packages.
			CO7	The students will be able to handle with different Data Base languages
S.Y.B.B.A (C.A.)	301 New	Digital Marketing	CO1	The students will be able to give knowledge about using digital marketing in business.
			CO2	The students will be able to make SWOT analysis, SEO optimization and use of various digital marketing tools.
S.Y.B.B.A (C.A.)	302	Data Structure Using C	CO1	Students will be able to apply concepts of data structure in various domains like DBMS, etc.
			CO2	Students will be able to handle various operations like creation, insertion, deletion, searching, etc. on various data structure.
			CO3	Students will be able to use various data structures like stack, queue, linked list, etc in practically.
			CO4	Students will be able to apply appropriate data structure to specified problem definition.
S.Y.B.B.A (C.A.)	302 New	Data Structure	CO1	Students will be able to understand the concepts of ADTs.
			CO2	Students will be able to learn linear data structures – lists, stacks, and queues.
			CO3	Students will be able to understand sorting, searching and hashing algorithms.
			CO4	Students will be able to apply Tree and Graph structures.
S.Y.B.B.A (C.A.)	303	Introduction to Operating System	CO1	Students will be able to understand the concepts of operating system and its working.
			CO2	Students will be able to understand various operating systems features
			CO3	Students will be able to understand basic architectural components involved in operating system design
			CO4	Students will be able to understand

				device and resource management techniques for timesharing and distributed system
			CO5	Students will be able to understand the concept of mutual exclusion, deadlock detection of distributed operating system
S.Y.B.B.A (C.A.)	303 New	Software Engineering	CO1	Students will be able to understand System concepts.
			CO2	Students will be able to understand Software Engineering concepts.
			CO3	Students will be able to understand the applications of Software Engineering concepts and Design in Software
S.Y.B.B.A (C.A.)	304	BUSINESS MATHEMATICS	CO1	Students shall understand applications of matrices in business
			CO2	Students shall use L.P.P. and its applications in business
			CO3	Students shall understand the concept of Transportation problems & its applications in business world
			CO4	Students shall understand the concept of Profits and loss, loans and EMIs
S.Y.B.B.A (C.A.)	304 New (Option)	Angular - JS	CO1	The students will be able to understand Client Side MVC and SPA.
			CO2	The students will be able to explore AngularJS Component.
			CO3	The students will be able to develop an AngularJS Single Page Application.
			CO4	The students will be able to create and bind controllers with Javascript.
			CO5	The students will be able to apply filter in AngularJS application.
S.Y.B.B.A (C.A.)	304 New (Option)	PHP	CO1	The students will be able to understand how server-side programming works on the web.
			CO2	The students will be able to use PHP built-in functions and creating custom functions.
			CO3	The students will be able to understand POST and GET in form submission.
			CO4	The students will be able to understand how to receive and process form

				submission data.
			CO5	The students will be able to read and process data in a MySQL database.
S.Y.B.B.A (C.A.)	305	Software Engineering	CO1	The students will be able to use the techniques, skills, and modern engineering tools necessary for engineering practice.
			CO2	The students will be able to analyze, design, verifies, validate, implement, apply, and maintain software systems.
			CO3	The students will be able to design and conduct experiments, as well as to analyze and interpret data.
			CO4	The students will be able to identify, formulates, and solves engineering problems.
S.Y.B.B.A (C.A.)	305 New (Option)	Big Data	CO1	The students will be able to develop expert knowledge and analytical skills in current and developing areas of analysis statistics, and machine learning
			CO2	The students will be able to identify, develop and apply detailed analytical, creative, problem solving skills.
			CO3	The students will be able to understand comprehensive platform for career development, innovation and further study.
S.Y.B.B.A (C.A.)	305 New (Option)	Block Chain	CO1	The students will be able to understand how blockchain systems (mainly Bitcoin and Ethereum) work.
			CO2	The students will be able to securely interact with them.
			CO3	The students will be able to design, build, and deploy smart contracts and distributed applications.
			CO4	The students will be able to integrate ideas from blockchain technology into their own projects
S.Y.B.B.A (C.A.)	306	Computer Laboratory and Practical Work (D.S	CO1	Student will be able to solve the practical problem using Data Structure using C and Relational Database Management

		+ RDBMS)		System
			CO2	Students will be able to implement and summarize concepts of searching and sorting techniques.
			CO3	Students will be able to write well-structured program using procedure oriented design principles.
			CO4	Students will be able to analyze run-time execution of application.
			CO5	Students will be able to implement the Stack ADT using array and linked list data structures.
S.Y.B.B.A (C.A.)	AECC Add-On Course	Basic Course in Environmental Awareness	CO1	Students will be able to provide an opportunities to acquire the knowledge, values, attitudes, commitment, and skills needed to protect and improve the environment.
			CO2	Students will be able to develop conscious towards a cleaner and better managed environment.

SEMESTER IV				
S.Y.B.B.A (C.A.)	401	Object Oriented Programming Using C++	CO1	Students will be able to understand features of object oriented programming.
			CO2	Students will be able to produce object-oriented software using C++
			CO3	Students will be able to apply the major object-oriented concepts in programming
			CO4	Students will be able to understand the advanced features of C++ such as stream I/O, Templates, Operator Overloading, etc.
S.Y.B.B.A (C.A.)	401 New	Networking	CO1	Students will be able to gain knowledge about Computer Networks concepts.
			CO2	Students will be able to know about working of networking models, addresses, transmission medias and connectivity devices.
			CO3	Students will be able to acquire information about network security and cryptography.
S.Y.B.B.A (C.A.)	402	Programming in Visual Basic	CO1	Students will be able to understand the basics of visual basic and its implementation
			CO2	Students will be able to develop

				Graphical User Interface based on problem specified
			CO3	Students will be able to develop and debug application very easily
S.Y.B.B.A (C.A.)	402 New	Object Oriented Concepts Through CPP	CO1	Students will be able to acquire an understanding of basic object-oriented concepts and the issues involved in effective class design.
			CO2	Students will be able to enable students to write programs using C++ features like operator overloading, constructor and destructor, inheritance, polymorphism and exception handling.
S.Y.B.B.A (C.A.)	403	Computer Networking	CO1	Students will be able to identify the different components in a Communication System and their respective roles.
			CO2	Students will be able to describe the technical issues related to the local Area Networks.
			CO3	Students will be able to identify the common technologies available in establishing LAN infrastructure.
S.Y.B.B.A (C.A.)	403 New	Operating System	CO1	Students will be able to know the services provided by Operating System
			CO2	Students will be able to know the scheduling concept
			CO3	Students will be able to understand design issues related to memory management and various related algorithms.
			CO4	Students will be able to understand design issues related to File management and various related algorithms
S.Y.B.B.A (C.A.)	404	Enterprise Resource Planning and Management	CO1	Students will be able to understand ERP and learned about different technologies used.
S.Y.B.B.A (C.A.)	404 New (Option)	Advance PHP	CO1	Students will be able to know & understand concepts of internet programming.
			CO2	Students will be able to understand how server-side programming works on the web.
			CO3	Students will be able to understanding How to use PHP Framework (Joomla / Druple)
S.Y.B.B.A (C.A.)	404 New (Option)	Node – JS	CO1	Students will be able to understand the JavaScript and technical concepts behind Node JS.

			CO2	Students will be able to structure a Node application in modules.
			CO3	Students will be able to understand and use the Event Emitter.
			CO4	Students will be able to understand Buffers, Streams, and Pipes.
			CO5	Students will be able to build a Web Server in Node and understand how it really works.
			CO6	Students will be able to connect to a SQL or Mongo database in Node.
S.Y.B.B.A (C.A.)	406	Computer Laboratory and Practical Work (VB + C++)	CO1	Student will be able to solve the practical problem using Object Oriented Programming Using C++ and Visual Basic
			CO2	Student will be able to construct the programs using bottom-up design approach
			CO3	Students will be able to debug analyze run-time execution of VB and C++ application
			CO4	Students will be able to implement class, function overloading, operating overloading, Polymorphism, templates, etc.
			CO5	Students will be able to use ActiveX controls to improve design and effectiveness of VB application.
			CO6	Students will be able to prepare report in Visual Basic
S.Y.B.B.A (C.A.)	AddOn	JQuery	CO1	Students will be able to understand the JavaScript language & the Document Object Model.
			CO2	Students will be able to detect and respond to user actions.
			CO3	Students will be able to Alter, show, hide and move objects on a web page.

SEMESTER V

T.Y.B.B.A (C.A.)	501	Java Programming	CO1	Students will be able to understand programming language concepts, particularly Java and object-oriented concepts.
			CO2	Students will be able to write, debug, and document well-structured Java applications.
			CO3	Students will be able to implement Java classes from specifications and effectively create and use objects from predefined class libraries.

			CO4	Students will be able to understand the behavior of primitive data types, object references, and arrays.
			CO5	Students will be able to apply decision and iteration control structures to implement algorithms
T.Y.B.B.A (C.A.)	502	Web Technologies	CO1	Students will be able to write a well formed / valid XML document.
			CO2	Students will be able to write a server side java application called Servlet to catch update and delete operations on DBMS table.
			CO3	Students will be able to write a server side java application called Servlet to catch form data sent from client, process it and store it on database.
			CO4	Students will be able to write a server side java application called JSP to catch form data sent from client and store it on database.
T.Y.B.B.A (C.A.)	503	Dot Net Programming	CO1	Students will be able to use features of Dot Net Framework along with Visual Basic.
			CO2	Students will be able to develop Graphical User Interface based on problem specified.
			CO3	Students will be able to develop and debug application very easily.
T.Y.B.B.A (C.A.)	504	Object Oriented Software Engineering	CO1	Students will be able to describe the three pillars of object-orientation methodologies and explain the benefits of each.
			CO2	Students will be able to create use case documents that capture requirements for a software system.
			CO3	Students will be able to create class diagrams that model both the domain model and design model of a software system.
			CO4	Students will be able to design the interface between the classes and objects.
			CO5	Students will be able to create an interaction diagrams that models the dynamic aspects of a software system.
			CO6	Students will be able to understand the facets of the Unified Process approach to designing and building a software system.

			CO7	Students will be able to describe how design patterns facilitate development and list several of the most popular patterns.
			CO8	Students will be able to design the Axioms and corollaries.
			CO9	Students will be able to build a model for the user interface (UI) of a software application
			CO10	Students will be able to measure the Level of User satisfaction and software quality assurance.
T.Y.B.B.A (C.A.)	505	Project work (Based on C++ & VB)	CO1	Student is able to prepare software requirements.
			CO2	Students can understand the user/client requirements.
			CO3	Students can design the software using various tools and functions.
			CO4	Students can able to design the framework of the particular topic.
			CO5	Students can prepare different types of reports of the project.
			CO6	Students can prepare the documentation of the entire project.
T.Y.B.B.A (C.A.)	506	Lab Course (Java & Web tech)	CO1	Students will be able to setup up and use a webserver for testing and deploying web applications.
			CO2	Students will be able to learn to create simple static webpages using html tags.
			CO3	Students will be able to learn client side scripting using a scripting language.
			CO4	Students will be able to use DOM concepts for client side scripting.
			CO5	Students will be able to learn server side scripting using database connectivity and report generation.
			CO6	Students will be able to learn the concept of Java application
			CO7	Students will be able to use different swing concepts.
			CO8	Students will be able to learn how to connect front end with backend.

SEMESTER VI

T.Y.B.B.A (C.A.)	601	Advanced Web Technologies	CO1	Students will be able to understand the Mark-up language technology such as XML Structure and tools.
			CO2	Students will be able to understand

				advanced web technologies such as AJAX.
			CO3	Students will be able to understand advanced web topic such as Web Services.
			CO4	Students will be able to develop a dynamic webpage by using JavaScript and HTML.
			CO5	Students will be able to write a valid XML document
T.Y.B.B.A (C.A.)	602	Advanced Java	CO1	The students will have the competence in the use of Java Programming language.
			CO2	The students will be able to develop small to medium sized application programs that demonstrate professionally acceptable coding.
T.Y.B.B.A (C.A.)	603	Recent Trends in IT	CO1	Students will be able to analyze the problems.
			CO2	Students will be able to learn how to analyze and create systems to accomplish tasks.
			CO3	Students will be able to evaluate rapidly evolving trends and to integrate knowledge from appropriate fields to make effective and ethical technology decisions.
T.Y.B.B.A (C.A.)	604	Software Testing	CO1	Students will understand various test processes and continuous quality improvement.
			CO2	Students will learn types of errors and fault models.
			CO3	Students will understand the methods of test generation from requirements.
			CO4	Students will understand Test adequacy assessment using: control flow, data flow, and program mutations.
			CO5	Students will be able to use of various test tools.
			CO6	Students will be able to use application of software testing techniques in commercial environments.
T.Y.B.B.A (C.A.)	605	Project work (Based on Java & .Net)	CO1	Student is able to prepare software requirements.
			CO2	Students can understand the user/client requirements.
			CO3	Students can design the software using various tools and functions.
			CO4	Students can able to design the

				framework of the particular topic.
			CO5	Students can prepare different types of reports of the project.
			CO6	Students can prepare the documentation of the entire project.
T.Y.B.B.A (C.A.)	606	Lab Course (Advance Java & Advance Web tech)	CO1	Students will be able to study the different Java components.
			CO2	Students will be able to learn the different forms of java and php as applicable for effective presentation.
			CO3	Students will be able to study the major components of java and php their integrated effect.
			CO4	Students will be able to study the different formats and application packages to create and edit.
			CO5	Students will be able to learn the techniques of database connectivity using different software applications.
			CO6	Students will be able to learn the techniques of video capturing and conversion using different software applications