

B.C.A (Computer Application)

VISION

The Bachelor of computer application is an innovative program based on a number of core courses in IT. The students will be exposed to the current trends in computing which will enable them to become leaders in the IT field.

MISSION

- Prepare students to function effectively in a dynamic technological era.
- Enable to have sound knowledge of the theory behind the core subjects like computer architecture, operating systems, data structures, data bases, computer networks.
- Equip to possess sound skills in selected procedural and object oriented programming languages, designing databases and managing them, software engineering and web-based application.
- Facilitate the development and application of problem-solving skills in students.

Program Educational Objectives (PEOs)

The graduate will be

PEO1:-Contribute to community as computing professionals

PEO2:-Demonstrate leadership skills at work.

PEO3:-Become an Entrepreneur who can provide the solutions and develop software products for enterprise need.

Program Outcomes (Pos)

Pos1:-Develop Skills to excel in the field of information technology.

Pos2:-Design solution for complex IT problems and design system components or process that meets the specified needs.

Pos3:- Identify ,formulate, review and analyze problems using various technique. .

Pos4:-Effectively manage project work according to different criteria like cost ,time etc.

Program Specific Outcomes (PSOs)

PSO1:- Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex technical activities with an understanding of the limitations.

PSO2:-Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the context of technological changes.

PSO3:-Apply Software engineering practices and strategies in software development.

PSO4:-Students will gain knowledge in latest trend in technology development and as a result can innovate new ideas.

Course Outcome

Co1:- Fundamentals of Computers and PC-Software	Learn about basics of Computer like working,operating and maintenance.`
Co2:- Programming & Problem Solving through C	Learn basic concept of programme development using c .
Co3:- Internet & Web Technology	Develop IT Skills in cyber area.
Co4:- Computer System Architecture	Identify the architecture of Computer with different Microproseccors
Co5:- Cyber Security	Learn about cyber security in virtual world.
Co6:- Discrete Mathematics & Algebra	Gain knowledge of maths using different mathematic algebra.
C07:- Operating System with LINUX	Understand the complexity and working of different of operarting system as a system software.
Co4:- Data Structure using C++	Gain knowledge of Data Structure for different types of data using list,link list ,stack and queue using c++.
Co6:- Data Base Management System & RDBMS	Develop database management skill using oracle. for maintaining data base..
Co7:- Software Engineering	Learn and apply the concept of software engineering in project development.
Co8:- Computer oriented Numerical Methods	Develop formal reasoning regarding Numerical Methods and Analysis.
Co9:- Computer Networks	Learn about basic concept and services of networking and network security.
Co10:- Web Programming	Aquire fundamental skills to design and implement static and dynamic web pages,hosting website ,Knowledge of server side scripting php.
Co11:- Cloud Computing Concepts	Identify the architecture,infrastructure and virtualization of cloud Computing
Co12:- Object Oriented Programming Using Java	Create Java Application Programme .
Co13:- Computer Graphics with Multimedia	Understand various theories to design graphic program using programming language.
Co14:- Management Information System	Learning Management Techniques and Problem solving methods.

Job Options

1.**Systems Analyst**:-As a systems analyst, you will use computers and related systems to design new IT solutions, modify, enhance or adapt existing systems and integrate new features or improvements, all with the aim of improving business efficiency and productivity

2. **Web Designer**:-A web developer's primary task is creating reliable and high performing applications and services, which can be accessed over the internet. Web developers build and maintain websites and web applications.

3.App Development:-Android/iOS app development is a lucrative job for BCA graduates. With most of the companies and websites planning their own apps, the demand is more for professionals.

4. Freelancing After completing BCA, one can also consider freelancing. A fresher who feels that they have excellent command over the programming language and designing skills can think about freelancing.

5.Government Jobs :- One can go for generalised jobs such as probationary officers in banks, short service commission in the Indian Navy and Army, Staff Selection Commission, Union Public Service Commission and others.

6. Public Sector:- Apart from the general jobs in the government sector, there are many positions in the public sector companies such as BHEL, Steel Authority of India and NTPC for which graduates from BCA can apply.