BACHELOR OF COMPUTER APPLICATIONS (BCA)
COURSE OUTCOMES

First Year (2nd Semester)

S.No	Subject code	Subject Title	Subject Category	Course Outcome
1	BCA0201	Mathematics-II	Core	• The course will make students understand the concepts of group, ring, number system and theorems of mathematics. • Learn concepts directly implemented in coding and decoding.
2	BCA0202	Communicative English	Core	• This course would enable the students to communicate effectively. • Make use of language appropriately in real life situations • enhance their reading, writing, listening and speaking skills.
3	BCA0203	Digital Electronics	Core	• This course will help students to understand the basic concepts of the theory of digital design. • provide in-depth knowledge to understand the Boolean algebraic expressions and instruction execution.
4	BCA0204	Data Structures	Core	• This course is designed to enable students to understand the importance of data structures w.r.t.. real world • Emphasis is laid on algorithm design methods that affect the performance of the program.
5	BCA0205	Data Base Management System	Core	• This course is designed to expose the students to the basic concepts of data and its management. • The objective of the course is to make students understand the advanced concepts of DBMS.
6	BCA0204(P)	Data Structures Lab-III	Practical	• This course is designed to implement the programs on lists, arrays, stacks and queues in C language. • It also aims to optimize the program code in terms of space and time complexity.
7	BCA0205(P)	Data Base Management System Lab-IV	Practical	• This course introduces the students to the concept of DBMS and its implementation using MS Access tool. • provides the in-depth practical knowledge to the students on tables, queries, forms and reports.

Second Year (3rd semester)

S.No	Subject Code	Subject Title	Subject Category	Course Outcome
1	BCA0301	Mathematics-III	Core	• This course provides students with complete knowledge to get the numerical solution using second order differentiation, complex numbers and GF2. • Helps in increasing computational speed
2	BCA0302	Business Practices and Management	Core	• The main objective of the course is to provide students with a comprehensive understanding of fundamental business principles and management practices. • These outcomes aim to equip students with the knowledge and skills needed to effectively manage and lead in a business environment.
3	BCA0303	Computer Organization	Core	• This course introduces students to fundamentals of different instruction set architecture and its relationship to the CPU design. • Course aims to highlight the various number systems and its implementation in designing machine code.
4	BCA0304	Object Oriented Programming with C++	Core	• The main objective of the course is to equip students with the basic concepts of Object-Oriented Programming. • The course highlights the program with C++ features such as operator overloading, inheritance and polymorphism.
5	BCA0305	Desktop Publishing and Designing	Core	• This course focuses on teaching students the skills and techniques required to create visually appealing and professional documents for print and digital media. • The course makes students learn photo shop and PageMaker

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				concepts.
6	BCA0304(P)	Object Oriented Programming with C++ Lab-V	Practical	• This course is designed to simulate the real-world problems in C++ language. • The course aims to implement programming in operator-overloading, inheritance and polymorphism.
7	BCA0305(P)	Desktop Publishing and Designing Lab-VI	Practical	• This course focuses on hands-on experience in creating various types of publications and designs. • Making use of desktop publishing software like adobe photo shop and PageMaker.

Second Year (4th Semester)

S.No	Subject Code	Subject Title	Subject Category	Course Outcome
1	BCA0401	Personnel Management	Core	• This course focuses on equipping students with the knowledge and skills necessary to effectively manage and lead people within an organization. • Providing them with the knowledge and skills needed to address the challenges and responsibilities of managing human capital in today's organizations.
2	BCA0402	Accounting	Core	• This course aims to provide students with a foundational understanding of accounting principles • expose to practices, which can serve as a basis for more advanced accounting courses or careers in finance, auditing, or related fields.
3	BCA0403	System Analysis and Design	Core	• This course is designed to prepare students to analyze, and implement effective information systems that meet business needs • considering ethical, legal, and user-

					centric perspectives it helps in system testing
4	BCA0404	Internet Technology & Web Page Design	Core		• This course aims to equip students with the knowledge and skills needed to design, develop, and maintain websites effectively, • follow industry best practices and standards.
5	BCA0405	Programming in Visual Basic	Core		• The course is designed to equip students with the knowledge and skills needed to develop Windows-based applications using Visual Basic. • Students should be able to create functional, well-designed VB applications by the end of the course.
6	BCA0404(P)	Internet Technology & Web Page Design Lab-VII	Practical		• The course focuses on practical skills and knowledge related to web development and internet technologies. • It aims to prepare students to design, develop, and deploy functional and user-friendly websites adhering to industry standards and best practices in web design and development.
7	BCA0405(P)	Programming in Visual Basic Lab-VIII	Practical		• This course aim to equip students with practical skills in software development using Visual Basic and prepare them to design, develop, and deploy Windows applications • This course provides hands-on experience in developing applications using the Visual Basic programming language.

Third Year (5th S

S.No	Subject Code	Subject Title	Subject category	Program Outcome
1	BCA0501	Operating System	Core	• This course typically covers the fundamental principles, concepts, and components of computer operating systems. • The course would make students know about system software in detail providing them with a comprehensive understanding of operating systems,
2	BCA0502	ecommerce	Core	• This course focuses on the principles, technologies, and strategies related to online business and transactions. • would enable students to learn various business models.
3	BCA0503	Management Information System	Core	• The course typically focuses on the use of information technology and systems in managing and solving business problems. • The course would make students aware about information system and its management.
4	BCA0504	ASP.net Technologies	Core	• This course outlines the concepts related to web development using Microsoft's ASP.NET framework and its technologies. • This would enable the students to build dynamic and interactive web applications.
5	BCA0505	Computer Oriented Statistical Methods	Core	• This course aims to teach students how to apply statistical techniques using computer software for data analysis and interpretation. • This would prepare the students to use computer-based statistical methods to analyze data and draw meaningful conclusions,
6	BCA0504(P)	ASP.net Technologies Lab-IX	Practical	• This course complements theoretical knowledge with hands-on experience in developing web applications using ASP.NET and related technologies. • Learn how to create dynamic web pages and a user interface on asp

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7	BCA0505(P)	Computer Oriented Statistical Methods Lab-X	Practical	• This course intends to add theoretical knowledge with hands-on experience in applying statistical methods using Python open-source software. • This lab course allows students to practice and reinforce statistical concepts and techniques.

Third Year (6th Semester)

S.No	Subject Code	Subject Title	Subject Category	Course Outcome
1	BCA0601	Computer Networks	Core	• This course emphasizes fundamental principles, technologies, and protocols used in the design and operation of computer networks. • Its aim is to equip students with the knowledge and skills needed to design, configure, and manage computer networks.
2	BCA0602	Numerical Methods	Core	• To introduce students to Bisection methods, gauss elimination method Simpson 1/3 rule. • Demonstrate understanding of common numerical methods and obtain approximate solutions
3	BCA0603	Multimedia Technology	Core	• This course covers a wide range of topics related to the creation, design, and management of multimedia content, which includes graphics, audio, video, and interactive elements. • Introduce the fields of digital media production, web development, graphic design, e-learning, or other multimedia-related professions.
4	BCA0604	Computer Graphics	Core	• This course would help the student to have a comprehensive understanding of computer graphics and enhance the ability to create and manipulate visual content using 2D techniques. • It covers the principles, techniques, and tools used to create and manipulate visual content on a computer screen.

5	BCA0605	Software Engineering	Core	• course covers the principles, methods, and best practices for designing, developing, testing, and maintaining software systems. • It would help students to understand software engineering methodologies and knowledge to support professional pathway enhancing technical and analytic skills.
6	BCA0604(P)	Computer Graphics Lab-XI	Practical	• provides hands-on experience to the students in applying computer graphics principles, techniques, and tools to create visual content and interactive applications. • It aims to equip students with practical skills and experience in computer graphics, preparing them for careers in fields such as game development, visual effects, virtual reality, computer-aided design, and interactive media development.
7	BCA0606	Major Project	Practical	• This aims to prepare students for real-world challenges by providing them with skills and experiences. • Introduce them to concepts to successfully plan, execute, and complete a major project in their chosen field of study.